

Cybex VR2 Owner's and Service Manual Strength Systems Part Number 54599

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Cybex VR2 Owner's and Service Manual Strength Systems Part Number 54599

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Printed in the United States of America.

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Chapter 1 - Technical Specifications

General Specifications

Frame Finish

- Shall be made of mechanical quality 11-gauge steel purchased in mill run quantities to assure the best consistency.
- Prior to applying finish, each part shall be put through a multi-stage wash to remove all oils and to chemically prepare the surface for maximum adhesion. After the wash, the frames shall be dried and coated with an Electrostatically applied powdercoat finish that shall be applied in powder form and then baked until cured.
- The finish shall be textured and very hard, assuring a scratch and chip resistant finish.

Weight Selection

• Weights are to be selected by using a high quality selector pin that completely penetrates the weight plate and locks in place to eliminate any chance of disengaging the pin during use. The pin shall be attached to the weight stack with a plastic lanyard in order that the pin stays with the appropriate machine. All weights shall be selected while the user is in position on/in the machine to allow adjustment of the resistance from the exercise position.

Weight Stack Configuration

• All weight stacks shall have 12 1/2-pound weights except for the Standing Calf Raise (Product No. 4875) which shall have 20 pound weight plates.

Increment Weights

• All machines using weight stacks shall have a plastisol-covered increment weight weighing half the amount of a weight stack plate. A hanger for the increment weight shall be incorporated into the frame on the machine.

Weight Plates

- Shall be made of solid cold-rolled steel with wrinkle black powder coat finish.
- Guide rod holes shall be machined to a tolerance of \pm .006 inches.

Weight Plate Bushings

• Self-aligning low-friction bushings shall surround the guide rods for smooth gliding motion.

Pulleys

- Shall use Dupont Corp. fiberglass-reinforced nylon 70G33 material, tensile strength rated at 22,500 PSI with 6203ZZ double sealed bearings dynamic load rated at 1600 lbs.
- Pulleys shall 4.50 inches in diameter with a cable groove with a depth of .250 inches.

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Weight Transport

- Shall be lubricated, 7 x 19, 3/16" galvanized steel, nylon coated aircraft cable with breaking strength rated at 4200 pounds.
- All cable ends shall be finished off with a swaged fitting with a breaking strength exceeding that of the cable itself.

Weight Stack Guide Rods

• Shall be solid ground and polished cold-drawn steel with minimum yield strength of 100,000 PSI with a hard chrome plated piston steel finish with an overall minimum accuracy of ± .010.

Weight Stack Suspension

• Shall have heavy-duty neoprene bumpers with a 80 durometer rating under the weight stacks to reduce shock and vibration stresses to the frame and facility.

Cams

- All cams shall be individually designed for each unit to match the appropriate muscle strength capability curve.
- Cams shall be CNC laser cut steel for accuracy and incorporate a cable groove matched to the specific cable diameter.

Counter Balanced Input Arms

• Input arms on equipment shall be counter balanced where appropriate to eliminate the weight of the assembly from the weight selected by the user.

Handgrips

- Plate Loaded machines shall use a closed-end PVC closed cell foam vinyl sleeve.
- Select Plate Loaded shall use either "Grabbaroo" thermoplastic rubber extruded grip material that is non-absorbing, wear and tear resistant, and exhibits good wet and dry friction characteristics.
- Diameter should be 13/8" to increase comfort through reduced pressure.

Frame Construction

- Primarily 1 1/2 x 2" tubing with 11 gauge wall thickness, but different tubing sizes and wall thickness shall be used as required through engineering stress analysis.
- Fully welded frames for maximum structural integrity and minimum maintenance.
- All machining and welding must be done utilizing jigs and fixtures to insure highest quality and inter-changability of parts.

Radial Bearings

• 87503 double shielded bearing with 17-mm stainless steel shafts, dynamic load rating 1660 lbs.

Hardware

• All 3/8" socket head cap screws shall be of grade 8 (or equivalent). All bolts shall be either chromed or zinc plated for additional corrosion resistance.

Weight Stack Guards

• All weight stacks shall be guarded on the backside to prevent bystanders from inadvertent contact with the weight stack during use.

Cushion/Upholstery

- A superior grade of Naugahyde from Gencorp (or equivalent) shall be used on all pad covers and wear covers.
- The color shall be sulfide stain resistant.
- All edges shall be stitched to eliminate any folds in the material that would limit durability.
- Cushions come with replaceable slipcovers on all high use areas, reducing maintenance expense by not having to replace the entire cushion.
- Cushion foam consists of a combination of high and medium density closed-cell Omalon polyurethane, for durability and comfort.

Adjustments

• Recessed high contrast Lexan decal for all seat and pad adjustments for maximum readability.

Instructional Placard

- Shall provide step-by-step instructions and a picture to illustrate use, visible from the exercise position.
- Placard shall indicate proper positioning, details muscles trained and clearly describe the correct use of machines.

Equipment Anchoring

• Each machine shall be equipped with a provision for anchoring it to the floor.

VR2 Machine Specifications

Seated Leg Press - Product No. 4605

Machine Weight
1016 lbs.
462 kg

Weight Stack 505 lbs. 229 kg *Size* inches = 43 W x 89 L x 71 H cm = 110 W x 226 L x 181 H

• Four-bar linkage enhances alignment and provides variable resistance.

• Counter-balanced footplate effortlessly adjusts for desired starting position.

• Back pad adjusts to five positions for exercise variation.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Leg Extension - Product No. 4613, 4612, 4611

Machine Weight	Weight Stack	Size
594 lbs.	305 lbs.	inches = 39 W x 50 L x 61 H
270 kg	139 kg	cm = 99 W x 127 L x 155 H

- Seat back and tibia pad adjusts without affecting knee alignment or start position angle.
- Advanced RLD design maintains integrity of the resistance profile.
- RLD positions are 10° apart with start and end phased by 5° for maximum protection.

Prone Leg Curl - Product No. 4618, 4617, 4616

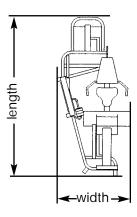
Machine Weight	Weight Stack	Size
484 lbs.	205 lbs.	inches = 37 W x 80 L x 61 H
220 kg	93 kg	cm = 94 W x 204 L x 155 H

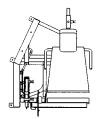
- Incorporation of elbow pads and handles is more sanitary and encourages a neutral spine.
- Advanced RLD design maintains integrity of the resistance profile.
- RLD positions are 10° apart with start and end phased by 5° for maximum protection.

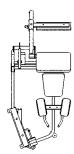
Seated Leg Curl - Product No. 4628, 4627, 4626

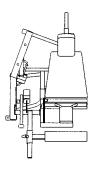
Machine Weight	Weight Stack	Size
507 lbs.	205 lbs.	inches = 39 W x 70 L x 61 H
230 kg	93 kg	cm = 99 W x 178 L x 155 H

- Seat back and tibia pad adjusts without affecting knee alignment of start position angle.
- Advanced RLD design maintains integrity of the resistance profile.
- RLD positions are 10° apart with start and end phased by 5° for maximum protection.









Hip Adduction - Product No. 4640

Machine Weight	Weight Stack	Size
420 lbs.	205 lbs.	inches = 28 W x 53 L x 55 H
191 kg	93 kg	cm = 71 W x 135 L x 140 H

• Leg support accomplished with kneepads and dual footrests to eliminate unwanted torque around the knee.

• Weight stack positioned in front of user to act as a privacy shield.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Hip Abduction - Product No. 4645

Machine Weight	Weight Stack	Size
420 lbs.	205 lbs.	inches = 28 W x 53 L x 55 H
191 kg	93 kg	cm = 71 W x 135 L x 140 H

• Leg support accomplished with kneepads and dual footrests to eliminate unwanted torque around the knee.

• Weight stack positioned in front of user to act as a privacy shield.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Rotary Calf - Product No. 4620

Machine Weight	Weight Stack	Size
683 lbs.	405 lbs.	inches = 43 W x 59 L x 61 H
310 kg	184 kg	cm = 110 W x 150 L x 155 H

• Footplate rotates through a natural arc keeping the foot in contact with the plate eliminating need to roll the foot over the edge of the plate.

• A seated variable resistance exercise that eliminates the spinal compression found in the traditional standing units.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Dual-Axis Chest Press - Product No. 4507

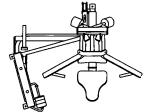
Machine Weight	Weight Stack	Size
611 lbs.	305 lbs.	inches = 56 W x 46 L x 76 H
278 kg	139 kg	cm = 143 W x 117 L x 193 H

• Overhead pivot provides a more natural pattern when compared to lower pivoting units.

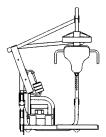
• Adjustable starting position allows appropriate range and improves safety.

• Dual Axis Technology[®] provides an innovative "user-defined" motion that allows each user to determine their optimal path, also boosting the effective loading in the muscle.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.







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Single-Axis Chest Press - Product No. 4506

Machine Weight	Weight Stack	Size
559 lbs.	305 lbs.	inches = 56 W x 46 L x 76 H
254 kg	139 kg	cm = 143 W x 117 L x 193 H

• Overhead pivot provides a more natural pattern when compared to lower pivoting units.

• Adjustable starting position allows appropriate range and improves safety.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Dual-Axis Incline Press - Product No. 4512

Machine Weight	Weight Stack	Size
610 lbs.	305 lbs.	inches = 56 W x 51 L x 64 H
277 kg	139 kg	cm = 143 W x 130 L x 163 H

• The path of motion is comparable to a 30° incline.

• Overhead pivot geometry provides a more natural arc of motion.

• Dual Axis Technology[®] provides an innovative "user defined" motion that allows each user to determine their optimal path, also boosting the effective loading in the muscle.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Single-Axis Incline Press - Product No. 4511

Machine Weight	Weight Stack	Size
544 lbs.	305 lbs.	inches = 56 W x 51 L x 64 H
247 kg	139 kg	cm = 143 W x 130 L x 163 H

• The path of motion is comparable to a 30° incline.

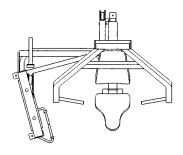
• Overhead pivot geometry provides a more natural arc of motion.

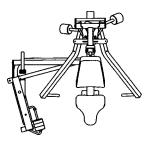
• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

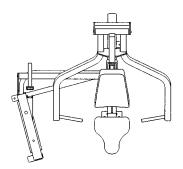
Dual-Axis Pulldown - Product No. 4515

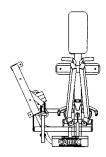
Machine Weight	Weight Stack	Size
630 lbs.	305 lbs.	inches = 39 W x 56 L x 76 H
286 kg	139 kg	cm = 99 W x 142 L x 193 H

- "Free float" handles encourage a user pull to the center rather than "behind the neck".
- Neutral handles allow a single-axis motion in the sagittal plane.
- Dual Axis Technology[®] provides an innovative "user defined" motion that allows each user to determine their optimal path, also boosting the effective loading in the muscle.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.









Dual-Axis Row/Rear Delt - Product No. 4520

Machine Weight	Weight Stack	Size
589 lbs.	305 lbs.	inches = 27 W x 62 L x 82 H
268 kg	139 kg	cm = 69 W x 158 L x 209 H

• Overhead pivot geometry provides a more natural arc of motion, compared to lower pivoting units.

• Dual Axis Technology[®] provides an innovative "user defined" motion that allows each user to determine their optimal path, also boosting the effective loading in the muscle.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Single-Axis Row/Rear Delt - Product No. 4521

Machine Weight	Weight Stack	Size
574 lbs.	305 lbs.	inches = 27 W x 62 L x 82 H
261 kg	139 kg	cm = 69 W x 158 L x 209 H

• Overhead pivot geometry provides a more natural arc of motion.

• "Traditional" pattern that benefits from superior biomechanical alignment and geometry.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Dual-Axis Overhead Press - Product No. 4527

Machine Weight	Weight Stack	Size
542 lbs.	205 lbs.	inches = 55 W x 62 L x 61 H
246 kg	93 kg	cm = 140 W x 158 L x 155 H

- Counterbalanced input arms allow deconditioned users to develop overhead lifting strength.
- Choice of grips includes a neutral position for individual preference and anatomical limitations.
- Dual Axis Technology[®] provides an innovative "user defined" motion that allows each user to determine their optimal path, also boosting the effective loading in the muscle.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

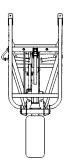
Single-Axis Overhead Press - Product No. 4526

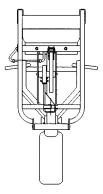
Machine Weight	Weight Stack	Size
519 lbs.	205 lbs.	inches = 55 W x 62 L x 61 H
236 kg	93 kg	cm = 140 W x 158 L x 155 H

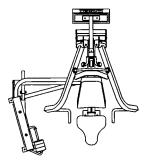
• Counterbalanced input arms allow deconditioned users to develop overhead lifting strength.

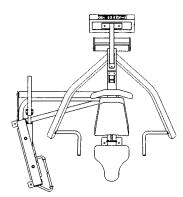
Choice of grips includes a neutral position for individual preference and anatomical limitations.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.









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Single-Axis Lat Pulldown - Product No. 4516

Machine Weight	Weight Stack	Size
614 lbs.	305 lbs.	inches = 53 W x 61 L x 76 H
279 kg	139 kg	cm = 135 W x 155 L x 193 H

• Open-style bar design encourages a user pull to the center rather than "behind the neck".

- Handles are angled for optimal position throughout the movement.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Fly - Product No. 4545

Machine Weight	Weight Stack	Size
473 lbs.	205 lbs.	inches = 53 W x 37 L x 55 H
215 kg	93 kg	cm = 135 W x 94 L x 140 H

- "Floating arm" design accommodates users of all sizes, eliminating the tendency of the pads to "roll" or "scoot" on the arm.
- "Virtual pivot" axis allows the handles to float into optimal position throughout the range of motion.
- Start range of motion adjustment eliminates the most hazardous characteristic of most fly machines, the danger of excessive stretch.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Lateral Raise - Product No. 4530

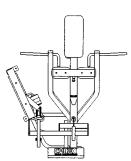
Machine Weight	Weight Stack	Size
439 lbs.	205 lbs.	inches = 40 W x 52 L x 67 H
199 kg	93 kg	cm = 101 W x 132 L x 170 H

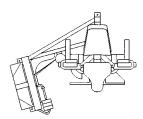
- Horizontal input arms allow the user to vary position for better alignment of the middle deltoid against the resistance.
- Elimination of the standard chest pad allows the user to lean forward for enhanced positioning.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

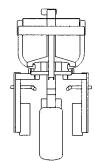
Arm Curl - Product No. 4535

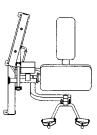
Machine Weight	Weight Stack	Size
410 lbs.	205 lbs.	inches = 38 W x 50 L x 55 H
186 kg	93 kg	cm = 97 H x 127 L x 140 H

- Rotating handles accommodate the user's ability to achieve supination relative to their goal and are angled slightly for proper wrist/grip alignment.
- The arm pad is angled for stability and the axis or pivot point is properly positioned to allow alignment of the elbow joint.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.









Arm Extension - Product No. 4540

Machine Weight	Weight Stack	Size
433 lbs.	205 lbs.	inches = 36 W x 51 L x 55 H
197 kg	93 kg	cm = 92 W x 130 L x 140 H

• The input arm automatically adjusts to accommodate varying forearm lengths and a neutral grip position allows full extension without shoulder rotation.

• The arm pad is angled for stability and the axis or pivot point is properly positioned to allow alignment of the elbow joint.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Ab Crunch - Product No. 4705

Machine Weight	Weight Stack	Size
407 lbs.	205 lbs.	inches = 42 W x 42 L x 55 H
185 kg	93 kg	cm = 107 W x 107 L x 140 H

 Pivot point posterior to the spine creates a downward arc of motion matching spinal flexion, creating an improved path for abdominal isolation.

• ROM adjustment via seat height manipulation with fine-tuning made possible by moving back of forward slightly in the seat.

• Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

Back Extension - Product No. 4713, 4712, 4711

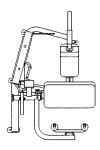
Machine Weight	Weight Stack	Size
606 lbs.	305 lbs.	inches = 41 W x 50 L x 61 H
275 kg	139 kg	cm = 105 W x 127 L x 155 H

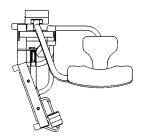
- Provides exceptional alignment and comfort for users of all sizes promoting coordinated function of hip and lower back muscle consistent with proper lifting technique.
- Advanced RLD design maintains integrity of the resistance profile.
- RLD positions are 10° apart with start and end phased by 5° for maximum protection.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.

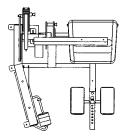
Torso Rotation - Product No. 4715

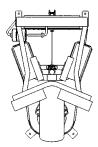
Machine Weight	Weight Stack	Size
462 lbs.	205 lbs.	inches = 28 W x 43 L x 67 H
211 kg	93 kg	cm = 72 W x 110 L x 171 H

- Innovative design that applies resistance securely through the lower body for efficiency.
- Upper torso assists with stabilization while eliminating the possibility of dizziness by keeping the head stationary.
- "Slackless" drive mechanism for immediate resistance.
- Sliding 5-LB increment weights allow the user to fine-tune resistance levels.









Technical Specifications Page 1-9 This page intentionally left blank

Technical Specifications Page 1-10

General

Like any sport, strength training involves an element of risk. The following recommendations will help to ensure that training is as productive and safe as possible.

Prior to embarking on any strength training program, it is recommended that each user consult with a physician.

All training sessions should be supervised by trained personnel.

Be sure all warning labels are read and understood by each user.

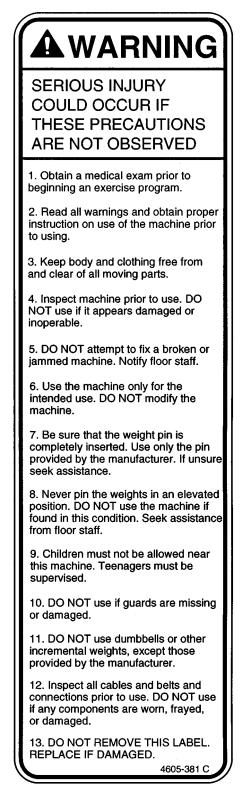
It is very important that all users be instructed on the proper use of CYBEX Strength Systems products. Pay close attention to the following:

- Set up and alignment for each individual entry and exit from the unit
- Proper form
- Use of seat belts, safety catches and other safety features

To minimize the chance of injury:

- Do not lean on the weight stack or other moving parts
- Keep clear of safety catches, belts and pulleys
- Have a spotter present
- Exercise within physical capabilities and anatomical limitations
- Do not exceed any exercise or movement restrictions prescribed by a doctor, therapist or trainer. This is particularly important for those at risk due to:
- -- Known heart disease
- -- Known hypertension
- -- Obesity

Instruct all users to report any equipment irregularity or personal injury to supervisory personnel immediately.





Abduction - movement away from the mid-line of the body.

Acceleration - the rate at which an object's velocity changes with time; that is the change of velocity divided by the time interval.

Accuracy - freedom from error. Degree of conformity of a measure to a standard or a true value.

Action Line - the direction of pull created by the fibers or tendon of a muscle at the point of application.

Active Insufficiency - a two joint muscle loses the ability to cross-bridge (generate force) due to full shortening over its greatest anatomical length and tension created in an opposing muscle (antagonist).

Active Range of Motion - the degree of motion that occurs between two adjacent segments through voluntary contraction of the agonist (prime mover).

Active Stabilization - provided by an internal force. *Static* stabilization is provided through an isometric contraction where dynamic stabilization is a series of motions. *Dynamic* stabilizers maintain the relative positions of the segments, preventing undesirable or unnecessary motions due to external forces as well as artifacts of internal forces. May also refer to the concentric/eccentric contractions of a muscle acting in a force couple to produce motion while maintaining a relatively fixed axis of rotation.

Adipose Tissue - fat tissue.

Adduction - movement towards the mid-line of the body.

Agonist - (prime mover) a muscle that is mechanically optimal to produce a specific motion at a joint. There typically is more than one agonist for a peticular motion. A specific muscle can be an agonist for more than one motion at a joint.

Aerobic - with or in the presence of oxygen oxygen.

Aerobic Endurance - the ability to persist in physical activities that rely heavily upon oxygen for energy production.

Anabolic - pertaining to the synthesis of complex substances from simpler substances, especially to the synthesis of body proteins from amino acids.

Anaerobic - without oxygen.

Anaerobic Endurance - the ability to persist in physical activities of short duration that require high rates of energy expenditure. These high rates of energy expenditure cannot be met solely by aerobic metabolism.

Anthropometrics - measurements and relationships of length and girth of body parts.

Antagonist- the muscle in opposition to the agonist.

Anatomical Position - standing erect, with feet and palms facing forward.

Anatomical Pulley - a bone or skeletal prominence that alters the direction of the pull of a muscle to increase the muscle's mechanical advantage.

Anatomy - geography, naming by orientation and/or apparent capability (non-functional).

Anchor Points - the points at which a load enters and exits the body and/or limb.

Anterior - anatomical term meaning towards the front. Same as ventral.

Assistant Mover - a muscle that is less effective at performing a specified motion, but does have a small degree of mechanical ability to help the prime mover. There are many borderline cases.

Atrophy - reduction in size of cells and tissues.

Axis of Rotation - imaginary line or point which an object rotates.

Bilateral - refers to both sides.

Biolocomotion - a perspective/description of the human body and its mechanics based upon locomotion. All animals with legs (regardless of numbers) move with the same mechanics. Gravity is the common denominator.

Biomechanics - the study of motion and the effect of forces on biological systems. In resistance training it is the analysis of the load placed on a joint by both the muscle and resistance. Anatomy, Kinesiology, and Physics = Engineering.

Body Composition - the component parts of the body - mainly fat and fat-free weight (lean body mass).

Calorie - a unit of work or energy equal to the amount of heat required to raise the temperature of 1 g of water to 1 degree C.

Cam - a mechanical device used to vary leverage. Based on the fact that a muscles mechanical advantage changes as it moves through a range of motion.

Carbohydrate - a chemical compound consisting of carbon, hydrogen and oxygen atoms in specified arrangements. Carbohydrates are the chief source of energy for all body functions and anaerobic muscular exertion; they are major components of food such as bread, potatoes and rice.

Cardiovascular - pertaining to the heart and blood vessels.

Cartilage - there are several types. *Hyaline* cartilage is a relatively thin covering on the ends of many bones. It forms a smooth, resilient, low friction surface for the movement of one bone on another. Wedges of cartilage (fibrocartilage) called *menisci, disks* and *labrums* function to increase stability, provide shock absorption, and to facilitate motion in some joints.

Center of Gravity - the center of a body's mass. In the human body, it is the point which all parts are in balance with one another. It is dependent on current position in space, anatomical structure, gender, habitual standing posture and if external objects are being held.

Circumduction - a circular movement permitted at ball and socket, condylar and saddle joints. Consists of flexion, abduction, extension and adduction in sequence.

Circuit Training - a type of conditioning program in which exercises are performed in sequence, with little or no rest inbetween stations.

Closed Kinetic Chain Exercise - a series of rigid links interconnected by a series of pin-centered joints. These are constructed so that motion at one joint will produce motion at all the joints in the system. Closed-chain exercises produce greater mechanical efficiency at the risk of increased joint loading. Example, leg press, bench press.

Close-Packed Position - all synovial joints have a position where joint surfaces are maximally congruent and the ligaments and capsule are maximally taut. This is a position of maximal stability and decreased mobility.

Collagen - a fibrous protein that serves as the major component of ligaments and tendons.

Compression - two forces acting along the same line towards each other that constitute a compressive load or compressive stress.

Concentric action - contraction of a muscle resulting in shortening of the muscle. *Positive* work is performed.

Connective Tissue - comprised of mostly the proteins collagen and elastin with water; includes tendons, ligaments, bursae, cartilage, disks, menisci, fascia and bone.

Cross-Bridge - the connection and intertwining of the actin and myosin filaments in a myofibril relative to a muscular contraction.

Curvilinear Motion - the frequently occurring combination of rotatory and translatory motions.

Distraction - two forces acting along the same line and in opposite directions, they constitute a distractive, tensile load or tensile stress.

Diathrodial Joint - ball and socket joint.

Distal - furthest from the attached end of the limb; away from the body.

Dorsal - pertaining to the back; opposite of ventral, palmar or plantar.

Dorsiflexion - movement of the foot up in the sagittal plane; movement toward the leg.

Eccentric Action - muscle action in which tension is developed in the muscle while it is lengthening. *Negative* work is performed.

Endurance - the ability to persist in performing some physical activity.

Energy - the capacity to perform work.

Energy (Kinetic) - energy associated with motion.

Energy (Potential) - energy by virtue of position.

Energy System - one of three metabolic systems involving a series of chemical reactions resulting in the formation of waste products and the manufacture of ATP.

Eversion - movement of the sole of the foot outward; opposite of inversion.

Extension - movement about a joint in which bones on either side of the joint are brought away from each other, bringing two parts into or towards a straight line, increasing the angle of the joint. Returning to anatomical position from a position of flexion in the sagittal plane.

External Force - a push or pull on the body that arises from a source outside the body.

External Rotation - movement of the anterior surface of a segment away from the mid-line; also termed lateral rotation.

Fast Twitch Fibers - skeletal muscle fibers most active in short-duration, intensive exercise, e.g., in sprints and jumps.

Fatigue - the inability to maintain a given level of physical performance.

Flexibility - the range of movement of a specific joint or group of joints, influenced by the associated bones and bony structures, muscles, tendons and ligaments.

Flexion - movement about a joint in which bones on either side of the joint are brought closer together, decreasing the angle of the joint. Joint movement away from anatomical position, occurring within the sagittal plane.

Foot-Pound - the work required to move one pound of resistance one foot in distance.

Force - an interaction between two objects, in the form of a push or pull, that may or may not produce motion, Force = mass x acceleration.

Force Angle - (FA) the angle between the action line and the lever, on the side of the joint axis. It is *not* directly related to the joint angle and changes as the muscle's relationship to the bone changes during motion

Force Couple - concentric/eccentric contractions of opposing muscles acting to produce motion while maintaining a relatively fixed axis of rotation. A prime example occurs in the shoulder, where the deltoid and rotator cuff muscles' divergent pull create an *almost* perfect spinning of the humeral head around a fixed axis of rotation.

Frontal Plane - (coronal) imaginary line that divides the body into anterior and posterior halves; lies at a right angle to the sagittal plane.

Fulcrum - the support on which a lever rotates in moving or lifting.

Hyperextension - continuation of the movement of extension past the neutral position.

Hypertension - a chronic elevation of arterial blood pressure which is a primary risk factor for coronary artery disease and stroke.

Hypertrophy - increased cell size leading to increased tissue size.

Impulse - the *change in* momentum. This becomes a concern in weight training, due to the possible negative effects associated with it.

Inertia - the tendency of a body to remain at rest or continue in uniform motion unless acted on by an unbalanced force. Represents Newton's first law, the law of inertia.

Inferior - a lower position upon or within the body.

Insertion - the more distal attachment site of a muscle. The movable part or attachment of a muscle as opposed to origin.

Intermittent Work - work sessions interrupted by rest sessions.

Internal Forces - act on the body and arise from sources within the human body.

Inversion - moving the sole of the foot inward. Opposite of eversion.

Isokinetic Contraction - a muscular contraction through a range of motion at a constant velocity. The rate of movement is maintained at a constant velocity through a specific range of motion even though maximal force is exerted.

Isometric (Static) Contraction - a muscular contraction in which tension is produced but there is no change in the angle of the involved joint(s) involved.

Isotonic Contraction - a muscular contraction in which a constant resistance is moved through a range of motion of the involved joint(s). Movement in this type of contraction typically involves both a concentric and an eccentric contraction.

Joint Play - "slack" in the connective tissues surrounding the joint that is required to allow normal joint motion.

Kilocalorie - a unit of work or energy equal to the amount of heat required to raise the temperature of 1 kg of water 1 degree C.

Kinematics - area of study that examines the spatial and temporal components of motion (position, velocity and acceleration).

Kinesiology - The scientific study of human movement.

Kinetic energy - energy associated with motion.

Kinetics - area of study that examines the forces that act on a system.

Kyphosis - neutral/normal sagittal curvature of the thoracic spine. Excessive kyphosis is often accompanied by rounded shoulders.

Lactic Acid (Lactate) - the temporary end-product of anaerobic glucose metabolism (glycolysis).

Lean Body Mass - body weight minus body fat; composed of muscle, bone and other non-fat tissue.

Lever - a rigid bar that rotates around a fixed support (fulcrum) in response to an applied force.

Lever Systems - a force system existing whenever two or more parallel forces, whose actions lines will never converge, act on the same object but at some distance from each other. The three classifications are *first, second* and *third* class levers.

Ligament - a band of fibrous connective tissue that binds bone to bone; functions to maintain integrity of a joint.

Lordosis - neutral/normal forward curvature of the lumbar and cervical spine.

Luxation - complete joint dislocation.

Mass - the amount of matter an object contains, or the number of atoms. Unlike weight, an objects mass is constant, despite the value of gravitational acceleration. Mass is a determiner of an object's inertia.

Mechanical Efficiency - greater mechanical efficiency, relative to resistance training, means less muscular force is required to move a load and therefore greater stress is transferred through the skeletal system. The *value* of the system utilized becomes dependent upon the *goal*.

Medial Rotation - movement around an axis and toward the mid-line of the body. Also termed internal rotation.

Medial - aspect nearest the mid-line of the body; pertaining to the center. Opposite of lateral.

Metabolism - the sum total of the energy-producing and -absorbing processes in the body. The energy used by the body.

Moment Arm - (MA) the shortest distance between the action line and the joint axis.

Momentum - the product of the mass of a body and its velocity. It will remain constant (it is "conserved") unless the object is acted upon by another force.

Muscle Contraction - shortening of a muscle and/or development of tension in a muscle.

Muscular Endurance - the ability of a muscle or muscle group to perform repeated contractions against a load for an extended period of time.

Neutral - a point between the two extremes of a joint's range of motion.

Obesity - the clinical classification of a percent body fat greater than 25% (males) or 30% (females).

Open Kinematic Chain - the ends of the limbs or parts are free to move without causing motion at another joint. Open chain motions are not predictable because the joints may function either independently or in unison. Less mechanically efficient, therefore more stress is placed upon muscular tissue. Examples, dumbbell presses and curls.

Origin - attachment of a muscle that remains relatively fixed during muscular contraction.

Overload - stressing the body or parts against resistance greater than that which is normally encountered. The resistance (load) can be maximal or near-maximal.

Passive Insufficiency - the point at which a two-joint muscle loses the ability to cross-bridge (generate force) due to full lengthening over its greatest anatomical length due to force created in an opposing muscle.

Passive Stabilization - a type of stabilization that is due to non-contractile components. This can be accomplished *internally* by connective tissue (in situations of non-muscular support); or through *external* structures such as a bench or brace.

Plane of Motion - a two-dimensional flat surface running through an object. Motion occurs in the plane or parallel to the plane.

Plantar - anatomical term referring to the sole or bottom.

Plantarflexion - movement of the foot down in the sagittal plane; movement away from the leg.

Posterior - anatomical term meaning toward the back. Opposite of anterior.

Potential Energy - energy by virtue of position.

Power - the product of *work* divided by time. It is the *time* required to move a *distance* that was produced by the *force*.

Prime Mover - (agonist) a muscle that is mechanically optimal to produce a specific motion at a joint. There can be more than one prime mover for a particular motion, and a specific muscle can be a prime mover for more than one motion at a joint.

Progressive Resistance - overloading a muscle or muscle group consistently throughout the duration of a weight-resistance program.

Pronation - a triplanar motion at the subtalar joint consisting of abduction, depression and eversion, resulting in lowering of the longitudinal arch of the foot. Position of the forearm with the palm facing down.

Protein - an essential nutrient made up of amino acids. The building block for tissues.

Proximal - towards the attached end of the limb or origin.

Range of Motion (ROM) - the amount of motion available to a joint (measured in degrees) within the anatomical limits of the joint structure. Limits to range of motion also include physiological, biomechanical, and neural. ROM can be classified as *Passive* (movement produced via a force outside the limb), *Active* (movement produced by muscles within the limb) or *Resisted* (movement challenged under additional load).

Reciprocal Inhibition - contraction of agonist causes relaxation of antagonist.

Repetition Maximum (RM) - the maximum load that a muscle or muscle group can lift for given number of repetitions before fatiguing. Example, an eight-RM load is the maximum load that can be lifted eight times.

Rotary Motion - (radial or angular) the movement of an object around a fixed axis in a curved path.

S.A.I.D. Principle - Specific Adaptation to Imposed Demand. A muscle will gain strength in the specific ranges of motion and speeds in which it is trained.

Sagittal Plane - Imaginary line that divides the body, or any of its parts, into right and left sections.

Scoliosis - a lateral curvature of the vertebral column, usually in the thoracic area.

Secondary Joint - hinge joints that have a singular function (elbow/knee). Muscles are situated on either side of these joints in virtual, if not real, pairings.

Set - in an interval training program, a group of work and relief intervals. In weight lifting, the number of repetitions performed consecutively without resting.

Shear - two parallel forces applied in opposite directions that are not in line with each other constitute a shearing load or stress within the object to which they are applied. Normal joint motion is always associated with some degree of shearing stress due to normal muscular action against resistance (weight of the limb, etc).

Shunt Muscle - directs the greater part of its contractile force along the bone it is moving (creating greater force towards compression/stabilization). Example, the brachioradialis muscle of the forearm is a shunt during an arm curl.

Skeletal Muscle - muscle controlling skeletal movement that is normally under voluntary control.

Sliding Filament Theory - a muscle shortens or lengthens due to the thick and thin myofibrils sliding past one another without the filaments changing length.

Slow-twitch Fibers - skeletal muscle fibers characterized by relatively slow contractile speeds and great capacity for the aerobic production of adenosine triphosphate (ATP).

Sprain - the permanent deformation of the structure due to excessive or prolonged stress/strain.

Spurt Muscle - directs the greater part of its force across the bone it is moving rather than along it (creating greater effort towards motion). Example, the biceps is a spurt during an arm curl.

Stabilizer - a muscle that steadies or supports an adjacent joint in order for another active muscle to have a firm base upon which to pull. A muscle may be a stabilizer for one motion, and a prime mover (agonist) for another motion.

Static Contraction - a muscular contraction that does not involve changes in the angle of the joint(s) involved.

Steady State - that state of physiological stability wherein the energy demands of the body can be met relatively easily for a prolonged period of time.

Strain - the deformation of the structure as the result of stress.

Strength - the ability to exert muscular force briefly.

Stress - the force created within a structure when placed under load.

Subluxation - a partial dislocation of a joint; usually reduces itself.

Submaximal Exercise - exercise at less than maximal intensity, may also refer to exercise of less than maximal duration.

Superior - a higher position upon or within the body.

Synergist - occurs during the action of two muscles, both of which have a common joint action and each of which has a second action that is antagonistic or opposing to the other. True synergy is simply the stabilization of one muscle to prevent any action in one of the joints traversed by a multi-joint muscle.

Synovial Fluid - a transparent, viscous lubricating fluid found in joint cavities, bursae and tendon sheaths.

Tendons - cords of dense fibrous tissue that connect muscle to bone.

Tertiary Joint - a complex joint structure (wrist/ankle-subtalor), designed for finely controlled movements.

Torque - the ability of a force to produce movement around an axis.

Translatory Motion - (linear) the movement of an object in a straight line.

Unilateral - refers to only one side.

Vector - typically represented by a drawn arrow, representing a force's point of application, action line or direction indicating pull or magnitude of force being exerted.

Vector Shift - a manipulation of the force or loadline through the chain by altering the position of the anchors relative to the joints or vice versa.

Velocity - the rate at which an objects position changes with time; that is the total change in position divided by the total change in time: V-d/t.

Weight - a unit of heaviness which is the product of the mass of an object and the gravitational force exerted on it by the earth. W=mg, where g = gravitational acceleration.

Work - W = Fd. The amount of work performed is equivalent to the force applied to an object times the distance the object is moved.

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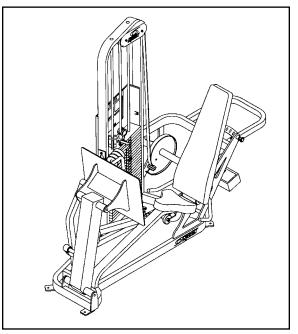
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Seated Leg Press

The Machine

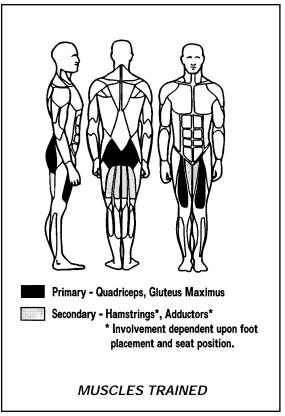
- Arc of Motion The machine pivots from below creating an arc congruent with the functional movement of the legs. This also decreases the detrimental forces on the knee by maintaining an optimum knee/foot relationship throughout the range of motion. A leg press that pivots from above or that moves in a linear path is inconsistent with the natural arc of motion and creates excessive forces within the knee during flexion.
- Accommodating Footplate The movement of the footplate eliminates excessive motion at the ankle and maintains a near neutral position, decreasing undue forces throughout the lower extremity.



- Range of Motion Adjustment The starting position and range of motion limit are both adjusted from a control pin below the legs. Adjustment is accomplished through the near effortless movement of the footplate. By moving the footplate rather than the seat the legs are always traveling through the appropriate arc of motion with the appropriate resistance.
- Seat Angle Adjustment The back of the seat adjusts to vary the hip position and motion. Five positions are available in five degree increments. The position of the seat is comfort and goal dependent.
- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.
- **10 to 505 Pounds by Fives** The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 505 pounds in five pound increments.

Closed Kinematic Chain Leg Extension

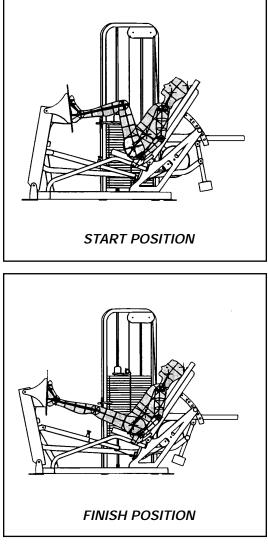
- Hip/Knee Extension The quadriceps are responsible for extension of the knee joint. The gluteus maximus and hamstring are responsible for hip extension. The hip-knee relationship in closed kinematic chain extension represents an indirect proportion. An increase in hip motion will increase hip extensor work and proportionally decrease knee extensor work, and vice versa.
- Knee Tracking Functioning as a hinge, it is imperative that the knee be directed toward the toes when eccentrically flexing or concentrically extending during closed chain movements. Exactly which toe(s) the knee is to be directed towards is dependent upon the anatomical structure of the user. It is commonly suggested that the knee track between the big and second toes. However, if a marked Q-angle is noted, tracking is recommended more toward the fifth (little) toe. Comfort is also a factor in the decision. Ultimately, once the proper tracking has been determined, it must be monitored and maintained throughout each repetition.



- **Range of Motion** The range of motion is limited by spinal alignment during eccentric flexion and at full knee extension concentrically. Hyperextension of the knee is to be avoided in closed chain leg work.
- Associated Muscles Hip adductor involvement varies with foot placement. As the feet are placed wider and the knees track accordingly, hip adduction is increased.

The Positioning

- Adjust the back pad to comfort or goal. Raising the pad will increase hip extensor work. Lowering the pad will decrease hip extensor work.
- Adjust the starting position (pull pin found below the legs) to allow approximately a 90 degree bend in the knee. The need for more or less knee flexion is determined by the users goal and limitations. The degree of knee bend must allow the pelvis/hips to remain firmly pressed against the back pad.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Position the feet approximately shoulder width with the toes and knees pointing slightly outward at the same angle.
- Position the shoulders and hips/pelvis against the back pad and maintain to eliminate spinal flexion.



The Motion

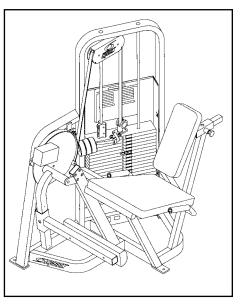
- Keeping the feet flat, tighten the legs, push through the heels and smoothly straighten the legs. Do not lock/hyperextend the knees.
- Slowly return to the starting position without resting.
- Maintain the hips/pelvis and shoulders against the back pad and the knees pointing toward the toes throughout each repetition.

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Leg Extension

The Machine

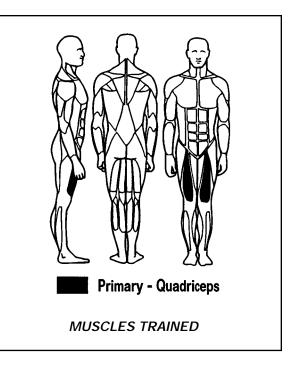
- Three Models The 4611 model provides standard (non-RLD) operation. The 4612 model contains an adjustable start position so that the ultimate degree of knee flexion at the start of the movement can be determined. The 4613 model provides both an adjustable start and an adjustable end position for total control of the user's range of motion.
- Range of Motion Limitation The range limiting device allows quick, easy adjustment of the start (4612, 4613) and end positions (4613) for those user's with limited hamstring flexibility or for rehab purposes. The RLD maintains the correct biomechanical relationship between the lever arm and the cam which is critical in maintaining the proper resistance variation through the chosen range.



- Axis Alignment The axis or pivot point of the machine is properly positioned to allow alignment with the knee joints.
- Back Pad The back pad is angled 100 degrees from the seat to allow for hamstring length.
- **Variable Resistance** The cam provides increased resistance at the point in the range where force output of the quadriceps is the greatest.
- **10 to 305 Pounds by Fives** The top plate provides a minimum weight of pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

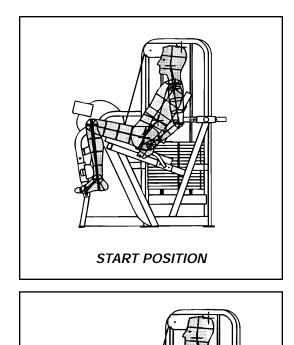
The Quadriceps

Knee Extension - The quadriceps are responsible for extension of the knee joint. Although the vastus medialis and vastus lateralis are pulling at slightly different angles on the patella, the knee joint functions as a hinge. Attempts at emphasizing either of these two muscles by altering knee alignment will have limited effect on the muscle and detrimental effects on the joint itself. It should be noted for alignment purposes that the axis of the knee joint is actually near the posterior aspect of the knee.



• Range of Motion - The normal range of motion is generally considered to be -10 to 135 degrees. Unless a restriction occurs or is prescribed, range of motion is limited only by the user's ability to control the quads concentrically into full extension and eccentrically into flexion. Full extension on the Leg Extension (an open chain exercise) does not place forces on the knee that furthers hyperextension, as is the case in a closed chain exercise. In full extension, the least compressive force is placed on the patella. As range of motion increases, the compressive forces on the patella increase. Ninety degrees (where patellar compression equals eight times the resistance applied) is often regarded as being the end of safely resisted extension, however, this remains an individual matter. Normal cruciate ligaments safely counter shearing forces developed in this exercise. The hamstring can be a limiting factor in achieving full knee extension if the hip is positioned at 90 degrees.

- Note the pivot point at the front right corner of the seat.
- Align the axis of the knees and adjust the back pad to maintain that position.
- Adjust the leg pad to comfort.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Position the thighs parallel to each other and relax the ankles.
- Grip the handles to remain firmly against the seat and maintain proper posture.

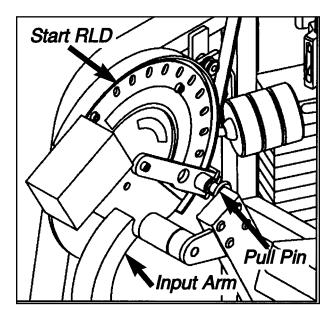


FINISH POSITION

The Motion

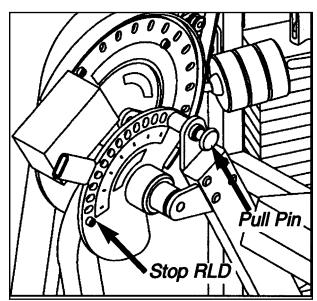
- Tighten the quadriceps and straighten the knees as far as possible. *NOTE: Do not kick.*
- On the first repetition further align the knees by rotating the thighs to position the patella directly on top/center of the knees. Maintain this position throughout each repetition.
- Return to the starting position without resting.

- Set Start Position
 - 1. Grasp pull pin (pullbutton) and pull.
 - 2. Move input arm to desired position.
 - 3. Lock pull pin into place.



• Set Stop (End) Position

- 1. Grasp pull pin (pullbutton) and pull.
- 2. Rotate stop to the desired end position.
- 3. Lock pull pin into place.

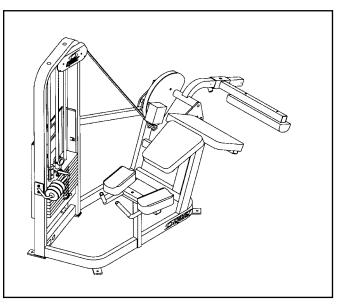


Prone Leg Curl

The Machine

- Three Models The 4616 model provides standard (non-RLD) operation. The 4617 model contains an adjustable start position so that the ultimate degree of knee flexion at the start of the movement can be determined. The 4618 model provides both an adjustable start and an adjustable end position for total control of the user's range of motion.
- Range of Motion Limitation The range limiting device allows quick, easy adjustment of the start (4617, 4618) and end positions (4618) for those user's with limited hamstring flexibility or for rehab purposes. The RLD maintains the correct biomechanical

relationship between the lever arm and the

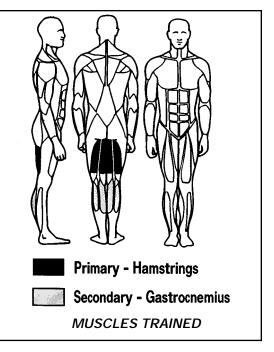


cam which is critical in maintaining the proper resistance variation through the chosen range.

- Axis Alignment The axis or pivot point of the machine is properly positioned to allow alignment with the knee joints.
- **Hip/Spinal Stabilization** The increased angles of the trunk and thigh pads encourages hip and spinal stabilization dramatically.
- **Cervical Alignment** The shortened trunk pad eliminates the cervical hyperextension and/or rotation encouraged by the longer trunk pad.
- **Variable Resistance** The cam provides increased resistance at the point in the range where force output of the hamstrings is the greatest.
- **10 to 205 Pounds by Fives** The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

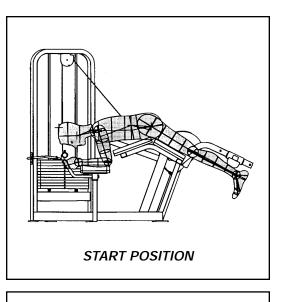
The Hamstring

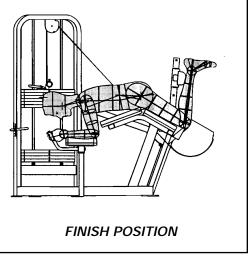
- Knee Flexion The hamstring group is responsible for flexion of the knee joint. The hamstrings also cross the hip joint and are responsible for hip extension. It should be noted that any movement of the hip joint during resisted knee flexion usually decreases the effectiveness of the exercise by allowing unrelated change in the hamstring's length.
- Range of Motion The normal range of motion is generally considered to be -10 to 135 degrees. The hamstring is limited by mechanical disadvantage near full extension (eccentric "lowering of the weight"). Due to the direction of resistance and the availability of hyperextension at the knee, it is advised to limit the eccentric movement just short of full extension. Flexion is only limited by concentric control.



Associated Muscles - The gastrocnemius is an assistant mover for knee flexion. It can be discouraged from use by attempting to completely relax the ankle muscles or by plantar flexing the ankle. Plantar flexion shortens the gastroc and as knee flexion occurs the muscle will achieve a condition of "active insufficiency". However, the fact that the gastroc is involved in plantar flexion can further its involvement through much of the knee motion. Dorsiflexion encourages gastroc contraction. The gracilis, sartorius and plantaris are also assistant movers for knee flexion.

- Adjust the leg pad comfortably behind the ankles.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Note the pivot point at the lower right corner of the thigh pad.
- Align the knees with the pivot point while lying prone on the machine. The top of the patella should be at the edge of the thigh pad.
- With the ankles against the leg pad, position the legs and feet parallel, ankles neutral and relaxed or plantar flexed.
- Grip the handles and rest the forearms on the arm pads.
- Stabilize the spine with the abdominals to prevent hyperextension.
- Tighten the hamstrings and *slightly* lift the knees.

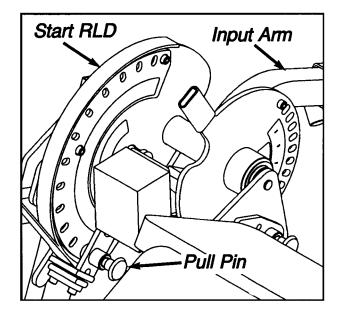




The Motion

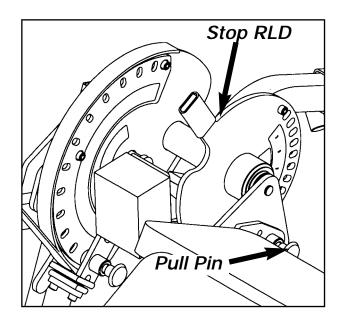
- Smoothly flex the knees as far as possible without raising the knees further, without elevating the hips, and without hyperextending the spine.
- Slowly return to a position near full extension and without resting or dropping the knees.

- Set Start Position
 - 1. Grasp pull pin (pullbutton) and pull.
 - 2. Move input arm to desired position.
 - 3. Lock pull pin into place.



• Set Stop (End) Position

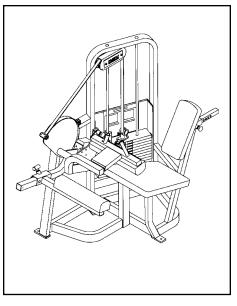
- 1. Grasp pull pin (pullbutton) and pull.
- 2. Rotate stop to the desired starting position.
- 3. Lock pull pin into place.



Seated Leg Curl

The Machine

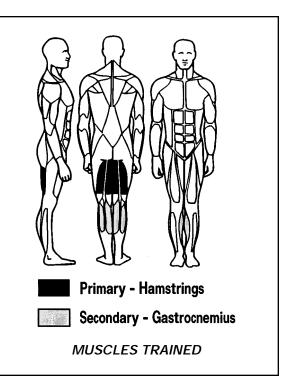
- Three Models The 4626 model provides standard (non-RLD) operation. The 4627 model contains an adjustable start position so that the ultimate degree of knee flexion at the start of the movement can be determined. The 4628 model provides both an adjustable start and an adjustable end position for total control of the user's range of motion.
- Range of Motion Limitation The range limiting device allows quick, easy adjustment of the start (4627, 4628) and end positions (4628) for those user's with limited hamstring flexibility or for rehab purposes. The RLD maintains the correct biomechanical relationship between the lever arm and the cam which is critical in maintaining the proper resistance variation through the chosen range.



- Seated Position The upright position allows a more comfortable positioning of the "body in space", positively affecting associated physiological factors such as positional hypertension and vestibular stimulation. The degree of hip flexion associated with the seated position is useful in strengthening the hamstring at its greatest length. This is often considered "position/length specific" for goals such as rehab and sport and is ideal for general fitness as well.
- Axial Alignment The axis or pivot point of the machine is properly positioned to allow alignment with the knee joints.
- Thigh Stabilization Femur stabilization is provided by a superiorly (top) positioned pad. This approach to stabilization is key to preventing elevation of the knee/thigh which is otherwise inevitable during the initial phase of each repetition. This pad is easily adjusted for the individual user's thigh thickness and axial alignment and also offers quick release for exiting the machine.
- **Variable Resistance** The cam provides increased resistance at the point in the range where force output of the hamstrings is the greatest.
- 10 to 205 Pounds by Fives The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

The Hamstring

- Knee Flexion The hamstring group is responsible for flexion of the knee joint. The hamstrings also cross the hip joint and are responsible for hip extension. Altering the stabilized position of the hip creates variety for resisted knee flexion exercises. It should be noted that any movement of the hip joint (loss of stabilization) that occurs during resisted knee flexion usually decreases the effectiveness of the exercise by allowing unresisted change in the hamstring's length.
- Range of Motion The normal range of knee motion is generally considered to be -10 to 135 degrees. The hamstring is limited by mechanical disadvantage near full extension (eccentric "lowering of the weight"). Due to the direction of resistance and the availability of hyperexten sion at the knee, it is advised to limit the



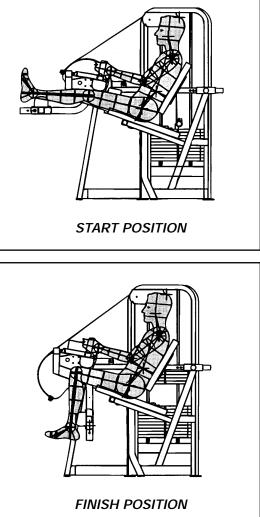
eccentric movement just short of full extension. Due to the position of hip flexion near 90 degrees, many users will not be able to achieve even this degree of extension eccentrically due to poor hamstring flexibility. Resisted knee flexion is limited only by concentric control.

 Associated Muscles - The gastrocnemius is an assistant mover for knee flexion. It can be discouraged from use by attempting to completely relax the ankle muscles or by planter flexing the ankle. Plantar flexion shortens the gastroc and as knee flexion occurs the muscle will achieve a condition of active insufficiency. However, the fact that the gastroc is involved in plantar flexion can further its involvement through much of the knee motion. Dorsiflexion encourages gastroc contraction. The gracilis, sartorius, and plantaris are also assistant movers for knee flexion.

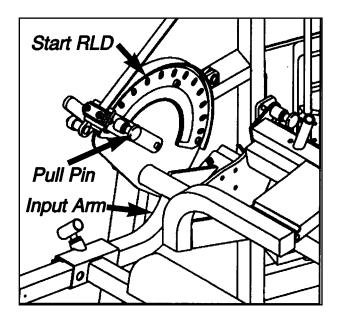
- Note the pivot point at the front right corner of the seat.
- Align the axis of the knees with the pivot point of the machine and adjust the back pad to support the body while maintaining this position.
- Adjust the leg pad to comfort behind the ankles.
- Check the weight to insure the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- · Be seated with the lower leg resting upon the pad.
- Lower the thigh stabilization pad across the quads snugly, making sure that knee axis is also aligned with the machine pivot vertically.
- If the knee does not fully extend while in this position of hip flexion, due to tight hamstrings or other complications, lowering the knee to align with the pivot point will not be possible or safe without adjusting the RLD to allow a start position of slight knee flexion.
- With the ankles against the leg pad, position the legs and feet parallel, ankles neutral and relaxed or slightly plantar flexed.
- Grip the handles on the thigh pad.
- Stabilize the spine with the abdominals to pelvic motion throughout the movement.

The Motion

- Tighten the hamstrings and smoothly flex the knees as far as possible without moving the pelvis/spine.
- Slowly return near the predetermined position of available extension without resting.
- To exit the machine pull the release button and raise the thigh pad.

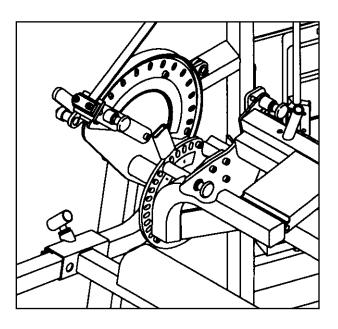


- Set Start Position
 - 1. Grasp pull pin (pullbutton) and pull.
 - 2. Move input arm to desired position.
 - 3. Lock pull pin into place.



• Set Stop (End) Position

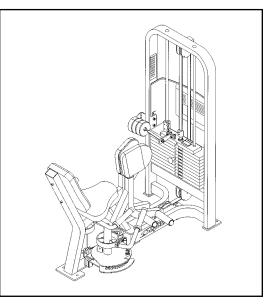
- 1. Grasp pull pin (pullbutton) and pull.
- 2. Rotate stop to the desired end position.
- 3. Lock pull pin into place.



Hip Adduction

The Machine

- Back Pad The back pad is angled to position the\ hips in 70 degrees of flexion creating both comfort and ease in introducing proper spinal alignment.
- Variable Resistance The cam provides increased resistance at the point in the range where force output of the involved musculature is the greatest.
- 10 to 205 Pounds by Fives The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

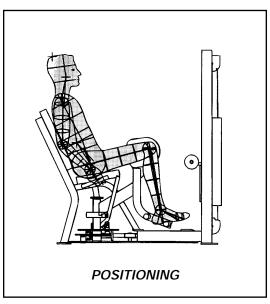


The Abductors

- Hip Adduction With The Hip Flexed The movers of a joint with three degrees of freedom, such as the hip, often change roles or actions depending upon the starting position of the joint. With the hip positioned in 70 degrees of flexion, the adductors magnus, brevis and longus, the gracilis and the pectineus continue to be strong adductors. The hamstrings are weaker associates in this role. The functions of the tensor fasciae latae and gluteus minimus are altered from abductors to adductors due to the degree of hip flexion. Conversely, the obturator internus and quadratus femoris diminish as adductors for the same reason.
- Primary Adductor Magnus, Adductor Brevis Adductor Longus, Pectineus and Gracilis
 Secondary - Tensor Fasciae Latae, Gluteus Minimus
 MUSCLES TRAINED
- Range of Motion Hip adduction is limited maxi mally at 90 degrees within the joint. This

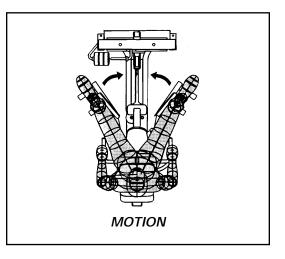
is often limited further during active or resisted adduction by muscular insufficiency or by meeting the other extremity at midline. The motion of adduction in a sealed position (hip flexed) may begin from a position of extreme abduction in trained individuals (120 - 180) but will commonly be limited to much less due to adductor length (passively and actively) or active insufficiency (resisted eccentrically).

- Use the lever found to the right of the seat to move the knee pads inward to increase ease of positioning.
- Sit on the machine with the feet positioned on the desired foot peg. Choose the peg that allows the thigh to be parallel to the floor.
- Move the knee pads outward to the desired start position. Use of the lever is not required for this adjustment.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grasp the handles lightly.



The Motion

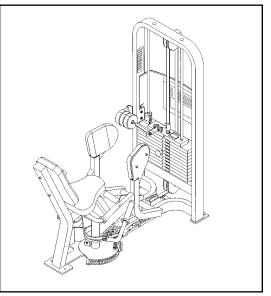
- Slowly move the knees toward the center.
- With a smooth controlled motion, slowly return toward the center without resting.
- To exit the machine return the weights to resting position and release the knee pads by pulling the release handle on your right.



Hip Abduction

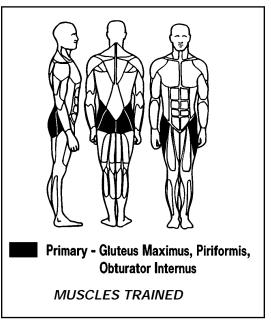
The Machine

- Back Pad The back pad is angled to position the hips in 70 degrees of flexion creating both comfort and ease in introducing proper spinal alignment.
- Variable Resistance The cam provides increased resistance at the point in the range where force output of the involved musculature is the greatest.
- 10 to 205 Pounds by Fives The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

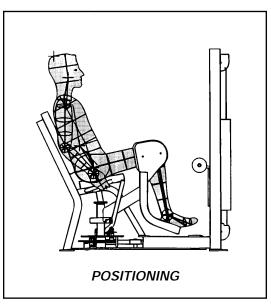


The Abductors

- Hip Abduction With The Hip Flexed The movers of a joint with three degrees of freedom, such as the hip, often change roles or actions depending upon the starting position of the joint. With the hip positioned in 70 degrees of flexion, the gluteus maximus, piriformis and obturator internus are the primary abductors.
- Range of Motion In the erect position "pure" hip abduction can be performed to 45 degrees on each side (90 degrees between the two extremities). However, when the hip is flexed all of the ligaments surrounding the joint are relaxed and additionally, skeletal limitation is eliminated. This may allow as much as 120 to 180 degrees of abduction in trained individuals.

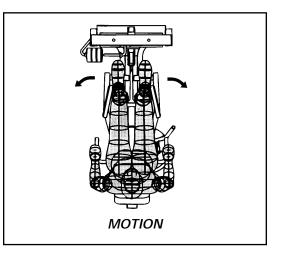


- Use the lever found to the right of the seat to move the knee pads wide enough to allow leg positioning.
- Sit on the machine with the feet positioned on the desired foot peg. Choose the peg that allows the thigh to be parallel to the floor.
- Push the knee pads inward to the desired start position. Use of the lever is not required for this adjustment.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grasp the handles lightly.



The Motion

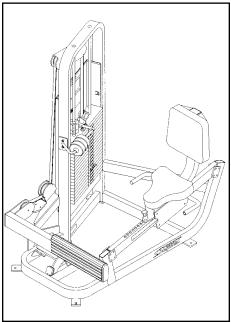
- Slowly move the knees apart through a comfortable range.
- With a smooth controlled motion, slowly return toward the center without resting.
- To exit the machine return the weights to resting position and release the knee pads by pulling the release handle on your right.



Rotary Calf

The Machine

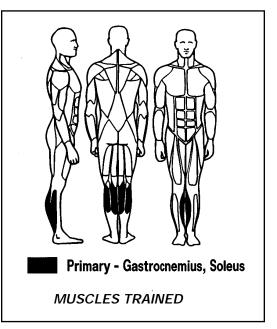
- Axis Alignment The Rotary Calf machine is designed to match the motion of the ankle joint by aligning the joint axis with a pivot point of the machine.
- Footplate The rotating footplate maintains full and constant contact with the toes and ball of the foot. This increases comfort through greater surface area for weight distribution and increases safety by eliminating the opportunity for the feet to slide off.
- Variable Resistance The machine provides maximum resistance at the beginning of the motion and appropriately decreases the resistance to allow full contraction at the end. No other calf machine varies the resistance throughout the range of motion, allowing each repetition to be completed with a full contraction.



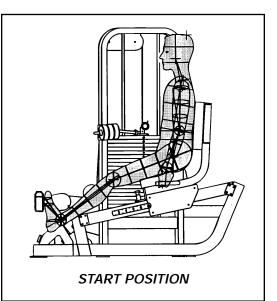
 10 to 405 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 405 pounds in five pound increments.

The Calves

- Ankle Plantar Flexion The gastrocnemius and the soleus are responsible for plantar flexion of the ankle joint.
- Range of Motion The ankle permits approximately 60 degrees of active motion. Much more motion is often available during passive movement under load. However, the range of motion during exercise should be limited by the user's ability to control the gastrocnemius and soleus concentrically in plantar flexion and eccentrically in dorsiflexion.
- Associated Muscles The planataris, peroneus longus and brevis, tibialis posterior, and the flexors of the toes assist with plantar flexion.

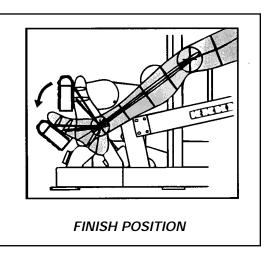


- Adjust the seat, in minor increments, to allow a slight bend or straight knee but not hyperextension.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Position the feet parallel at hip width with the ball of each foot securely on the plate (toes near the top of the footplate).



The Motion

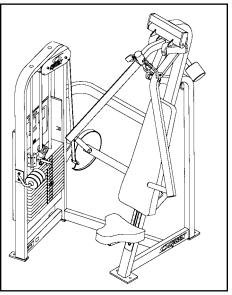
- Tighten the calf and press forward as far as possible without moving the knees.
- Return to the starting position without resting and without changing the knee position.
- For more stretch, move the seat forward. For more motion in plantar flexion, move the seat backward.



Chest Press - Dual Axis

The Machine

- Range of Motion Adjustment The dual-axis chest press eliminates the danger of excessive stretch by providing an adjustable starting position that, when preset to the individual user's structure/mechanics, also serves as a range of motion limit.
- Plane of Motion The handles are angled to allow optimum average wrist position throughout the movement. They are in a "barbell" or horizontal position to encourage motion in the horizontal plane as well as the optimal position of neutral shoulder rotation. Vertical or neutral handles are less effective for chest work as they encourage motion in the sagittal plane (shoulder flexion).



• User Defined Path of Motion - The width of the start position, the end position, as well as the path of travel between the two are entirely determined by the user.

The path chosen can be based upon the user's ability level, goal, fatigue, or structural limitations (as are often found in the shoulder joint). Options range from the traditional press to numerous other user friendly options including movement toward midline similar to dumbbell exercises. Although the dual-axis technology allows freedom within the proper plane of motion, unwanted motion outside of that plane is safely eliminated by the machine, allowing all effort to be directed toward the Pectoralis Major.

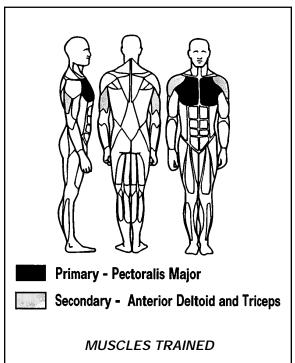
- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.
- **Two Directions of Resistance** The dual-axis technology not only provides resistance against the pressing movement (by pushing back against you) but it can also provide resistance against adduction (by pushing the hands apart) when the handles are moved inward from their resting position. By providing two directions of resistance within the plane of motion pec stimulation is increased and the triceps are de-emphasized.

NOTE: Less weight will be employed when the handles are moved inward due to the multiple directions of resistance and the increased muscular effort required of the pectoralis major.

 10 to 305 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

The Chest

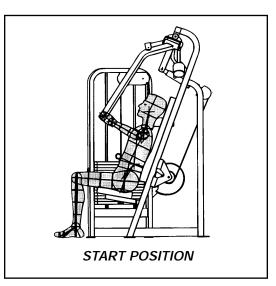
- Horizontal Adduction The pectoralis major is primarily responsible for horizontal adduction of the shoulder joint. The pec is also involved in flexion and extension of the shoulder joint, although the anterior deltoid and latissimus dorsi muscles, respectively, are mechanically more effective at performing those motions. The pec is involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other shoulder motions.
- Scapular Retraction The position of full scapular retraction, when maintained, creates the greatest possible force angles of the pec throughout the range of motion.
- Range of Motion With scapular retraction maintained, horizontal adduction is limited to

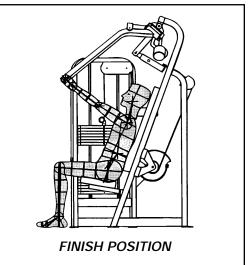


approximately 90 degrees (arm straight to the front) and horizontal abduction (achieved through the eccentric action "lowering of the weight") is limited by mechanical disadvantage at approximately 0 degrees (upper arm straight out from the shoulder), when pectoralis work is isolated as the goal.

 Associated Muscles - The anterior deltoid and coracobrachialis are also prime movers for the motion of horizontal adduction. However, by maintaining motion in the horizontal plane, scapular retraction, and limited horizontal abduction (limited stretch) the pectoralis major will be emphasized over the anterior deltoid. The triceps are always involved in pressing movements as elbow extension is required.

- Adjust the seat to allow the handles to align with the mid-chest. This allows movement through the horizontal plane of the shoulder.
- Adjust the starting position (pull pin found overhead) to allow the upper arm to be straight out to the side when the hands are positioned on the handles.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grip the handles and position the elbows out to the side, level with the handles.
- Fully retract the scapula and maintain on all movements for the chest.





The Motions

IMPORTANT NOTE: The dual-axis technology is most effective and most comfortable when the following cues are given. These brief instructions, when

properly given, improve the motor learning process, which is the key to the safe and effective performance of ANY exercise. After only a few repetitions of each with a light weight the movement will be mastered.

The Basic Press

• Press the handles forward with a smooth controlled motion and return slowly without resting, keeping the elbows level with the handles and shoulder blades pinched throughout each repetition.

The Adduction

- While in the fully pressed position with the arms straight, move the handles directly toward each other.
- Keeping the arms straight, slowly return the handles to the wide position without resting.

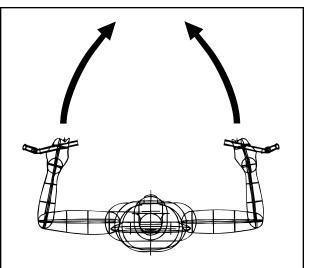
The Advanced Press

- From the wide start position press forward, simultaneously moving the handles toward each other, ending with the arms straight and handles together.
- Return to the wide starting position in a slow controlled manner without resting.

The Stabilization Press

• Before pressing, move the handles inward a few inches and maintain that width while pressing forward and during the return.

NOTE: Each of the above is a valuable exercise within itself and can be used alone or in combinations.



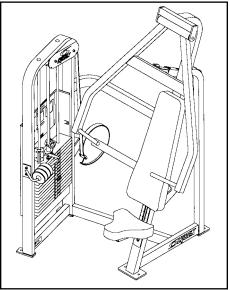
NOTE: The resistance level utilized for this Advanced Movement will be significantly less than that for the Basic Movement.

ADVANCED MOVEMENT

Chest Press - Single Axis

The Machine

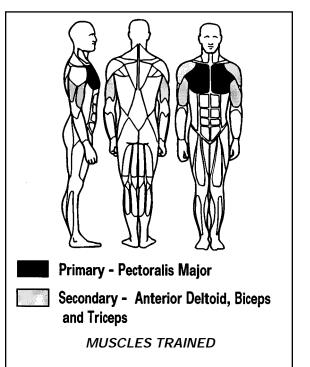
- Range of Motion Adjustment The chest press elimi nates the danger of excessive stretch by providing an adjustable starting position that, when pre-set to the individual user's structure/mechanics, also serves as a range of motion limit.
- Plane of Motion The handles are angled to allow optimum average wrist position throughout the movement. They are in a "barbell" or horizontal position to encourage motion in the horizontal plane as well as the optimal position of neutral shoulder rotation. Vertical or neutral handles are less effective for chest work as they encourage motion in the sagittal plane (shoulder flexion).
- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.



 10 to 305 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

The Chest

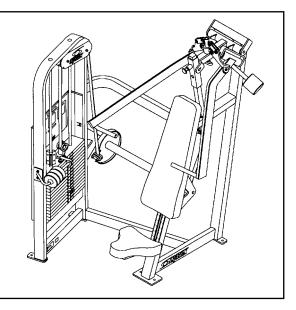
- Horizontal Adduction The pectoralis major is primarily responsible for horizontal adduction of the shoulder joint. The pec is also involved in flexion and extension of the shoulder joint, although the anterior deltoid and latissimus dorsi muscles, respectively, are mechanically more effective at performing those motions. The pec is involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other shoulder motions.
- Scapular Retraction The position of full scapular retraction, when maintained, creates the greatest possible force angles of the pec throughout the range of motion.



Incline Press - Dual Axis

The Machine

- Range of Motion Adjustment The dual-axis incline press eliminates the danger of excessive stretch by providing an adjustable starting position that, when preset to the individual user's structure/mechanics, also serves as a range of motion limit.
- Plane of Motion The handles move through a very slight arc angled approximately 30 degrees above the plane that lies perpendicular to the bench. (The handles are angled to allow optimum average wrist position throughout the movement.) They are in a "barbell" or horizontal position to encourage shoulder motion through the proper plane as well as the optimal position of neutral shoulder rotation. Vertical or neutral handles are inappropriate for pec



work as they encourage motion in the sagittal plane (shoulder flexion).

- User Defined Path of Motion The width of the start position, the end position, as well as
 the path of travel between the two are entirely determined by the user. The path chosen can
 be based upon the user's ability level, goal, fatigue, or structural limitations (as are often
 found in the shoulder joint). Options range from the traditional press to numerous other user
 friendly options including movement toward midline similar to dumbbell exercises.
 Although the dual-axis technology allows freedom within the proper plane of motion,
 unwanted motion outside of that plane is safely eliminated by the machine, allowing all
 effort to be directed toward the pectoralis major.
- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.
- **Two Directions of Resistance** The dual-axis technology not only provides resistance against the pressing movement (by pushing back against you) but it can also provide resistance against adduction (by pushing the hands apart) when the handles are moved inward from their resting position. By providing two directions of resistance within the plane of motion pec stimulation is increased and the triceps are de-emphasized.

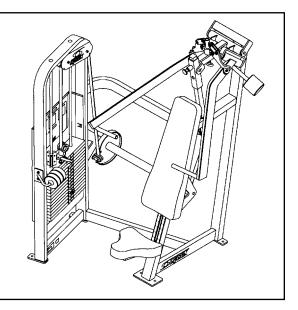
NOTE: Less weight will be employed when the handles are moved inward due to the multiple directions of resistance and the increased muscular effort required of the pectoralis major.

Incline Press - Dual Axis

The Machine

- Range of Motion Adjustment The dual-axis incline press eliminates the danger of excessive stretch by providing an adjustable starting position that, when preset to the individual user's structure/mechanics, also serves as a range of motion limit.
- Plane of Motion The handles move through a very slight arc angled approximately 30 degrees above the plane that lies perpendicular to the bench. (The handles are angled to allow optimum average wrist position throughout the movement.) They are in a "barbell" or horizontal position to encourage shoulder motion through the proper plane as well as the optimal position of neutral shoulder rotation. Vertical or

neutral handles are inappropriate for pec



work as they encourage motion in the sagittal plane (shoulder flexion).

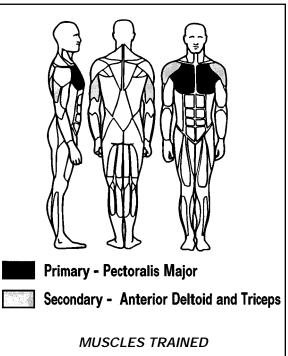
- User Defined Path of Motion The width of the start position, the end position, as well as
 the path of travel between the two are entirely determined by the user. The path chosen can
 be based upon the user's ability level, goal, fatigue, or structural limitations (as are often
 found in the shoulder joint). Options range from the traditional press to numerous other user
 friendly options including movement toward midline similar to dumbbell exercises.
 Although the dual-axis technology allows freedom within the proper plane of motion,
 unwanted motion outside of that plane is safely eliminated by the machine, allowing all
 effort to be directed toward the pectoralis major.
- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.
- **Two Directions of Resistance** The dual-axis technology not only provides resistance against the pressing movement (by pushing back against you) but it can also provide resistance against adduction (by pushing the hands apart) when the handles are moved inward from their resting position. By providing two directions of resistance within the plane of motion pec stimulation is increased and the triceps are de-emphasized.

NOTE: Less weight will be employed when the handles are moved inward due to the multiple directions of resistance and the increased muscular effort required of the pectoralis major.

 10 to 305 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

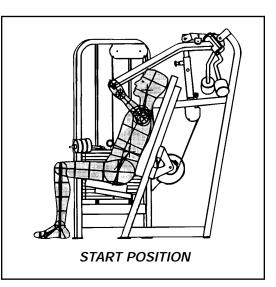
The Chest

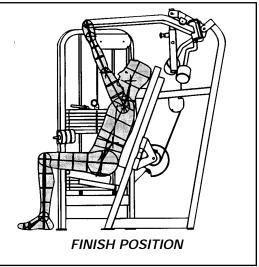
- Modified Plane Adduction The clavicular fibers, as well as the upper sternal fibers, of the pectoralis major are primarily responsible for adduction of the shoulder through a plane angled approximately 30 degrees above the horizontal plane of the shoulder joint. The pectoralis major is also involved in flexion and extension of the shoulder joint, although the anterior deltoid and latissimus dorsi muscles, respectively, are mechanically more effective at performing those motions. The pectoralis major is involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other shoulder motions.
- Scapular Retraction The position of full scapular retraction, when maintained, creates the greatest possible force angles of the pec throughout the range of motion.



- Range of Motion With scapular retraction maintained, horizontal adduction is limited to approximately 90 degrees (arm straight to the front) and horizontal abduction (achieved through the eccentric action "lowering of the weight") is limited by mechanical disadvantage at approximately 0 degrees (upper arm straight out from the shoulder), when pectoralis work is isolated as the goal.
- Associated Muscles The anterior deltoid and coracobrachialis are also prime movers for the motion of horizontal adduction. However, by maintaining motion in the horizontal plane, scapular retraction, and limited horizontal abduction (limited stretch) the pectoralis major will be emphasized over the anterior deltoid. The triceps are always involved in pressing movements as elbow extension is required.

- Adjust the seat to allow the handles to align with the upper chest. This allows movement through the proper plane.
- Adjust the starting position (pull pin found overhead) to allow the upper arm to be straight out to the side when the hands are positioned on the handles.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grip the handles and position the elbows out to the side, level with the handles.
- Fully retract the scapula and maintain on all movements for the chest.





The Motion

IMPORTANT NOTE: The dual-axis technology is most effective and most comfortable when the following cues are given. These brief instructions, when

properly given, improve the motor learning process, which is the key to the safe and effective performance of ANY exercise. After only a few repetitions of each with a light weight the movement will be mastered.

The Basic Press

• Press the handles forward with a smooth controlled motion and return slowly without resting, keeping the elbows level with the handles and shoulder blades pinched throughout each repetition.

The Adduction

- While in the fully pressed position with the arms straight, move the handles directly toward each other.
- Keeping the arms straight, slowly return the handles to the wide position without resting.

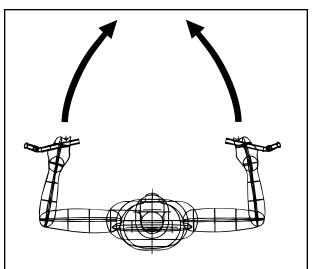
The Advanced Press

- From the wide start position press forward, simultaneously moving the handles toward each other, ending with the arms straight and handles together.
- Return to the wide starting position in a slow controlled manner without resting.

The Stabilization Press

• Before pressing, move the handles inward a few inches and maintain that width while pressing forward and during the return.

NOTE: Each of the above is a valuable exercise within itself and can be used alone or in combinations.



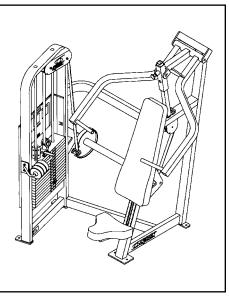
NOTE: The resistance level utilized for this Advanced Movement will be significantly less than that for the Basic Movement.

ADVANCED MOVEMENT

Incline Press - Single Axis

The Machine

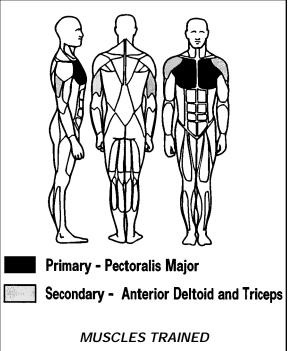
- Range of Motion Adjustment The incline press eliminates the danger of excessive stretch by providing an adjustable starting position that, when preset to the individual user's structure/mechanics, also serves as a range of motion limit.
- Plane of Motion The handles move through a very slight arc angled approximately 30 degrees above the plane that lies perpendicular to the bench (horizontal to the body). The handles are angled to allow optimum average wrist position throughout the movement. They are in a "barbell" or horizontal position to encourage shoulder motion through the proper plane as well as the optimal position of neutral shoulder rotation. Vertical or neutral handles are inappropriate for pec work as they encourage motionin the sagittal plane (shoulder flexion).



- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.
- 10 to 305 Pounds by Fives The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

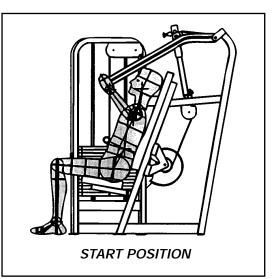
The Chest

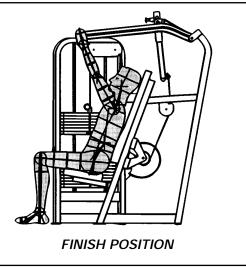
Angled Horizontal Plane Adduction - The clavicular fibers, as well as the upper sternal fibers, of the pectoralis major are primarily responsible for adduction of the shoulder through a plane angled approximately 30 degrees above the horizontal plane of the shoulder joint. The pectoralis major is also involved in flexion and extension of the shoulder joint, although the anterior deltoid and latissimus dorsi muscles, respectively, are mechanically more effective at performing those motions. The pectoralis major is involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other shoulder motions.



- Scapular Retraction The position of full scapular retraction, when maintained, creates the greatest possible force angles of the pec throughout the range of motion.
- Range of Motion With scapular retraction maintained, horizontal adduction is limited to approximately 90 degrees (arm straight to the front) and horizontal abduction (achieved through the eccentric action "lowering of the weight") is limited by mechanical disadvantage at approximately 0 degrees (upper arm straight out from the shoulder), when pectoralis work is isolated as the goal.
- Associated Muscles The anterior deltoid and coracobrachialis are also prime movers for the motion of horizontal adduction. However, by maintaining motion in the horizontal plane, scapular retraction, and limited horizontal abduction (limited stretch) the pectoralis major will be emphasized over the anterior deltoid. The triceps are always involved in pressing movements as elbow extension is required.

- Adjust the seat to allow the handles to align with the upper chest. This allows movement through the proper plane.
- Adjust the starting position (pull pin found overhead) to allow the upper arm to be straight out to the side when the hands are positioned on the handles.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grip the handles and position the elbows out to the side, level with the handles.
- Fully retract the scapula and maintain on all movements for the chest.





The Motion

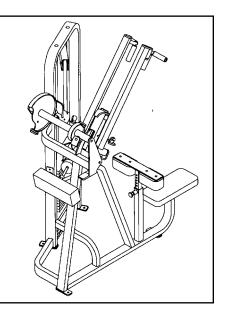
- Press the handles forward with a smooth controlled motion and return slowly without resting.
- Maintain the elbows level with the handles and shoulder blades pinched throughout each repetition.

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Pulldown - Dual Axis

The Machine

- Accommodating Grip The outer handles pivot to maintain proper wrist alignment throughout the motion of adduction.
- Plane of Motion The "straight bar"/outer handles allow *full* motion in the frontal plane (adduction). The parallel/narrow handles are specifically designed to allow motion in the sagittal plane (extension). Motion in the sagittal plane (narrow grip pulldown) is considered more functional and safer for the shoulder. The two individual handles allow the user to pull through the center of the body or through the front. The detrimental and minimally effective "behind the neck" position should be avoided by leaning back slightly.



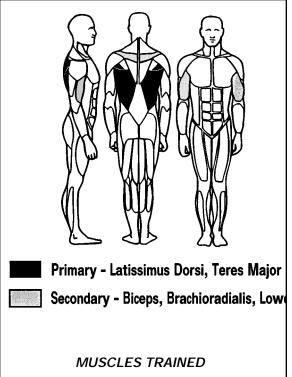
- Range of Motion The dual-axis technology allows a greater range of motion in the frontal plane (wide pulldown) than any other machine by allowing the user to start directly overhead and move outward, then down, then in toward the sides. The user also has the ability to perform a narrow grip pulldown of varying widths ranging from several inches to shoulder width.
- Variable Resistance The machine provides maximum resistance at the beginning of motion and appropriately decreases the resistance to allow full contraction at the end.
- **Two Directions of Resistance** The dual-axis technology functions in the wide grip pulldown to not only provide resistance against the downward movement (by pulling upward against you) but also to provide resistance against the outward motion at the top of the wide movement (by pushing the hands together). By providing two directions of resistance within the frontal plane latissimus stimulation is increased and the elbow flexors are de-emphasized.

NOTE: Less weight will be employed when the handles are moved outwards due to the multiple directions of resistance and the increased muscular effort required of the lats.

 10 to 305 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

The Latissimus Dorsi

- Extension/Adduction The latissimus dorsi is responsible for extension as well as adduction of the shoulder joint. The lat is also involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other motions. The teres major works alongside the upper fibers of the lat in adduction and extension. The combined positions of external rotation to 90 degrees and abduction to 90 degrees create the most compromising position for the shoulder joint.
- Range of Motion Full normal adduction or extension begins with the arm in a vertical position overhead at 180 degrees and ends with the arm at the side in 0 degrees. As the arm moves from overhead the direction of travel arcs outward (for adduction) or forward (for extension) away from the head, then down, and finally, inward toward the side. Full



concentric shortening of the lat can only occur when the associated scapular motion is per formed with shoulder motion. With motion and resistance from overhead, scapular depression is required. For the arm to return to the starting position overhead the eccentric action of the lat must be accompanied by the scapular rotation of scapulohumeral rhythm.

 Associated Muscles - The lower fibers of the trapezius are responsible for scapular depression. Slight retraction is always associated with scapular depression as the lower fibers of the trapezius angle downward and toward midline, attaching on the spine. The long head of the triceps is involved in shoulder extension and adduction, although change in its length is limited when elbow flexion coincides with shoulder motion. The biceps, brachioradialis, and brachialis are always involved in pulling movements as elbow flexion is required. The degree of their individual involvement depends upon radioulner joint position.

The Positioning

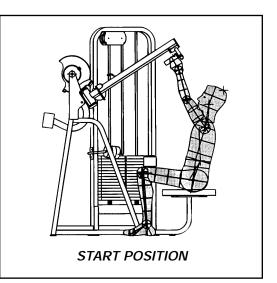
- Adjust the thigh pad to allow access and stabilize the body.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.

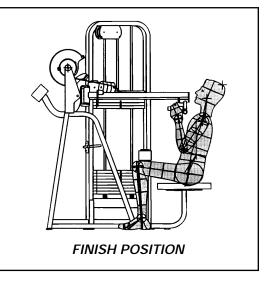
The Motions

The Narrow Pulldown

NOTE: This exercise is ideal for the beginner as well as being the safest (biomechanically correct), most functional, and optimally effective for the advanced user.

- Grip the narrow/parallel handles.
- Lean back slightly at the hips and maintain. Watch the handles to insure that they safely clear the head on the way down.
- Depress the scapula (pinch the shoulder blades down and back).
- While maintaining the scapular position, bring the handles toward the chest and arms down beside the body.
- Slowly return to the starting position overhead by allowing the scapula to move as needed, but without resting.
- Reset the scapula at the beginning of each repetition.

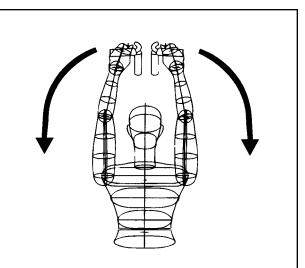




IMPORTANT NOTE: The dual-axis technology is most effective and most comfortable when the following cues are given. These brief instructions, when properly given, improve the motor learning process, which is the key to the safe and effective performance of ANY exercise. After only a few repetitions of each with a light weight the movement will be mastered.

The Wide Pulldown

- Grip the outer handles and lean back slightly at the hips.
- Depress the scapula (pinch the shoulder blades down and back).
- Move the handles outward first, then bring the arms down fully to your sides. Keep the elbows *directly beneath* the hands throughout the entire range of motion.



NOTE: The resistance level utilized for this Advanced Movement will be significantly less than that for the Basic Movement.

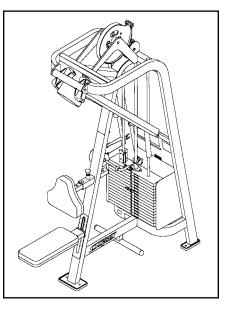
ADVANCED MOVEMENT

• Slowly return to the starting position overhead by allowing the scapula to move as needed, but maintaining lateral resistance by not touching the handles together at the top.

Row / Rear Delt - Dual Axis

The Machine

- Planes of Motion The long parallel or vertical handles are specifically designed to allow motion in the sagittal plane (extension). The horizontal handles allow *full* motion in the horizontal plane for optimum posterior deltoid (rear delt) work. The length/position of the handles allows use of either set from the same seat position.
- Range of Motion The dual-axis technology allows a greater range of motion in the horizontal plane (rear delt) than any other machine by allowing the user to start directly in front and move outward, then back.
- Variable Resistance The machine provides maximum resistance at the beginning of motion and appropriately decreases the resistance to allow full contraction at the end.



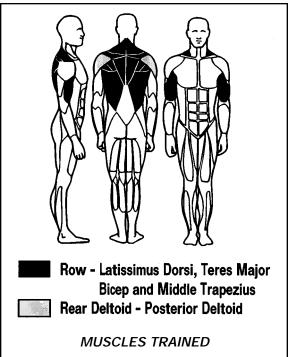
• **Two Directions of Resistance** - The dual-axis technology is used in the rear delt movement to not only provide resistance against the backward movement (by pulling forward against you) but also to provide resistance against the outward motion that is optimal at the beginning of the movement (by pushing the hands together). By providing two directions of resistance within the horizontal plane of motion posterior deltoid stimulation is increased and the elbow flexors are de-emphasized.

NOTE: Less weight will be employed when the handles are moved outward due to the multiple directions of resistance and the increased muscular effort required of the rear deltoids.

10 to 305 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

The Latissimus Dorsi

- Extension The latissimus dorsi is responsible for extension as well as adduction of the shoulder joint. This machine is designed to resist shoulder extension from the front. The lat is also involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other motions. The teres major works alongside the upper fibers of the lat in extension.
- Range of Motion Row/extension begins with the arm positioned forward (shoulder joint in approximately 90 degrees of flexion) and ends with the arm at the side in 0 degrees. Full concentric shortening of the lat can only occur when the associated scapular motion is performed with the shoulder motion. With motion and resistance from the front, scapular



retraction is required. For the arm to return to the starting position, scapular motion is not required. However, if protraction is allowed during the eccentric phase, then the scapula must be reset in retraction at the beginning of the next repetition.

 Associated Muscles - The rhomboids and middle fibers of the trapezius are responsible for scapular retraction. The posterior deltoid is an assistant mover for shoulder extension. The long head of the triceps is also involved in shoulder extension, although change in its length is limited when elbow flexion coincides with shoulder motion. The biceps, brachioradialis, and brachialis are always involved in pulling movements as elbow flexion is required. The degree of their individual involvement depends upon radioulnar joint position.

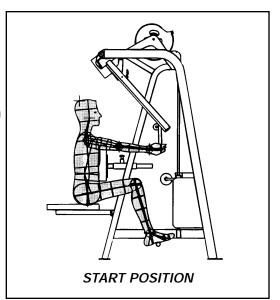
The Posterior Deltoid

- Horizontal Abduction The posterior deltoid is responsible for horizontal abduction of the shoulder joint. Due to the attachment of the rear deltoid on the scapula, the scapula must remain stabilized during shoulder joint motion. If scapular movement occurs, the resistance will move without change in the length of the rear delt, minimizing effectiveness. The teres minor and infraspinatus are also prime movers for horizontal abduction.
- Range of Motion Horizontal abduction is limited concentrically at approximately 10 20 degrees (posterior to the shoulder) and eccentrically at approximately 90 degrees of horizontal adduction (arms to the front) when the scapula remains retracted. From the starting position in front, the arms move outward then back at shoulder level as the concentric action is performed.

 Associated Muscles - The rhomboids and middle fibers of the trapezius are responsible for stabilization of the scapula in retraction. The teres major and upper fibers of the latissimus dorsi are assistant movers for horizontal abduction. The biceps, brachioradialis, and brachialis are always involved in pulling movements as elbow flexion is required. The degree of their individual involvement depends upon radioulnar joint position.

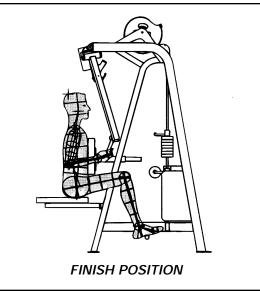
The Positioning

- Adjust the seat to align the horizontal handles with the top of the shoulders.
- Adjust the chest pad to allow both hands to reach the handles while protracting. Moving into the "chest up" erect posture should then allow full motion.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.



The Motion - The Row

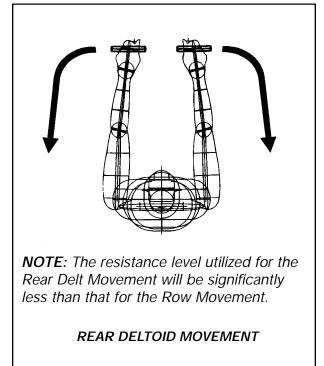
- Grip the lower end of the vertical or parallel handles.
- Retract the scapula (pinch the shoulder blades back and together).
- While maintaining the scapular position and the chest on the pad, bring the arms to your sides.
- Slowly return to the starting position without resting.
- If the scapular position changes, reset the scapula retraction at the beginning of each repetition.



IMPORTANT NOTE: The dual-axis technology is most effective and most comfortable when the following cues are given. These brief instructions, when properly given, improve the motor learning process, which is the key to the safe and effective performance of ANY exercise. After only a few repetitions of each with a light weight will the movement be mastered.

The Motion - The Rear Delt

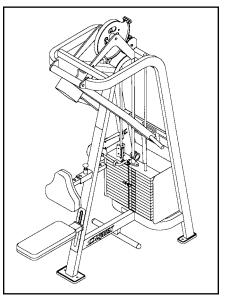
- Grip the horizontal handles.
- Retract the scapula (pinch the shoulder blades back and together) and maintain.
- Move the handles outward, then bend the arms and bring the elbows back as far as possible, keeping them at shoulder level. "Lead with the elbows" to decrease elbow flexor involvement.
- Slowly return to the starting position without resting, maintaining scapular retraction.



Row / Rear Delt - Single Axis

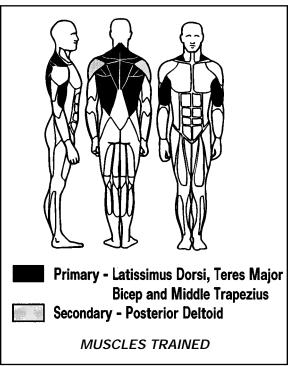
The Machine

- Planes of Motion The long parallel or vertical handles are specifically designed to allow motion in the sagittal plane (extension). The horizontal handles allow *full* motion in the horizontal plane for optimum posterior deltoid (rear delt) work. The length/position of the handles allows use of either set from the same seat position.
- Variable Resistance The machine provides maximum resistance at the beginning of motion and appropriately decreases the resistance to allow full contraction at the end.
- 10 to 305 Pounds by Fives The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.



The Latissimus Dorsi

- Extension The latissimus dorsi is responsible for extension as well as adduction of the shoulder joint. This machine is designed to resist shoulder extension from the front. The lat is also involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other motions. The teres major works alongside the upper fibers of the lat in extension.
- Range of Motion Row/extension begins with the arm positioned forward (shoulder joint in approximately 90 degrees of flexion) and ends with the arm at the side in 0 degrees. Full concentric shortening of the lat can only occur when the associated scapular motion is performed with the shoulder motion. With motion and resistance from the front, scapular



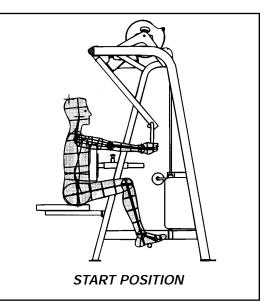
retraction is required. For the arm to return to the starting position, scapular motion is not required. However, if protraction is allowed during the eccentric phase, then the scapula must be reset in retraction at the beginning of the next repetition.

 Associated Muscles - The rhomboids and middle fibers of the trapezius are responsible for scapular retraction. The posterior deltoid is an assistant mover for shoulder extension. The long head of the triceps is also involved in shoulder extension, although change in its length is limited when elbow flexion coincides with shoulder motion. The biceps, brachioradialis, and brachialis are always involved in pulling movements as elbow flexion is required. The degree of their individual involvement depends upon radioulnar joint position.

The Posterior Deltoid

- Horizontal Abduction The posterior deltoid is responsible for horizontal abduction of the shoulder joint. Due to the attachment of the rear deltoid on the scapula, the scapula must remain stabilized during shoulder joint motion. If scapular movement occurs, the resistance will move without change in the length of the rear delt, minimizing effectiveness. The teres minor and infraspinatus are also prime movers for horizontal abduction.
- **Range of Motion** Horizontal abduction is limited concentrically at approximately 10 20 degrees (posterior to the shoulder) and eccentrically at approximately 90 degrees of horizon-tal adduction (arms to the front) when the scapula remains retracted.
- Associated Muscles The rhomboids and middle fibers of the trapezius are responsible for stabilization of the scapula in retraction. The teres major and upper fibers of the latissimus dorsi are assistant movers for horizontal abduction. The biceps, brachioradialis, and brachialis are always involved in pulling movements as elbow flexion is required. The degree of their individual involvement depends upon radioulnar joint position.

- Adjust the seat to align the horizontal handles with the top of the shoulders.
- Adjust the chest pad to allow both hands to reach the handles while protracting. Moving into the "chest up" erect posture should then allow full motion.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.

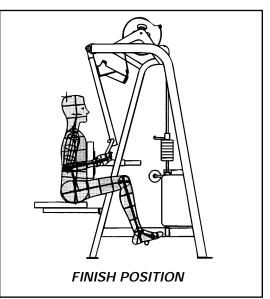


The Motion - The Row

- Grip the lower end of the vertical or parallel handles.
- Retract the scapula (pinch the shoulder blades back and together).
- While maintaining the scapular position and the chest on the pad, bring the arms to your sides.
- Slowly return to the starting position without resting.
- If the scapular position changes, reset the scapula refraction at the beginning of each repetition.

The Motion - The Rear Delt

- Grip the horizontal handles.
- Retract the scapula (pinch the shoulder blades back and together) and maintain.
- Bring the elbows back as far as possible, keeping them at shoulder level. "Lead with the elbows" to decrease elbow flexor involvement.
- Slowly return to the starting position without resting, maintaining scapular retraction.

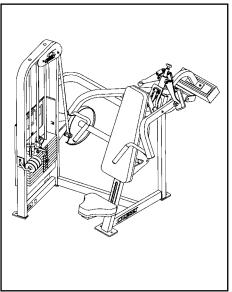


CYBEX VR2 Owner's Manual

Overhead Press - Dual Axis

The Machine

- Range of Motion Adjustment The seat adjustment of the dual-axis overhead press serves to determine start position and as a range of motion limit.
- Plane of Motion The handles are angled to allow optimum average wrist position throughout the movement. The "barbell" or horizontal position encourages motion in the frontal plane (abduction). The neutral or parallel handles encourage motion in the sagittal plane (flexion). Motion in the sagittal plane (pressing in the front) is considered more functional and safer for the overhead press and is just as (if not more) effective for stimulation of the desired muscles.
- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.



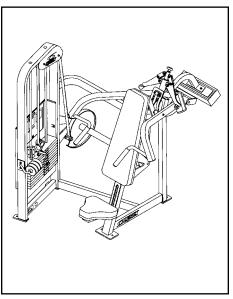
- User Defined Path of Motion The width of the start position, the end position, as well as the path of travel between the two are entirely determined by the user. The path chosen can be based upon the user's ability level, goal, fatigue, or structural limitations (as are often found in the shoulder joint). Options range from the traditional press to numerous other user friendly options including movement toward midline similar to dumbbell exercises. Although the dual-axis technology allows freedom within the proper plane of motion, unwanted motion outside of that plane is safely eliminated by the machine, allowing all effort to be directed toward the deltoids. This freedom is ideal for those users who have special limitations or discomfort with traditional press machines as they are able to select a pain free and unrestricted path of travel.
- **Two Directions of Resistance** The dual-axis technology not only provides resistance against the pressing movement (by pushing down against you) but it can also provide resistance against the inward motion at the top (by pushing the hands apart). By providing two directions of resistance within the plane of motion deltoid stimulation is increased and the triceps are de-emphasized.

NOTE: Less weight will be employed when the handles are moved inward due to the multiple directions of resistance and the increased muscular effort required of the deltoids.

Overhead Press - Dual Axis

The Machine

- Range of Motion Adjustment The seat adjustment of the dual-axis overhead press serves to determine start position and as a range of motion limit.
- Plane of Motion The handles are angled to allow optimum average wrist position throughout the movement. The "barbell" or horizontal position encourages motion in the frontal plane (abduction). The neutral or parallel handles encourage motion in the sagittal plane (flex-ion). Motion in the sagittal plane (pressing in the front) is considered more functional and safer for the overhead press and is just as (if not more) effective for stimulation of the desired muscles.



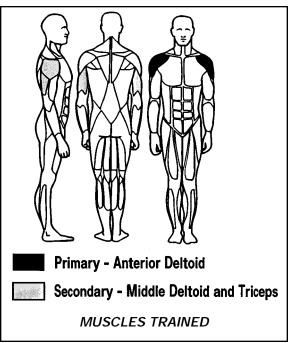
- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.
- User Defined Path of Motion The width of the start position, the end position, as well as
 the path of travel between the two are entirely determined by the user. The path chosen can
 be based upon the user's ability level, goal, fatigue, or structural limitations (as are often
 found in the shoulder joint). Options range from the traditional press to numerous other user
 friendly options including movement toward midline similar to dumbbell exercises.
 Although the dual-axis technology allows freedom within the proper plane of motion,
 unwanted motion outside of that plane is safely eliminated by the machine, allowing all
 effort to be directed toward the deltoids. This freedom is ideal for those users who have
 special limitations or discomfort with traditional press machines as they are able to select a
 pain free and unrestricted path of travel.
- **Two Directions of Resistance** The dual-axis technology not only provides resistance against the pressing movement (by pushing down against you) but it can also provide resistance against the inward motion at the top (by pushing the hands apart). By providing two directions of resistance within the plane of motion deltoid stimulation is increased and the triceps are de-emphasized.

NOTE: Less weight will be employed when the handles are moved inward due to the multiple directions of resistance and the increased muscular effort required of the deltoids.

 10 to 205 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

The Shoulders

Flexion/Abduction in External Rotation -The anterior deltoid is primarily responsible for flexion of the shoulder joint as well as abduction of the shoulder joint when com bined with 90 degrees of external rotation (overhead press position). The middle deltoid is a prime mover for shoulder abduction, how ever, it's level of involvement diminishes as the shoulder is externally rotated and the middle fibers are moved posteriorly. The actual degree of middle deltoid involvement varies with the user's individual deltoid structure. The combined positions of external rotation to 90 degrees and abduction to 90 degrees create the most compromising position for the shoulder joint.



- **Range of Motion** Full normal abduction or flexion begins with the arm at the side in 0 degrees and ends in a vertical position overhead at 180 degrees. As the arm moves overhead the direction of travel arcs upward, then inward toward the head.
- Associated Muscles Collectively, the scapular muscles are involved in the scapular rotation that is key to scapulohumeral rhythm. This combined motion of the scapula and the shoulder joint is required to achieve elevation of the arm overhead in any plane. The rotator cuff muscles act as dynamic stabilizers during elevation of the arm. The triceps are always involved in pressing movements as elbow extension is required. Due to the externally rotated position, the posterior deltoid plays a stabilizing role at best and in many shoulder structures would prove to be an antagonist to overhead movements.

The Positioning

- Adjust the seat to align the handles with the top of the shoulders.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grip either set of handles and position the elbows directly below the hands.

The Motions

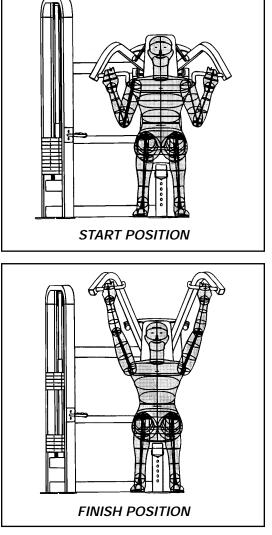
IMPORTANT NOTE: The dual-axis technology is most effective and most comfortable when the following cues are given. These brief instructions, when properly given, improve the motor learning process, which is the key to the safe and effective performance of ANY exercise. After only a few repetitions of each with a light weight the movement will be mastered.

The Basic Press

 Press the handles upward with a smooth controlled motion and return slowly without resting, keeping the elbows directly below the hands at the bottom of each repetition.

The Overhead Fly

- While in the fully pressed position with the arms straight, move the handles directly toward each other.
- While keeping the arms straight, slowly return the handles to the wide position without resting.



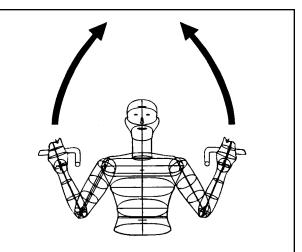
The Advanced Press

- From the wide start position press upward, simultaneously moving the handles toward each other, ending with the arms straight and handles close together.
- Slowly return to the wide starting position without resting.

The Stabilization Press

• Before pressing, move the handles inward a few inches and maintain that width while pressing upward and during the return.

NOTE: Each of the above is a valuable exercise within itself and can be used alone or in combinations.



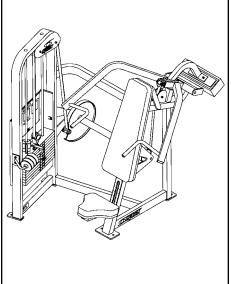
NOTE: The resistance level utilized for this Advanced Movement will be significantly less than that for the Basic Movement.

ADVANCED MOVEMENT

Overhead Press - Single Axis

The Machine

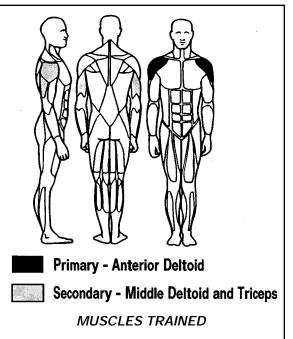
- Range of Motion Adjustment The seat adjustment of the overhead press serves to determine start position and as a range of motion limit.
- Plane of Motion The handles are angled to allow optimum average wrist position throughout the movement. The "barbell" or horizontal position encourages motion in the frontal plane (abduction). The neutral or parallel handles encourage motion in the sagittal plane (flex-ion). Motion in the sagittal plane (pressing in the front) is considered more functional and safer for the overhead press and is just as (if not more) effective for stimulation of the desired muscles.



- Variable Resistance A cam provides appropriately varying resistance that is maximal at the end of the motion where the body's mechanical advantage increases.
- 10 to 205 Pounds by Fives The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

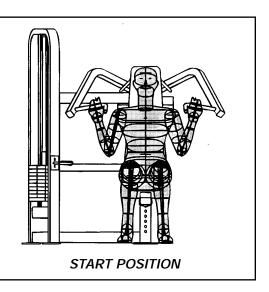
The Shoulders

 Flexion/Abduction in External Rotation -The anterior deltoid is primarily responsible for flexion of the shoulder joint as well as abduction of the shoulder joint when combined with 90 degrees of external rotation (overhead press position). The middle deltoid is a prime mover for shoulder abduction, however, it's level of involvement diminishes as the shoulder is externally rotated and the middle fibers are moved posteriorly. The actual degree of middle deltoid involvement varies with the user's individual deltoid structure. The combined positions of external rotation to 90 degrees and abduction to 90 degrees create the most compromising position for the shoulder joint.

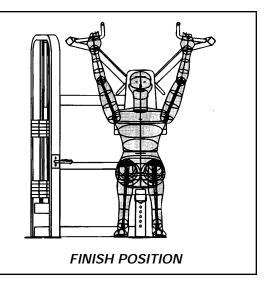


- **Range of Motion** Full normal abduction or flexion begins with the arm at the side in 0 degrees and ends in a vertical position overhead at 180 degrees.
- Associated Muscles Collectively, the scapular muscles are involved in the scapular rotation that is key to scapulohumeral rhythm. This combined motion of the scapula and the shoulder joint is required to achieve elevation of the arm overhead in any plane. The rotator cuff muscles act as dynamic stabilizers during elevation of the arm. The triceps are always involved in pressing movements as elbow extension is required. Due to the externally rotated position, the posterior deltoid plays a stabilizing role at best and in many shoulder structures would prove to be an antagonist to overhead movements.

- Adjust the seat to align the handles with the top of the shoulders.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grip either set of handles and position the elbows directly below the hands.



- Press the handles upward with a smooth controlled motion.
- Return slowly without resting, keeping the elbows directly below the hands at the bottom of each repetition.

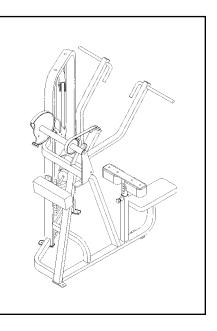


CYBEX VR2 Owner's Manual

Lat Pull

The Machine

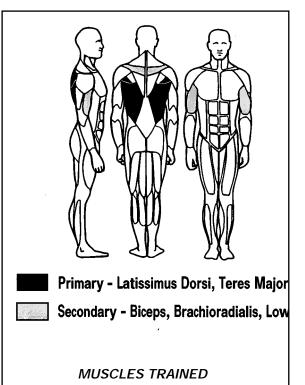
- Planes of Motion The "straight bar"/outer handles allow *full* motion in the frontal plane (adduction). The parallel/narrow handles are specifically designed to allow motion in the sagittal plane (extension). Motion in the sagittal plane (narrow grip pulldown) is considered more functional and safer for the shoulder. The individual handles allow the user to pull through the center of the body or through the front. The detrimental and minimally effective "behind the neck" position should be avoided by leaning back slightly. The handles are also angled to provide the optimum average wrist position througout the movement.
- Variable Resistance The machine provides maximum resistance at the beginning of motion and appropriately decreases the resistance to allow full contraction at the end.



 10 to 305 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

The Latissimus Dorsi

- Extension/Adduction The latissimus dorsi is responsible for extension as well as adduction of the shoulder joint. The lat is also involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other motions. The teres major works alongside the upper fibers of the lat in adduction and extension. The combined positions of external rotation to 90 degrees and abduction to 90 degrees create the most compromising position for the shoulder joint.
- Range of Motion Full normal adduction or extension begins with the arm in a vertical position overhead at 180 degrees and ends with the arm at the side in 0 degrees. Full concentric shortening of the lat can only occur

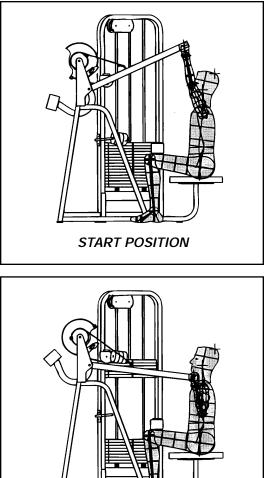


when the associated scapular motion is performed with shoulder motion. With motion and resistance from overhead, scapular depression is required. For the arm to return to the starting position overhead the eccentric action of the lat must be accompanied by the scapular rotation of scapulohumeral rhythm.

 Associated Muscles - The lower fibers of the trapezius are responsible for scapular depression. Slight retraction is always associated with scapular depression as the lower fibers of the trapezius angle downward and toward midline, attaching on the spine. The long head of the triceps is involved in shoulder extension and adduction, although change in its length is limited when elbow flexion coincides with shoulder motion. The biceps, brachioradialis, and brachialis are always involved in pulling movements as elbow flexion is required. The degree of their individual involvement depends upon radioulner joint position.

The Positioning

- Adjust the thigh pad to allow access and stabilize the body.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.



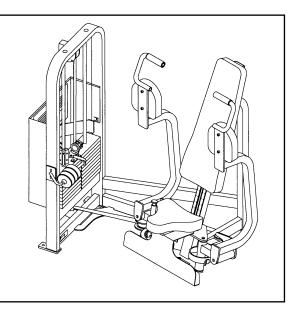
FINISH POSITION

- Grip the narrow/parallel handles.
- Lean back slightly at the hips and maintain.
- Depress the scapula (pinch the shoulder blades down and back).
- While maintaining the scapular position, bring the handles down in front of the face an elbows beside the body.
- Slowly return to the starting position overhead by allowing the scapula to move as needed, but without resting.
- Reset the scapula at the beginning of each repetition.

Fly

The Machine

- Range of Motion Adjustment The VR2 Fly eliminates the most hazardous characteristic of traditional fly machines, the danger of excessive stretch. It accomplishes this by providing an adjustable starting position that, when preset to the individual user's structure/mechanics, also serves as a range of motion limit.
 - "Virtual Pivot" Axis The lever arms (handles/arm pads) are placed on a second axis. This allows the lever arms to "float" toward or away from the user as the fly motion is performed. This solves three problems inherent to traditional fly machines. 1) It eliminates the tendency of the pads to "roll" or "scoot" on the arms because 2) it eliminates the need to perfectly align the primary pivots with the user's

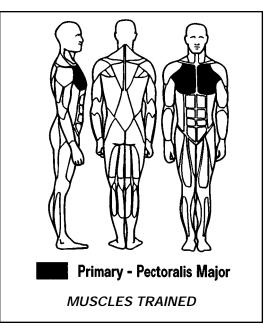


shoulder width (a design and manufacturing challenge that is virtually impossible due to the variety of user sizes), and 3) it eliminates the discomfort and limitations associated with the spectrum of user arm lengths and chest thicknesses.

- **Variable Resistance** The cam provides appropriately varying resistance that matches the strength curve of the associated muscles performing this motion in the defined position.
- 10 to 205 Pounds by Fives The top plate provides a minimum weight of pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

The Chest

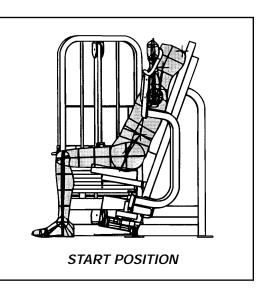
Horizontal Adduction While Externally Rotated -The pectoralis major is primarily responsible for horizontal adduction of the shoulder joint. The pec is also involved in flexion and extension of the shoulder joint, although the anterior deltoid and latissimus dorsi muscles, respectively, are mechanically more effective at performing these motions respectively. The pec is also involved in internal rotation of the shoulder, however, this is a mechanically weak motion and becomes the limiting factor in strength when combined with other shoulder motions. Maintaining the shoulder in an externally rotated position during the performance of horizontal adduction allows strengthening of the muscle from a slightly lengthened state when compared to a neutrally rotated (chest press) position. It should also be noted that this position will result in less

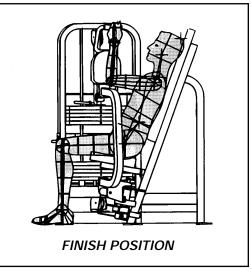


tension development within the muscle due to the length-tension ratio as well as limiting the final amount of concentric shortening.

- **Scapular Retraction** The position of full scapular retraction, when maintained, creates the greatest possible force angles of the pectoralis major throughout the range of motion.
- Range of Motion With scapular retraction maintained, horizontal adduction is limited to approximately 90 degrees (humerus straight to the foot). While maintaining 90 degrees of external rotation, horizontal abduction (achieved through the eccentric "lowering of the weight" or return to the starting position) is limited by mechanical disadvantage at approximately 0 degrees (upper arm straight out from the shoulder) and, much more importantly, by achieving the closed packed position for the shoulder at this point. Here the ligaments reach their maximum length and if horizontally abducted further, while maintaining external rotation, will under go undue stress.
- Associated Muscles The anterior deltoid and caracobrachialis are also prime movers for the motion of horizontal adduction. However, by maintaining motion in the horizontal plane, scapular retraction, and limited horizontal abduction (limited stretch) the pectoralis major will be emphasized over the anterior deltoid. Mechanical analysis indicates that the effectiveness of the anterior deltoid in horizontal adduction may be slightly reduced in the externally rotated position.

- Adjust the seat height so that elbows are slightly below shoulders when grasping handles.
- Adjust handle position, by releasing the publibutton located below the seat to the right, so that the upper arm is straight to side when handle is grasped.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grip the handles and position the forearms on the pads by moving the lever arms inward to a comfortable width.
- Retract the scapulae. Monitor and maintain this position on all movements for the chest.





- Tighten the chest and slowly bring the handles together in front without changing the position of the scapulae.
- Maintaining a slow smooth motion, return to near the starting position without relaxing the muscles.

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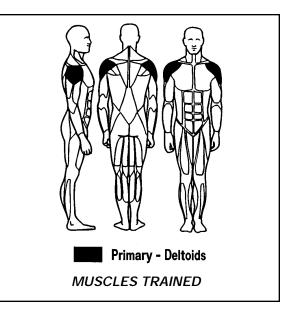
Lateral Raise

The Machine

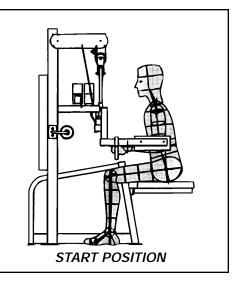
- Placement of Resistance The Lateral Raise decreases the dangers of excessive shoulder joint shear by placing the resistance at the elbow. The elimination of the chest pad allows for more precise alignment of the resistance with the fiber direction of the lateral deltoid.
- Plane of Motion The long input arms combined with a swivel handle allow for smooth shoulder abdjuction and maximum pad contact.
- Variable Resistance A cam provides appropriately varying resistance that decreases at the end of the range of motion, where that lateral deltoid has less mechanical advantage.
- **10 TO 205 POUNDS BY FIVES** The top plate provides the minimum weight of ten pounds. Subsequent plates in the stack are twenty pounds each. Three "slide-on" five pound increment plates are securely positioned for Easy access and effortless addition thereby providing 10 to 205 pounds in Five pound increments.

The Shoulders

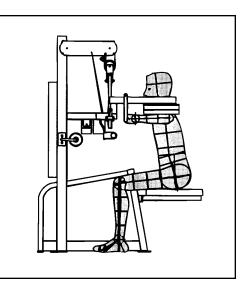
- **Abduction** The lateral deltoid is responsible for abduction of the shoulder joint.
- Scapular Retraction The position of slight scapular retraction, when maintained, creates improved force angles for the deltoid throughout the range of motion. The movement may also be performed for more functional training, by allowing the scapular motion.
- Range of Motion When the upper arm is in neutral rotation, the range of abdustion is 90° at the shoulder joint. Further range of motion is prevented by the contact of bone processes in the shoulder.



- Adjust the seat height to allow the shoulders to align with the axis of rotation of the cams.
- Check the weight to insure that the appropriate resistance had been selected. Body position and control should never be compromised by excessisve weight.
- Maintaining proper spinal position, lean forward slightly at the waist to align the lateral deltoid (whick typically lies slightly posterior of center) with the path of motion of the machine.



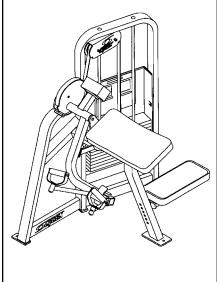
- Grip the handles lightly and allow your upper arm to maintain a vertical position, perpendicular with the machine arms.
- Choose either to maintain slight scapular retraction of allow functional motion, raise elbows to a level at or near shoulder height using smooth controlled movements.
- Return to the starting position and repeat the motion without resting.
- If unable to maintain the shoulder position for your goal, decrease the weight and repeat exercise



Lateral Raise

The Machine

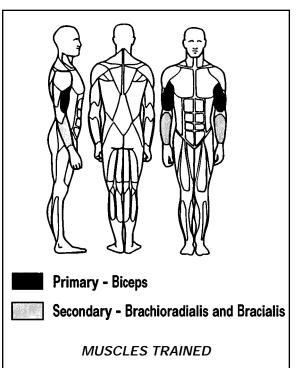
- Axis Alignment The axis or pivot point of the machine is properly positioned to allow alignment with the elbow joints.
- Accommodating Grip The rotating handles accommodate to the user's ability to achieve supination. A neutral position can be employed to emphasize the brachioradialis, however, the handles, designed specifically for the biceps, are angled slightly for proper wrist/grip alignment in full supination.
- Variable Resistance The cam provides increased resistance at the point in the range where force output of the biceps is the greatest.



 10 to 205 Pounds by Fives - The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

The Biceps

- Elbow Flexion The triceps brachii is responsible for extension of the elbow joint as well as supination of the radioulnar joint. The biceps are most effective at performing elbow flexion when the position of full supination is maintained throughout the entire range of motion. The biceps also cross the shoulder joint, although it is more effective at stabilizing the shoulder than moving it. It should be noted that any movement of the shoulder joint during resisted elbow flexion usually decreases the effectiveness of the exercise by allowing unresisted change in the biceps' length.
- Range of Motion Normal elbow motion is 0 to 150 degrees. During isolated biceps work the range of motion is limited by the user's ability to control the biceps in flexion concentrically and extension eccentrically.

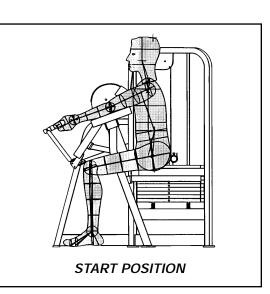


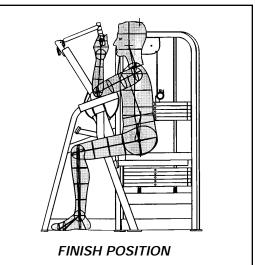
Associated Muscles - The brachialis and brachioradialis are both prime movers for elbow flexion. The brachialis is equally effective in all radioulnar positions, however, it is emphasized alone when pronation is maintained during elbow flexion due to the decreased effectiveness of the biceps and brachioradialis in this position. The brachioradialis is emphasized when the neutral (hammer) position is maintained.

The Positioning

- Adjust the seat to allow the upper arm to rest on the pad.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Grip the handles and rotate to the desired position.
- Sit with the spine erect and scapula retracted.
- Position the arms parallel to each other.
- Note the pivot point at the right edge of the arm pad. Position the elbows in line with the pivot point.
- By depressing the scapula (lowering the shoulders), press the upper arms firmly into the pad and elevate the elbows slightly.

- Tighten the biceps and flex the elbows as far as possible without raising the elbows further.
- Return to the starting position without resting and without changing the shoulder arm position or elbow alignment.

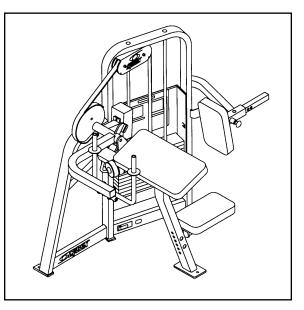




Arm Extension

The Machine

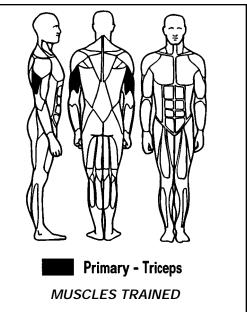
- Axis Alignment The axis or pivot point of the machine is properly positioned to allow alignment with the elbow joints.
- **Neutral Grip** The neutral handles allow full extension without shoulder rotation as well as a powerful and stable position of the wrist and hand.
- Variable Resistance The cam provides increased resistance at the point in the range where force output of the triceps is the greatest.
- 10 to 205 Pounds by Fives The top plate provides a minimum weight of pounds.
 Subsequent plates in the weight stack are twenty pounds each. Three "slide on" five pounds.



twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effort less addition thereby providing 10 to 205 pounds in five pound increments.

The Triceps

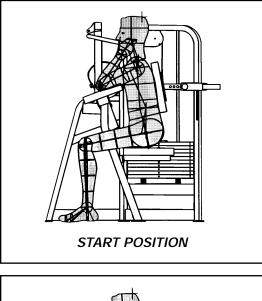
• Elbow Extension - The triceps brachii is responsible for extension of the elbow joint. The triceps insert on the olecranon of the ulna and is not involved in or directly affected by the position of the radioulnar joint. However, full pronation often encourages internal rotation of the shoulder in order to achieve full elbow extension. The long head of the triceps originates on the scapula and is an assistant mover of shoulder extension and adduction, however, it is more effective at stabilizing the shoulder than moving it. It should be noted that any movement of the shoulder joint during resisted elbow extension may decrease the effectiveness of the exercise.

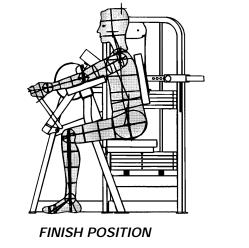


- Range of Motion Normal elbow motion is 0 to 150 degrees. During isolated triceps work the range of motion is limited by the user's ability to control the triceps in extension concentrically and flexion eccentrically.
- Associated Muscles The anconeus is also a prime mover for elbow extension.

- Adjust the seat to allow the upper arm to rest on the pad.
- Note the pivot point at the right edge of the arm pad. Position the elbows in line with the pivot point.
- Adjust the back pad to provide support in maintaining the elbow/axis alignment.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Swing the handles back and grip.
- Position the arms parallel to each other.
- Sit with the spine erect and scapula retracted.

- Tighten the triceps and extend the elbows as far as possible without raising the elbows or shoulders.
- Return to the starting position without resting and without changing the shoulder/arm position or elbow alignment.

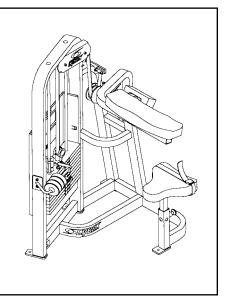




Ab Crunch

The Machine

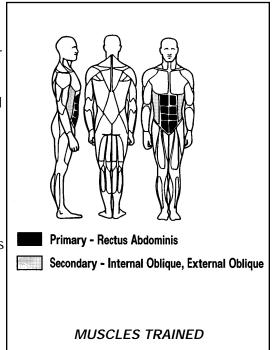
- Arc Alignment The axis or pivot point of the machine is positioned posterior to the spine. This creates a downward arc of motion matching spinal flexion and eliminating hip flexion and hip flexor activity.
- Range of Motion The seat height adjustment allows for varying torso lengths and serves as a range of motion limit. Fine tuning of the range of motion can be made by moving forward or backward slightly on the seat.
- **Resistance Application** The resistance is applied through an arm pad which is designed to further prevent hip flexor use.



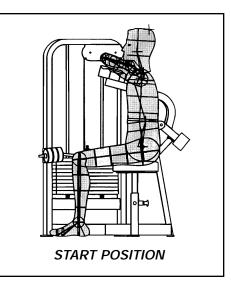
- Stabilization A foot plate/strap is not available to encourage use of the hip flexors. A seat belt is provided to secure the body when the amount of resistance employed nears the weight of the body. This belt is positioned near the hip joints to decrease use and leverage of the hip flexors.
- **10 to 205 Pounds by Fives** The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

The Abdominals

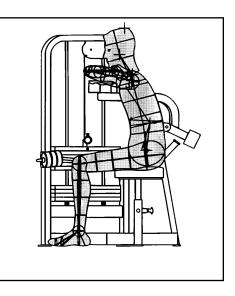
- Spinal Flexion The rectus abdominis is responsible for flexion and stabilization of the spine. The internal and external obliques work bilaterally as synergists in their roles as prime movers for spinal flexion.
- Range of Motion Unless a restriction occurs or is prescribed, range of motion is limited only by the user's ability to control the abdominals concentrically into full flexion and eccentrically into hyperextension.
- Associated Muscles The transverse abdominis is not situated to assist with spinal flexion. Attempts at involving this muscle in the crunch by "sucking in" will decrease the effectiveness of the rectus abdominis.



- Adjust the seat to align the arm pad with the top of the shoulders/base of the neck. Raise the seat to decrease range of motion. Lower the seat to increase range of motion.
- Check the weight to insure that the apprpriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Position the feet flat on the floor and use the seat belt if needed.
- Cross the arms over the pad and sit erect with the chest near the edge of the pad.



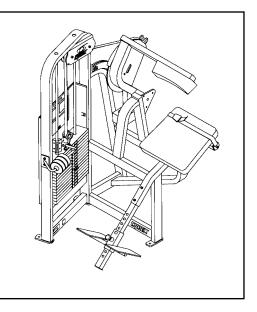
- Tighten the abdominals and crunch smoothly as far as possible. Stabilize the shoulders and lead with the ribs.
- Slowly return to the starting position without resting.



Back Extension

The Machine

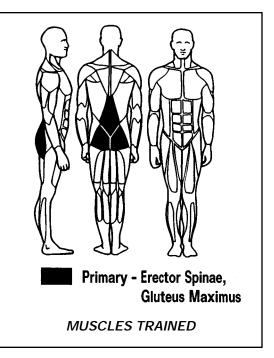
- Three Models The 4711 model provides standard (non-RLD) operation. The 4712 model contains an adjustable start position so that the ultimate degree of knee flexion at the start of the movement can be determined. The 4713 model provides both an adjustable start and an adjustable end position for total control of the user's range of motion.
- **Range of Motion Limitation** The range limiting device allows quick, easy adjustment of the start (4712, 4713) and end positions (4713) for those user's with limited hamstring flexibility or for rehab purposes. The RLD maintains the correct biome-chanical relationship between the lever arm and the cam which is critical in maintaining the proper resistance variation through the chosen range.



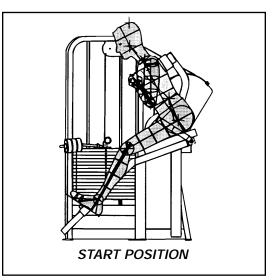
- Axis Alignment The axis or pivot point of the machine is positioned to be aligned with the hip joints.
- **Stabilization** The footplate is adjustable to stabilize the hip in axial alignment. A seat belt is provided to secure the body.
- 10 to 305 Pounds by Fives The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 305 pounds in five pound increments.

The Erector Spinae

- **Spinal Extension** The erector spinae are responsible for extension and stabilization of the spine.
- Range of Motion Motion of the spine is eliminated in this exercise. The goal is to maintain proper spinal alignment with the erector spinae during resisted hip extension. This is identical to the proper functional lifting motor pattern required in daily activity. Hip motion should be limited to that which can be performed with proper spinal alignment.
- Associated Muscles The gluteus maximus and hamstrings are responsible for hip extension. The hamstrings will be involved to a lesser degree due to the position of slight knee flexion.



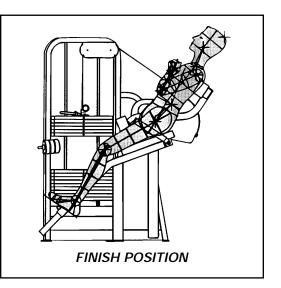
- While seated with the weight stack selector pin removed, position both feet on the footplates and your back against the pad.
- Extend the legs until the posterior thigh is against the seat.
- Check hip joint alignment with the pivot point.
- Move the foot plate to properly align the hip, maintaining contact of the thigh against the seat.
- Stabilize this position with the seat belt.



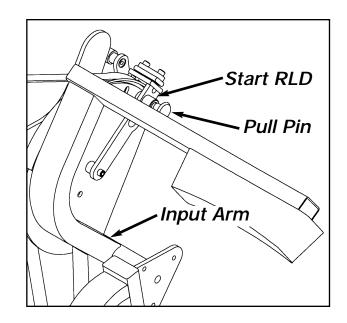
• Select the appropriate resistance. Body position and control of the motion should never be compromised by excessive weight.

The Movement

- Cross your arms and straighten the spine by "lifting the chest".
- Press against the back pad and slowly extend as far as possible, maintaining proper spinal alignment.
- Control the return forward without resting and keeping the "chest up" to insure proper spinal alignment.

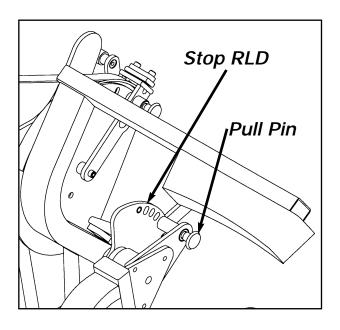


- Set Start Position
 - 1. Grasp pull pin (pullbutton) and pull.
 - 2. Move input arm to desired position.
 - 3. Lock pull pin into place.



• Set Stop (End) Position

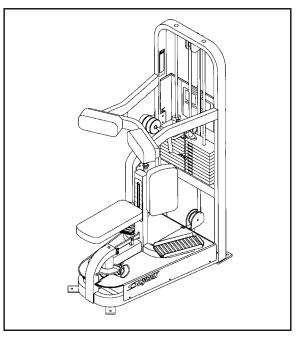
- 1. Grasp pull pin (pullbutton) and pull.
- 2. Rotate stop to the desired starting position.
- 3. Lock pull pin into place.



Torso Rotation

The Machine

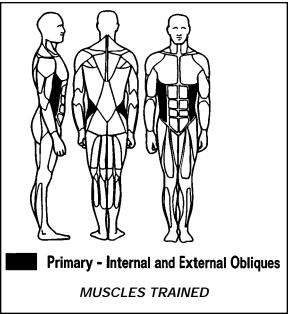
- Stabilization The upper torso is stabilized against an anterior chest pad. This utilizes the upper extremity to assist with stabilization, rather than movement of the resistance. Additionally, as motion of the upper body/torso is eliminated, the head may remain in a fixed and focused position. This aids to improve performance and decrease the opportunity for vestibular stimulation and the potential for dizziness.
- Range of Motion Adjustment A push button mechanism between the leg pads allows the user to easily preset the degree of rotation for the start/end position at 30, 45, 60 or 75 degrees while in the seated position. The end of the concentric movement, although ultimately subject to the control/ability of the user, is limited at a maximal range of 75 degrees.



- Resistance Application The resistance is applied securely through the lower body. This dramatically reduces inefficient movement of the resistance by poorly stabilized extremities (a common problem with traditional rotary torso machines that utilize the upper extremity to maintain contact with the resistance). The drive mechanism eliminates the "slack" found in most machines that offer multi-directional concentric movement, thereby allowing *immediate* resistance.
- **10 to 205 Pounds by Fives -** The top plate provides a minimum weight of ten pounds. Subsequent plates in the weight stack are twenty pounds each. Three "slide-on" five pound incremental plates are securely positioned for easy access and effortless addition thereby providing 10 to 205 pounds in five pound increments.

The Rotators

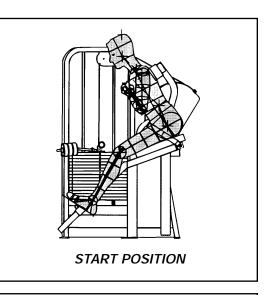
Reverse Action Spinal Rotation - Spinal rotation is defined by the movement of the upper torso upon a stabilized pelvis. The Torso Rotation machine works in biomechanical reverse action defined by the lower torso/pelvis moving beneath the stabilized upper torso. Although the same muscles will be working in their respective roles as prime movers, the orientation is different. Therefore, the internal obligues and erector spinae which are responsible for spinal rotation to the same side respectively, perform pelvic rotation to the opposite side. The external obligues and rotators/multifidus are responsible for spinal rotation to the opposite side respectively, or pelvic rotation to the same side. Another way to view the muscular action is relative to the motion itself.

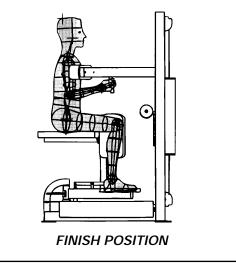


Pelvic rotation to the right is performed by the left internal oblique, left erector spinae, right external oblique, and right rotator/multifidus group. Pelvic rotation to the left is per formed by the right internal oblique, right erector spinae, left external oblique, and left rotar/multifidus group.

- Range of Motion Measurement of spinal motion is subject to considerable variation. Unless a restriction occurs or is prescribed, strict thoraco-lumber rotation is generally considered to be 30 to 40 degrees to each side. However, range of motion for resistance exercise should be limited to the user's ability to control the muscular contraction concentrically and eccentrically.
- **Important** It is often suggested that rotation of the spine creates one of the most traumatic forces on the intervertebral disk, torsion. In their textbook *Joint Structure and Function*, Norkin and Levangie state, "It has been suggested that the annulus fibrosis [of the intervertebral disk] may be the most effective structure in the lumbar region for resisting torsion. However, the risk of rupture of the disk fibers is increased when torsion, heavy axial compression, and bending are combined." Preventing unnecessary rotation in daily life is advised, however; strong spinal muscles provide support for the spine and its components. Increased strength and control of these muscles may be one of the best ways to prevent spinal problems and eliminate some of the risk associated with situations that *demand* spinal rotation such as sports and work related activities. To make this exercise as safe and effective as possible *always* maintain proper spinal alignment as well as slow controlled motions.

- Adjust the seat height to align the chest pads across the upper chest.
- Place the feet comfortably on the footplates and position the legs securely against the adductor pads.
- While seated, preset the starting position by pushing the seat angle adjusting knob and rotating the seat either left or right to the desired degree. Insure that the seat is locked in position before beginning the movement.
- Check the weight to insure that the appropriate resistance has been selected. Body position and control of the motion should never be compromised by excessive weight.
- Sitting upright with proper spinal alignment, grasp the handles and pull the chest firmly to the pads.





- Maintaining contact with the chest pads, tighten the torso muscles and slowly rotate through the desired range of motion.
- With a smooth controlled motion, return to the starting position without resting.
- Push the seat angle adjusting knob and select a starting position for the opposite side. Repeat the exercise.

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Chapter 4 - Customer Service

Contacting Service

Hours of phone service are Monday through Friday from 8:00 a.m. to 6:00 p.m. Eastern Standard Time.

For Cybex customers living in the USA, contact Cybex Customer Service at 800-766-3211.

For Cybex customers living outside the USA, contact Cybex Customer Service at **508-533-4300** or fax **508-533-5183**.

Order parts and find information on the web at www.cybexinternational.com or by e-mail at techhelp@cybexintl.com.

Ordering Parts

Visit cybexinternational.com to shop for parts online or fax your order to **508-533-5183**. To speak with a customer service representative, call **800-766-3211** (for customers living within the USA) or **508-533-4300** (for customers outside the USA). You may also contact us through email at techhelp@cybexintl.com

Having the following information ready when calling will assist our Cybex representatives in serving you:

- Unit Serial Number
- Product Name

The unit serial number and product name can be found on the serial number decal. See Chapter 8 for exact location of serial number decal.

- Part Description
- Part Number

Part descriptions and part numbers are located in Chapter 8 of this manual.

Shipping Address

Contact Name

In addition to your shipping address and contact name, your account number is helpful but not required.

Return Material Authorization (RMA)

The Return Material Authorization (RMA) system outlines the procedures to follow when returning material for placement, repair, or credit. The system assures that returned materials are properly handled and analyzed. Follow the following procedures carefully.

Contact your authorized Cybex dealer on all warranty-related matters. Your local Cybex dealer will request a RMA from Cybex, if applicable. Under no circumstances will defective parts or equipment be accepted by Cybex without proper RMA and an Automated Return Service (ARS) label.

- 1. Call the Customer Service Hotline listed above for the return of any time that is defective.
- 2. Provide the technician with a detailed description of the problem you are having or the defect in the item you wish to return.
- 3. Provide the model and serial number of your Eagle equipment
- 4. At Cybex's discretion, the technician may request that you return the problem part(s) to Cybex for evaluation and repair or replacement. The technical will assign you a RMA number and will send you an ARS label. The ARS label and the RMA numbers must be clearly displayed on the outside of the package that contains the item(s) to be returned. Include the description of the problem, the serial number of the Eagle equipment and the name and address of the owner in the package along with the part(s).
- Forward the package through UPS to Cybex. Attn: Customer Service Department Cybex International, inc., 10 Trotter Drive Medway, MA 02053

NOTE: Merchandise returned without an RMA number on the outside of the package or shipments sent C.O.D. will not be accepted by the Cybex receiving department.

Damaged Parts

Materials damaged in shipment should not be returned for credit. Shipping damages are the responsibility of the carrier (UPS, Federal Express, trucking companies, etc.)

Apparent Damage - Upon receipt of your shipment, check all items carefully. Any damage seen with a visual check must be noted on the freight bill and signed by the carriers agent. Failure to do so will result in the carriers refusal to honor your damage claim. The carrier will provide you with the required forms for filing such claims.

Concealed Damage - Damage not seen with a visual check upon receipt of a shipment but notices later must be reported to the carrier as soon as possible. Upon discovery of the damage, a written or phone request to the carrier asking them to perform an inspection of the materials must be made within ten days of the delivery date. Keep all shipping containers and packing materials as they will be needed in the inspection process. The carrier will provide you with and inspection report and the necessary forms for filing a concealed damage claim. Concealed damage claim is the carriers responsibility.

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Customer Service Page 4-4

Chapter 5 - Delivery & Installation

We would like to take this opportunity to thank you for your purchase of CYBEX Strength Systems and to assure you that our commitment to excellence includes a dedication to customer service.

Freight and inside delivery charges cover trucking and handling costs necessary to place your equipment in any pre-determined location in your facility. This does not include unusual or special circumstances. If you purchased installation, your equipment will be assembled for you.

A thorough inspection of our CYBEX Strength Systems ensures that the equipment leaves our facility in flawless condition. Although unlikely, minor damage may occur in transmit from our plant to your facility. Therefore, to guarantee that any damage is covered and then corrected, we ask that you follow the procedure below upon delivery to help ensure your satisfaction.

Delivery Inspection

Upon arrival, it is important that you thoroughly inspect all of the equipment for damage.

If you discover damage, point it out to the truck driver and request that the driver make a record of the damage on the receiving report. Be sure to obtain a copy of the receiving report for your files.

- Contact CYBEX Technical Support if you received damaged equipment and provide them with the information on the report regarding your damaged equipment.
- Contact CYBEX Inside Sales if you did not receive the appropriate equipment and provide them with the information regarding your order.

You may call CYBEX at 1-888-462-9239 (1-888-GO CYBEX) and specify if you are calling for a Technical Support Representative or an Inside Sales Representative.



Allow the appropriate operating space between machines. It is the responsibility of the purchaser to determine the appropriate operating space for customer safety and convenience. Do not crowd the exercise area.

Delivery & Installation Page 5-1

Anchoring

Anchoring machines provide maximum stability.

Securely anchor each piece of Strength Systems equipment to the floor using the anchor holes provided with each machine.

NOTE: CYBEX is not responsible for the actual anchoring of equipment. Consult with a professional contractor.

Use fasteners having a minimum of 500 lbs. tensile capacity (3/8" grade 2 bolts or better).

If all legs/frames do not contact surface, DO NOT pull down with anchors. Shim any leg or frame not in contact with surface with flat washers.

Safety

Use extra caution when assembling and installing equipment, particularly when lifting or moving heavy objects (such as installing weight stacks) and when using power tools.

Before using any machine, read and understand the following material:

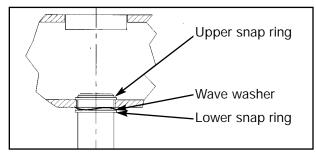
- Warning and caution labels
- Chapter 2 General Exercise Guidelines
- Chapter 3 Exercises
- Chapter 6 Maintenance

TOOLS REQUIRED

- 5/16" Allen wrench
- 9/16" Socket/ratchet
- 3/4" Socket/ratchet
- External snap ring pliers
- Medium weight automotive engine oil
- 1. Read and understand all instructions thoroughly before starting this procedure.
- 2. Before installing the weight stack.
 - A. Place machine in desired location.
 - B. Look at the shipping supports.
 - C. For cone-shaped shipping supports, use a 3/4" socket or wrench and carefully remove each cone.
 - **D.** For plastic foot glides, see the Foot Glide Removeal instruction sheet shipped with each machine.
 - **E.** Place rubber feet (supplied with machine) on each foot of the frame.

2. Installing weight stack.

A. Using an external snap ring pliers, slide the lower snap ring (and wave washer) down and about 2 inches from the top part of the guide rod (this will provide access to the upper snap ring). Repeat this step for the other guide rod. See Figures 1 amd 2.





B. Remove the plastic cap on guide rod hole by gently lifting guide rod up and down until plastic cap is forced off. Repeat this step for the other guide rod. See Figure 2.

- **C.** Raise guide rod high enough to expose the upper snap ring. Using an external snap ring pliers, remove snap ring and lower guide rod. Then remove the lower snap ring and wave washer. Repeat this step for the other guide rod. See Figure 2.
- D. Lean guide rod toward weight stack guard . *NOTE:* For the Hip Abduction, Hip Adduction and Rotary Calf machines, lean guide rod away from the weight stack guard. See Figure 2.

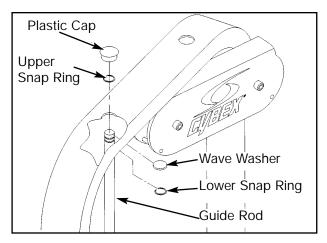


Figure 2

- E. Remove top weight increment rod from the top weight. See Figure 3.
- F. While an assistant is holding the top weight, remove shipping tie and foam securing the top weight.
- **G.** Slide top weight up and out of machine and carefully set it aside (see note in step 2, letter I).

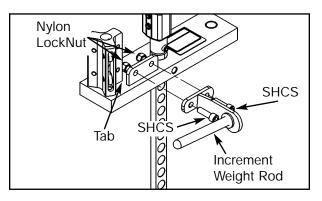


Figure 3

Delivery & Installation Page 5-3

- H. Wipe guide rods clean over entire length. Lubricate with light coating of medium weight automotive engine oil.
- I. With an assistant present, carefully install each weight plate one at a time.
- **NOTE:** For all machines except the Hip Abduction, HIp Adduction and Rotary Calf, lean guide rods toward weight stack guards when installing weight plates. For the Hip Abduction, Hip Adduction and Rotary Calf machines, lean guide rods away from the weight stack guard (toward the operator position).
- J. Carefully slide top weight onto guide rods.
- **NOTE:** Position top weight so that the tab is nearest the increment rod on the frame. See Figure 3 for location of tab.
- K. On one of the guide rods, place lower snap ring and wave washer (removed in step 5) and wave washer at least two inches below top end of guide rod.
- L. Raise guide rod up through mounting hole and install the upper snap ring into the top groove.
- M. Lower guide rod and secure lower snap ring into the groove. Repeat steps 6K - 6M for the other guide rod.
- **NOTE:** Be sure wave washer is between frame and lower snap ring. See Figures 1 and 2.
- **N.** Place protective caps over the weight stack guide rod holes.
- **O.** Place top weight increment rod onto the top weight and secure using two nylon locknuts and two SHCS .375-16 x 1.25. See Figure 3.

3. Belt Routing.

- **A.** Carefully lift top weight and verify that the top weight belt clamp is parallel with the pulley bracket.
- **B.** Verify that the SHCS securing belt clamp faces weight stack guard. See Figure 4.

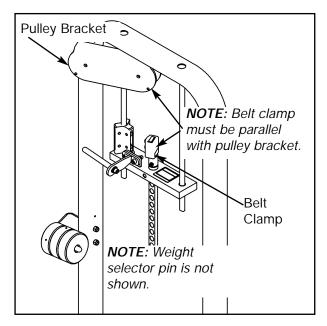


Figure 4

C. Route belt through top pulley bracket, making sure that the belt is routed on the outside of each pin as shown in Figure 5.

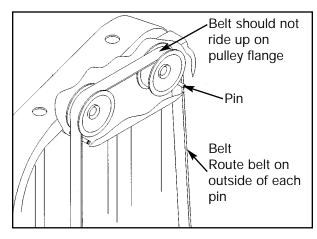
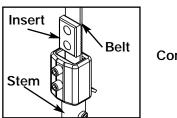


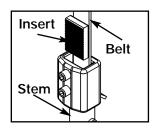
Figure 5

- D. Slide belt through slot in belt clamp.
- E. Verify belt and insert are installed properly, as shown in Figure 6. **NOTE:** Do not install the insert backwards as shown in Figure 7.



Correct belt routing

Figure 6



Wrong belt routing

Figure 7

F. Pull belt tight and secure belt to clamp with the two set screws. See Figure 8.

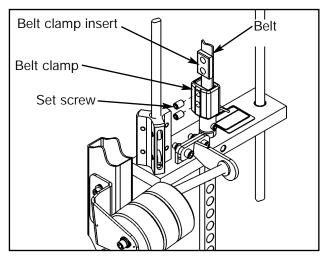


Figure 8

- **G.** Place weight stack pin in each plate to verify proper installation.
- **H.** Lift top weight up and down and verify that the belt lies flat and that it is not riding up on the pulley flange. See Figure 6.
- I. Verify belt is rounted straight from the top pulley bracket to the top weight belt clamp.
- 4. Aligning increment weight rods.
 - A. Securely tighten the SHCS securing the increment weight rod (located on the weight stack). See Figure 9.
 - **B.** Securely tighten the SHCS securing the other increment weight rod. See Figure 9.

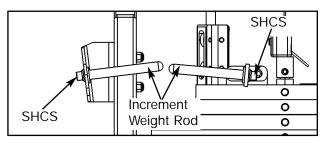


Figure 9

C. Adjust the height of the increment weight rod (on the frame) to match the height of the increment weight rod on the top weight. Tighten each SHCS securely. See Figure 10.

> Delivery & Installation Page 5-5

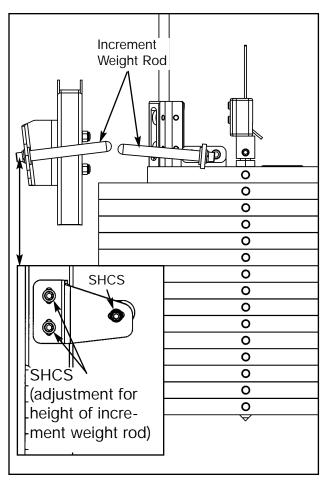


Figure 10

- D. Lift top weight and insert all three increment weights onto the increment weight rod (attached to the frame) then carefully lower the top weight.
- E. Verify increment weight rods are at the same height by sliding the increment weights from one increment weight rod to the other.

- 5. Install weight plate decals.
 - **NOTE:** Place weight plate decals (weight in pounds for standard units or if desired, number of weight plates for International units) on weight plates according to steps listed below and Figures 11 and 12.
 - **A.** Slowly and carefully peel off back side of decal. *NOTE:* When peeling off back cover, make sure that the decals remain attached to the front sticker.

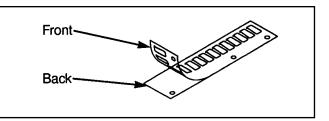
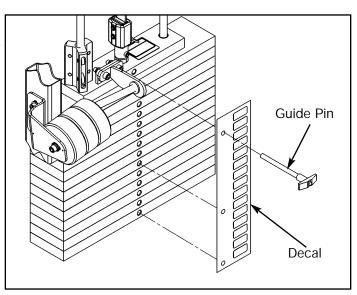


Figure 11

- **B.** Align holes in decal with appropriate holes in weight stack. *NOTE:* Do not allow the adhesive to touch weight stack at this time.
- **C.** Insert a guide pin through each hole of the template. *NOTE:* A guide pin can be any-thing that fits through the weight stack hole, such as a weight stack selector pin.
- **D.** Carefully align decal and rub it onto weight plates.
- E. Carefully remove front side, leaving decals adhering to weight plates.



VR2 Top Weight

Product Number - VR2 Ower's Manual 54599

This addendum includes the new VR2 Top Weight.

Please keep this addendum with your VR2 Owner's Manual, part number 54599.

VR2 Top Weight Chart

(item #11 on next page)

4701-030

4526 SA Overhead Chest Press 4527 DA Overhead Press 4530 Lateral Raise 4535 Arm Curl 4540 Arm Extension 4545 Fly 4616/1617/1618 Leg Extension 4626/4627/4628 Seated Leg Curl 4640 Hip Adduction 4645 Hip Abduction 4705 Ab Crucnch 4715 Torso Rotation

4701-031

4506 SA Chest Press 4507 DA Chest Press 4511 SA Incline Press 4512 DA Incline Press 4515 DA Pulldown 4516 SA Lat Pulldown 4611/4612/4613 Leg Extension 4711/4712/4713 Back Extension

4701-032

4620 Rotary Calf

4701-033

4605 Seated Leg Press

4701-034

4520 DA Row/Rear Delt 4521 SA Row/Rear Delt

SA = Single Axis DA = Dual Axis

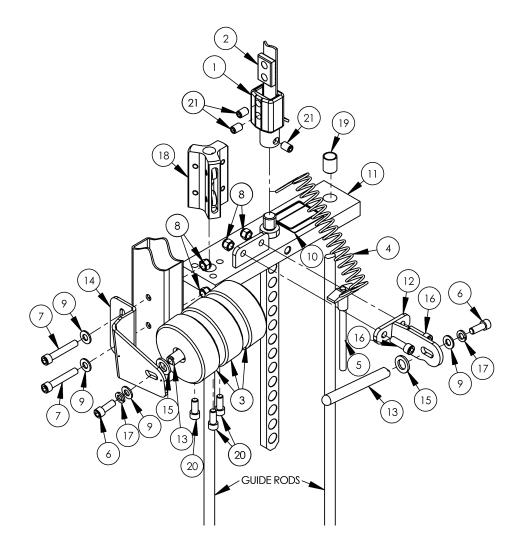
> Delivery & Installation Page 5-7

Addendum

Cybex VR2 Owner's Manual

ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-216	Belt Clamp
2	1	11040-301	Clamp Block Insert
3	3	4605-390	Increment Weight
4	1	51119	Selector Pin Retainer
5	1	BH030201	Quick Release Pin .375 Dia. x 4.00 Lg
6	2	HC702817	SHCS .375-16 x 1.00
7	2	HC702828	SHCS .375-16 x 2.25
8	4	HN704901	Nylon Locknut .375-16
9	4	HS347600	Washer SAE .375
10	1	4605-424	Caution Decal
11	1		Top Weight (See chart on previous page)
12			Weight Mount
	2		Increment Weight Rod
14	1	4700-319	Increment Weight Frame Mount
15	2	4700-321	Rubber Washer
16	2	JC702820	SHCS .375-16 x 1.25
17	2	HS348300	Split Lockwasher .375
18	1	4701-001	Top Weight Guide
19	1		Bearing Sleeve .68 x .81 1.00 Lg
20	3	HC702816	SHCS .375-16 x .875
21	3	HY740000	Set Screw

00124 - Sliding Increment & Half Weight



Delivery & Installation Page 5-8

Chapter 6 - Maintenance

All preventive maintenance activities must be performed on a regular basis. Performing routine preventive maintenance actions can aid in providing safe, trouble-free operation of all CYBEX Strength Systems equipment.

NOTE: CYBEX is not responsible for performing regular inspection and maintenance actions for your machines. Instruct all personnel in equipment inspection and maintenance actions and also in accident reporting/recording. CYBEX phone representatives are available to answer any questions or concerns that you may have.



Use only Cybex replacement parts when servicing. Failure to do so could result in personal injury. **NOTE:** All inspections and repairs must be performed by trained service personnel only.

Improper or incorrectly performed maintenance or repair voids this warranty.

Daily Procedures

1. Upholstery - Wipe down all upholstery as per the recommendations listed below for light soiling and more difficult stains.

Light Soiling

- A solution of 10% household liquid dish soap with warm water applied with a soft damp cloth.
- If necessary, a solution of liquid cleanser and water applied with a soft bristle brush. Wipe away the residue with a water dampened cloth.

More Difficult Stains

- Dampen a soft white cloth with a solution of household bleach (sodium hypochlorite), 10% bleach, 90% water. Rub gently. Rinse with a water dampened cloth to remove bleach concentration.
- The same procedure can be used with full strength household bleach, if necessary.
- Allow bleach to puddle on the affected area or apply with a soaked cloth for approximately 30 minutes. Rinse with a water dampened cloth to remove any remaining bleach concentration.

Alternative Method for Difficult Stains

• Dampen a soft white cloth with rubbing alcohol and rub gently. Rinse with a water dampened cloth to remove any remaining rubbing alcohol concentration.

NOTE: To restore luster, a light coat of spray furniture wax can be used. Apply for 30 seconds and follow with a light buffing using a clean white cloth.

Please Review Carefully

When using strong cleaning agents such as rubbing alcohol or bleach, it is advisable to first test in an inconspicuous area. Other cleaning agents may contain harsh or unknown solvents and are subject to formula changes by the product manufacturer without notice. Should you desire to use other cleaning agents, carefully try them in an inconspicuous area to determine potential damage to the material. Never use harsh solvents or cleaners which are intended for industrial applications. To clean stained or soiled areas, a soft white cloth is recommended. Avoid use of paper towels.

Cleaning products may be harmful/irritating to your skin, eyes, etc. Use protective gloves and eye protection. Do not inhale or swallow any cleaning product. Protect surrounding area/clothing from exposure. Use in a well ventilated area. Follow all product manufacturer's warnings. CYBEX and its vendors cannot be held responsible for damage or injuries resulting from the use or misuse of cleaning products.

- Frames Wipe down all frames using a mild solution of warm water and car wash soap. Be sure to dry thoroughly. AVOID acid or chlorine based cleaners and also cleaners containing abrasives as these could scratch or damage the equipment.
- 3. Chrome Clean chrome tubes, first using chrome polish and then using a car wax seal. Neutral cleaners with a pH between 5.5 and 8.5 are recommended. Be sure to dry thoroughly. AVOID acid or chlorine based cleaners and also cleaners containing abrasives as these could scratch or damage the equipment.

Weekly Procedures

- 1. Check all nuts and bolts for looseness. Tighten as required.
- 2. Inspect all belts (entire length) for any *non-uniformity and wear*.

Immediately replace belt if any of the following conditions are present:

	3D View	3D or Side View
• Peeling of the belt's skin.		
• Wave in the belt.		
• Belt is necked down (narrow section).	Replace belt if any section is over 1/32" (.03") narrower than rest of the belt.	Examine edge of belt (both sides). Replace belt if any section is narrower than the rest.
• Cracks or splits.	A THE	
• One or more strands of kevlar hanging out. NOTE: Also replace belt if there is a significant amount of frayed kevlar.		and the second s

3. Some machines, such as the Fly, Hip Adduction and Hip Abduction, use cables in addition to belts. Inspect all cables for wear or damage and proper tension. When inspecting cables, run your fingers on the cable, paying particular attention to bends in the cable and attachment points.

Replace all worn cables immediately. The following conditions may indicate a worn cable:

• A tear or crack in the cable sheath that exposes the cable. See Figure 1

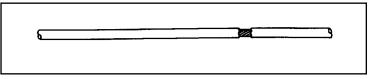


Figure 1

• A kink in the cable. See Figure 2.

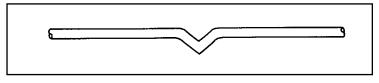
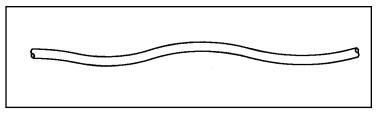


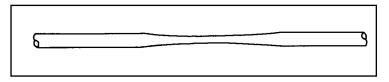
Figure 2

• A curled sheath. See Figure 3.





• "Necking", a stretched cable sheath. See Figure 4.





4. Inspect bars and handles for wear, paying particular attention to tab area connecting points.

Replace all worn handles immediately.

5. Inspect snap links for proper latching (indicates wear).

Replace all worn snap links immediately.

6. Inspect all labeling for readability. This includes instructional placards, warning and caution decals.

Replace all worn labeling immediately.

7. Inspect all weight stacks for proper alignment and operation.

Correct all improper alignment and operation issues immediately.

8. Wipe Weight Stack Guide Rods clean over entire length. Lubricate with a light coat of medium weight automotive engine oil.

Yearly Procedures

1. Replace all belts and cables at least annually.

"As Required" Procedures

1. Inspect grips and replace as necessary.

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General

This section contains a recommended belt installation and removal, grip replacement procedure, pivot shaft installation and removal, as well as service information for each machine. See the caution statement shown below when replacing parts.



Use only Cybex replacement parts when servicing. Failure to do so could result in personal injury. **NOTE:** All inspections and repairs must be performed by trained service personnel only.

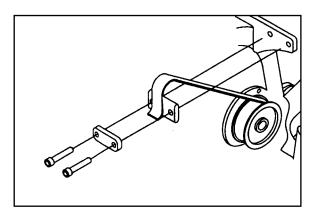
Improper or incorrectly performed maintenance or repair voids this warranty. (This page intentionally left blank)

Belt Removal

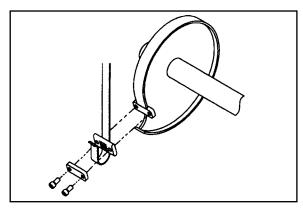
- **1.** Place quick release pin (weight stack selector pin) into the top weight plate. Also place increment weight(s) onto the increment weight holder, if applicable.
- 2. Using a 5/16" Allen wrench, remove the screws securing clamp at one end of the belt.
- 3. Remove the screws securing clamp at the other end of the belt and remove belt.

Belt Installation

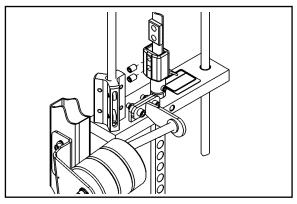
1. Observe the four types of belt clamps used on the VR2 machines (shown below). Familiarize yourself with the types you will be working with.



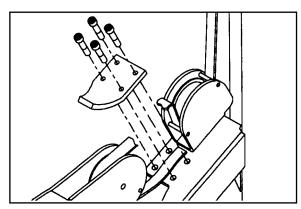
Sandwich Connection (Frame)



Sandwich Connection (Cam)



Weight Stack Connection

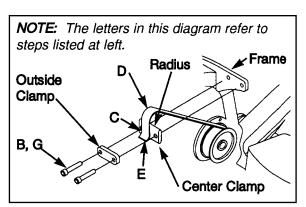


Rotary Calf Connection

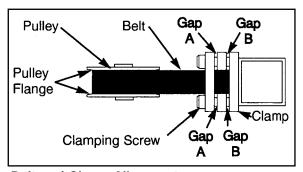
Cybex VR2 Owner's Manual

NOTE: Steps 2 - 5 are for replacing a belt that connects from a cam or frame sandwich clamp to another cam or frame sandwich clamp.

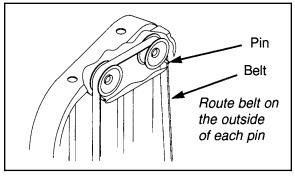
- **2** A. Review the belt routing and clamping diagrams for the machine you are working on. These diagrams can be found on the appropriate Parts List (and service diagrams) located at the end of this chapter.
 - **B.** Place screws through outside and center clamps. Loosely tighten screws into frame about two turns. See the Sandwich Connection (Frame) diagram at right.
 - C. Slide belt between frame and center clamps.
 - **D.** Fold belt around center clamp and slide belt between the center and out side clamps.
 - E. Pull belt tight against the radius, leaving 1 to 2 inches of belt beyond the clamp.
 - F. Center the belt between the clamp screws. An exception to this is when a pulley is located close to a clamp, then the belt may be off centered. The belt must be in a straight line with the pulley or cam. See Belt and Clamp Alignment diagram at right.



Sandwich Connection (Frame)



- **G.** Tighten screws (alternate until each screw *Belt and Clamp Alignment* is tight) so that the clamps are parallel with each other. The gap (A) shown in the Belt and Clamp Alignment diagram, should be the same distance at each end of the clamp. Likewise, gap (B) should be the same distance at each end of the clamp. *NOTE: The torque specification for tightening each screw is 400 inch pounds.*
- 3. Route the belt as shown in the appropriate belt routing diagram (located at the end of this chapter). NOTE: Be sure belt is routed on out side edge of pin as shown in the Routing Belt diagram at right.
- Clamp other end of belt as described in step 2. For proper belt tension, refer to the belt clamping diagram (see step 2A).

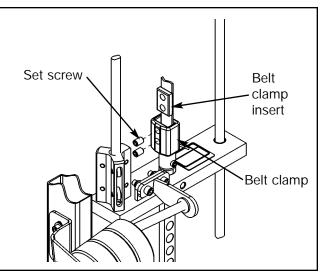


Routing Belt

5. Lift top weight up and down and verify that the belt lies flat and that it is not riding up on the pulley flange.

NOTE: Steps 6 - 10 are for replacing a belt that connects from a cam or frame sandwich clamp to top weight clamp.

- 6. Before attaching belt to top weight clamp, attach other end of belt to the sandwich clamp as stated in steps 2 and 3. NOTE: For Rotary Calf machines, clamp and route belt as shown in the belt routing diagram for the Rotary Calf. Also see step 2F on page 7-4.
- 7. Attach belt to top weight:
 - **A.** Slide belt through slot in belt clamp. NOTE: The belt must be inserted into the slot that is located directly over the stem.
 - **B.** While holding belt (and keeping it straight), insert the belt clamp insert, leaving 1 to 2 inches of belt beyond the clamp as shown in the diagram at right.
- 8. While keeping belt straight, insert each SHCS into the belt clamp and belt clamp insert, and then adjust belt (to remove slack) so that the top plate is just resting Installing Belt Clamp Insert on the second weight. Securely tighten



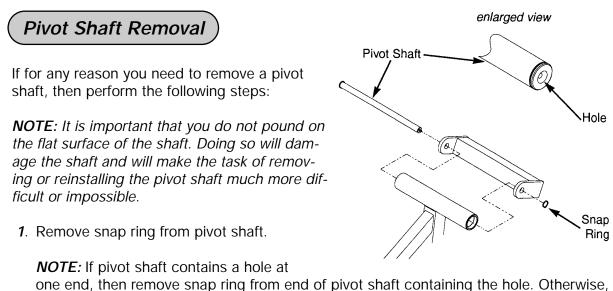
each SHCS after belt is properly adjusted. NOTE: The torque specification for tightening each screw is 400 inch pounds.

- 9. Place weight stack selector pin in each plate to verify proper installation.
- 10. Lift top weight up and down and verify that the belt lies flat and that it is not riding up on the pulley flange.

Grip Replacement

Replace worn grips.

- 1. Remove grip by carefully cutting it using a utility knife.
- 2. Spray handle with solution of warm water and mild detergent and soak grip in same solution.
- 3. Slide grip onto bar.



remove snap ring from either end (of shorter pivot shafts that do not contain a hole).

2. Using your thumb, push pivot shaft out. If pivot shaft does not slide out, then place a punch in the hole end of the pivot shaft and tap the shaft out using a rubber mallet.

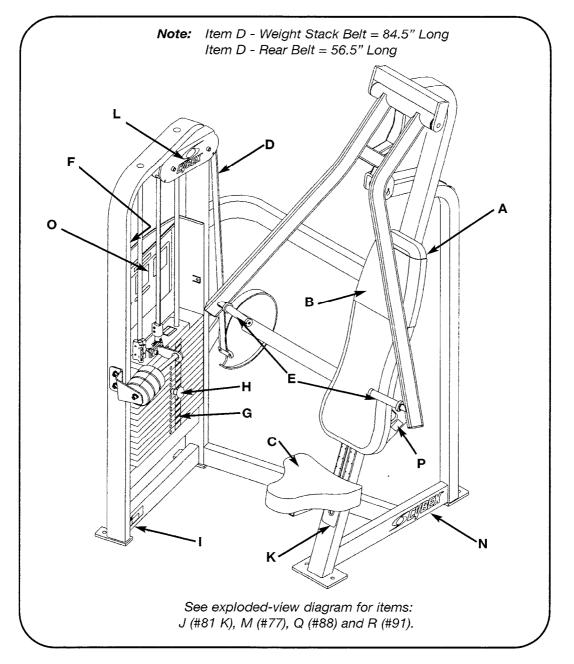
Pivot Shaft Installation

- 1. Slide pivot shaft (end with the hole) into the pivot shaft hole.
- 2. Slide pivot shaft into position. If needed, use an alignment tool, such as a punch or screw driver, place alignment tool into the hole of the pivot shaft, and slide pivot shaft into position.
- 3. Replace snap ring.

CHEST PRESS - SINGLE AXIS

PRODUCT NO. 4506

PARTS LIST



DESCRIPTION

PART NO.

 Back Cushi 	on w/Wear
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- Cover..... 4800-103
- **B.** Wear Cover..... 4800-106
- C. Seat Cushion..... 4800-026
- D. Belt GB000202
- **E.** Grip...... 4605-507
- F. Warning Decal 4605-381
- G. Weight Plate Decal 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal
- J. Caution Decal..... 4605-424

DESCRIPTION

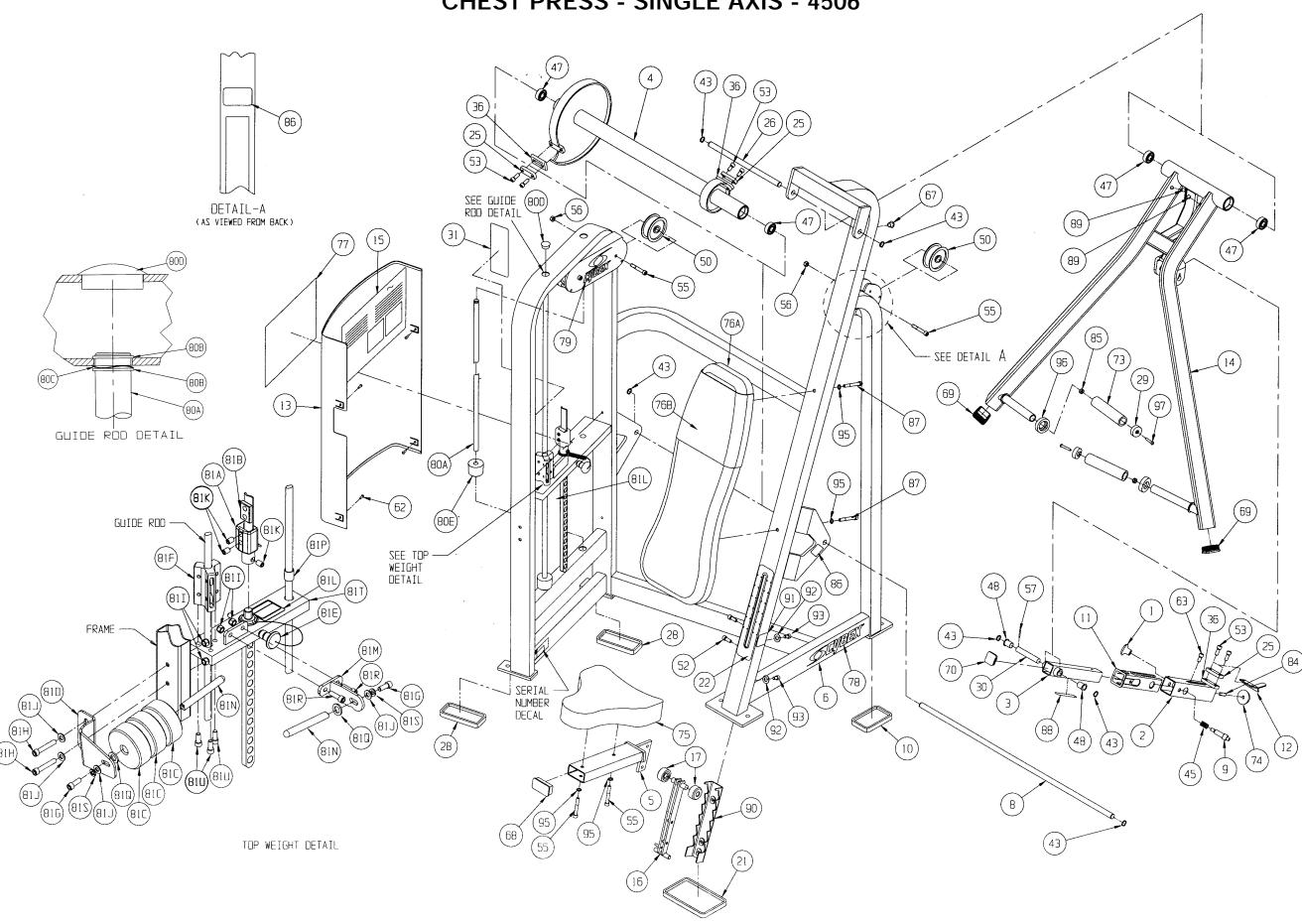
PART NO.

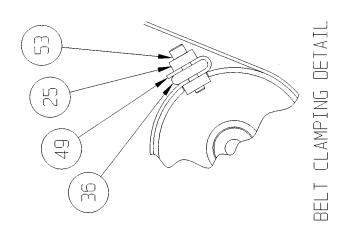
- K. Seat Adjustment Decal. 5221-316
- L. Cybex Decal Blk/Plm 3900-423
- L. Cybex Decal Wht/Wht .. 3900-424
- M. Cybex Decal Blk/Plm 3900-439
- M. Cybex Decal Wht/Wht... 3900-440
- N. Cybex Decal Blk/Plm..... 3900-390
- N. Cybex Decal Wht/Wht... 3900-415
- O. Placard Decal 4506-598
- **P**. Caution Decal4000Y316
- **Q**. Adjusting Decal 4506-313
- **R.** Caution Decal...... 4520-362

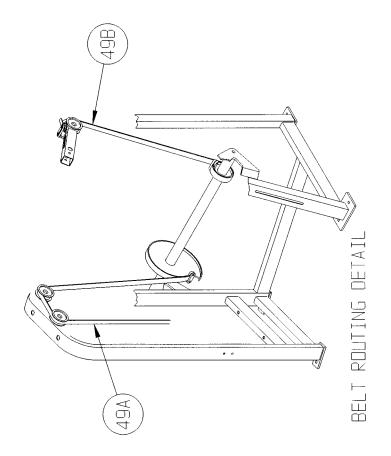
4506 - Chest Press - Single Axis

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13 14 15 16 17 18 19 20 21 22 23 24 25 3 26 27 28 2	1 4505-4 1 4506-2 1 4506-5 1 4520-2 2 4520-3 1 PR070 1 5221-3 3 4605-3 1 4605-3 2 PR070	 32 Guard 03 Arm Bearing 98 Placard Deca 12 Seat Roller 31 Roller 31 Roller Not Used Not Used 002 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13 	Housing I 0 × 7.00	77 77 78 78 78 78 78 79 79 79 79 80	1 1 1 1 1 1	3900-439 3900-440 3900-390 3900-415 3900-423	Removed 3/03 Cybex Decal 11.37 Vert. Blk/Plm Cybex Decal 11.37 Vert. Wht/Wht Removed 3/03 Cybex Decal 1.57 Horiz. Blk/Plm Cybex Decal 1.57 Horiz. Wht/Wht Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 28	1 4506-2 1 4506-5 1 4520-2 2 4520-3 1 PR070 1 5221-3 3 4605-3 1 4605-3 2 PR070	03 Arm Bearing 98 Placard Deca 12 Seat Roller 31 Roller Not Used Not Used 002 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13	u 0 × 7.00	77 77 78 78 78 78 79 79 79 79 80	1 1 1 1	3900-440 3900-390 3900-415 3900-423	Cybex Decal 11.37 Vert. Blk/Plm Cybex Decal 11.37 Vert. Wht/Wht Removed 3/03 Cybex Decal 1.57 Horiz. Blk/Plm Cybex Decal 1.57 Horiz. Wht/Wht Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
15 - 16 - 17 2 18 - 19 - 20 - 21 - 23 - 24 - 25 - 26 - 27 - 28 -	1 4506-5 1 4520-2 2 4520-3 1 PR070 1 5221-3 3 4605-3 1 4605-3 2 PR070	98 Placard Deca 12 Seat Roller 31 Roller Removed Not Used 002 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13	u 0 × 7.00	77 78 78 78 79 79 79 79 80	1 1 1 1	3900-440 3900-390 3900-415 3900-423	Cybex Decal 11.37 Vert. Wht/Wht Removed 3/03 Cybex Decal 1.57 Horiz. Blk/Plm Cybex Decal 1.57 Horiz. Wht/Wht Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
16 - 17 2 18 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 -	1 4520-2 2 4520-3 1 PR070 1 5221-3 3 4605-3 1 4605-3 2 PR070	12 Seat Roller 31 Roller Removed Not Used 002 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13	0 × 7.00	78 78 79 79 79 79 80	1 1 1	3900-390 3900-415 3900-423	Removed 3/03 Cybex Decal 1.57 Horiz. Blk/Plm Cybex Decal 1.57 Horiz. Wht/Wht Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
17 2 18 19 20 21 21 2 23 24 25 3 26 2 27 28 28 2	 2 4520-3 1 PR070 1 5221-3 3 4605-3 1 4605-3 2 PR070 	 31 Roller Removed Not Used Not Used 002 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13 		78 78 79 79 79 79 80	1 1 1	3900-390 3900-415 3900-423	Removed 3/03 Cybex Decal 1.57 Horiz. Blk/Plm Cybex Decal 1.57 Horiz. Wht/Wht Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
18 19 20 21 22 23 24 25 3 26 1 27 28 2	1 PR070 1 5221-3 3 4605-3 1 4605-3 2 PR070	Removed Not Used Not Used 202 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 20 Belt Clamp 34 Pivot Shaft 13		78 78 79 79 79 79 80	1 1 1	3900-415 3900-423	Cybex Decal 1.57 Horiz. Blk/Plm Cybex Decal 1.57 Horiz. Wht/Wht Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
19 20 21 22 23 24 25 26 27 28 28 22	1 5221-3 3 4605-3 1 4605-3 2 PR070	Not Used Not Used 202 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 20 Belt Clamp 34 Pivot Shaft 13		78 79 79 79 79 80	1 1 1	3900-415 3900-423	Cybex Decal 1.57 Horiz. Wht/Wht Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
20 21 22 23 24 25 26 27 28 28 22	1 5221-3 3 4605-3 1 4605-3 2 PR070	Not Used 502 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 50 Belt Clamp 34 Pivot Shaft 13		79 79 79 80	1 1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
21 - 22 - 23 - 24 - 25 - 32 - 26 - 12 - 27 - 28 - 22 - 28 - 2	1 5221-3 3 4605-3 1 4605-3 2 PR070	002 Foot Pad 4.00 16 Seat Adjustm Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13		79 79 80	1		Cybex Decal 4.85 Vert. Wht/Wht Removed 3/03
22 - 23 24 25 3 26 - 27 28 2	1 5221-3 3 4605-3 1 4605-3 2 PR070	16 Seat Adjustm Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13		79 80		3900-424	Removed 3/03
23 24 25 3 26 ⁴ 27 28 2	3 4605-3 1 4605-3 2 PR070	Not Used Not Used 00 Belt Clamp 34 Pivot Shaft 13	ient Decal	80	-1		
24 25 3 26 7 27 28 2	1 4605-3 2 PR070	Not Used 00 Belt Clamp 34 Pivot Shaft 13				4701-021	Majort Charle Cuida Dad Cat
25 3 26 7 27 28 2	1 4605-3 2 PR070	00 Belt Clamp 34 Pivot Shaft 13			2	4505-319	Weight Stack Guide Rod Set
26 1 27 28 2	1 4605-3 2 PR070	34 Pivot Shaft 1:		80 B	4	BR030214	Weight Stack Guid Rod Retaining Ring .625
27 28 2	2 PR070		3.06	80 C	2	HS407100	Spring Washer .65 x .79 x .062 T
28 2		Not Used	0.00	80 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G
			0 x 5 25	80 E	2	PR060005	Weight Bumper
29 2	2 11090-			81	1	4701-031	Sliding Increment Weight Set
	1 4605-3		.06	81 A	1	11040-216	Belt Clamp
1	1 4605-3			81 B	1	11040-301	Belt Clamp Insert
32		Not Used		81 C	3	4605-390	Increment Weight
33		Not Used		81 D	-		Removed 3/03
34 1	1 4605-3	88 Weight Plate	Decal 10-290	81 E	1	BH030207	Weight Selector Pin
35		Not Used		81 F	1	4701-001	Top Weight Guide
	3 4605-3	94 Belt Clamp		81 G	2	HC702817	SHCS .375-16 x 1.00
37		Not Used		81 H	2	HC702828	SHCS .375-16 x 2.25
38		Not Used		81	4	HN704901	Nylon Locknut .375-16
39		Not Used		81 J	4	HS347600	Washer, SAE .375
	1 4701-3		Stack Instr. (not shown)	81 K	3	HY740000	Set Screw
41		Not Used		81 L	1	4605-424	Caution Decal
42		Not Used		81 M	1	4700-240	Weight Mount
1	6 BR030	J	g 17 mm	81 N	2	4700-318	Increment Weight Rod
44		Not Used		81 0	1	4700-319	Frame Mount Increment Weight
	1 BS070	1 0	56 x .66 x 1.50 L	81 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
46		Not Used		81 Q	2	4700-321	Rubber Washer
1	4 FB030		g 17 mm ID (Ext Race)	81 R	2	JC702820	SHCS .375-16 x 1.25
	2 FB130		ig 17mm x19mm x 25mm		2	HS348300	Split Lockwasher .375
1	1.5" GB000	5	Belt .95" Wide	81 T	1	4700-238	Top Weight
1	3.5" GB000			81 U	3	HC702816	SHCS .375-16 x .875
50 3 51	3 GP000	-	Dły 3.50	82	1	51198	Strength Warranty Sheet (not shown)
	2 HC702	Not Used 817 SHCS .375-1	e v 1 00	83	4		Not Used
	6 HC702			84	1	HP707017	Stud .375-16 x 1.00
54	0 110702	Not Used	6 X 1.50	85 86	2 2	HF449063 4000Y316	Connector Insert .75 x .25-20
	5 HC702		6 x 2 50	87	2	HC702834	Caution Decal SHCS .375-16 x 3.00
	3 HN704			88	1	4506-313	Adjusting Decal
	1 HP266			89	2	4506-313 PP080207	Plastic Insert
58		Removed		90	1	4520-213	Bracket
59		Removed		91	1	4520-362	Caution Decal
60		Not Used		92	2	HS347700	Washer USS .375
61		Not Used		93	2	JC702812	SHCS .375-16 x .50
	4 HT102		0-12 x .625 A (Phil)	94	14	4000C101	Stack Weight 4 x 18 (not shown)
	1 JC702	•		95	4	JS347400	Internal Tooth Lockwasher .375
64		Not Used		96	2	11090-376	Handle Grip Ring
65		Removed		97	2	JC620422	BHSCS .250-20 x 1.50

CHEST PRESS - SINGLE AXIS - 4506



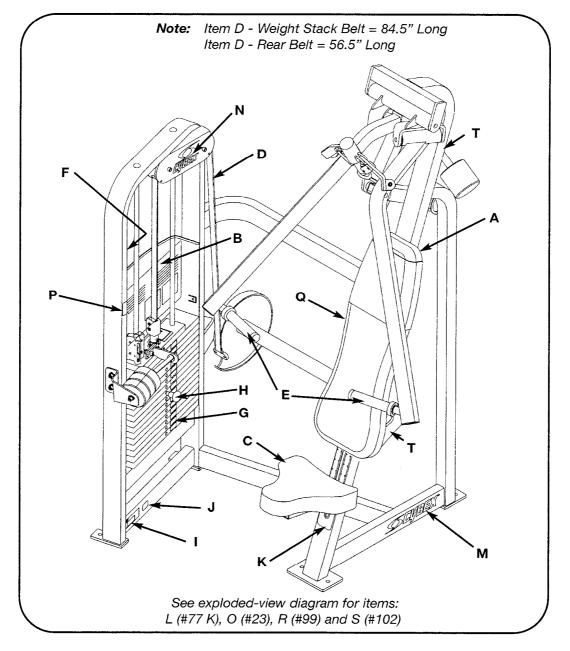




CHEST PRESS - DUAL AXIS

PRODUCT NO. 4507

PARTS LIST



DESCRIPTION

PART NO.

DESCRIPTION

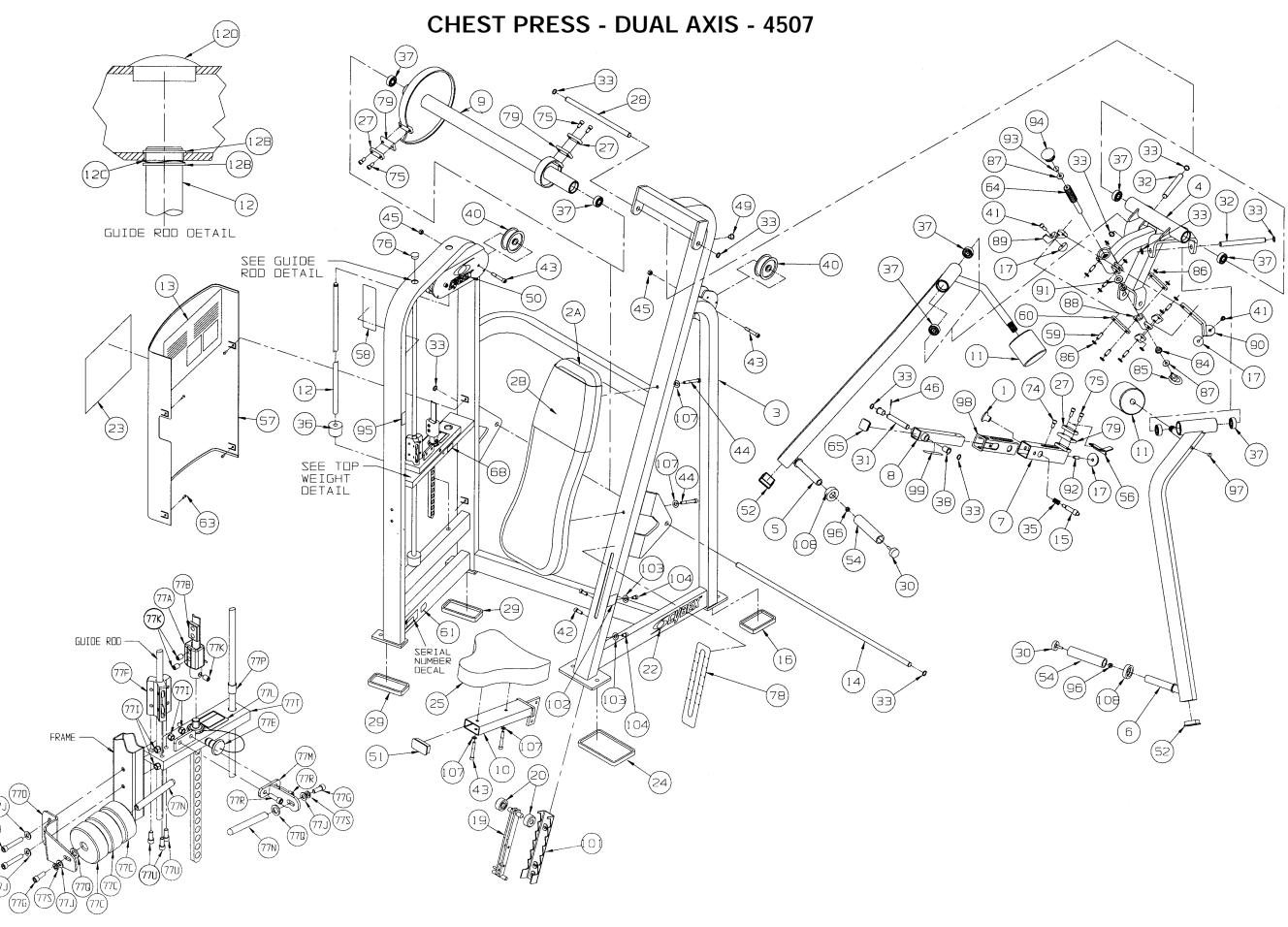
PART NO.

DESCRIPTION	PART NO.
Caution Decal	4605-424
Cybex Decal Blk/Plm	3900-390
Cybex Decal Wht/Wht	3900-415
Cybex Decal Blk/Plm	3900-423
Cybex Decal Wht/Wht	3900-424
Cybex Decal Blk/Plm	3900-439
Cybex Decal Wht/Wht	3900-440
Caution Decal	5221-319
Wear Cover (Item A)	4800-106
Adjusting Decal	4506-313
Caution Decal	4520-362
Caution Decal	.4000Y316
	Caution Decal Cybex Decal Blk/Plm Cybex Decal Wht/Wht Cybex Decal Blk/Plm Cybex Decal Wht/Wht Cybex Decal Blk/Plm Cybex Decal Wht/Wht Cution Decal Wear Cover (Item A) Adjusting Decal

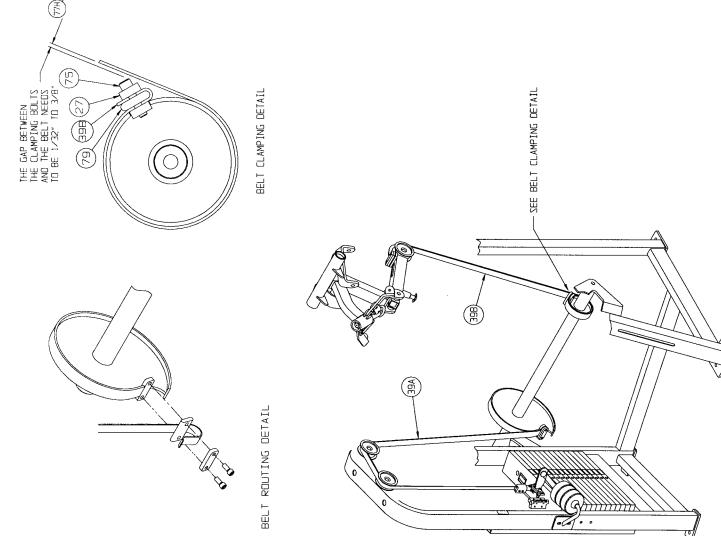
4507 - Chest Press - Dual Axis

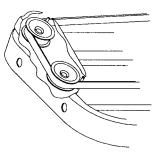
ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-440	Cybex Knob
2 A	1	4800-103	Back Cushion w/Wear Cover
2 B	1	4800-106	Wear Cover
3	1	4506-200	Frame
4	1	4507-204	Bearing Housing
5	1	4505-202	Arm (Right Hand)
6	1	4505-203	Arm (Left Hand)
7	1	4505-212	Adjusting Tube (Outer)
8	1	4506-204	Adjusting Tube (Inner)
9	1	4506-202	Cam
10	1	4505-207	Seat
11	2	4505-318	Counterweight
12	1	4701-021	Weight Stack Guide Rod Set
12 A	2	4505-319	Weight Stack Guide Rod
12 B	4	BR030214	Retaining Ring .625
12 C	2	HS407100	Spring Washer .65 x .79 x .062 T
12 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G
12 E	2	PR060005	Weight Bumper
13	1	4507-598	Placard Decal
14	1	4505-327	Pivot Shaft 35.72
15	1	4505-329	Detent Pin
16	1	PR070001	Rubber Foot Cover 4.84 x 3.09
17	3	4505-331	Bumper 1.50 Dia
18			Removed
19	1	4520-212	Seat Roller
20	2	4520-331	Roller
21			Removed
22			Removed 3/03
22	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
22	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
23			Removed 3/03
23	1	3900-439	Cybex Decal 11.37 Vert. Blk/Plm
23	1	3900-440	Cybex Decal 11.37 Vert. Wht/Wht
24	1	PR070002	Rubber Foot Cover 7.65 x 4.59
25	1	4800-026	Seat Cushion
26			Removed
27	3	4605-300	Belt Clamp
28	1	4605-334	Pivot Shaft 13.06
29	2	PR070003	Rubber Foot Cover 5.25 x 2.00
30	2	4605-550	Plug
31	1	4605-373	Pivot Shaft 4.06
32	2	5220-320	Pivot Shaft 7.06
33	10	BR030210	Retaining Ring 17 mm
34		D0070001	Not Used
35	1	BS070201	Com Spring .56 ID x .66 OD x 1.50 L
36	0	EDDDDDDD	Not Used
37	8	FB030232	Radial Bearing 17 mm ID (Ext Race)
38	2	FB130207	Flange Bearing 17 mm x 19 x 22
39 A	84.5"	GB000202	Weight Stack Belt .95" Wide
39 B	56.5"	GB000202	Rear Belt .95" Wide
40	3	GP000209	Pulley Assembly 3.50
41	2	HC702815	SHCS .375-16 x .750 Not Used
42	5	LIC700900	
43 44	5	HC702830	SHCS .375-16 x 2.50
44 45	2	HC702834	SHCS .375-16 x 3.00
45 46	1	LD266717	Not Used Roll Pin .125 x 1.00
46 47		HP266717	Roll Pin .125 x 1.00 Removed
47 48			Not Used
48 49	1	DN660201	
49 50	1 1	PN660201	Hole Plug Cybex Decal 4.85 Vert. Wht/Wht
	1	3900-423	· · ·
50	1	3900-424	Cybex Decal 4.85 Vert. Blk/Pim
50 51	-		Removed 3/03
51	1	PP090202	Plastic Insert 1.50 x 3.00 x 11 G
52	2	PP090210	Plastic Insert 2.00 Sq x 10-14 G
53 54	0	1605 500	Removed
54 55	2	4605-500	Grip
55	1	51198 4505-335	Strength Warranty Sheet (not shown) Belt Stop Plate
			DEED AND DECEMPENDED
56 57	1 1	4505-432	Guard

ITEM	QTY	PART NO.	DESCRIPTION
59 60	6 4	4507-301 4507-302	Pin Link Bar
61	4	4007-002	Removed
62			Not Used
63	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
64	1	4507-306	Adjustment Screw
65 66	1	PP090211	Plastic Cap 1.625 ID Not Used
67			Not Used
68	1	4605-388	Weight Plate Decal 10 - 290
69			Not Used
70 71			Removed Not Used
72			Not Used
73			Not Used
74	1	JC702814	SHCS .375-16 x .625
75 76	6	HC702822	SHCS .375-16 x 1.50 Not Used
77	1	4701-031	Sliding Increment Weight Set
77 A	1	11040-216	Belt Clamp
77 B	1	11040-301	Belt Clamp Insert
77 C	3	4605-390	Increment Weight
77 D 77 E	1	BH030207	Removed 3/03 Weight Selector Pin
77 F		FB130208	Bearing Sleeve .68 x .81 1.00 L
77 G		HC702817	SHCS .375-16 x 1.00
77 H		HC702828	SHCS .375-16 x 2.25
771	4	HN704901	Nylon Locknut .375-16
77 J 77 K	4 3	HS347600 HY740000	Washer, SAE .375 Set Screw
77 L	1	4605-424	Caution Decal
77 M		4700-240	Weight Mount
77 N		4700-318	Increment Weight Rod
77 O 77 P	1 1	4700-319 4701-001	Frame Mount Increment Weight Top Weight Guide
77 Q	2	4700-321	Rubber Washer
77 R	2	JC702820	SHCS .375-16 x 1.25
77 S	2	HS348300	Split Lockwasher .375
77 T 77 U	1 3	4700-238 HC702816	Top Weight SHCS .375-16 x .875
78	1	5221-316	Seat Adjustment Decal
79	3	4605-394	Belt Clamp
80			Not Used
81			Not Used Removed 5/99
82 83			Not Used
84	2	FB130212	Flange Bearing .75 x .88 x .75 L
85	1	PP460012	Textured Knob .375-16 (male)
86 87	12 2	08017 HS347700	Retaining Ring .375 Washer .375 USS
88	1	4507-201	Slide
89	1	4507-202	Stop (RH)
90	1	4507-203	Stop (LH)
91	1	4507-310	Flat Washer .647 x 1.250 x .105 T Stud .375-16 x 1.00 L
92 93	1	HP707017 JC700914	FHSCS .375-16 x .62
94	1	PP090208	Plastic Insert
95	1	5221-319	Caution Decal
96	2	HF449063	Connector Insert .75 x .25-20
97 98	2 1	PP080207 4605-512	Plastic Insert .437 Dia x 11 G Plastic Insert
99	1	4506-313	Adjusting Decal
100	1	4701-302	VR2 Weight Stack Instr. (not shown)
101	1	4520-213	Bracket
102 103	1 2	4520-362 HS347700	Caution Decal Washer USS .375
103	2	JC702812	SHCS .375-16 x .50
105	14	4000C101	Stack Weight 4 x 18 (not shown)
106	2	4000Y316	Caution Decal
107 108	4 2	JS347400 11090-376	Internal Tooth Lockwasher .375 Handle Grip Ring
	<u>د</u>	11000-070	



TOP WEIGHT DETAIL

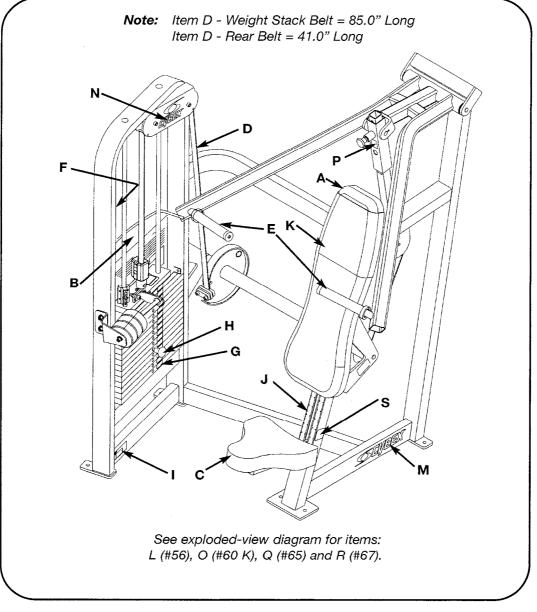




INCLINE PRESS - SINGLE AXIS

PRODUCT NO. 4511

PARTS LIST



DESCRIPTION

PART NO.

DESCRIPTION

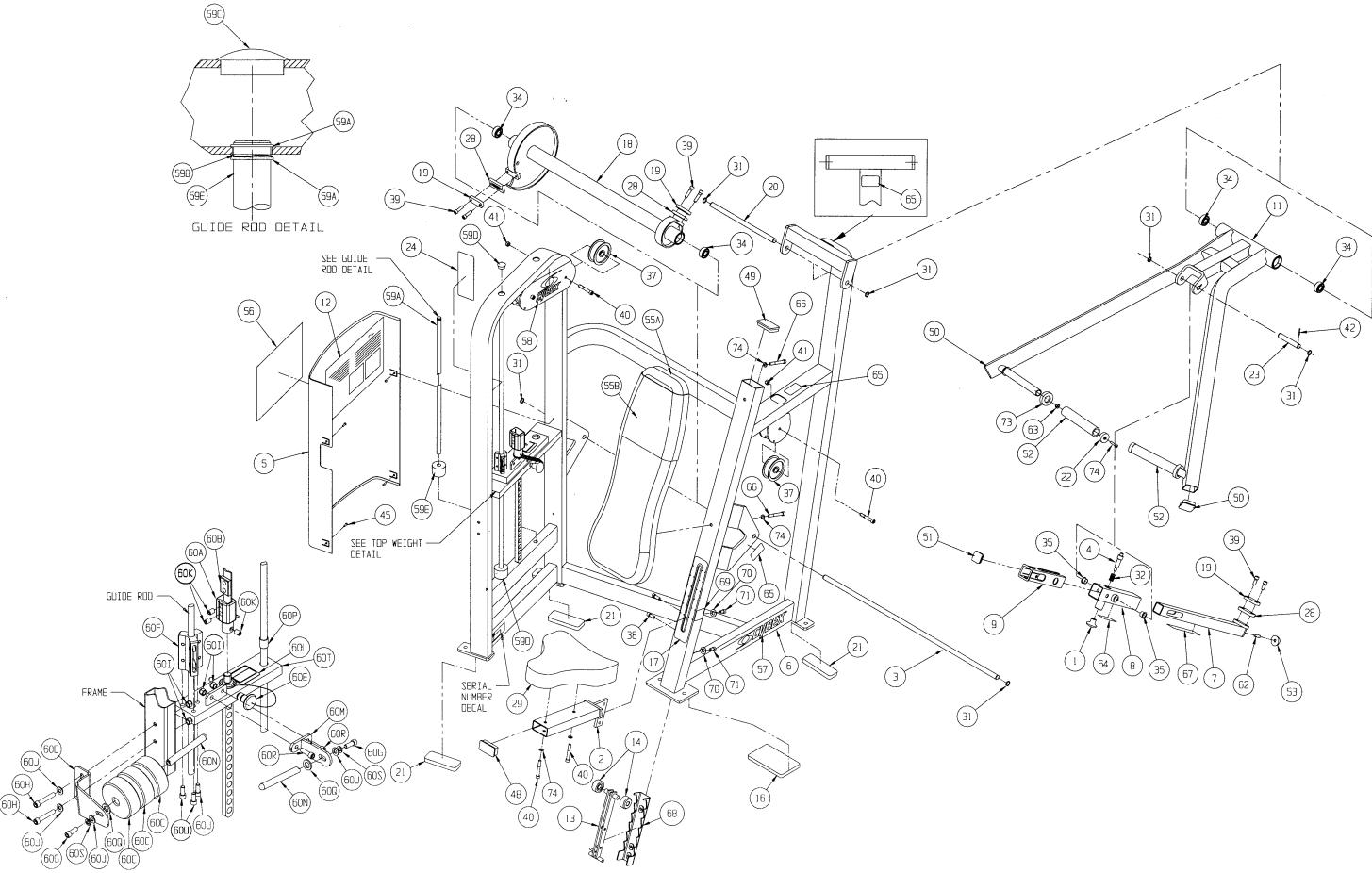
PART NO.

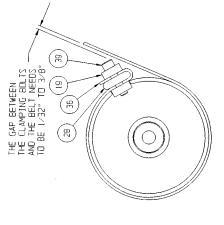
- I. Serial Number Decal
- J. Seat Adjustment Decal. 5221-316
- **K.** Wear Cover 4800-092

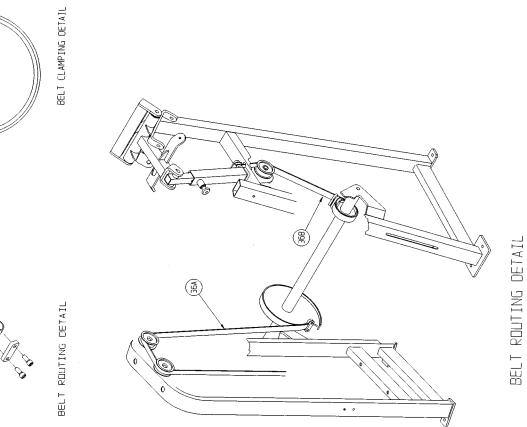
4511 - Incline Press - Single Axis

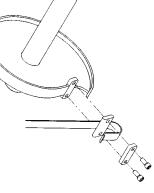
ITEM	QTY	PART NO.	DESCRIPTION	[r	TEM	QTY	PART NO.	DESCRIPTION
1	1	11040-440	Cybex Knob		55 A	1	4800-009	Back Cushion w/Wear Cover
2	1	4505-207	Seat		55 B	1	4800-092	Wear Cover
3	1	4505-327	Pivot Shaft 35.72		56			Removed 3/03
4	1	4505-329	Detent Pin		56	1	3900-439	Cybex Decal 11.37 Vert. Blk/Plm
5	1	4505-432	Guard		56	1	3900-440	Cybex Decal 11.37 Vert. Wht/Wht
6	1	4511-201	Frame		57			Removed 3/03
7	1	4511-203	Adjusting Tube (inner)		57	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
8	1	4510-205	Adjusting Tube (outer)		57	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
9	1	4605-512	Plastic Insert 7.94		58	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
10			Not Used		58	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht
11	1	4511-200	Pivot		58		1701 001	Removed 3/03
12	1	4511-598	Placard Decal		59	1	4701-021	Weight Stack Guide Rod Set
13	1	4520-212	Seat Roller		59 A	2	4505-319	Weight Stack Guide Rod
14	2	4520-331	Roller		59 B	4	BR030214	Retaining Ring .624
15	4	00070000	Removed		59 C	2	HS407100	Spring Washer .65 x .79 x .062T
16 17	1	PR070002	Foot Pad 4.00 x 7.00		59 D 59 E	2	PN660200	Plastic Insert 1.00 Dia 11 G
	1	5221-316	Seat Adjustment Decal			2 1	PR060005	Weight Bumper
18 19	3	4511-202	Cam Beit Clamp		60 60 A	1	4701-031	Sliding Increment Weight Set
20	1	4605-300 4605-334	Pivot Shaft 13.06		60 A 60 B	1	11040-216 11040-301	Belt Clamp
21	3	PR070003	Foot Pad 4.00 x 5.25		60 C	3	4605-390	Belt Clamp Insert Increment Weight
22	2	11090-374	Plug .250-20		60 D	3	4005-590	Removed 3/03
23	1	4605-373	Pivot Shaft 4.06		60 E	1	BH030207	Weight Selector Pin
24	1	4605-381	Warning Decal		60 E	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
25	•	4000 001	Not Used		60 G	2	HC702817	SHCS .375-16 x 1.00
26			Not Used		60 H	2	HC702828	SHCS .375-16 x 2.25
27	1	4605-388	Weight Plate Decal 10-290		60 I	4	HN704901	Nylon Locknut .375-16
28	3	4605-394	Belt Clamp		60 J	4	HS347600	Washer, SAE .375
29	1	4800-026	Seat Cushion		60 K	1	HY740000	Set Screw
30	1	4701-302	VR2 Weight Stack Instr. (not shown)		60 L	1	4605-424	Caution Decal
31	6	BR030210	Retaining Ring (17 mm)		60 M	1	4700-240	Weight Mount
32	1	BS070201	Com Spring .56 x .66 x 1.50 L		60 N	2	4700-318	Increment Weight Rod
33			Removed		60 O	1	4700-319	Frame Mount Increment Weight
34	4	FB030232	Radial Bearing 17 mm ID (Ext Race)		60 P	1	4701-001	Top Weight Guide
35	2	FB130211	Flange Bearing 17 mm x 19 mm x 12 mm		60 Q	2	4700-321	Rubber Washer
36 A		GB000202	Weight Stack Belt .95 Wide		60 R	2	JC702820	SHCS .375-16 x 1.25
36 B	41.0"	GB000202	Rear Belt .95 Wide		60 S	2	HS348300	Split Lockwasher .375
37	3	GB000209	Pulley Assembly 3.50		60 T	1	4700-238	Top Weight
38	2	HC702817	SHCS .375-16 x 1.00		60 U	3	HC702816	SHCS .375-16 x .875
39	6	HC702822	SHCS .375-16 x 1.50		61	1	51198	Strength Warranty Sheet (not shown)
40	7	HC702830	SHCS .375-16 x 2.50		62	1	HP707017	Stud .375-16 x 1.00
41	3	HN704901	Locknut .375-16 Nylon		63	2	HF449063	Connector Insert .75 x .25-20
42	1	HP266717	Spiral Pin .125 x 1.00		64	1	4510-321	Caution Decal
43			Removed		65	3	4000Y316	Caution Decal
44			Removed		66	2	HC702834	SHCS .375-16 x 3.00
45	4	HT102214	Tap Screw #10-12 x .625 A (Phil)		67	1	4511-309	Adjusting Decal
46		11170 4000	Not Used		68	1	4520-213	Bracket
47	4	HN784000	Hex Nut .500-13		69 70	1	4520-362	Caution Decal
48	1	PP090202	Plastic Insert 1.50 x 3.00 11 G		70 71	2	HS347700	Washer USS .375
49 50	1	PP090206	Plastic Insert		71	2	JC702812	SHCS .375-16 x .50
50 51	2	PP090210	Plastic Insert 2.00 sq x 10-14 G		72 72	14	4000C101	Stack Weight 4 x 18 (not shown)
51	1	PP090211	Plastic Insert 1.50 sq x 10-14 G		73 74	2	11090-374	Handle Grip Ring
52	2	4605-516	Grip 7.75 L Bumper 1 50 Die		74 75	4	JS347400	Internal Tooth Lockwasher .375
53 54	1	4505-331	Bumper 1.50 Dia Not Used		75	2	JC620422	BHSCS .250-20 x 1.50
54				L				

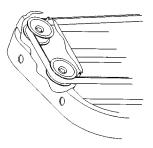
INCLINE PRESS - SINGLE AXIS - 4511







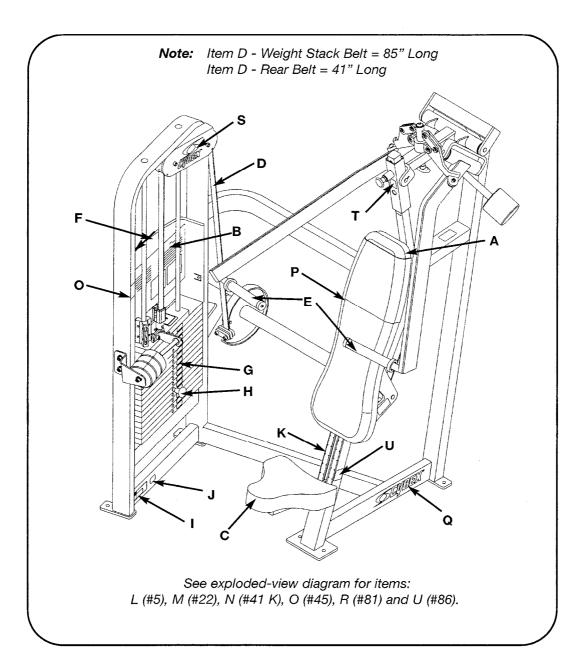




INCLINE PRESS - DUAL AXIS

PRODUCT NO. 4512

PARTS LIST



DESCRIPTION

PART NO.

Α.	Back	Cushion	with/Wear

- Cover 4800-103
- B. Placard Decal...... 4512-598
- C. Seat Cushion 4800-026
- D. Belt GB000202
- **E.** Grip 6" Long 4605-500
- F. Warning Decal..... 4605-381
- G. Weight Plate Decal...... 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal
- J. Patent Decal..... CM000211
- K. Seat Adjustment Decal...5221-316
- L. Caution Decal 4000Y316

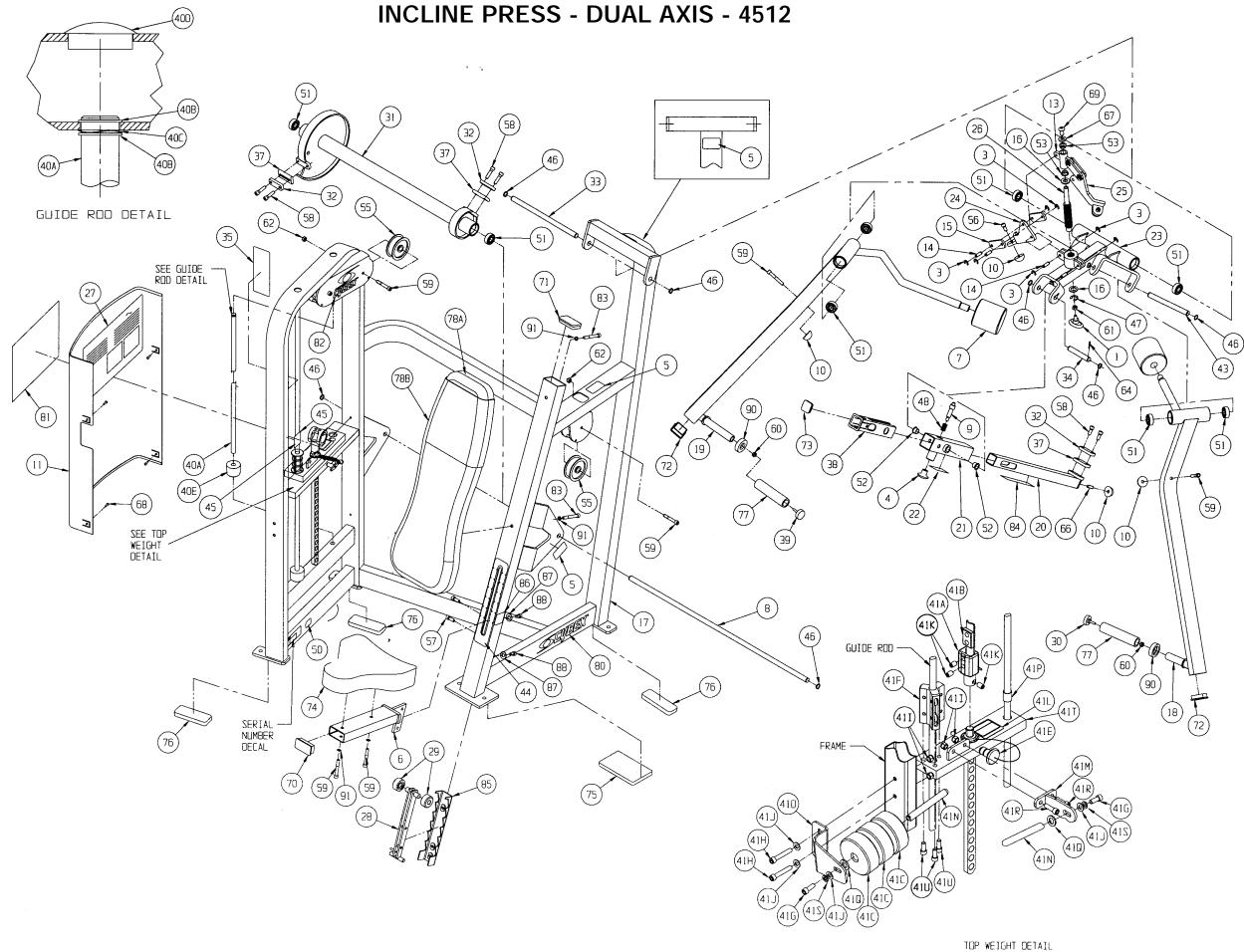
DESCRIPTION

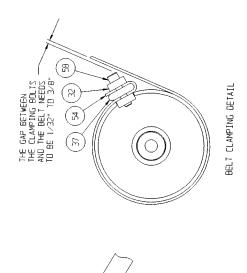
PART NO.

M. Caution Decal 4510-321 N. Caution Decal 4605-424 O. Caution Decal 5221-319 P. Wear Cover 4800-106 Q. Cybex Decal Blk/Plm 3900-390 Q. Cybex Decal Wht/Wht .. 3900-415 R. Cybex Decal Blk/Plm 3900-391 R. Cybex Decal Wht/Wht... 3900-419 S. Cybex Decal Blk/Plm 3900-423 S. Cybex Decal Wht/Wht .. 3900-424 T. Adjusting Decal 4511-309 U. Caution Decal..... 4520-362

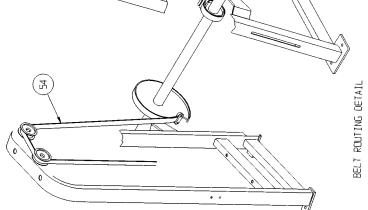
4512 - Incline Press - Dual Axis

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	PP460012	Knob	41 R	2	JC702820	SHCS .375-16 x 1.25
2			Removed	41 S	2	HS348300	Split Lockwasher .375
3	12	08017	Retaining Ring .375	41 T	1	4700-238	Top Weight
4	1	11040-440	Cybex Knob	41 U	2	HC702816	SHCS .375-16 x .875
5	3	4000Y316	Caution Decal	41	1	4701-302	VR2 Weight Stack Instr (not shown)
6	1	4505-207	Seat	43	2	5220-320	Pivot Shaft 7.06
7	2	4505-318	Counterweight	44	1	5221-316	Seat Adjustment Decal
8	1	4505-327	Pivot Shaft 35.72	45	1	5221-319	Caution Decal
9	1	4505-329	Detent Pin	46	10	BR030210	Retaining Ring 17mm
10	5	4505-331	Bumper 1.50 Dia	47	1	BR030217	Retaining Ring .750 Ext
11	1	4505-432	Guard	48	1	BS070201	
12	1	51198		49	I	B3070201	Com Spring .56 x .66 x 1.50 L
13	1		Strenght Warranty Sheet (not shown)		4		Removed
		4507-201	Slide	50	1		Removed
14	6	4507-301	Pin	51	8	FB030232	Radial Brg 17 mm ID Ext Race
15	4	4507-302	Link Bar	52	2	FB130211	Flange Brg17 mm x 19 mm 12 mm
16	2	4507-310	Flat Washer .647 x 1.25 x .105 T	53	2	FB130212	Flange Brg
17	1	4511-201	Frame	54 A	85.0"	GB000202	Weight Stack Belt .95 wide
18	1	4510-202	Arm (Left Hand)	54 B	41.0"	GB000202	Rear Belt .95 wide
19	1	4510-203	Arm (Right Hand)	55	3	GP000209	Pulley Assembly 3.50
20	1	4511-203	Adjusting Tube (Inner)	56	2	HC702815	SHCS .375-16 x .750
21	1	4510-205	Adjusting Tube (Outer)	57	2	HC702817	SHCS .375-16 x 1.00
22	1	4510-321	Caution Decal	58	6	HC702822	SHCS .375-16 x 1.50
23	1	4512-201	Bearing Housing	59	7	HC702830	SHCS .375-16 x 2.50
24	1	4512-203	Stop (Right Hand)	60	2	HF449063	Connector Insert .75 x .25-20
25	1	4512-204	Stop (Left Hand)	61	1	HN704000	Hex Nut .375-16
26	1	4512-204	Adjustment Screw	62	3	HN704000	
27	1	4512-598	-	63	1		Nylon Locknut .375-16
28	1		Placard Decal	64		HN784000	Hex Nut .500-13
		4520-212	Seat Roller		1	HP266717	Spiral Pin .125 x 1.00
29	2	4520-331	Roller	65			Removed
30			Removed	66	1	HP707017	Stud .375-16 x 1.00
31	1	4511-202	Cam	67	1	HS387700	Washer .375 SAE
32	3	4605-300	Belt Clamp	68	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
33	. 1	4605-334	Pivot Shaft 13.06	69	1	JC780417	BHSCS .500-13 x 1.00
34	1	4605-373	Pivot Shaft 4.06	70	1	PP090202	Plastic Insert 1.5 x 3.0 11 G
35	1	4605-381	Warning Decal	71	1	PP090206	Plastic Insert
36	1	4605-388	Weight Plate Decal 10-290	72	2	PP090210	Plastic Insert 2.00 Sq x 10-14 G
37	3	4605-394	Belt Clamp	73	1	PP090211	Plastic Insert 1.50 Sq x 10-14 G
38	1	4605-512	Plastic Insert 7.94	74	1	4800-026	Seat Cushion
39	2	4605-550	Plug .250-20 large	75	1	PR070002	Foot Pad 4.00 x 7.00
40	1	4701-021	Weight Stack Guide Rod Set	76	3	PR070003	Foot Pad 2.00 x 5.25
40 A	2	4505-319	Weight Stack Guide Rod	77	2	4605-500	Grip 6" Long
40 B	4	BR030214	Retaining Ring .625	78 A	1	4800-009	Back Cushion w/Wear Cover
40 C	2	HS407100	Spring Washer .65 x .79 x .062T	78 B	1	4800-092	Wear Cover
40 D	2	PN660200	Plastic Insert 1.00 Dia 11G	79	•	1000 002	Not Used
40 E	2	PR060005	Weight Bumper	80			Removed 3/03
41	1	4701-031	Sliding Increment Weight Set	80	1	3900-390	
41 A	1			80	1		Cybex Decal 1.57 Horiz. Blk/Plm
41 A 41 B	1	11040-216 11040-301	Belt Clamp		1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
			Belt Clamp Insert	81		0000 001	Removed 3/03
41 C	3	4605-390	Increment Weight	81	1	3900-391	Cybex Decal 11.37 Horiz. Blk/Plm
41 D			Removed 3/03	81	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
41 E	1	BH030207	Weight Selector Pin	82	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
41 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L	82	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht
41 G	4	HC702817	SHCS .375-16 x 1.00	82			Removed 3/03
41 H	2	HC702828	SHCS .375-16 x 2.25	83	2	HC702834	SHCS .375-16 x 3.00
411	4	HN704901	Nylon Locknut .375-16	84	1	4511-309	Adjusting Decal
41 J	4	HS347600	Washer, SAE .375	85	1	4520-213	Bracket
41 K	3	HY740000	Set Screw .375-16 x .25 Cup Pt	86	1	4520-362	Caution Decal
41 L	1	4605-424	Caution Decal	87	2	HS347700	Washer USS .375
41 M	1	4700-240	Weight Mount	88	2	JC702812	SHCS .375-16 x .50
41 N	2	4700-318	Increment Weight Rod	89	14	4000C101	Stack Weight 4 x 18
41 0	1	4700-319	Frame Mount Increment Weight	90	2	11090-376	Handle Grip Ring
41 P	2	4701-001	Top Weight Guide	90	3		Lockwasher Int Tooth .375
	2		, , ,	50	3	JS347400	LOCKWASHER INT TOOTH .375
41 Q	۷	4700-321	Rubber Washer	L			

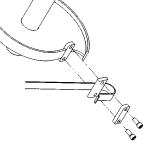


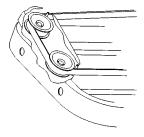


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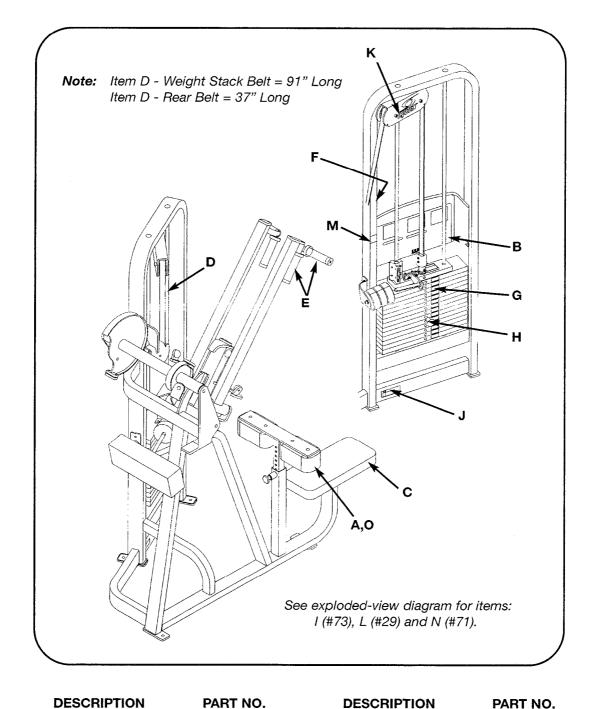




PULLDOWN - DUAL AXIS

PRODUCT NO. 4515

PARTS LIST



DESCRIPTION

PART NO.

Α.	Thigh Cushion w/Wear	
	Cover	4800-071
B.	Placard Decal	4515-331
C.	Seat Cushion	4800-024
D.	Belt	GB000202
E.	Grip 5" Long	4605-501
F.	Warning Decal	4605-381
G.	Weight Plate Decal	4605-388
H.	Weight Selector Pin	BH030207

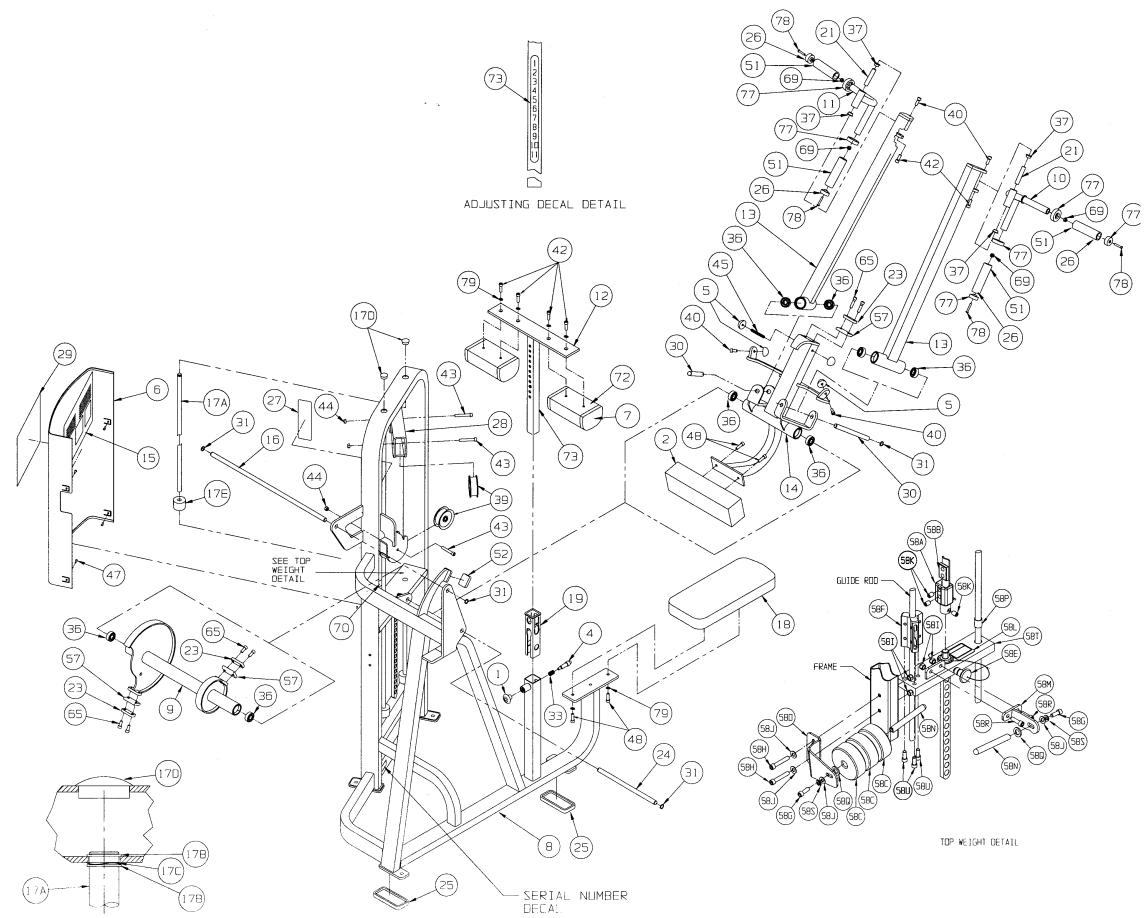
DESCRIPTION

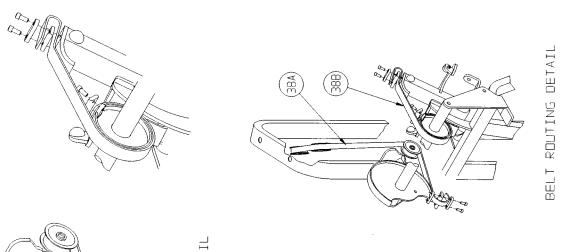
- I. Adjusting Knee Decal.... 4810-310
- J. Serial Number Decal
- K. Cybex Decal Blk/Plm 3900-423
- K. Cybex Decal Wht/Wht... 3900-424
- L. Cybex Decal Blk/Plm 3900-391
- L. Cybex Decal Wht/Wht... 3900-419
- M. Caution Decal 5221-319
- N. Caution Decal 4605-424
- **O.** Wear Cover 4800-101

4515 - Pulldown - Dual Axis

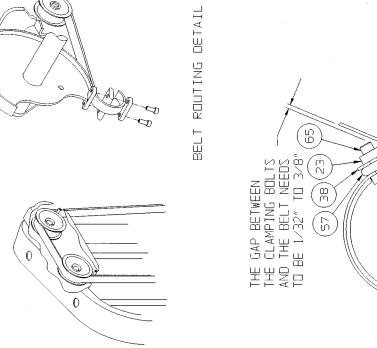
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-440	Cybex Knob	46			Not Used
2	1	ZC000001	Counterweight	47	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
3			Removed 8/98	48	4	JC702820	SHCS .375-16 x 1.25
4	1	4605-322	Detent Pin	49			Removed 8/98
5	4	4505-331	Bumper 1.50 Dia	50			Not Used
6	1	4505-432	Guard	51	4	4605-501	Grip 5" long
7	2	4800-071	Thigh Cushion w/Wear Cover	52	1	PU060203	Bumper
8	1	4515-200	Frame	53			Not Used
9	1	4515-201	Cam	54			Not Used
10	1	4515-202	Handle (Left Hand)	55			Not Used
11	1	4515-203	Handle (Right Hand)	56			Not Used
12	1	4515-207	Seat Post	57	3	4605-394	Belt Clamp
13	2	4515-205	Arm	58	1	4701-030	Sliding Increment Weight Set
14	1	4515-206	Bearing Housing	58 A	1	11040-216	Belt Clamp
15	1	4515-331	Placard Decal	58 B	1	11040-301	Belt Clamp Insert
16	1	4515-327	Pivot Shaft 26.06	58 C	3	4605-390	Increment Weight
17	1	4701-021	Guide Rod Set - 51"	58 D	1	BH030207	Weight Selector Pin
17 A	2	4505-319	Weight Rod .625 Dia x 51"	58 E	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
17 B	4	BR030214	Retaining Ring .625	58 F	2	HC702817	SHCS .375-16 x 1.00
17 C	2	HS407100	Spring Washer .65 x .79 x .062T	58 G	2	HC702828	SHCS .375-16 x 2.25
17 D	2	PN660200	Plastic Insert 1.00 Dia 11G	58 H	4	HN704901	Nylon Locknut .375-16
17 E	2	PR060005	Weight Bumper	58	4	HS347600	Washer, SAE .375
18	1	4800-024	Seat Cushion	58 J	1	HY740000	Set Screw
19	1	4605-512	Plastic Insert 7.94	58 K	1	4605-424	Caution Decal
20			Removed 8/98	58 L	1	4700-240	Weight Mount
21	2	4535-328	Pivot Pin (Short)	58 M	2	4700-318	Increment Weight Rod
22			Removed	58 N	1	4700-319	Frame Mount Increment Weight
23	3	4605-300	Belt Clamp	58 O	2	4701-001	Top Weight Guide
24	1	4605-334	Pivot Shaft 13.06	58 P	2	4700-321	Rubber Washer
25	4	PR070003	Foot Pad 2.00 x 5.25	58 Q	2	JC702820	SHCS .375-16 x 1.25
26	2	11090-374	End Cap	58 R	2	HS348300	Split Lockwasher .375
27	1	4605-381	Warning Decal	58 S	1	4700-239	Top Weight
28	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm	58 T	3	HC702816	SHCS .375-16 x .875
28	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht	59			Not Used
28			Removed 3/03	60			Not Used
29			Removed 3/03	61	1	BH030206	Weight Selector Pin
29	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	62			Not Used
29	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	63			Not Used
30	2	5220-320	Pivot Shaft 7.06	64	0	110700000	Not Used
31	8	BR030210	Retaining Ring 17 mm	65	6	HC702822	SHCS .375-16 x 1.50
32	-	D0070001	Not Used	66		4701 000	Removed
33	1	BS070201	Com. Spring .56 ID x .66 OD x 1.50 L	67	1	4701-302	VR2 Weight Stack Instr. (not shown)
34 25			Not Used	68	1	51198	Strength Warranty Sheet (not shown)
35	~	5000000	Removed 5/99	69	4	HF449063	Tube Insert
36	8	FB030232	Radial Bearing 17 mm ID (Ext Race)	70	1	5221-319	Caution Decal
37	4	FB130205	Flange Bearing .62 x .75 x .38 L	71	~	4000 401	Not Used
38 A 38 B	91" 37"	GB000202	Weight Stack Belt .95" Wide	72	2	4800-101	Wear Cover
38 B 39		GB000202 GP000209	Input Arm Belt .95" Wide	73	1	4810-310	Adjusting Knee Decal
	3		Pulley Assembly 3.50	74	14	4000C101	Stack Weight 4×18 (not shown)
40	4	HC702815	SHCS .375-16 x .750 Removed 8/98	75	4	JS347400	Lockwasher Int Tooth
41 42	6	HC702817		76	1	4605-388	Weight Plate Decal (not shown) Handle Grip Ring
42	6		SHCS .375-16 x 1.00	77	2	11090-376	
43 44	3	HC702830	SHCS .375-16 x 2.50	78	4	JC620422	BHSCS .250-20 x 1.50
	5 1	HN704901 HP707038	Nylon Locknut .375-16 Stud .375-16 x 3.50	79	6	JS347400	Internal Lockwasher .375
45							1

PULLDOWN - DUAL AXIS - 4515





DETAIL



BELT ROUTING

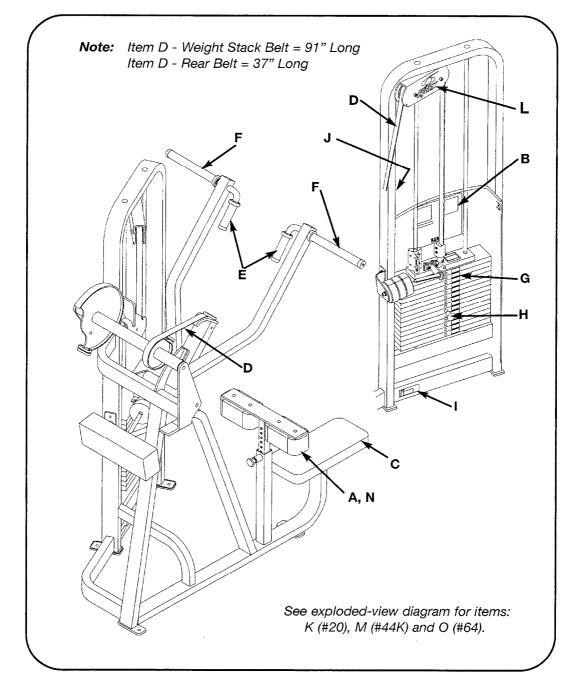
BELT CLAMPING DETAIL

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LAT PULLDOWN - SINGLE AXIS

PRODUCT NO. 4516

PARTS LIST



DESCRIPTION

PART NO.

Α.	Thigh Cushion w/Wear	
	Cover	4800-071
В.	Placard Decal	4516-598
C.	Seat Cushion	4800-024
D.	Belt	GB000202
Ε.	Grip 4.5" Long	4605-514
F.	Grip 11.5" Long	4605-517
G.	Weight Plate Decal	4605-388

H. Weight Selector Pin..... BH030207

DESCRIPTION

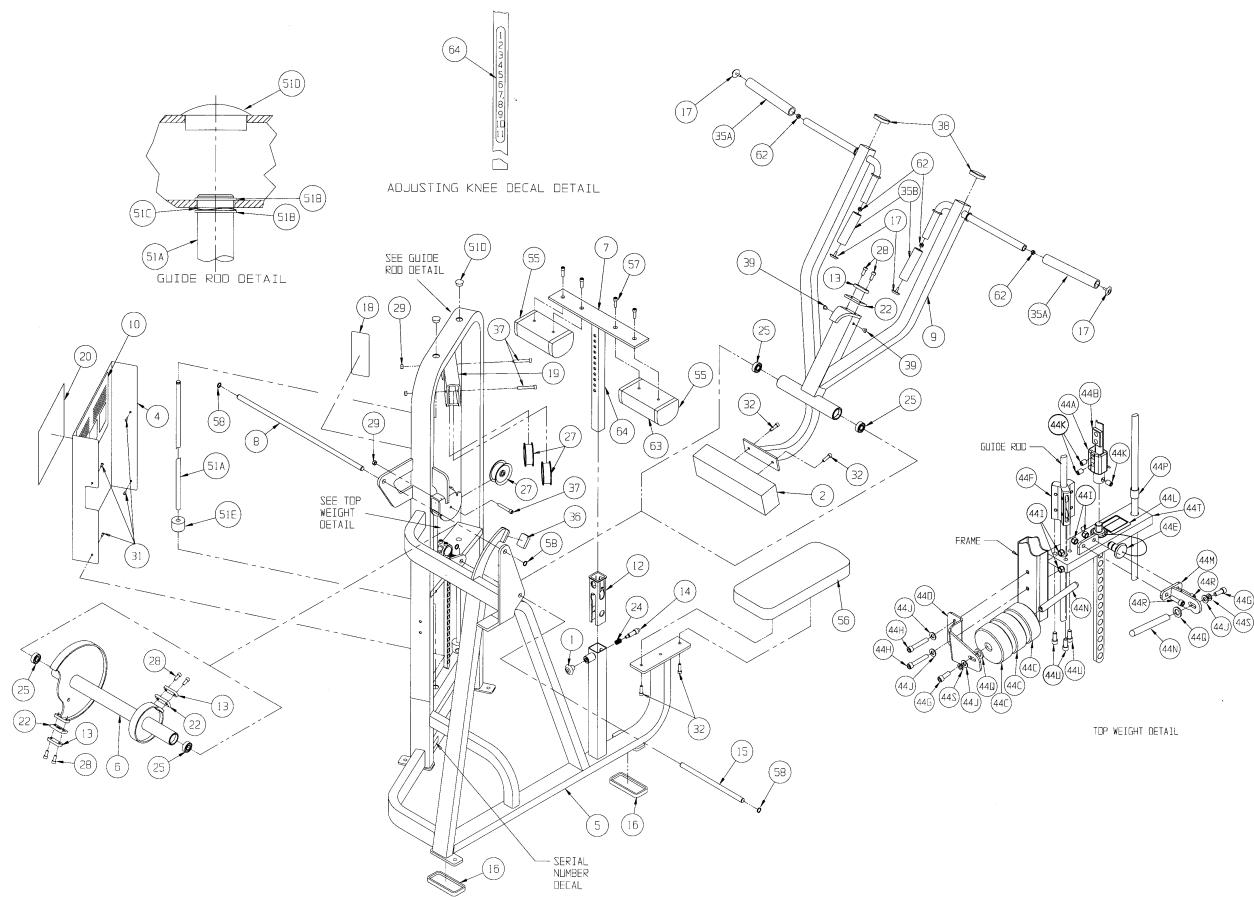
PART NO.

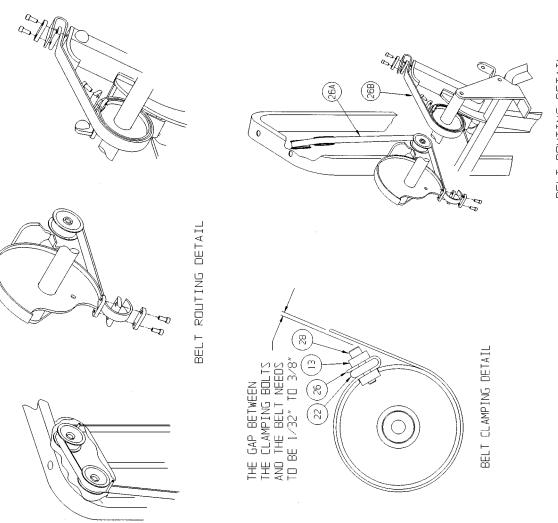
- I. Serial Number Decal
- J. Warning Decal...... 4605-381
- K. Cybex Decal Blk/Plm 3900-391
- K. Cybex Decal Wht/Wht .. 3900-419
- L. Cybex Decal Blk/Plm 3900-423
- L. Cybex Decal Wht/Wht .. 3900-424
- **M.** Caution Decal..... 4605-424
- N. Wear Cove (Item A) 4800-101
- O. Adjusting Knee Decal.... 4810-310

4516 - Lat Pulldown - Single Axis

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-440	Cybex Knob	44 B	1	11040-301	Belt Clamp Insert
2	1	ZC000001	Counterweight	44 C	3	4605-390	Increment Weight
3			Removed 8/98	44 D			Removed 3/03
4	1	4505-432	Guard	44 E	1	BH030207	Weight Selector Pin
5	1	4515-200	Frame	44 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
6	1	4515-201	Cam	44 G	2	HC702817	SHCS .375-16 x 1.00
7	1	4515-207	Seat Post	44 H	2	HC702828	SHCS .375-16 x 2.25
8	1	4515-327	Pivot Shaft 26.06	44 1	4	HN704901	Nylon Locknut .375-16
9	1	4516-201	Arms	44 J	4	HS347600	Washer, SAE .375
10	1	4516-598	Placard Decal	44 K	1	HY740000	Set Screw
12	1	4605-512	Plastic Insert 7.94	44 L	1	4605-424	Caution Decal
13	3	4605-300	Belt Clamp	44 M	1	4700-240	Weight Mount
14	1	4605-322	Detent Pin	44 N	2	4700-318	Increment Weight Rod
15	1	4605-334	Pivot Shaft 13.06	44 O	1	4700-319	Frame Mount Increment Weight
16	4	PR070003	Foot Pad 2.00 x 5.25	44 P	2	4701-001	Top Weight Guide
17	4	11090-374	End Cap	44 Q	2	4700-321	Rubber Washer
18	1	4605-381	Warning Decal	44 R	2	JC702820	SHCS .375-16 x 1.25
19	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm	44 S	2	HS348300	Split Lockwasher .375
19	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht	44 T	1	4700-238	Top Weight
19			Removed 3/03	44 U	3	HC702816	SHCS .375-16 x .875
20			Removed 3/03	45			Removed
20	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	46			Not Used
20	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	47			Not Used
21	1	4605-388	Weight Plate Decal 10-290	48			Not Used
22	3	4605-394	Belt Clamp	49			Not Used
23	4	BR030210	Retaining Ring .625	50			Not Used
24	1	BS070201	Com Spring .56 x .66 x 1.50 L	51	1	4701-023	Weight Stack Guide Rod Set
25	4	FB030232	Radial Brg 17 mm ID (Ext Race)	51 A	2	4515-328	Weight Stack Guide Rod
26 A	91"	GB000202	Weight Stack Belt .95" Wide	51 B	4	BR030214	Retaining Ring .625
26 B	37"	GB000202	Belt .95" Wide	51 C	2	HS407100	Spring Washer .65 x .79 x .062 T
27	3	GP000209	Pulley Assembly 3.50	51 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G
28	6	HC702822	SHCS .375-16 x 1.50	51 E	2	PR060005	Weight Bumper
29	3	HN704901	Nylon Locknut .375-16	52			Removed
30			Not Used	53			Removed
31	4	HT102214	Tap Screw #10-12 x .625 A (Phil)	54			Removed
32	4	JC702820	SHCS .375-16 x 1.25	55	2	4800-071	Thigh Cushion w/Wear Cover
33			Removed	56	1	4800-024	Seat Cushion
34			Not Used	57	4	HC702817	SHCS .375-16 x 1.00
35 A	2	4605-514	Grip 4.5" long	58			Removed
35 B	2	4605-517	Grip 11.5" long	59			Removed
36	1	PU060203	Bumper	60	1	4701-302	VR2 Weight Stack Instr. (not shown)
37	3	HC702830	SHCS .375-16 x 2.50	61	1	51198	Strength Warranty Sheet (not shown)
38	2	PP090210	Plastic Insert 2.00 Sq x 10-14 G	62	4	HF449063	Tube Insert
39	2	PP660006	Snap-In Plug	63	1	4800-101	Wear Cover
40			Not Used	64	1	4810-310	Adjusting Knee Decal
41			Not Used	65	14	4000C101	Stack Weight 4 x 18 (not shown)
42			Not Used	66	4	11090-376	Handle Grip Ring
43			Not Used	67	6	JS347400	Internal Tooth Lockwasher
44	1	4701-031	Sliding Increment Weight Set	68	4	JC620422	BHSCS250-20 x 1.50
44 A	1	11040-216	Belt Clamp				

LAT PULLDOWN - SINGLE AXIS - 4516





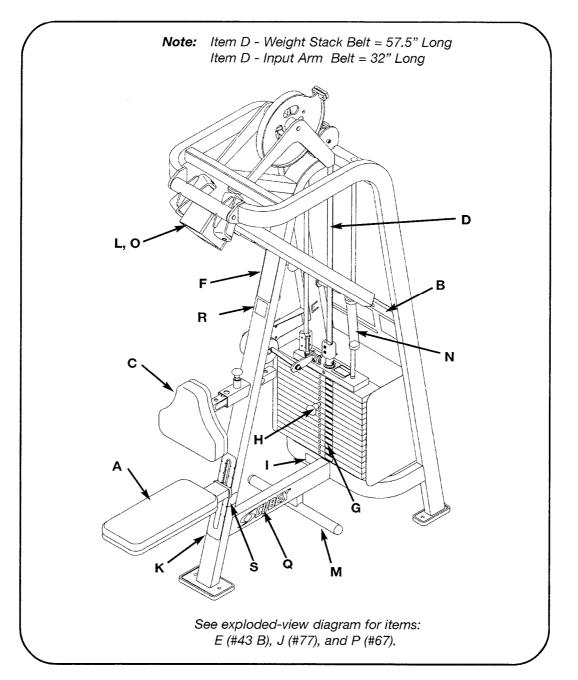
BELT ROUTING DETAIL

BELT ROUTING DETAIL

ROW / REAR DELT - DUAL AXIS

PRODUCT NO. 4520

PARTS LIST



DESCRIPTION

PART NO.

DESCRIPTION

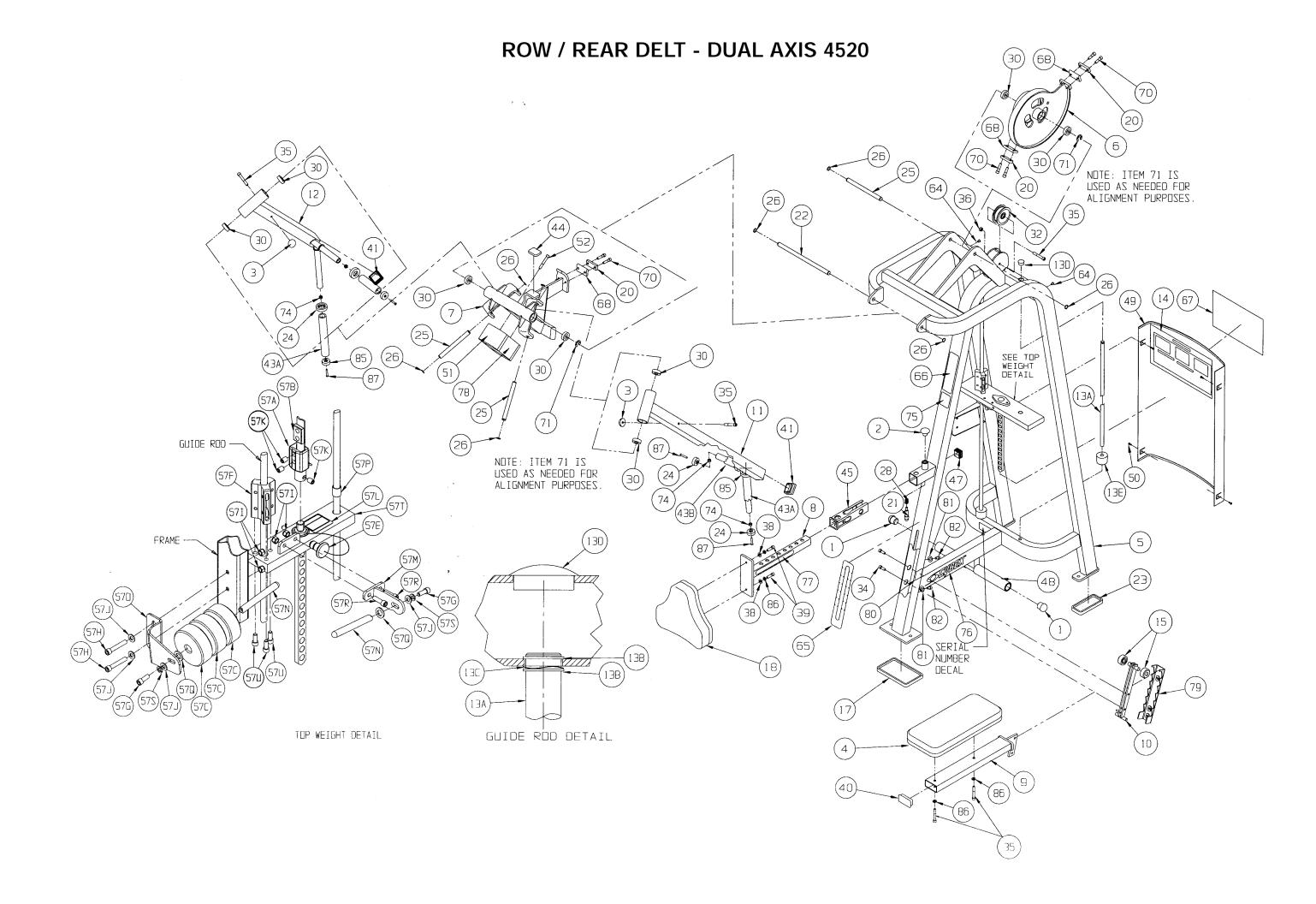
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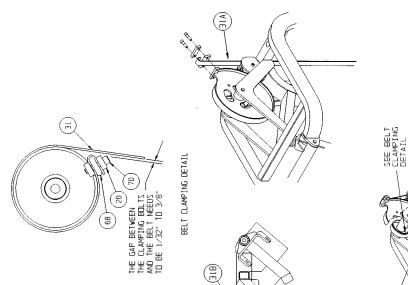
- K. Seat Adjustment Decal . 5221-316

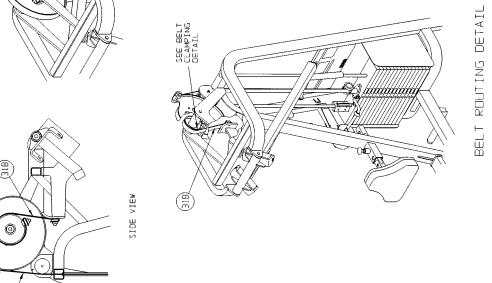
T. Caution Decal......4605-424

4520 - Row / Rear Delt - Dual Axis

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	2	08001	Plug 1.50	53			Not Used
2	1	11040-440	Cybex Knob	54			Not Used
3	2	4505-331	Bumper 1.50 Dia	55	1	4605-388	Weight Plate Decal 10-290
4	1	4800-024	Seat Cushion	56			Not Used
5	1	4520-208	Frame	57	1	4701-034	Sliding Increment Weight Set
6	1	4520-209	Cam	57 A	1	11040-216	Belt Clamp
7	1	4520-210	Pivot	57 B	1	11040-301	Belt Clamp Insert
8	1	4520-211	Cushion Tube	57 C	3	4605-390	Increment Weight
9	1	4520-204	Seat Tube	57 D			Removed 3/03
10	1	4520-212	Seat Roller	57 E	1	BH030207	Weight Selector Pin
11	1	4520-206	Arm (Right Hand)	57 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
12	1	4520-207	Arm (Left Hand)	57 G	2	HC702817	SHCS .375-16 x 1.00
13	1	4701-022	Weight Stack Guide Rod Set	57 H	2	HC702828	SHCS .375-16 x 2.25
13 A	2	4520-304	Weight Stack Guide Rod	57	4	HN704901	Nylon Locknut .375-16
13 B	4	BR030214	Retaining Ring .625	57 J	4	HS347600	Washer, SAE .375
13 C	2	HS407100	Spring Washer .65 x .79 x .062 T	57 K	1	HY740000	Set Screw
13 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G	57 L	1	4605-424	Caution Decal
13 E	2	PR060005	Weight Bumper	57 M	1	4700-240	Weight Mount
14	1	4520-318	Placard Decal	57 N	2	4700-318	Increment Weight Rod
15	2	4520-331	Roller	57 0	1	4700-319	Frame Mount Increment Weight
16			Removed	57 P	2	4701-001	Top Weight Guide
17	1	PR070002	Foot Pad 4.00 x 7.00	57 Q	2	4700-321	Rubber Washer
18	1	4800-026	Chest Cushion	57 R	2	JC702820	SHCS .375-16 x 1.25
19			Removed	57 S	2	HS348300	Split Lockwasher .375
20	3	4605-300	Belt Clamp	57 T	1	4700-238	Top Weight
21	1	4605-322	Detent Pin	57 U	3	HC702816	SHCS .375-16 x .875
22	1	4605-334	Pivot Shaft 13.06	58	•		Not Used
23	2	PR070003	Foot Pad 2.00 x 5.25	59			Not Used
24	4	11090-374	End Cap	60			Not Used
25	3	5220-320	Pivot Shaft 7.06	61	2	HS407100	Spring Washer .65 x .79 x .06 T
26	8	BR030210	Retaining Ring 17 mm	62	1	HY701408	Set Screw .375 -16 Cup Pt.
27			Not Used	63	2	PN660200	Plastic Insert 1.00 Dia x 11 G
28	1	BS070201	Com Spring.56 x .66 x 1.50 L	64	2	01193	Finned Fastener
29	2	PR060005	Weight Bumper	65	1	5221-316	Seat Adjustment Decal
30	8	FB030232	Radial Brg 17 mm ID (Ext Race)	66	1	4605-381	Warning Decal
31 A	57.5"	GB000202	Weight Stack Belt .95" Wide	67			Removed 3/03
31 B	32"	GB000202	Input Arm Belt .95" Wide	67	1	3900-391	Cybex Decal 11.37 Vert. Blk/Wht
32	1	GP000209	Pulley Assembly 3.50	67	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
33			Not Used	68	3	4605-394	Belt Clamp
34	2	HC702817	SHCS .375-16 x 1.00	69	•		Removed 5/99
35	5	HC702830	SHCS .375-16 x 2.50	70	6	HC702822	SHCS .375-16 x 1.50
36	1	HN704901	Nylon Locknut .375-16	71	*	BR030216	Retaining Ring .875
37	•		Removed	72	1	4701-302	VR2 Weight Stack Instr. (not shown)
38			Not Used	73	1	51198	Strength Warranty Sheet (not shown)
39	2	JC702820	SHCS .375-16 x 1.25	74	4	HF449063	Tube Insert
40	1	PP090202	Plastic Insert 1.5 x 3.0 x 11 G	75	1	5221-319	Caution Decal
41	2	PP090210	Insert 2.00 sq x 10-14 G	76	1	0221 010	Removed 3/03
42	-	11 COOL TO	Removed	76	2	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
43 A	2	4605-502	Grip 9" long	76	2	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
43 B	2	4605-501	Grip 5" long	77	1	4520-357	Adjusting Decal
43 B 44	1	PU060203	Bumper	78	1	4800-101	Wear Cover
44	1	4605-512	Plastic Insert 7.94	79	1	4520-213	Bracket
45 46	t	4000-012	Removed 8/98	80	1		
40 47	1	DD000011		80		4520-362	Caution Decal Washer USS .375
		PP090211	Plastic Insert1.50 sq x 10-14 G	1	2	HS347700	
48	2	02022	Rubber Grip 7.0"	82	2	JC702812	SHCS .375-16 x .50
49	1	4505-443	Guard	83	14	4000C101	Stack Weight 4 x 18 (not shown)
50	4	HT102214	Tap Screw #10-12 x .625 A (Phil)	84	4	11090-376	Handle Grip Ring
51	1	4800-071	Cushion	85	4	JS347400	Internal Tooth Lockwasher
52	2	HC702834	SHCS .375-16 x 3.00	86	4	JC620422	BHSCS .250-20 x 1.50







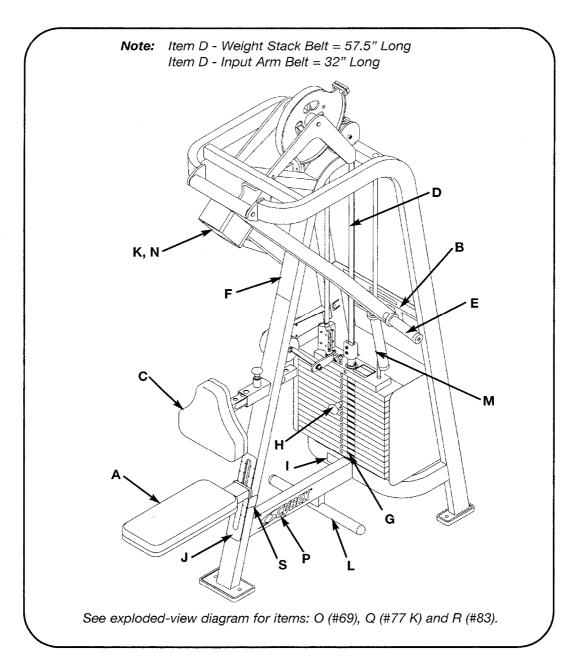
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ROW / REAR DELT - SINGLE AXIS

PRODUCT NO. 4521

PARTS LIST



DESCRIPTION

PART NO.

- A. Seat Cushion 4800-024
- B. Placard Decal 4521-598
- **C.** Chest Cushion 4800-026
- D. Belt..... GB000202
- **E.** Grip...... 4605-501
- **F.** Warning Decal 4605-381
- G. Weight Plate Decal...... 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal
- J. Seat Adjustment Decal.. 5221-316
- K. Cushion w/Wear Cover.. 4800-071

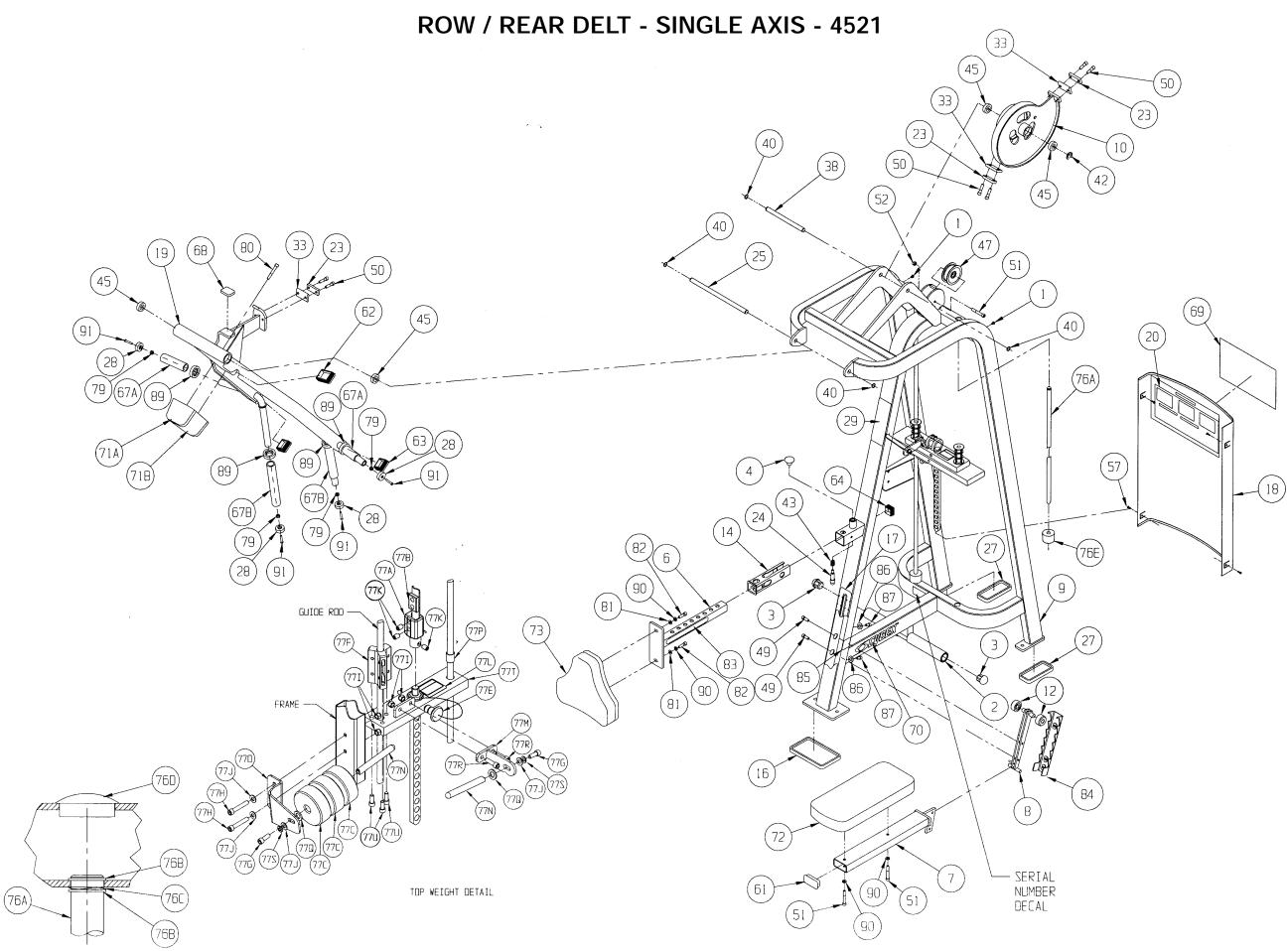
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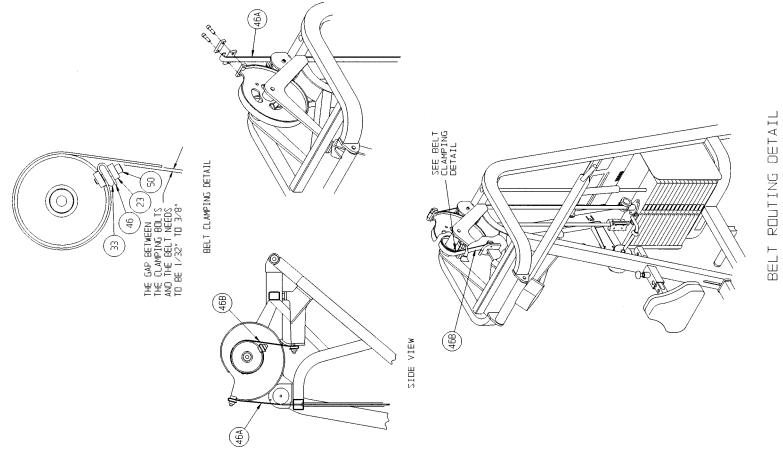
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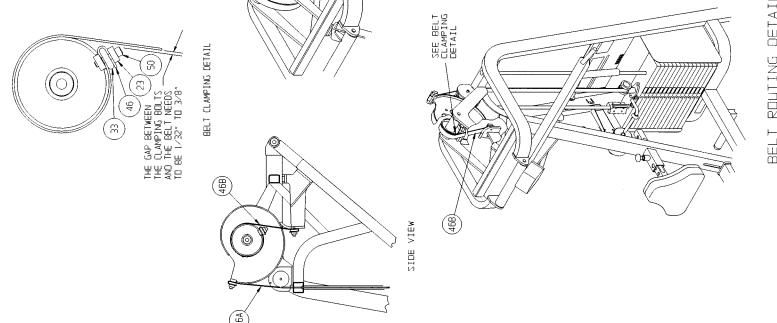
- L. Rubber Grip 02022
- **M.** Grip....... 4605-502 **N.** Wear Cover (Item K)...... 4800-101
- **O.** Cybex Decal Blk/Plm 3900-391
- **O.** Cybex Decal Wht/Wht... 3900-419
- P. Cybex Decal Blk/Plm 3900-390
- P. Cybex Decal Wht/Wht .. 3900-415
- **Q.** Caution Decal 4605-424
- **R.** Adjusting Decal 4520-357
- S. Caution Decal 4520-362

4521 - Row / Rear Delt - Single Axis

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	2	01193	Finned Fastener	62	1	PP090206	Plastic Insert
2	2	02022	Rubber Grip 7.0"	63	2	PP090210	Plastic Insert 2.00 Sq x 10-14 G
3	2	08001	Plug 1.50	64	1	PP090211	Plastic Insert 1.50 Sq x 10-14 G
4	1	11040-440	Cybex Knob	65			Not Used
5			Removed 8/98	66			Not Used
6	1	4520-211	Cushion Tube	67 A	2	4605-501	Grip 5.00
7	1	4520-204	Seat Tube	67 B	2	4605-502	Grip 9.00
8	1	4520-212	Seat Roller	68	1	PU060203	Bumper
9	1	4520-208	Frame	69			Removed 3/03
10	1	4520-209	Cam	69	1	3900-391	Cybex Decal 11.37 Vert.Blk/Plm
11			Not Used	69	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
12	2	4520-331	Roller	70	•		Removed 3/03
13			Removed	70	2	3900-390	Cybex Decal 1.57 Horiz. Blk//Plm
14	1	4605-512	Plastic Insert 7.94	70	2	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
15	1	4000 012	Not Used	71 A	1	4800-071	Cushion/Wear Cover
16	1	PR070002	Foot Pad 4.00 x 7.00	71 B	1	4800-101	Wear Cover
17	1	5221-316	Seat Adjustment Decal	71 0	1	4800-024	Seat Cushion
18	1		-	73	1		
		4505-443	Guard		I	4800-026	Chest Cushion
19	1	4521-200	Pivot	74			Removed 8/98
20	1	4521-598	Placard Decal	75			Removed 8/98
21			Not Used	76	1	4701-022	Guide Rod Set 58"
22			Not Used	76 A	2	4520-304	Weight Rod .625 Dia. x 58.00
23	3	4605-300	Belt Clamp	76 B	4	BR030214	Retaining Ring .625
24	1	4605-322	Detent Pin	76 C	2	HS407100	Spring Washer .65 x .79 x .062 T
25	1	4605-334	Pivot Shaft 13.06	76 D	2	PN660200	Plastic Insert 1.00 Dia. x 11G
26			Not Used	76 E	2	PR060005	Weight Bumper
27	2	PR070003	Foot Pad 2.00 x 5.25	77	1	4701-034	Sliding Increment Weight Set
28	4	11090-374	End Cap	77 A	1	11040-216	Belt Clamp
29	4	4605-381	Warning Decal	77 B	1	11040-301	Belt Clamp Insert
30	•		Not Used	77 C	3	4605-390	Increment Weight
31	1	4605-388	Weight Plate Decal 10-290	77 D	Ũ	4000 000	Removed 3/03
32	•	4000 000	Not Used	77 E	1	BH030207	Weight Selector Pin
33	3	4605-394	Belt Clamp	77 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
34	5	4000-004	Not Used	77 G	2	HC702817	SHCS .375-16 x 1.00
35		4701 000	Not Used	77 H	2	HC702828	SHCS .375-16 x 2.25
36	1	4701-302	VR2 Weight Stack Instr. (not shown)	771	4	HN704901	Nylon Locknut .375-16
37			Not Used	77 J	4	HS347600	Washer, SAE .375
38	2	5220-320	Pivot Shaft 7.06	77 K	1	HY740000	Set Screw
39			Removed 8/98	77 L	1	4605-424	Caution Decal
40	4	BR030210	Retaining Ring 17 mm	77 M	1	4700-240	Weight Mount
41			Not Used	77 N	2	4700-318	Increment Weight Rod
42	1	BR030216	Retaining Ring .875	77 0	1	4700-319	Frame Mount Increment Weight
43	1	BS070201	Com Spring .56 x .66 x 1.50 L	77 P	2	4701-001	Top Weight Guide
44	1		Serial Number Decal	77 Q	2	4700-321	Rubber Washer
45	4	FB030232	Radial Brg 17 mm ID (Ext Race)	77 R	2	JC702820	SHCS .375-16 x 1.25
46 A	57.5"	GB000202	Weight Stack Belt .95" Wide	77 S	2	HS348300	Split Lockwasher .375
46 B	32"	GB000202	Input Arm Belt .95" Wide	77 T	1	4700-238	Top Weight
47	1	GP000209	Pulley Assembly 3.50	77 U	3	HC702816	SHCS .375-16 x .875
48			Not Used	78	1	51198	Strength Warranty Sheet (not shown)
49	2	HC702817	SHCS .375-16 x 1.00	79	4	HF449063	Connector Insert .75 x .25-20
50	6	HC702822	SHCS .375-16 x 1.50	80	2	HC702834	SHCS .375-16 x 3.00
50 51	3	HC702830	SHCS .375-16 x 2.50	81	2	HS347600	Washer .375 SAE
52	1	HN704901	Nylon Locknut .375-16	82	2	HC702820	SHCS ,375-16 x 1.25
	1	HN/04901	Removed	1			
53 54			Removed Removed 8/98	83	1	4520-357	Adjusting Decal
54 55				84	1	4520-213	Bracket
55			Not Used	85	1	4520-362	Caution Decal
56			Not Used	86	2	HS347700	Washer USS .375
57	4	HT102214	Tap Screw #10-12 x .625 A (Phil)	87	2	JC702812	SHCS .375-16 x .50
58			Not Used	88	14	4000C101	Stack Weight 4 x 18 (not shown)
59			Removed 8/98	89	4	11090-376	Handle Grip Ring
~ ~			Not Used	90	4	JS347400	Internal Tooth Lockwasher
60							



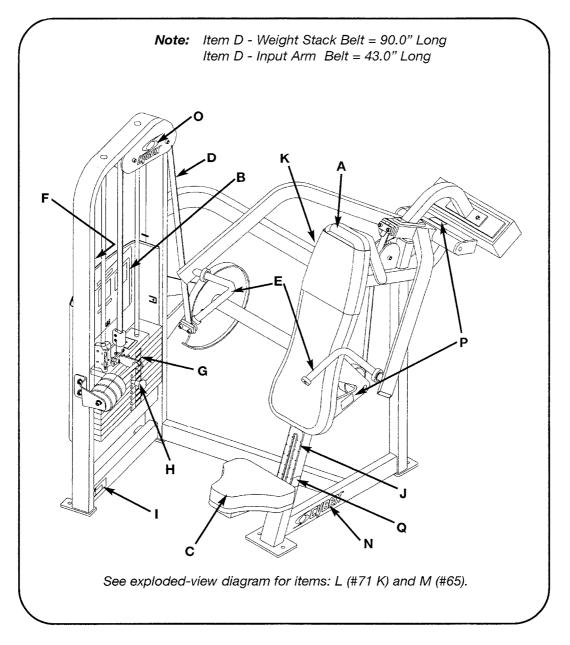




OVERHEAD PRESS - SINGLE AXIS

PRODUCT NO. 4526

PARTS LIST



DESCRIPTION

PART NO.

Α.	Back Cushion	

- w/Wear Cover 4800-103 B. Placard Decal 4526-598

- **F.** Warning Decal 4605-381
- G. Weight Plate Decal...... 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal
- J. Seat Adjustment Decal. 5221-316

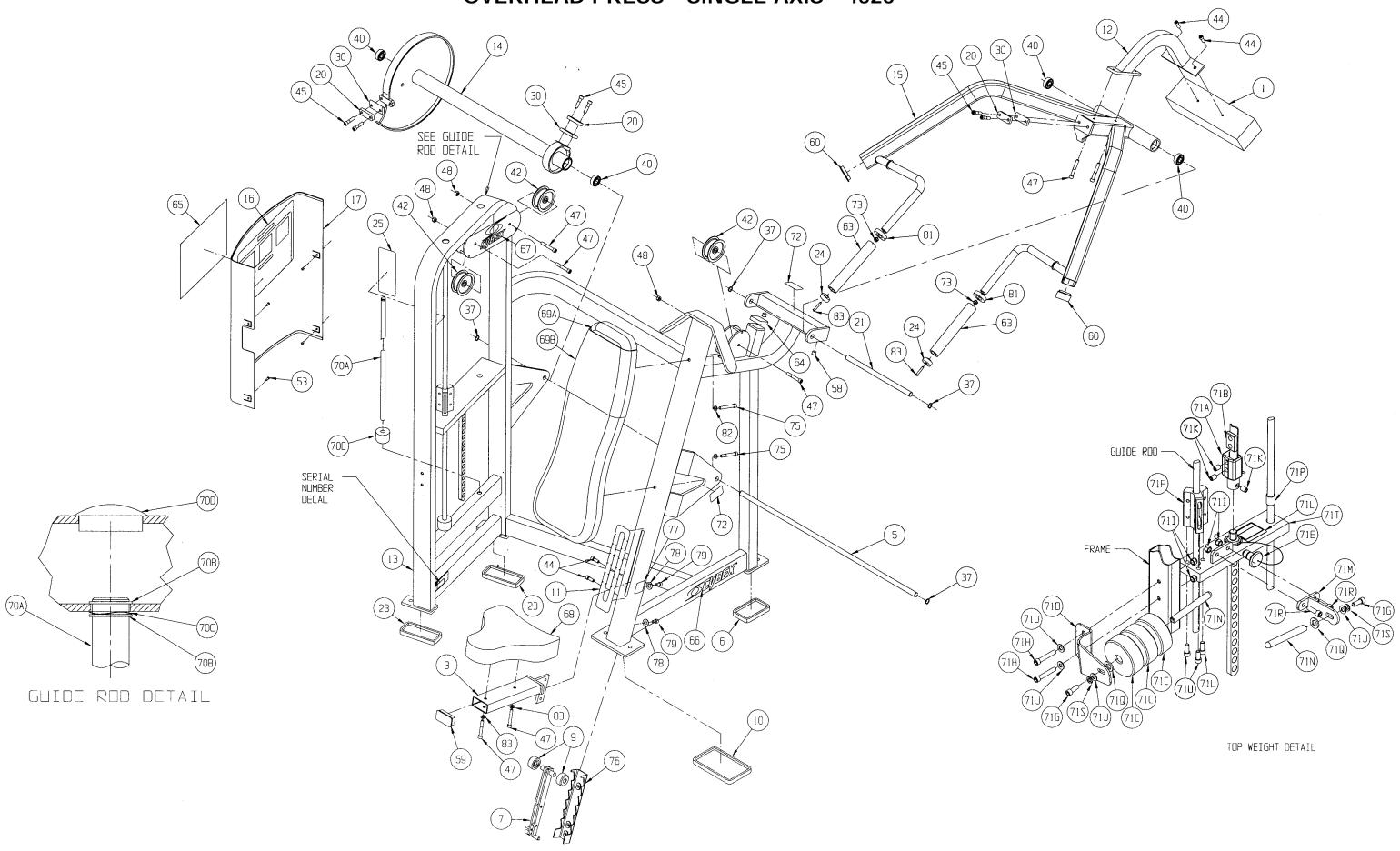
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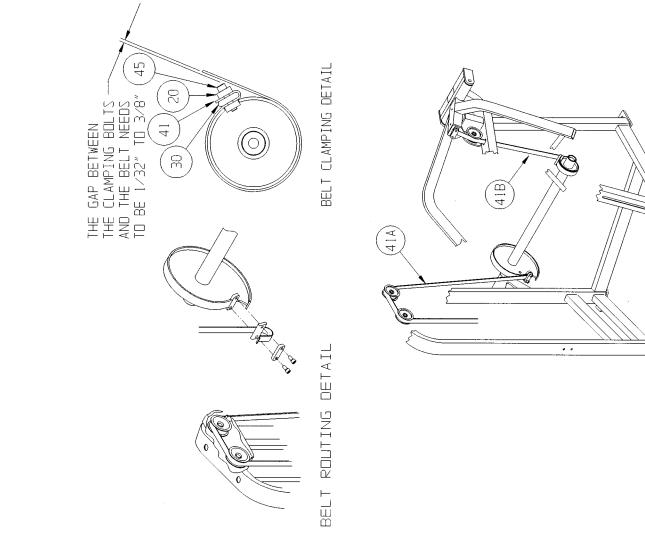
- PART NO.
- K. Wear Cover (Item A) 4800-106
- L. Caution Decal 4605-424
- M. Cybex Decal Blk/Plm 3900-391
- M. Cybex Decal Wht/Wht .. 3900-419
- N. Cybex Decal Blk/Plm 3900-390
- N. Cybex Decal Wht/Wht... 3900-415
- O. Cybex Decal Blk/Plm ... 3900-423
- O. Cybex Decal Wht/Wht .. 3900-424
- P. Caution Decal 4000Y316
- Q. Caution Decal..... 4520-362

4526 - Overhead Press - Single Axis

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1 2	1	ZC000001	Counterweight Not Used	59 60	1 2	PP090202 PP090210	Plastic Insert 1.5 x 3.0 11 G
3 4	1	4505-207	Seat	61	2	PP090210	Plastic Insert 20sqx10-14G Not Used
5	1	4505-327	Not Used Pivot Shaft 35.72	62 63	2	4605-518	Not Used Grip 15" long
6	1	PR070001	Foot Pad 2.50 x 4.25	64	1	PU060204	Bumper
7	i	4520-212	Seat Roller	65	'	1 0000204	Removed 3/03
8	2	4520-331	Roller	65	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm
9	-	1020 001	Removed	65	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
10	1	PR070002	Foot Pad 4.00 x 7.00	66	•	0000 410	Removed 3/03
11	1	5221-316	Seat Adjustment Decal	66	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
12	1	4525-203	Counterweight Bracket	66	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
13	1	4526-203	Frame	67	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
14	1	4526-202	Cam	67	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht
15	1	4526-201	Arm	67			Removed 3/03
16	1	4526-598	Placard Decal	68	1	4800-026	Seat Cushion
17	1	4505-431	Guard	69 A	1	4800-009	Back Cushion w/Wear Cover
18			Not Used	69 B	1	4800-092	Wear Cover
19			Not Used	70	1	4701-021	Weight Stack Guide Rod Set
20	3	4605-300	Belt Clamp	70 A	2	4505-319	Weight Stack Guide Rod
21	1	4605-334	Pivot Shaft 13.06	70 B	4	BR030214	Retaining Ring .625
22			Not Used	70 C	2	HS407100	Spring Washer .65 x .79 x .062 T
23	2	PR070003	Foot Pad 2.00 x 5.25	70 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G
24	2	11090-374	End Cap	70 E	2	PR060005	Weight Bumper
25	1	4605-381	Warning Decal	71	1	4701-030	Sliding Increment Weight Set
26			Not Used	71 A	1	11040-216	Belt Clamp
27			Not Used	71 B	1	11040-301	Belt Clamp Insert
28	1	4605-388	Weight Plate Decal 10-290	71 C	3	4605-390	Increment Weight
29			Not Used	71 D			Removed 3/03
30	3	4605-394	Belt Clamp	71 E	1	BH030207	Weight Selector Pin
31			Removed 8/98	71 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
32			Not Used	71 G	2	HC702817	SHCS .375-16 x 1.00
33		1701 000	Not Used	71 H	2	HC702828	SHCS .375-16 x 2.25
34	1	4701-302	VR2 Weight Stack Instr (not shown)	711	4	HN704901	Nylon Locknut .375-16
35			Not Used	71 J	4	HS347600	Washer, SAE .375
36 37	4	0000010	Not Used	71 K	1	HY740000	Set Screw
38	4	BR030210	Retaining Ring 17 mm	71 L 71 M	1 1	4605-424	Caution Decal
39			Not Used Not Used	71 N	2	4700-240 4700-318	Weight Mount
40	4	FB030232	Radial Brg 17 mm ID (Ext Race)	710	1	4700-318	Increment Weight Rod
41 A	90"	GB000202	Weight Stack Belt .95" wide	71 P	2	4701-001	Frame Mount Increment Weight Top Weight Guide
41 B	43"	GB000202	Rear Belt .95" wide	71 Q	2	4700-321	Rubber Washer
42	3	GP000209	Pulley Assembly 3.50	71 R	2	JC702820	SHCS .375-16 x 1.25
43	U	GI 000200	Not Used	71 S	2	HS348300	Split Lockwasher .375
44	4	HC702817	SHCS .375-16 x 1.00	71 T	1	4700-239	Top Weight
45	6	HC702822	SHCS .375-16 x 1.50	71 U	3	HC702816	SHCS .375-16 x .875
46	U	110702022	Not Used	72	2	4000Y316	Caution Decal
47	7	HC702830	SHCS .375-16 x 2.50	73	2	HF449063	Tube Insert
48	3	HN704901	Nylon Locknut .375-16	74	1	51198	Strength Warranty Sheet (not shown)
49			Removed	75	2	HC702834	SHCS .375-16 x 3.00
50	4	08007	Nylon Washer .515 x 1.00 x .062T	76	1	4520-213	Bracket
51			Not Used	77	1	4520-362	Caution Decal
52			Not Used	78	2	HS347700	Washer USS .375
53	4	HT102214	Tap Screw #10-12 x .625 A (Phil)	79	2	JC702812	SHCS .375-16 x .50
54			Not Used	80	9	4000C101	Stack Weight 4 x 18 (not shown)
55			Not Used	81	2	11090-376	Handle Grip Ring
56	4	HN784000	Hex Nut .500-13	82	4	JS347400	Internal Tooth Lockwasher
57			Not Used	83	4	JC620422	BHSCS .250-20 x 1.50
58	2	PN660201	Hole Plug				

OVERHEAD PRESS - SINGLE AXIS - 4526



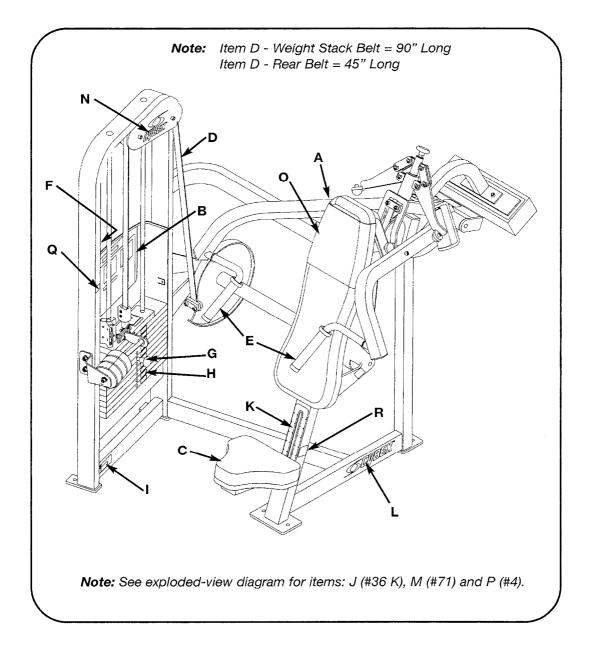


BELT ROUTING DETAIL

OVERHEAD PRESS - DUAL AXIS

PRODUCT NO. 4527

PARTS LIST



DESCRIPTION

PART NO.

- I. Serial Number Decal
- J. Caution Decal..... 4605-424

DESCRIPTION

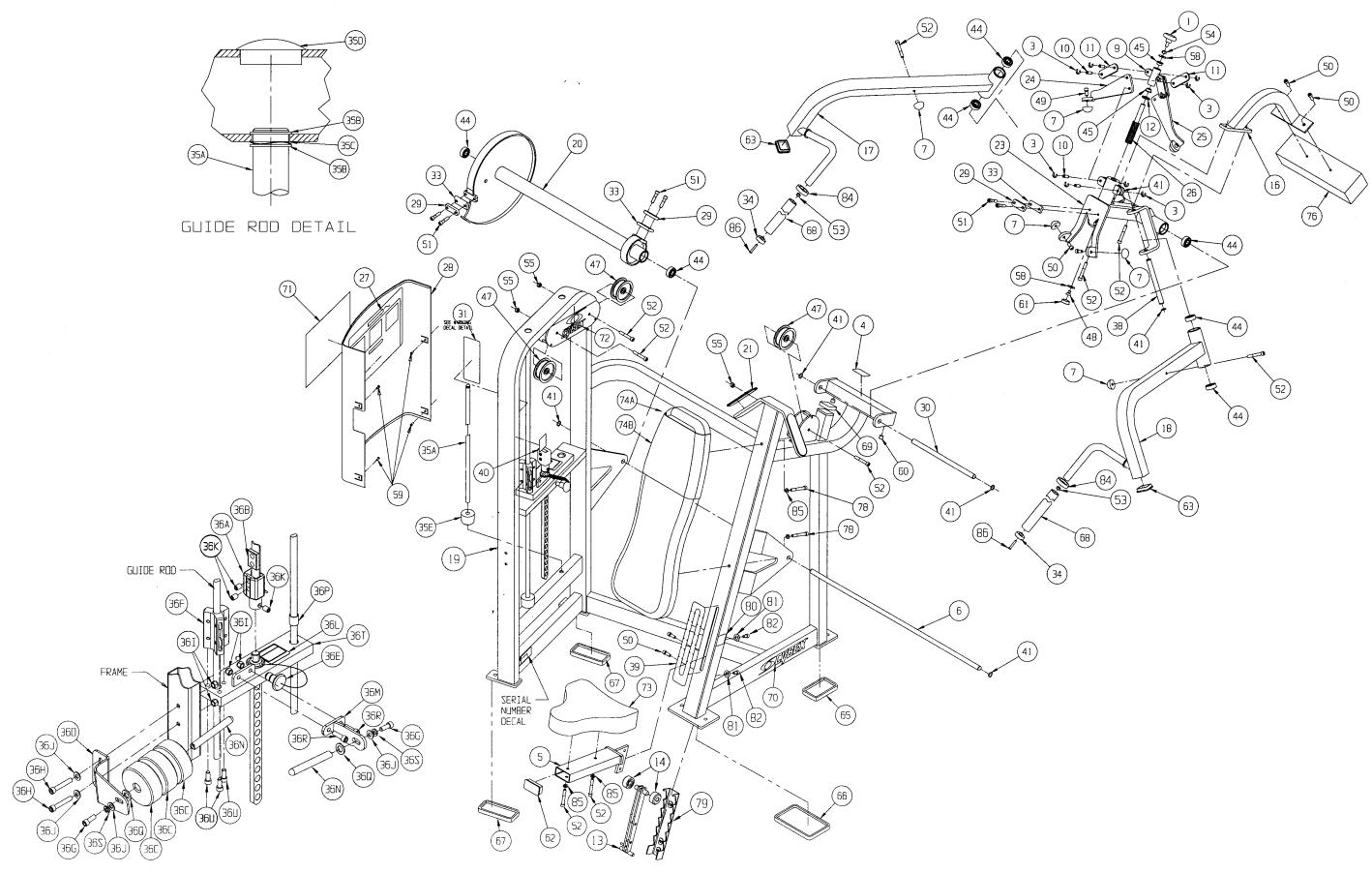
PART NO.

- K. Seat Adjustment Decal. 5221-316
- L. Cybex Decal Blk/Plm 3900-390
- L. Cybex Decal Wht/Wht .. 3900-415
- M. Cybex Decal Blk/Pim ... 3900-391
- M. Cybex Decal Wht/Wht .. 3900-419
- N. Cybex Decal Blk/Plm 3900-423
- N. Cybex Decal Wht/Wht .. 3900-424
- **O**. Wear Cover (Item A) 4800-106
- P. Caution Decal..... 4000Y316
- Q. Caution Decal..... 5221-319
- R. Caution Decal..... 4520-362

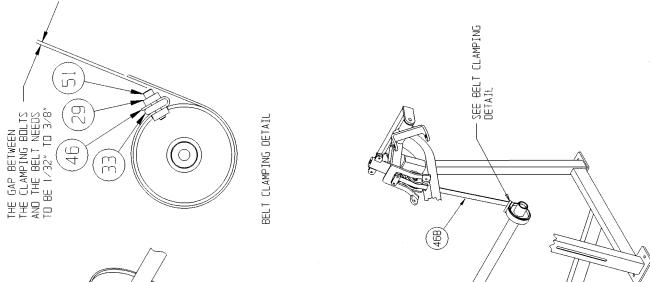
4527 - Overhead Press - Dual Axis

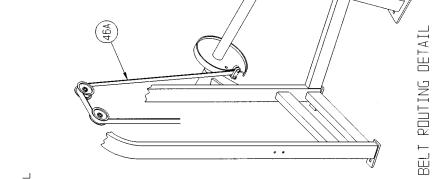
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	PP460012	Knob	36 T	1	4700-239	Top Weight
2			Not Used	36 U	3	HC702816	SHCS .375-16 x .875
3	12	08017	Retaining Ring .375	37	1	4701-302	VR2 Weight Stack Instr. (not she)
4	1	4000Y316	Caution Decal	38	2	5220-320	Pivot Shaft 7.06
5	1	4505-207	Seat	39	1	5221-316	Seat Adjustment Decal
6	1	4505-327	Pivot Shaft 35.72	40	1	5221-319	Caution Decal
7	6	4505-331	Bumper 1.50 Dia	40	8		
8	1	51198			0	BR030210	Retaining Ring 17 mm
9	1		Strength Warranty Sheet (not shown)	42			Removed
		4507-201	Slide	43	~		Removed 5/99
10	6	4507-301	Pin	44	8	FB030232	Radial Brg 17 mm ID (Ext Race)
11	4	4507-302	Link Bar	45	2	FB130212	Flange Brg .75 x .88 x .75 L
12	1	4507-310	Flat Washer .647 x 1.25 x .105 T	46 A	90"	GB000202	Weight Stack Belt .95" wide
13	1	4520-212	Seat Roller	46 B	45"	GB000202	Rear Belt .95" wide
14	2	4520-331	Roller	47	3	GP000209	Pulley Assembly 3.50
15			Removed	48	1	HC700915	FHSCS .375-16 x .75
16	1	4525-203	Counterweight Bracket	49	4	HC702815	SHCS .375-16 x .750
17	1	4525-204	Arm (Right Hand)	50	4	HC702817	SHCS .375-16 x 1.00
18	1	4525-205	Arm (Left Hand)	51	6	HC702822	SHCS .375-16 x 1.50
19	1	4526-203	Frame	52	9	HC702830	SHCS .375-16 x 2.50
20	1	4526-202	Cam	53	2	HF449063	Connector Insert $3/4 \times 1/4 - 20$
21	2	4525-318	Slide Plate	54	1	HN704000	Hex Nut .375-16
22	2	4525-329	Arm Block	55	3	HN704000	Nylon Locknut .375-16
23	1	4527-201	Pivot	56	3	HN704901	
23	1						Removed 5/99
		4527-202	Stop (Right Hand)	57	•	110017700	Removed
25	1	4527-203	Stop (Left Hand)	58	2	HS347700	Washer USS .375
26	1	4527-300	Adjustment Screw (RH)	59	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
27	1	4527-598	Placard Decal	60	2	PN660201	Hole Plug
28	1	4505-431	Guard	61	1	PP080202	Plastic Insert 1.19 Dia - 11 G
29	3	4605-300	Belt Clamp	62	1	PP090202	Plastic Insert 1.5 x 3.0 - 11 G
30	1	4605-334	Pivot Shaft 13.06	63	2	PP090210	Plastic Insert 2.00 Sq x 10-14 G
31	1	4605-381	Warning Decal	64			Not Used
32	1	4605-388	Weight Plate Decal 10-290	65	1	PR070001	Foot Pad 2.50 x 4.25
33	3	4605-394	Belt Clamp	66	1	PR070002	Foot Pad 4.00 x 7.00
34	2	11090-374	End Cap	67	2	PR070003	Foot Pad 2.00 x 5.25
35	1	4701-021	Weight Stack Guide Rod Set	68	2	4605-503	Grip 12.25
35 A	2	4505-319	Weight Stack Guide Rod	69	1	PU060204	Bumper
35 B	4	BR030214	Retaining Ring .625	70			Removed 3/03
35 C	2	HS407100	Spring Washer .65 x .79 x .062T	70	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
35 D	2	PN660200	Plastic Insert 1.00 Dia. x 11 G	70	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
35 E	2	PR060005	Weight Bumper	71	•	0000 410	Removed 3/03
36	1	4701-030	Sliding Increment Weight Set	71	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm
36 A	1	11040-216	Belt Clamp	71	1		•
36 B	1	11040-301	Belt Clamp Insert	72	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
36 C	3				1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
	ు	4605-390	Increment Weight	72	I	3900-424	Cybex Decal 4.85 Vert. Wht/Wht
36 D		DU 00000	Removed 3/03	72			Removed 3/03
36 E	1	BH030207	Weight Selector Pin	73	1	4800-026	Seat Cushion
36 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L	74 A	1	4800-009	Back Cushion w/Wear Cover
36 G	2	HC702817	SHCS .375-16 x 1.00	74 B	1	4800-092	Wear Cover
36 H	2	HC702828	SHCS .375-16 x 2.25	75			Not Used
36 I	4	HN704901	Nylon Locknut .375-16	76	1	ZC000001	Counterweight
36 J	4	HS347600	Washer, SAE .375	77			Removed
36 K	1	HY740000	Set Screw	78	2	HC702834	SHCS .375-16 x 3.00
36 L	1	4605-424	Caution Decal	79	1	4520-213	Bracket
36 M	1	4700-240	Weight Mount	80	1	4520-362	Caution Decal
36 N	2	4700-318	Increment Weight Rod	81	2	HS347700	Washer USS .375
36 0	1	4700-319	Frame Mount Increment Weight	82	2	JC702812	SHCS .375-16 x .50
36 P	2	4701-001	Top Weight Guide	83	9	4000C101	Stack Weight 4 x 18 (not shown)
36 Q	2	4700-321	Rubber Washer	84	2		
36 Q 36 R						11090-376	Handle Grip Ring
36 S	2 2	JC702820	SHCS .375-16 x 1.25	85	4	JS347400	Internal Tooth Lockwasher
303	4	HS348300	Split Lockwasher .375	86	2	JC620422	BHSCS .250-20 x 1.50

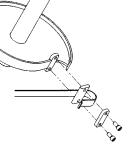
OVERHEAD PRESS - DUAL AXIS - 4527

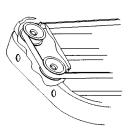


TOP WEIGHT DETAIL







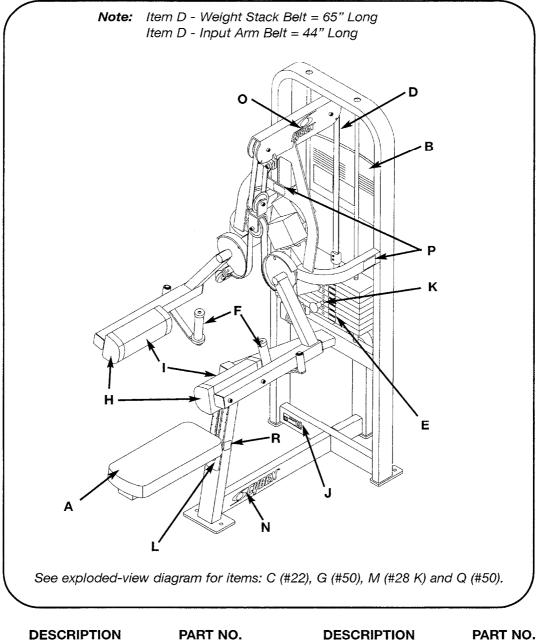


BELT ROUTING DETAIL

LATERAL RAISE

PRODUCT NO. 4530

PARTS LIST



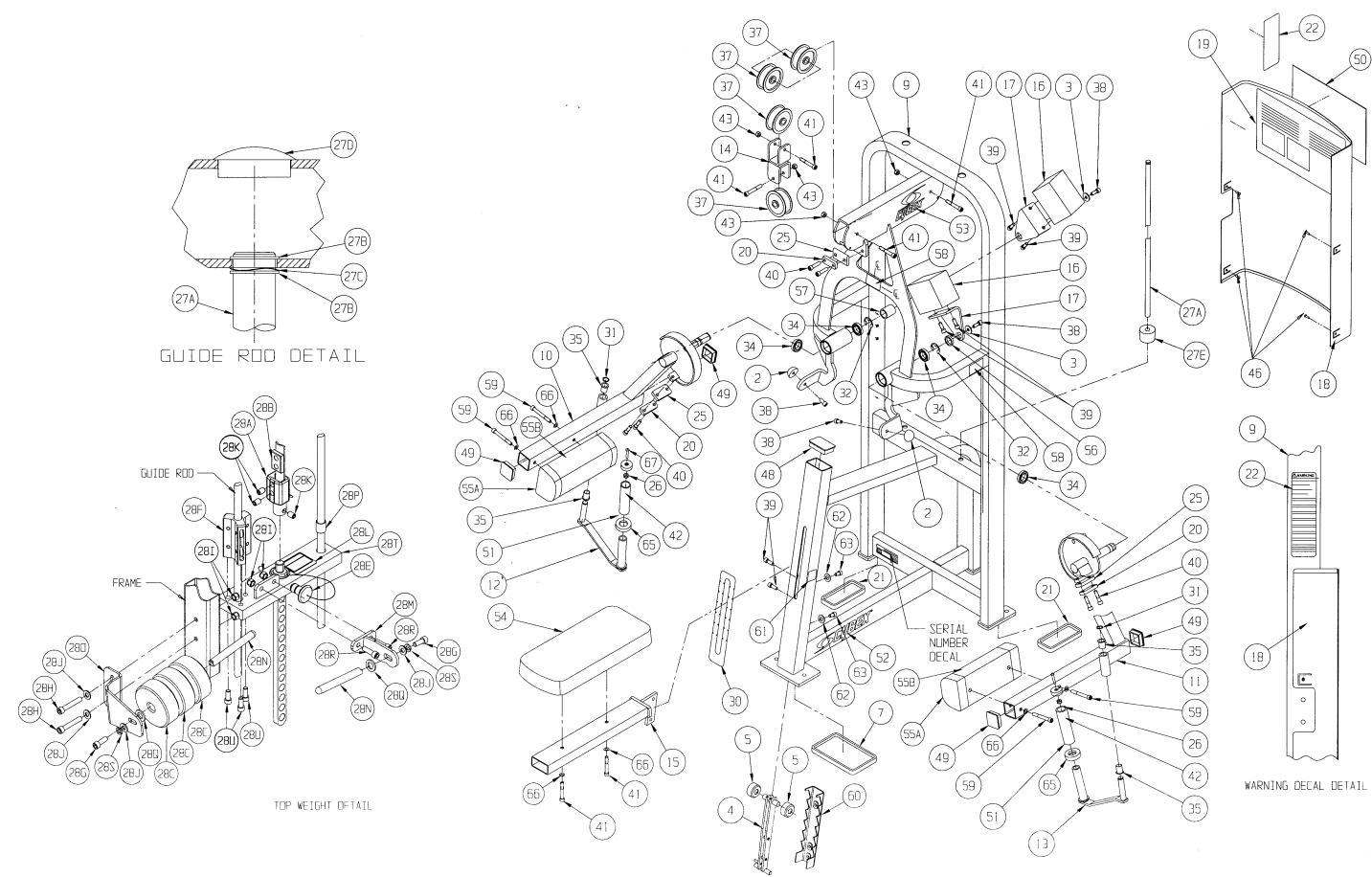
- A. Seat Cushion..... 4800-024
- B. Placard Decal..... 4530-598
- **C.** Warning Decal 4605-381
- D. Belt GB000202
- E. Weight Plate Decal...... 4605-388
- F. Grip 12.25" Long 4605-501
- G. Cybex Decal Blk/Plm ... 3900-391
- G. Cybex Decal Wht/Wht .. 3900-419 H. Arm Cushion w/Wear-
- Cover..... 4800-023
- Wear Cover..... 4800-095 Ι.
- J. Serial Number Decal

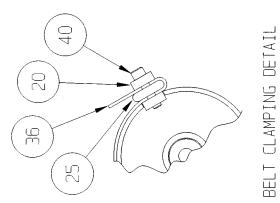
- K. Weight Selector Pin..... BH030207
- L. Seat Adjustment Decal. 5221-316
- M. Caution Decal..... 4605-424
- N. Cybex Decal Blk/Plm 3900-390
- N. Cybex Decal Wht/Wht .. 3900-415
- O. Cybex Decal Blk/Plm 3900-423
- O. Cybex Decal Wht/Wht .. 3900-424 Q. Cybex Decal Blk/Plm 3900-391
- Q. Cybex Decal Wht/Wht... 3900-419
- P. Caution Decal..... 4000Y316
- R. Caution Decal..... 4520-362

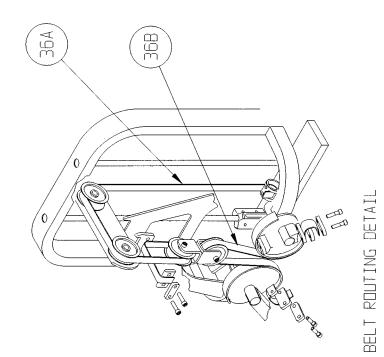
4530 - Lateral Raise

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1			Removed	28 S	2	HS348300	Split Lockwasher .375
2	2	4505-331	Bumper 1.50 Dia	28 T	1	4700-239	Top Weight
3	2	4507-309	Flat Washer .391 x 1.125 x .105	28 U	3	HC702816	SHCS .375-16 x .875
4	1	4520-212	Seat Roller	29	1	4701-302	VR2 Weight Stack Instr (not shown)
5	2	4520-331	Roller	30	1	5221-316	Seat Adjustment Decal
6			Removed	31	2	BR030210	Retaining Ring (17mm)
7	1	PR070002	Rubber Pad 4.00 x 7.00	32	2	BR110201	E-Ring
8	1	51198	Strength Warranty Sheet (not shown)	33	1		Removed
9	1	4530-200	Frame	34	4	FB030235	Ral Brg. 42mm OD x 25mm
10	1	4530-201	Arm (LH)	35	4	FB130207	Flg. Brg.17mm x 19mm x 25mm
11	1	4530-202	Arm (RH)	36 A	65.0"	GB000202	Weight Stack Belt .95 Wide
12	1	4530-203	Handle (LH)	36 B	44.0"	GB000202	Input Arm Belt .95 Wide
13	1	4530-204	Handle (RH)	37	4	GB000209	Pulley Assembly 3.50
14	1	4530-205	Pulley Mount	38	4	HC702815	SHCS .375-16 x .750
15	1	4530-206	Seat	39	6	HC702817	SHCS .375-16 x 1.00
16	2	4530-322	Counterweight	40	6	HC702822	SHCS .375-16 x 1.50
17	2	4530-327	Bracket	41	6	HC702830	SHCS .375-16 x 2.50
18	1	4505-436	Guard	42	2	HF449063	Connector Insert .75 x .25-20
19	1	4530-598	Placard Decal	43	4	HN704901	Nylon Locknut .375-16
20	3	4605-300	Belt Clamp	44			Removed 5/99
21	3	PR070003	Foot Pad 2.00 x 5.25	45			Removed
22	1	4605-381	Warning Decal	46	4	HT102214	Tap Screw #10-12 x.625 A (Phil)
23	1	-000-001	Not Used	47	-	111102214	Not Used
24	1	4605-388	Weight Plate Decal 10-290	48	1	PP090202	Plastic Insert 1.5 x 3.0 11 G
25	3	4605-394	Belt Clamp	49	4	PP090210	Plastic Insert 2.00 sq x 10-14 G
23 26	2	11090-374	End Cap	50	-1	FF030210	Removed 3/03
27	1	4701-020	Weight Stack Guide Rod Set	50	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm
27 A	2	4535-329	Weight Stack Guide Rod	50	1	3900-419	Cybex Decal 11.37 Vert Wht/Wht
27 B	4	BR030214	Retaining Ring .625	51	2	4605-501	Grip
27 C	2	HS407100	Spring Washer .65 x .79 x .062 T	52	2	4000 001	Removed 3/03
27 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G	52	2	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
27 E	2	PR060005	Weight Bumper	52	2	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
28	1	4701-030	Sliding Increment Weight Set	53	2	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
28 A	1	11040-216	Belt Clamp	53	2	3900-424	Cybex Decal 4.85 Vert. Wht/V
28 B	1	11040-301	Belt Clamp Insert	53	2	0000-424	Removed 3/03
28 C	3	4605-390	Increment Weight	54	1	4800-024	Seat Cushion
28 D	0	4000-000	Removed 3/03	55 A	2	4800-023	Arm Cushion w/Wear Cover
28 E	1	BH030207	Weight Selector Pin	55 B	2	4800-095	Wear Cover
28 F	1	4701-001	Top Weight Guide	56	1	4530-330	Spacer
28 G	2	HC702817	SHCS .375-16 x 1.00	57	1	4530-331	Spacer
28 G 28 H	2	HC702828	SHCS .375-16 x 1.00	58	3	4000Y316	Caution Decal
281	4	HN704901	Nylon Locknut .375-16	59	4	HC702834	SHCS .375-16 × 3.00
	4		Washer, SAE .375	60	4		
28 J 28 K	4 3	HS347600	,	60	1	4520-213	Bracket
	-	HY740000	Set Screw		1	4520-362	Caution Decal
28 L	1	4605-424	Caution Decal	62	2	HS347700	Washer USS .375
28 M	1	4700-240	Weight Mount	63	2	JC702812	SHCS .375-16 x .50
28 N	2	4700-318	Increment Weight Rod	64	9	4000C101	Stack Weight 4 x 18 (not shown)
28 O	1	4700-319	Frame Mount Increment Weight	65	2	11090-376	Handle Grip Ring
28 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L	66	6	JS347400	Internal Tooth Lockwasher
28 Q	2	4700-321	Rubber Washer	67	2	JC620422	BHSCS .250-20 x 1.50
28 R	2	JC702820	SHCS .375-16 x 1.25		·····		

LATERAL RAISE - 4530







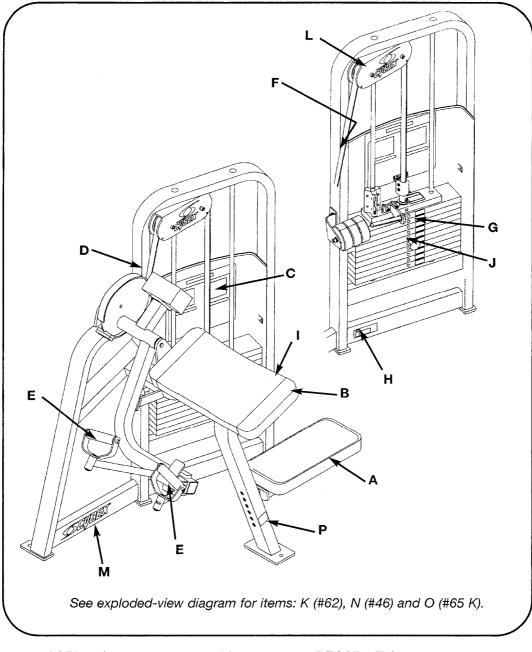


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ARM CURL

PRODUCT NO. 4535

PARTS LIST



DESCRIPTION

PART NO.

- A. Seat Cushion 4800-024
- B. Arm Cushion w/Wear Cover 4800-008
- **D.** Belt 70.0" Long GB000202
- **E.** Grip 5.2" Long 4605-504
- F. Warning Decal 4605-381
- G. Weight Plate Decal 4605-388
- H. Serial Number Decal
- I. Wear Cover (Item A) 4800-091

DESCRIPTION

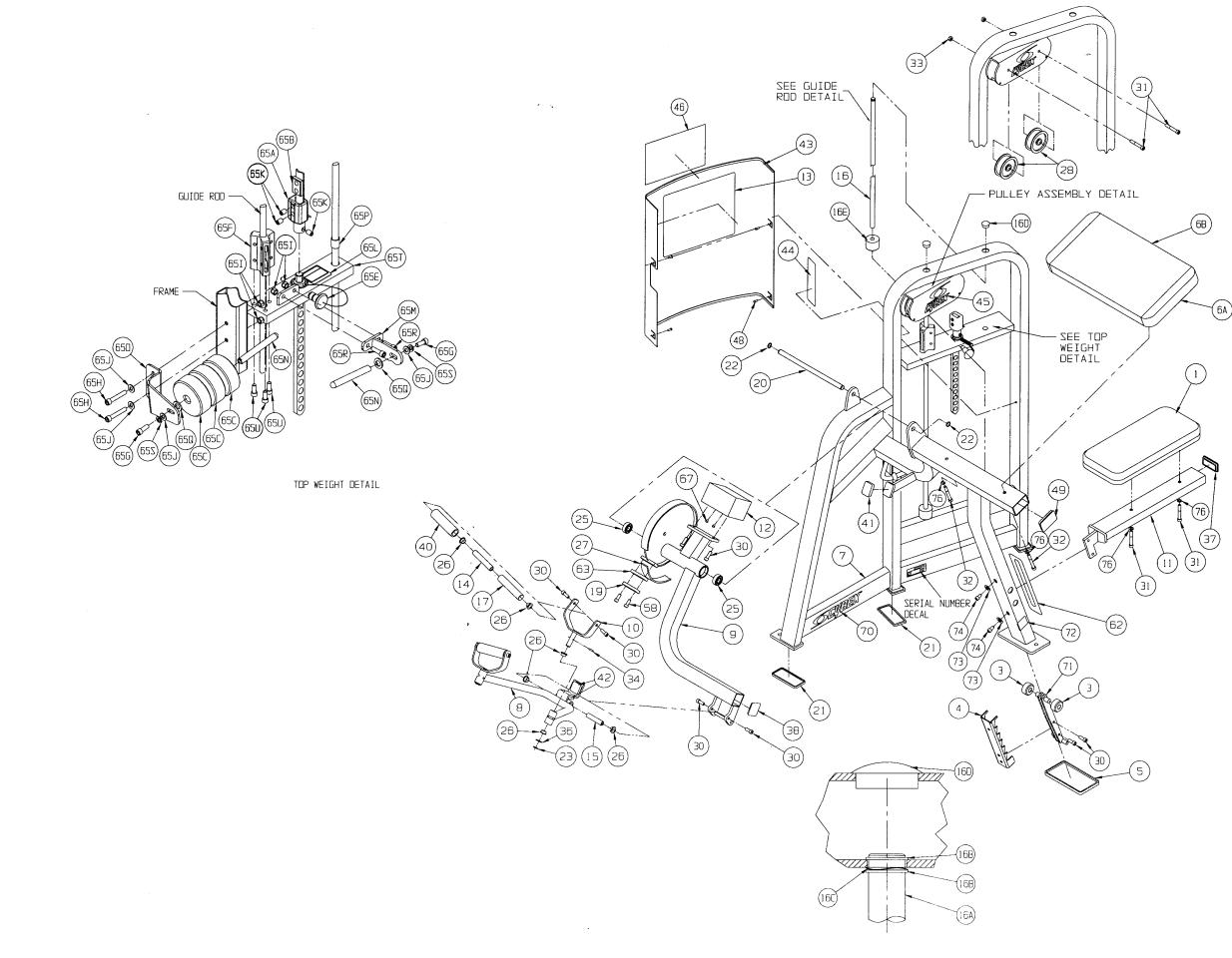
PART NO.

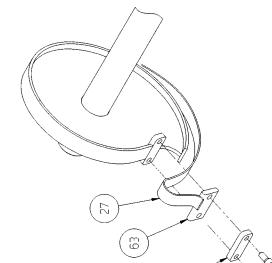
- J. Weight Selector Pin..... BH030207
- K. Seat Adjustment Decal. 5221-316L. Cybex Decal Bik/Pim 3900-423
- L. Cybex Decal Wht/Wht .. 3900-424
- M. Cybex Decal Blk/Plm 3900-390
- **M.** Cybex Decal Wht/Wht .. 3900-415
- N. Cybex Decal Blk/Plm 4605-391N. Cybex Decal Wht/Wht .. 4605-419
- P. Caution Decal..... 4520-362

4535 - Arm Curl

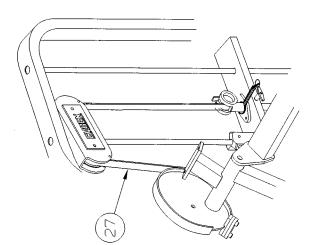
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	4800-024	Seat Cushion	46	1	3900-419	Cybex Decal 11.37 Vert. Wht/W≻⁺
2	1	4520-212	Seat Roller	47			Not Used
3	2	4520-331	Roller	48	4	HT102214	Tap Screw #10-12 x .625 A (Ph.,
4			Removed	49	1	PP090206	Plastic Insert 2.00 x 3.00 x 11 G
5	1	PR070002	Foot Pad 4.00 x 7.00	50			Removed 8/98
6 A	1	4800-008	Arm Cushion w/Wear Cover	51			Not Used
6 B	1	4800-091	Wear Cover	52			Not Used
7	1	4535-200	Frame	53	1	4605-388	Weight Plate Decal 10-290
8	1	4535-201	Pivot Arm	54			Not Used
9	1	4535-202	Cam Arm	55			Removed
10	2	4535-204	Pivot Handle	56			Not Used
11	1	4535-205	Seat	57			Not Used
12	1	4535-324	Counterweight	58	2	HC702822	SHCS .375-16 x 1.50
13	1	4535-325	Placard Decal	59			Not Used
14	2	4535-327	Long Pivot Pin	60			Not Used
15	1	4535-328	Short Pivot Pin	61			Not Used
16	1	4701-020	Weight Stack Guide Rod Set	62	1	5221-316	Seat Adjustment Decal
16 A	2	4535-329	Weight Stack Guide Rod	63	1	4605-394	Belt Clamp
16 B	4	BR030214	Retaining Ring .625	64			Removed 8/98
16 C	2	HS407100	Spring Washer .65 x .79 x .062 T	65	1	4701-030	Sliding Increment Weight Set
16 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G	65 A	1	11040-216	Belt Clamp
16 E	2	PR060005	Weight Bumper	65 B	1	11040-301	Belt Clamp Insert
17	2	4535-330	Pivot Handle Tube	65 C	3	4605-390	Increment Weight
18	-	1000 000	Not Used	65 D	0	4000 000	Removed 3/03
19	1	4605-300	Belt Clamp	65 E	1	BH030207	Weight Selector Pin
20	1	4605-334	Pivot Shaft 13.06	65 F	1	FB130208	Flange Sleeve .68 x .81 1.00 L
21	3	PR070003	Foot Pad 2.00 x 5.25	65 G	2	HC702817	SHCS .375-16 x 1.00
22	2	BR030210	Retaining Ring 17 mm	65 H	2	HC702828	SHCS .375-16 x 2.25
23	2	BR030214	Retaining Ring .625	651	4	HN704901	Nylon Locknut .375-16
24	2	DITOODE14	Not Used	65 J	4	HS347600	Washer, SAE .375
25	2	FB030232	Radial Brg 17 mm ID (Ext. Race)	65 K	4	HY740000	Set Screw
26	10	FB130205	Flange Brg .62 x .75 x .38 L	65 L	1	4605-424	Caution Decal
27	70"	GB000202	Belt .95" Wide	65 M	1	4700-240	
28	2	GP000209	Pulley Assembly 3.50	65 N	2		Weight Mount
29	2	Gr 000209	Removed	1		4700-318	Increment Weight Rod
30	10	HC702817	SHCS .375-16 x 1.00	65 O	1	4700-319	Frame Mount Increment Weigh
30	4	HC702817 HC702830		65 P	2	4701-001	Top Weight Guide
32	2	HC702830 HC702834	SHCS .375-16 x 2.50 SHCS .375-16 x 3.00	65 Q	2	4700-321	Rubber Washer
32 33	2	HN704901		65 R	2	JC702820	SHCS .375-16 x 1.25
33 34	2	HN704901 HP286716	Nylon Locknut .375-16	65 S	2	HS348300	Split Lockwasher .375
	2	HP200710	Roll Pin .188 x .75	65 T	1	4700-239	Top Weight
35	0	10407100	Removed	65 U	3	HC702816	SHCS .375-16 x .875
36	2	JS407100	Machinery Bushing .625	66	•	BBAAAA	Not Used
37	1	PP090202	Plastic Insert 1.50 x 3.00 x 11 G	67	2	PP080221	Black Insert .312 Dia
38	1	PP090210	Plastic Insert 200 Sq x 10-14 G	68	1	4701-302	VR2 Weight Stack Instr. (not shown)
39			Removed	69	1	51198	Strength Warranty Sheet (not shown)
40	2	4605-504	Grip 5.2 Long	70			Removed 3/03
41	1	PU060203	Bumper	70	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
42	2	08002	Bumper	70	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
43	1	4505-431	Guard	71	1	4520-213	Bracket
44	1	4605-381	Warning Decal	72	1	4520-362	Caution Decal
45	1	3900-423	Cybex Decal 4.85 Vert. Blk/Pim	73	2	HS347700	Washer USS .375
45	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht	74	2	JC702812	SHCS .375-16 x .50
45			Removed 3/03	75	9	4000C101	Stack Weight 4 x 18 (not shown)
46			Removed 3/03	76	4	JS347400	Lockwasher Int Tooth
46	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	1			

ARM CURL - 4535

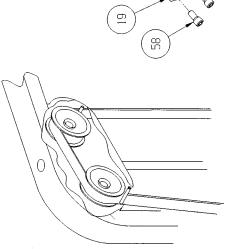




BELT ROUTING DETAILS



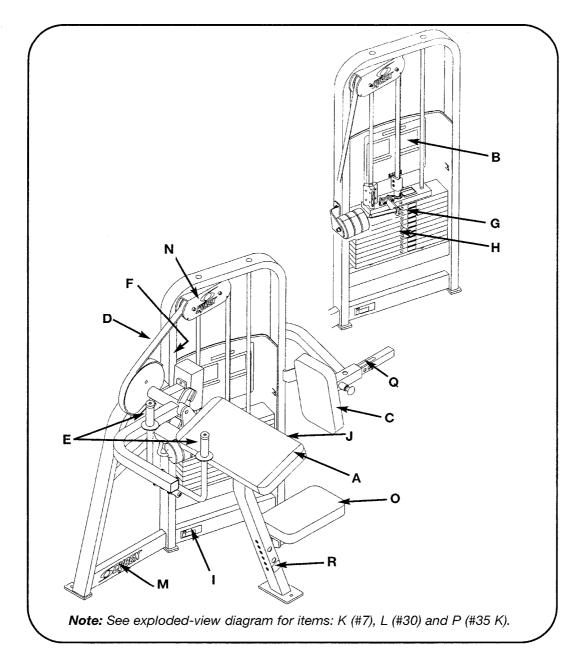
BELT ROUTING DETAIL



ARM EXTENSION

PRODUCT NO. 4540

PARTS LIST



DESCRIPTION

PART NO.

DESCRIPTION

PART NO.

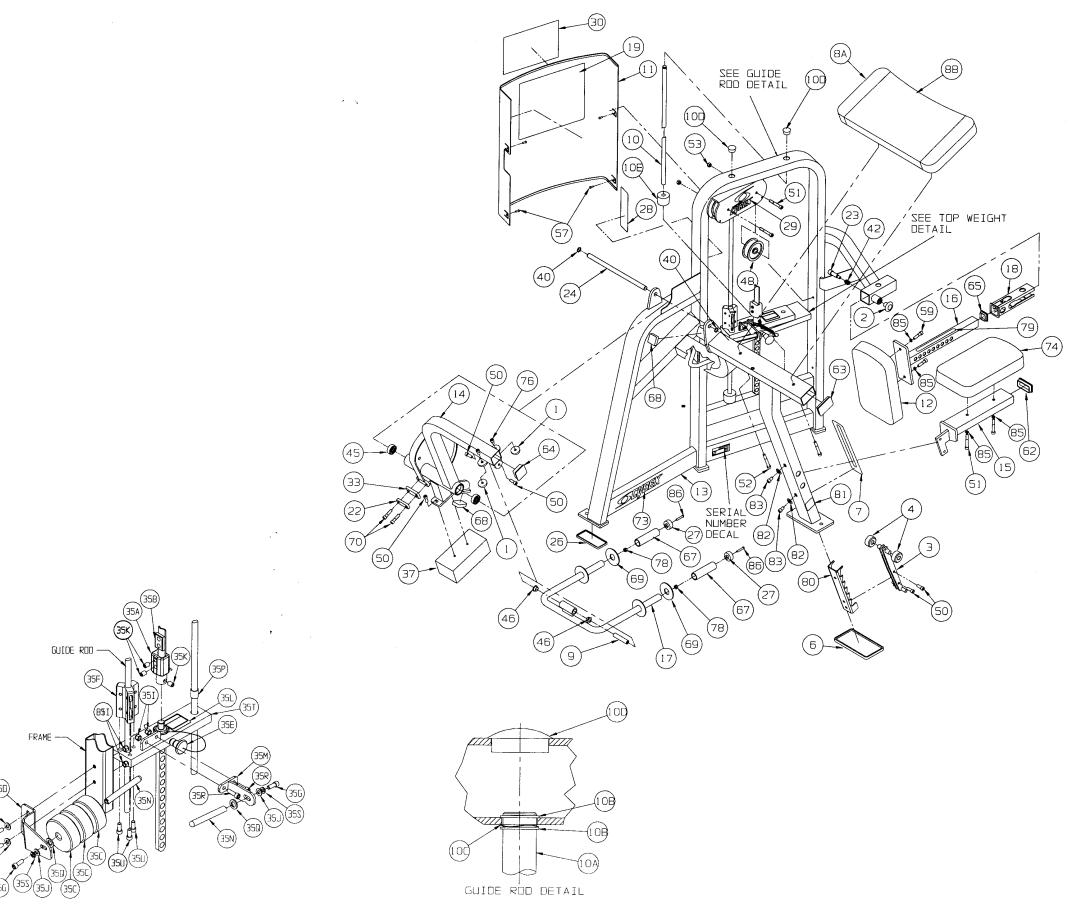
- A. Arm Cushion w/Wear
- Cover...... 4800-008
- B. Placard Decal 4540-319
- **C.** Cushion 4800-019
- **D.** Belt...... GB000202
- **E.** Grip...... 4605-510
- F. Warning Decal..... 4605-381
- G. Weight Plate Decal...... 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal
- J. Wear Cover (Item A) 4800-091

- K. Seat Adjustment Decal. 5221-316
- L. Cybex Decal Blk/Plm 3900-391
- L. Cybex Decal Wht/Wht... 3900-419
- M. Cybex Decal Blk/Plm 3900-390
- M. Cybex Decal Wht/Wht... 3900-415
- N. Cybex Decal Blk/Plm 3900-423
- N. Cybex Decal Wht/Wht... 3900-424 **O**. Cushion...... 4800-026
- P. Warning Decal 4605-424
- Q. Adjusting Decal 4540-323
- **R.** Caution Decal...... 4520-362

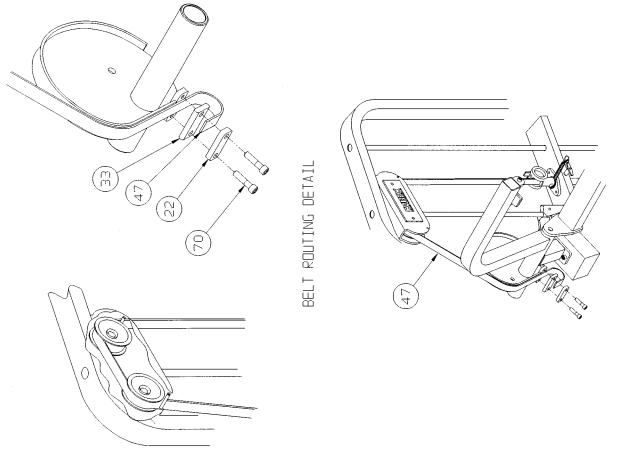
4540 - Arm Extension

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	2	4505-331	Bumper 1.50 Dia	35 P	2	4701-001	Top Weight Guide
2	1	11040-440	Cybex Knob	35 Q	2	4700-321	Rubber Washer
3	1	4520-212	Seat Roller	35 R	2	JC702820	SHCS .375-16 x 1.25
4	2	4520-331	Roller	35 S	2	HS348300	Split Lockwasher .375
5			Removed	35 T	1	4700-239	Top Weight
6	1	PR070002	Foot Pad 4.00 x 7.00	35 U	3	HC702816	SHCS .375-16 x .875
7	1	5221-316	Adjustable Seat Decal	36			Not Used
8 A	1	4800-008	Arm Cushion/Wear Cover	37	1	4705-319	Counterweight
8 B	1	4800-091	Wear Cover	38	•	1100 010	Not Used
9	1	4535-328	Short Pivot Pin	39			Not Used
10	1	4701-020	Weight Stack Guide Rod Set	40	2	BR030210	Retaining Ring 17 mm
10 A	2	4535-329	Weight Stack Guide Rod Set	40	2	BH030210	Not Used
10 B	4	BR030214	Retaining Ring .625	41	1	BS070201	
10 B	2	HS407100	Spring Washer .65 x .79 x .062 T		I	B3070201	Com Spring .56 x .66 x 1.50 L
10 D	2		Plastic Insert 1.00 Dia x 11 G	43			Not Used
10 D		PN660200		44	~		Removed 8/98
	2	PR060005	Weight Bumper	45	2	FB030232	Radial Brg 17 mm ID (Ext Race)
11	1	4505-431	Guard	46	2	FB130205	Flange Brg .62 x .75 x .38 L
12	1	4800-019	Cushion 10" x 12"	47	68"	GB000202	Weight Stack Belt .95" Wide
13	1	4540-200	Frame	48	2	GP000209	Pulley Assembly 3.50
14	1	4540-201	Pivot Arm	49			Not Used
15	1	4540-202	Seat	50	6	HC702817	SHCS .375-16 x 1.00
16	1	4540-205	Cushion Tube	51	4	HC702830	SHCS .375-16 x 2.50
17	1	4540-204	Handle	52	2	HC702834	SHCS .375-16 x 3.00
18	1	4605-511	Plastic Insert 5.94	53	2	HN704901	Nylon Locknut .375-16
19	1	4540-319	Placard Decal	54	-	1111/04001	Removed
20		1010 010	Not Used	55			Not Used
21			Removed	56			
22	1	4605-300	Belt Clamp	57	4		Not Used
					4	HT102214	Tap Screw #10-12 x .625 A (Phil)
23	1	4605-322	Detent Pin	58	-		Not Used
24	1	4605-334	Pivot Shaft 13.06	59	2	JC702820	SHCS .375-16 x 1.25
25	_		Not Used	60			Replaced by item #51
26	3	PR070003	Foot Pad 2.00 x 5.25	61			Not Used
27	2	11090-374	End Cap	62	1	PP090202	Plastic Insert 1.50 x 3.00 x 11 C
28	1	4605-381	Warning Decal	63	1	PP090206	Plastic Insert
29	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm	64	1	PP090210	Plastic Insert 2.00 sq x 10-14 G
29	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht	65	1	PP090211	Plastic Insert 1.50 sq x 10-14 G
29			Removed 3/03	66			Removed
30			Removed 3/03	67	2	4605-510	Grip 4.75" long
30	1	3900-391	Cybex Decal 11.37 Vert Blk/Plm	68	2	PU060203	Bumper
30	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	69	2	4540-321	Bumper Handle
31	1	4605-388	Weight Plate Decal 10-290	70	2	HC702822	SHCS .375-16 x 1.50
32			Not Used	71	-	THO TOLOLL	Not Used
33	1	4605-394	Belt Clamp	72			Removed
34	•		Removed 8/98	73			Removed 3/03
35	1	4701-030	Sliding Increment Weight Set	-	4	2000 200	
				73	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
35 A	1	11040-216	Belt Clamp	73	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
35 B	1	11040-301	Belt Clamp Insert	74	1	4800-026	Cushion
35 C	3	4605-390	Increment Weight	75	1	4701-302	VR2 Weight Stack Instr. (not shown)
35 D		BU 100	Removed 3/03	76	2	JC702814	SHCS .375-16 x .625
35 E	1	BH030207	Weight Selector Pin	77	1	51198	Strength Warranty Sheet (not shown)
35 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L	78	2	HF449063	Tube Insert
35 G	2	HC702817	SHCS .375-16 x 1.00	79	1	4540-323	Adjusting Decal
35 H	2	HC702828	SHCS .375-16 x 2.25	80	1	4520-213	Bracket
35	4	HN704901	Nylon Locknut .375-16	81	1	4520-362	Caution Decal
35 J	4	HS347600	Washer, SAE .375	82	2	HS347700	Washer USS .375
35 K	1	HY740000	Set Screw	83	2	JC702812	SHCS .375-16 x .50
35 L	1	4605-424	Caution Decal	84	9	4000C101	Stack Weight 4 x 18 (not shown)
35 M	1	4700-240	Weight Mount	85	4	JS347400	Internal Tooth Lockwasher
35 N	2	4700-318	Increment Weight Rod	86	2	JC620422	
35 N 35 O	2	4700-319	Frame Mount Increment Weight	00	۷.	JUU20422	BHSCS .250-20 x 1.50
33.0	I	7100-018	rame wount increment weight	L		· · · · · · · · · · · · · · · · · · ·	

ARM EXTENSION - 4540



TOP WEIGHT DETAIL

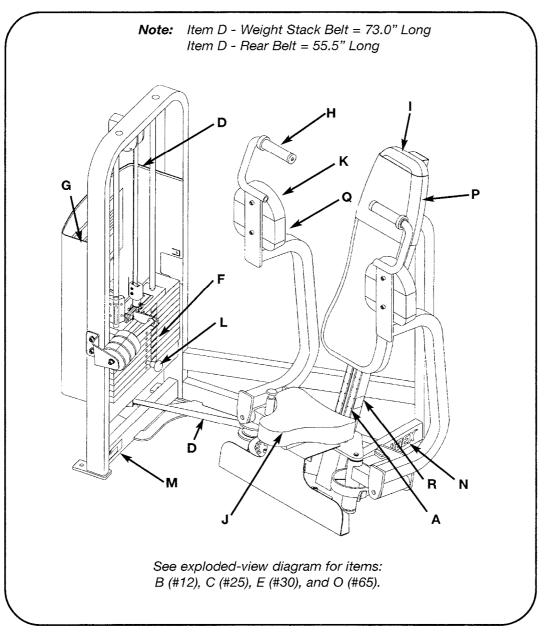


DETAIL

BELT ROUTING

PRODUCT NO. 4545

PARTS LIST



DESCRIPTION

PART NO.

DESCRIPTION

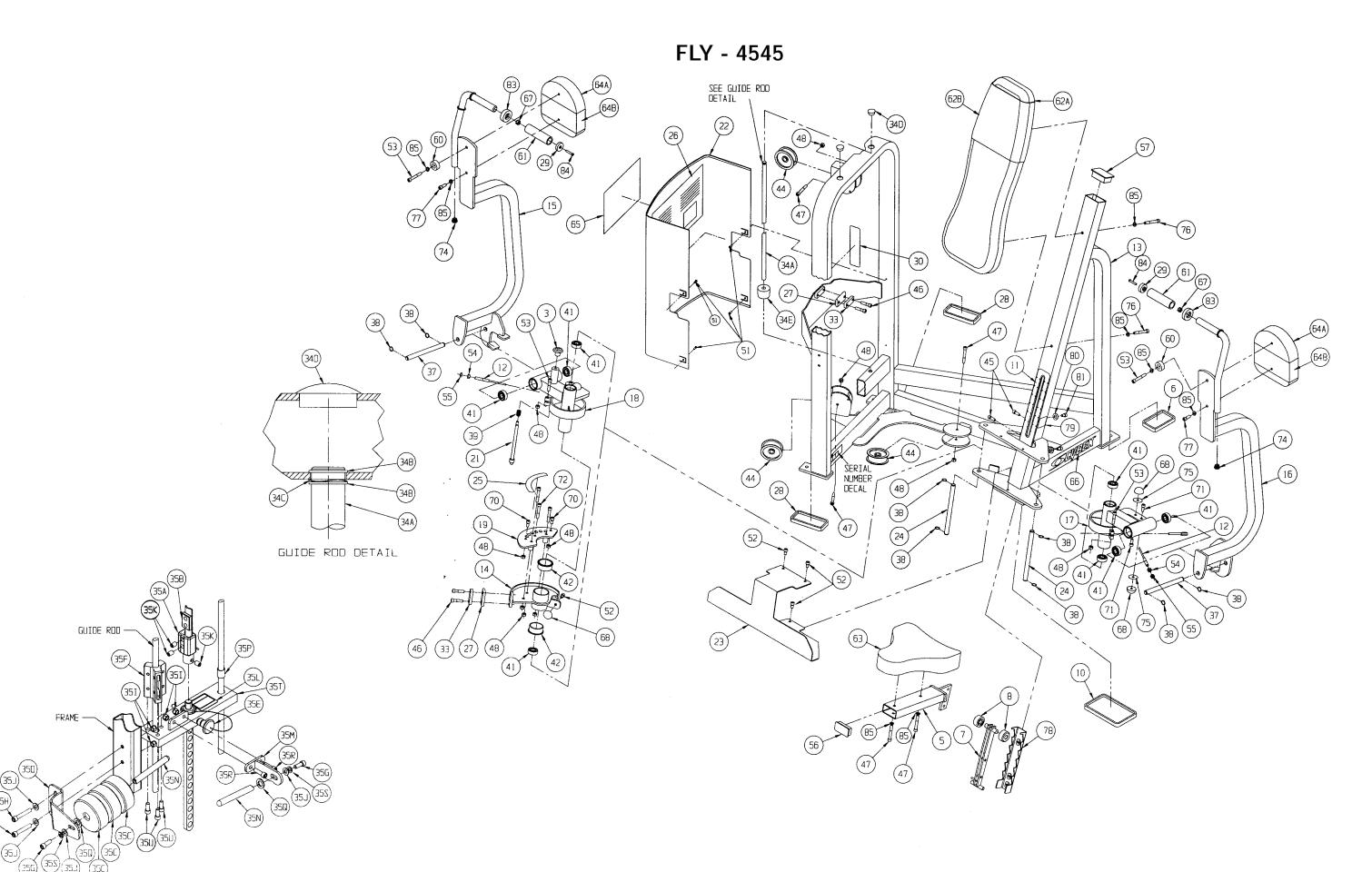
- A. Seat Adjustment Decal. 5221-316
- B. Cable Subassembly...... 4545-002
- **C.** Cam Decal 4545-332
- **D.** Belt .95" wide..... GB000202
- E. Warning Decal...... 4605-381
- **H.** Grip 4605-501
- I. Back Cushion w/Wear Cover...... 4800-103
- J. Seat Cushion...... 4800-026
- **K.** Arm Cushion w/Wear
- Cover...... 4800-018

- L. Weight Selector Pin..... BH030207
- M. Serial Number Decal
- N. Cybex Decal Blk/Plm 3900-390
- N. Cybex Decal Wht/Wht .. 3900-415
- O. Cybex Decal Blk/Plm 3900-391
- **O.** Cybex Decal Wht/Wht .. 3900-419
- P. Wear Cover (Item I) 4800-106
- **Q.** Wear Cover (Item K) 4800-090
- **S.** Caution Decal.....4605-424

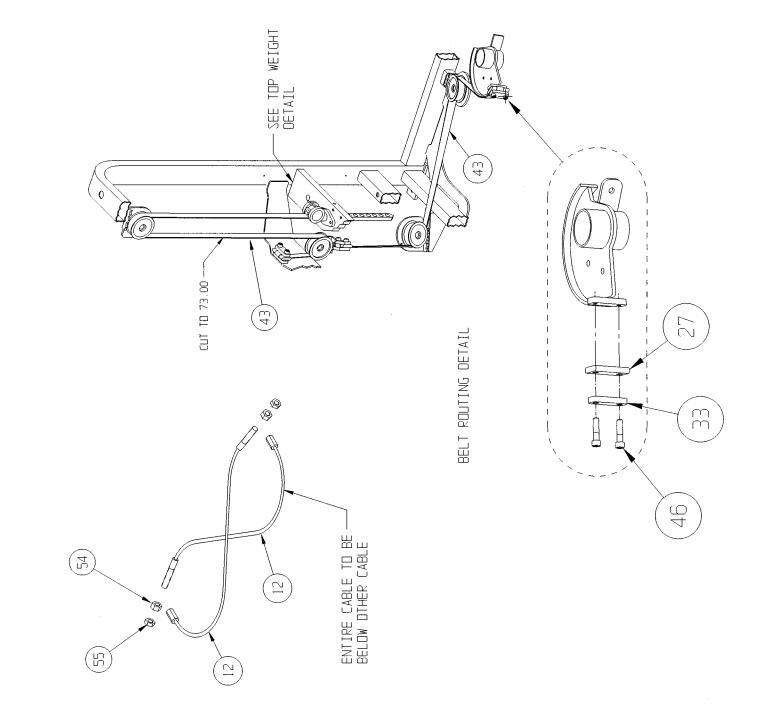
4545 - Fly

4 Not Used 37 2 5220-320 Pixet Shaft 7.06 6 1 PR070001 Foot Pad 2.50 x 4.25 39 1 BS072010 Com Spring, 58 x.68 x 1.50 7 1 4520-212 Seat Roller 40 Com Spring, 58 x.68 x 1.50 8 2 4520-311 Roller 41 8 FB003020 Flange Brg. 20.0 x 2.25 x 1.0 10 1 PR070002 Foot Pad 4.00 x 7.00 43 A 73" GB000020 Input Arm Bet 3.95" Wide 11 1 5221-320 Cable Subassembly 44 4 GF002020 Weight Stack Bet 35" Wide 12 2 4545-000 Cam 44 4 GF002020 Weight Stack Bet 35" Wide 13 1 4645-201 Cam 44 4 GF002020 SHCS .375-16 x 2.50 16 1 4645-201 Cam Hand Arm 48 11 HN724000 Hex Nut .375-16 x .265 17 1 4545-204 Left Hand Arm 48 11 <td< th=""><th>ITEM</th><th>QTY</th><th>PART NO.</th><th>DESCRIPTION</th><th>ITEM</th><th>QTY</th><th>PART NO.</th><th>DESCRIPTION</th></td<>	ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
3 1 1100-440 7 2 5220-320 VP2 Weight Stack Instr. (not a 5 1 4505-207 Seat 38 8 BR303201 Com Spring, 56, 46, 84, 150 6 1 PR070001 Foot Pad 2.60 x 4.25 39 1 BS3072201 Com Spring, 56, 46, 84, 150 7 1 4520-212 Seat Roller 40 Foot Spring, 56, 46, 84, 150 Removed 8 2 4520-331 Roller 41 8 FB030232 Redial Brg17 mm 10 (Ext Ra 9 - Removed 42 2 FB1302002 Weight Stack Eal: S5* Wide More 104, 37, 376 GB000202 Hight Assembly 3, 50 12 2 4643-200 Frame 45 2 HC702227 SHCS, 375-16 x 1, 50 13 1 4644-200 Left Hand Arm 47 6 HC702223 SHCS, 375-16 x 4, 25 14 444-202 Left Hand Arm 47 6 HC702242 SHCS, 375-16 x 4, 25 14 444-202				Not Used	35 T	1	4700-239	Top Weight
4 Not Used 37 2 5220-320 Pivot Shaft 7.06 5 1 PR07001 Foot Pad 2.50 x 4.25 39 1 BS070201 Com Spring. 56 x.08 x 1.50 7 1 4520-212 Seat Roller 40 Removed Removed 8 2 4520-331 Roller 41 8 FB03020 Flange Bg.2.00 x 2.25 x 1.0 10 1 PR070002 Foot Pad 4.00 x 7.00 43 A 73" GB000202 Weight Stack Bet.95" Wide 11 1 5221-316 Seat Adjuatment Decal 43 B 55.5" GB000202 Weight Stack Bet.95" Wide 13 1 4545-200 Cable Subassembly 44 4 GF002030 SHCS.375-16 x 1.50 16 1 4646-203 Left Hand Arm 45 2 HC702830 SHCS.375-16 x .625 17 1 4545-204 Left Hand Arm 48 11 HN74000 Her Nut.375-24 20 1 4545-204 Left Hand Pivot 50				Removed	35 U	3	HC702816	SHCS .375-16 x .875
5 1 4605-207 Seat 38 8 BR03201 Retaining Ring 17mm 6 1 PR070001 Foot Pad 2.60 x 4.25 40 Removed Removed 7 1 4520-212 Seat Roller 40 Removed		1	11040-440	Cybex Knob	36	1	4701-302	VR2 Weight Stack Instr. (not since in)
6 1 PR070001 Foot Pad 2.50 x 4.25 39 1 BS07021 Com Spring, 58 x, 68 x 1.50 7 1 4520-21 Seat Roller 40 Removed 41 8 FB030222 Radial Brg17 mm ID (Ext Ra 9 Permoved 42 2 FB130206 Weight Stack Beit, 95'' Wide 10 1 PR070002 Foot Pad 4.00 x 7.00 43 A 73'' GB000202 Weight Stack Beit, 95'' Wide 11 1 5221-316 Seat Adjustment Decal 43 B 55.6' GB000202 Weight Stack Beit, 95'' Wide 12 2 4545-200 Cam 44 4 GP00202 Pulley Assembly 3.50 13 1 4545-201 Cam 44 4 GP00202 SHCS.375-16 x 1.50 15 1 441 HOT2214 SHCS.375-16 x 1.50 Not Locknut: 375-16 Not Disc 16 1 4645-203 Left Hand Arm 48 1 HT102214 SHCS.375-16 x 1.50 16 1 4545-206 Plate				Not Used	37	2	5220-320	Pivot Shaft 7.06
7 1 4520-212 Seat Foller 40 Removed Radial Brg17 mm ID (Ex ftag) 9 Perroved 41 8 FB302026 Flange Brg 2.00 x.25 x.10. 10 1 521-316 Seat Adjustment Decal 43 A 57.5 GB000202 Input Arm Bett, 95" Wide 12 2 4454-000 Frame 43 55.5 GB000202 Input Arm Bett, 95" Wide 13 1 4454-200 Frame 46 6 HC702820 SHCS.375-16 x.10.0 14 1 4545-201 Cam 46 HC702820 SHCS.375-16 x.25.0 15 1 4645-202 Flight Hand Arm 47 6 HC702820 SHCS.375-16 x.25.0 16 1 4545-206 Plate 50 Removed Feasew #10-12 x.825 Al 120 1 4545-316 Detert Pin 53 4 JC702824 SHCS.375-16 x.1.00 121 1 4545-325 Guard 51 4 HT702214 Tap Serew #10-12 x.825	5	1	4505-207	Seat	38		BR030210	Retaining Ring 17mm
7 1 4520-212 Seat Foller 40 Removed Radial Brg17 mm ID (Ex that Bell s97 Wide 9 10 1 PR070002 Foot Pad 4.00 x 7.00 43 A 73 GB000202 Input Arm ID (Ex that Bell s97 Wide 11 1 5521-316 Seat Adjustment Decal 43 A 73 GB000202 Input Arm Betl .95' Wide 12 2 4455-200 Frame 46 6 PUlley Assembly 34 13 1 4545-200 Frame 46 6 HC702822 SHCS. 375-16 x 1.00 14 1 4545-201 Cam 47 6 HC702823 SHCS. 375-16 x 2.50 15 1 4545-202 Right Hand Arm 48 11 HN74000 Hex xu. 500-13 16 1 4545-207 Connector 52 4 JC702814 SHCS. 375-16 x 2.50 19 1 4545-325 Guard 53 4 JC702814 SHCS. 375-16 x 2.50 22 1 4545-316 Detert Pin 53<	6	1	PR070001	Foot Pad 2.50 x 4.25	39	1	BS070201	Com Spring .56 x .66 x 1.50 L
9 Perroved 42 2 Fit 302/6 Fit ange Brg. 200 x 2.25 x 1.0 10 1 521-316 Seat Adjustment Decal 43 A 7.3 GB000202 Input Arm Bett, 80" Wide 12 2 4545-000 Frame 43 A 7.3 GB000202 Input Arm Bett, 80" Wide 13 1 4545-200 Frame 45 2 HC702822 SHCS. 375-16 x 1.00 14 1 4545-202 Right Hand Arm 47 6 HC702823 SHCS. 375-16 x 2.50 16 1 4545-204 Left Hand Arm 48 11 HN764000 Hex Nut. 300-13 18 1 4545-205 Pilate 50 Removed Hex Nut. 375-74 SACS. 375-16 x .023 20 1 4545-326 Guard 51 4 HT102214 Tap Serw #10-12 x .625 A /l 21 1 4545-326 Kick Plate 52 2 JNT14200 Hex Nut. 375-24 22 1 4565-31 Piootoxa Sac Calein 0<	7	1	4520-212	Seat Roller	40			
9 Removed 42 2 2 FB30206 Flange Brg 2.00 x 2.25 x 1.0 10 1 521-316 Seat Adjustment Decal 43 A 7.3 GB000202 Input Arm Bett .95" Wide 12 2 4545-000 Frame 43 B 7.3 GB000202 Input Arm Bett .95" Wide 13 1 4545-200 Frame 45 2 HC702820 SHCS. 375-16 x 1.00 14 1 4545-202 Fight Hand Arm 47 6 HC702820 SHCS. 375-16 x 2.50 16 1 4545-204 Left Hand Arm 48 11 HN74000 Hex Xu. 500-13 18 1 4545-205 Right Hand Arm 48 11 HN74000 Hex Xu. 500-13 18 1 4545-206 Plate 50 Removed SHCS. 375-16 x 1.62 20 1 4545-305 Guard 53 4 JC702814 SHCS. 375-16 x 1.25 21 1 4545-305 Guard 53 4 JC7	8	2	4520-331	Roller	41	8	FB030232	Radial Brg17 mm ID (Ext Bace)
10 1 PR070002 Foot Pad 4.00 x 7.00 43 A 73" G8000202 Weight Stack Bell, 95" Wide 11 1 5221-16 Seat Adjustment Decal 43 B 55.5" G8000202 Input Arm Bell, 95" Wide 12 2 4545-201 Cable Subasembly 44 4 G8000202 Pulley Assembly 3.50 14 1 4545-201 Cam 46 6 HC702812 SHCS, 375-16 x 1.50 15 1 4645-203 Left Hand Arm 48 6 HC702812 SHCS, 375-16 x 2.50 16 1 4645-205 Right Hand Pivot 49 4 HN704900 Hes Nut, 500-13 18 1 4545-207 Connector 52 4 UC702814 SHCS, 375-16 x 1.25 22 1 4545-207 Connector 52 4 UC702814 SHCS, 375-16 x 1.25 23 1 4545-325 Rick Ntt, 375-24 55 1 PP000202 Plastic Insert 1.50 X 3.00 x 1 24 4545-898	9			Removed	42		FB130206	
11 1 5221-316 Seat Adjustment Decal 43 55.5" GB00202 Input Arm Belt.95" Wide 13 1 4545-200 Frame 44 4 GP00209 Pulley Assembly 3::0 14 1 4545-201 Cam 45 2 HC702817 SHCS.375-16 x 1:00 15 1 4545-202 Right Hand Arm 47 6 HC702823 SHCS.375-16 x 1:50 16 1 4545-203 Left Hand Prot 50 Hernoved 48 11 HN764000 Hex Nut.500-13 16 1 4545-205 Right Hand Prot 50 Bernoved 50 Hernoved 49 H1102214 Tap Screw #10-12 x .625 A (1) 21 1 4545-205 Connector 52 4 JC702824 SHCS.375-16 x 1.75 22 1 4545-205 Guard 55 JN714200 Hex Nut.375-24 23 1 4545-33 Decal 57 PP0902020 Plastic Insert 1.50 X 3.00 X 1	10	1	PR070002	Foot Pad 4.00 x 7.00	43 A			
12 2 4456-002 Cable Subasembly 44 4 Geno2ces Pulley Assembly 3.50 13 1 4564-200 Frame 45 2 H0702817 SHCS. 375-16 x 1.50 14 1 4564-201 Cam 46 6 H0702812 SHCS. 375-16 x 1.50 15 1 4545-202 Right Hand Arm 47 6 H1702822 SHCS. 375-16 x 1.50 16 1 4545-205 Right Hand Pivot 49 4 HN74000 Hex Nut. 500-13 18 1 4545-205 Right Hand Pivot 50 Hex Nut. 500-13 Removed 19 1 4545-207 Connector 52 4 JC702814 SHCS. 375-16 x 1.625 21 1 4545-315 Guard 53 4 JC702814 SHCS. 375-16 x 1.50 22 1 4565-32 Cam Decal 55 2 JN714400 Jam Nut. 375-24 24 2 4545-332 Pade2.00 x 5.25 60 2	11	1	5221-316					
13 1 454-200 Frame 45 2 PL7028177 SHCC3 375-16 x 1.00 14 14 454-201 Cam 46 6 HC7028177 SHCC3 375-16 x 1.50 15 1 4545-202 Hight Hand Arm 47 6 HC702830 SHC6, 375-16 x 1.50 16 1 4545-205 Hight Hand Pivot 48 1 HN784000 Hex Nut. 300-13 18 1 4545-206 Plate 50 Removed Removed 20 1 4545-206 Plate 51 4 HT102214 Tap Screw #11-12 x.625 A () 21 1 4545-205 Guard 54 2 JN714400 Jam Nut. 375-24 23 1 4545-332 Gaund 54 2 JN714400 Jam Nut. 375-24 24 2 4545-332 Cam Decal 57 1 PP0902020 Plastic Insert 1.50 X 3.00 x 1 25 1 4505-306 Placard Decal 59 Not Used N								•
14 1 454-201 Cam 46 6 HC702822 SHCS.375-16 x 1.50 15 1 454-202 Right Hand Arm 47 6 HC702822 SHCS.375-16 x 2.50 16 1 4545-203 Left Hand Arm 48 11 HN784000 Nylon Locknut.375-16 17 1 4545-205 Right Hand Pivot 49 4 HN784000 Nylon Locknut.375-16 19 1 4545-205 Right Hand Pivot 50 Tap Screw H10-12 x .625 A 622 x .625 A 76 x .625 21 1 4545-315 Detern Fin 63 4 JC702824 SHCS.375-16 x 1.75 22 1 4545-331 Detern Fin 65 2 JN71400 Jam Nut.375-24 23 1 4545-331 Pivot Shaft 9.13 56 1 PP090206 Plastic Insert 1.50 X 3.00 x 1 24 24 545-332 Cam Decal 57 1 PP090206 Plastic Insert 1.50 X 3.00 x 1 25 1 4545-332<								
15 1 4545-202 Hight Hand Arm 47 6 H (7)20830 EHC (2, 37-16); 2, 250 16 1 4645-203 Left Hand Arm 48 11 HN784000 Nyton Lokonu; 375-16 17 1 4545-203 Left Hand Pivot 50 Removed Hex Nut .500-13 18 1 4545-205 Right Hand Pivot 50 Removed Hex Nut .500-13 20 1 4545-205 Right Hand Pivot 52 4 J0702814 SHCS .375-16 x .625 21 1 4545-325 Guard 52 4 J0702814 SHCS .375-16 x .757-24 23 1 4545-325 Guard 56 1 JN714400 Jam Nut .375-24 24 2 4545-330 Belt Clamp 58 Not Used Plastic Insert 1.50 X .3.00 x 1 25 1 4545-588 Placard Decal 57 1 PP090202 Plastic Insert 1.50 X .3.00 x 1 26 1 4605-384 Placard Decal 10-290 62 A		1						
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17 1 4545-204 Left Hand Pivot 40 4 HN784000 Hex Nut 500-13 18 1 4545-205 Right Hand Pivot 50 Bemoved Bemoved 20 1 4545-206 Pitate 51 4 HT102214 Strosset Strosset 21 1 4545-207 Connector 52 4 JC702814 SHCS.375-16 x.255 22 1 4545-325 Kick Plate 55 JN714200 Hex Nut 375-24 23 1 4545-326 Caun Decal 57 PP090202 Plastic Insert 1.50 X.3.00 x 1 25 1 4545-300 Belt Clamp 59 Not Used Not Used 26 1 4545-300 Belt Clamp 59 Not Used Not Used 29 2 1090-374 End Cap 62 A 1 4800-103 Back Cushion w/Wear Cover 31 4605-381 Warning Decal 62 A 1 4800-103 Back Cushion w/Wear Cover		1						
18 1 4545-205 Right Hand Pivot 50 Removed 19 1 4545-206 Plate 51 4 HT102214 Tap Screw #10-12 x. 625 A (I 20 1 4545-207 Connector 52 4 JC702824 SHCS. 375-16 x. 625 21 1 4545-316 Detent Pin 53 4 JC702824 SHCS. 375-16 x. 625 22 1 4545-325 Kick Plate 55 2 JN714400 Jam Nut. 375-24 24 2 4545-331 Pivot Shaft 9.13 56 PP090202 Plastic Insert 1.50 X 3.00 x 1 26 1 4545-588 Placard Decal 53 Not Used Not Used 28 2 PR070003 Foot Pad 2.00 x 5.25 60 2 PR060003 Back Cushion w/Wear Cover 32 1 4605-388 Weight Plate Decal 10-290 63 4 4800-108 Back Cushion w/Wear Cover 34 4 701-020 Weight Stack Guide Rod 65 3900-391								,
19 1 4545-206 Plate 51 4 HT102214 Tap Sorew #10-12 x .625 A (l 20 1 4545-207 Connector 52 4 JC702814 SHCS.375-16 x 1.75 21 1 4545-216 Guard 53 4 JC702824 SHCS.375-16 x 1.75 22 1 4545-236 Kick Plate 55 2 JN714200 Hex.Nut.375-24 23 1 4545-332 Cam Decal 57 1 PP090202 Plastic Insert 1.50 X 3.00 x 1 25 1 4545-532 Cam Decal 58 Not Used Not Used 26 1 4545-598 Placard Decal 58 Not Used Not Used 27 3 4605-302 Grip 9.0 long Back Cushion w/Wear Cover Not Used 30 1 4605-384 Weight Plate Decal 62.2 1 4800-108 Back Cushion w/Wear Cover 34 4 9605-384 Beit Clamp 64.4 2 4800-018 Arm Cush	1					-1	1111/04000	
20 1 4545-207 Connector 52 4 JC702814 SHCS.375-16 x.625 21 1 4545-316 Detent Pin 53 4 JC702814 SHCS.375-16 x.625 22 1 4545-325 Kick Plate 55 2 JN714200 Jam Nut.375-24 23 1 4545-325 Kick Plate 55 2 JN714200 Jam Nut.375-24 24 2 4545-331 Pioto Shaft 9.13 56 1 PP090202 Plastic Insert 1.50 X.3.00 x.1 26 1 4545-382 Cam Decal 57 1 PP090206 Plastic Insert 1.50 X.3.00 x.1 27 3 4605-300 Belt Clamp 59 Not Used Not Used 28 2 P107003 Foot Pad 2.00 x 5.25 60 2 PR060003 Recess Bumper 31 4605-384 Warning Decal 62 A 1 4800-108 Wear Cover 32 1 4605-384 Weight Stack Guide Rod Set 64 A 2 <td>1</td> <td>-</td> <td></td> <td>•</td> <td></td> <td>Δ</td> <td>HT102214</td> <td></td>	1	-		•		Δ	HT102214	
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23 1 4545-325 Kick Plate 55 2 JN714400 Jam Nut. 375-24 24 2 4545-331 Pivot Shaft 9.13 56 1 PP090202 Plastic Insert 1.50 X 3.00 x 1 25 1 4545-392 Cam Decal 57 1 PP090206 Plastic Insert Not Used 26 1 4545-598 Placard Decal 59 Not Used Not Used 28 2 PR070003 Foot Pad 2.00 x 5.25 60 2 PR060003 Recess Bumper 30 1 4605-381 Warning Decal 62 A 1 4800-106 Wear Cover 31 4605-384 Weight Plate Decal 63 1 4800-016 Wear Cover 34 1 4701-020 Weight Stack Guide Rod Set 64 A 2 4800-018 Arm Cushion w/Wear Cover 34 A 2 BR030214 Retaining Ring .625 65 1 3900-391 Cybex Decal 11.37 Vert. Bik/ 34 E 2 PR060200 P								
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28 2 PR070003 Foot Pad 2.00 x 5.25 60 2 PR060003 Recess Bumper 29 2 11090-374 End Cap 61 2 4605-502 Grip 9.0 long 30 1 4605-381 Warning Decal 62 A 4800-106 Wear Cover 31	1							
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35 F 1 FB130208 Bearing Sleeve .68 x .81 1.00 L 72 3 HC702828 SHCS .375-16 x 2.25 35 G 2 HC702817 SHCS .375-16 x 1.00 73 Not Used 35 H 2 HC702828 SHCS .375-16 x 2.25 74 2 PP090213 Plastic Insert 35 I 4 HN704901 Nylon Locknut .375-16 75 * 4545-341 Shim Washer .015 35 J 4 HS347600 Washer, SAE .375 76 2 HC702820 SHCS .375-16 x 3.00 35 K 1 HY740000 Set Screw 77 2 JC702820 SHCS .375-16 x 1.25 35 L 1 4605-424 Caution Decal 78 1 4520-213 Bracket 35 M 1 4700-240 Weight Mount 79 1 4520-362 Caution Decal 35 N 2 4700-318 Increment Weight Rod 80 2 HS347700 Washer USS .375-16 x .50 35 P 2 4701-001 Top Weight Guide 82 9 4000C101 Stack Weight 4 x 18 (not sho			DU 1000007					
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35 I 4 HN704901 Nylon Locknut .375-16 75 * 4545-341 Shim Washer .015 35 J 4 HS347600 Washer, SAE .375 76 2 HC702834 SHCS .375-16 x 3.00 35 K 1 HY740000 Set Screw 77 2 JC702820 SHCS .375-16 x 1.25 35 L 1 4605-424 Caution Decal 78 1 4520-213 Bracket 35 M 1 4700-240 Weight Mount 79 1 4520-362 Caution Decal 35 N 2 4700-318 Increment Weight Rod 80 2 HS347700 Washer USS .375 35 O 1 4700-319 Frame Mount Increment Weight 81 2 JC702812 SHCS .375-16 x .50 35 P 2 4701-001 Top Weight Guide 82 9 4000C101 Stack Weight 4 x 18 (not sho					;			
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35 M 1 4700-240 Weight Mount 79 1 4520-362 Caution Decal 35 N 2 4700-318 Increment Weight Rod 80 2 HS347700 Washer USS .375 35 O 1 4700-319 Frame Mount Increment Weight 81 2 JC702812 SHCS .375-16 x .50 35 P 2 4701-001 Top Weight Guide 82 9 4000C101 Stack Weight 4 x 18 (not sho	1							
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35 P 2 4701-001 Top Weight Guide 82 9 4000C101 Stack Weight 4 x 18 (not sho	1			0				
				Ş	1 1 1 L L L L L L L L L L L L L L L L L			
35 Q 2 4700-321 Rubber Washer I 83 2 11090-376 Handle Grip Ring								Stack Weight 4 x 18 (not shown)
		2				2		Handle Grip Ring
35 R 2 JC702820 SHCS .375-16 x 1.25 84 2 JC620422 BHSCS .250-20 x 1.50				SHCS .375-16 x 1.25				
35 S 2 HS348300 Split Lockwasher .375 85 8 JS347400 Internal Tooth Lockwasher	35 S	2	HS348300	Split Lockwasher .375	85	8	JS347400	Internal Tooth Lockwasher

*Quanity will vary



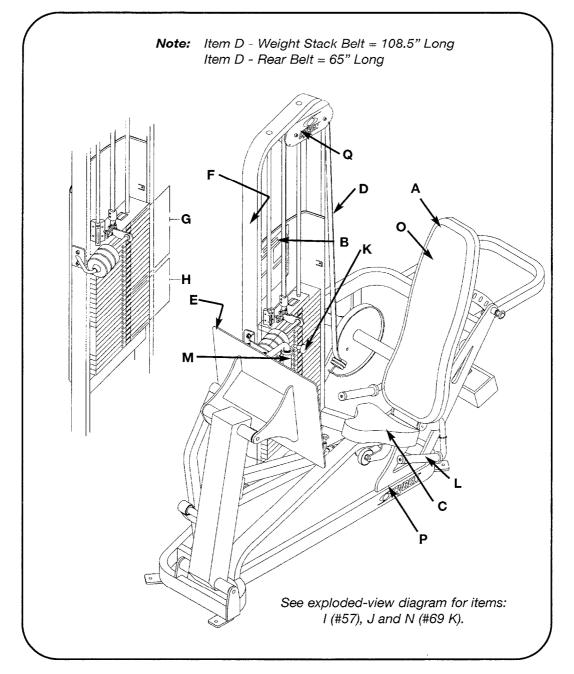
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SEATED LEG PRESS

PRODUCT NO. 4605

PARTS LIST



DESCRIPTION

PART NO.

Α.	Back Cushion w/Wear
	Cover 4800-111
В.	Placard Decal 4605-374
С.	Seat Cushion 4800-026
D.	Belt GB000202
Ε.	Non-Slip 4605-372
F.	Warning Decal 4605-381
G.	Weight Plate Decal 4605-388
Н.	Weight Plate Decal 4605-389
I.	Cybex Decal Blk/Plm 3900-391
I.	Cybex Decal Wht/Wht 3900-419

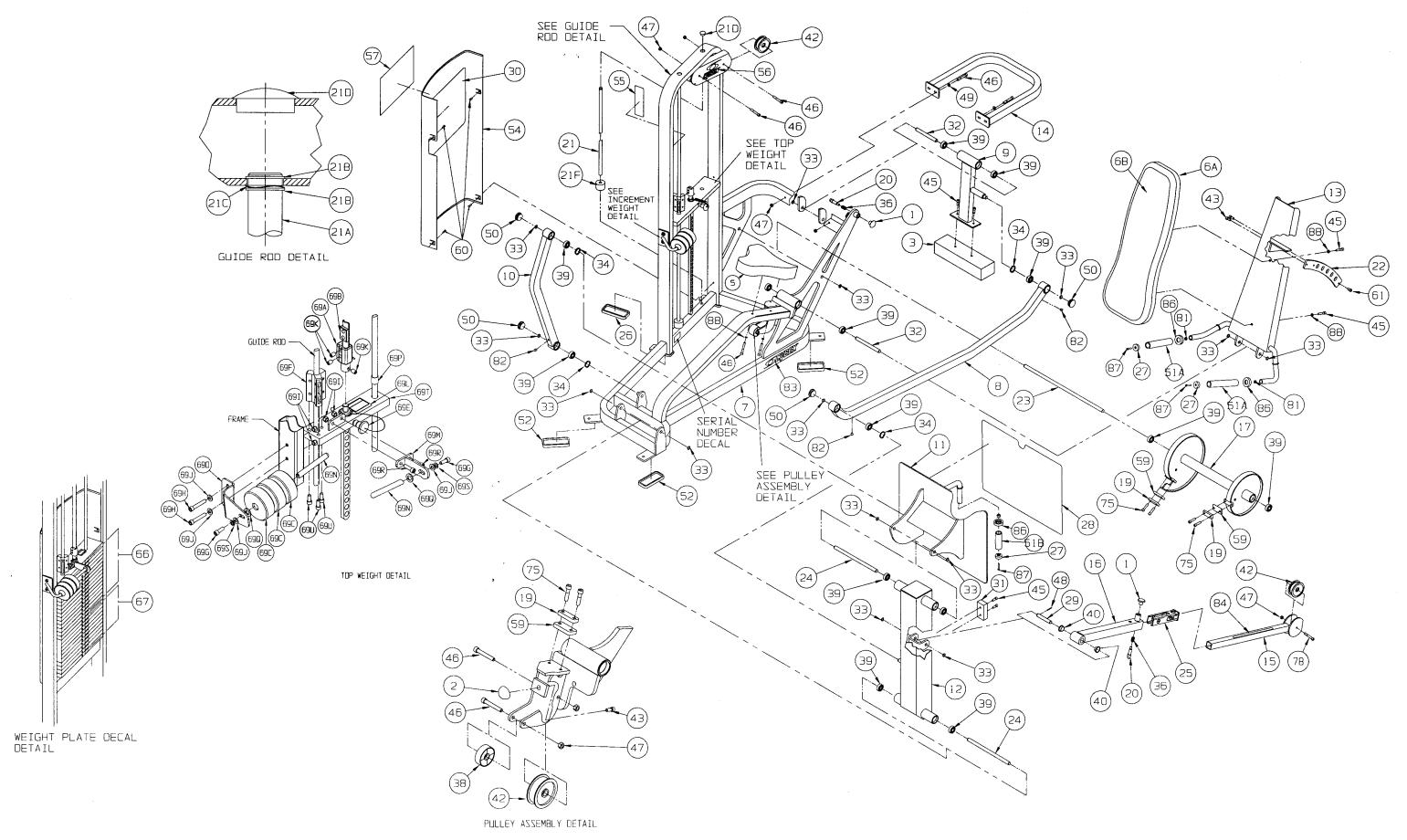
DESCRIPTION

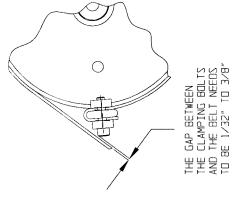
PART NO.

4605 - Seated Leg Press

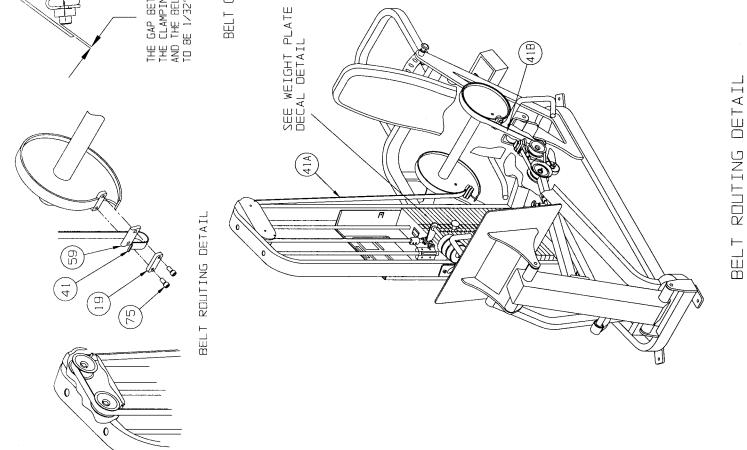
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	2	11040-440	Cybex Knob	55	1	4605-381	Warning Decal
2	1	4505-331	Bumper 1.50 Dia	56	1	3900-423	Cybex Decal 4.85 Vert. Blk/P
3	1	ZC000001	Counterweight	56	1	3900-424	Cybex Decal 4.85 Vert. Wht/w.
4			Removed	56	·		Removed 3/03
5	1	4800-026	Seat Cushion	57			Removed 3/03
6 A	1	4800-111	Backrest Cushion w/Wear Cover	57	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm
6 B	1	4800-114	Wear Cover	57	i	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
7	1	4605-200	Frame	58	•	0000 410	Removed
8	1	4605-201	Linkage (Long)	59	3	4605-394	Belt Clamp
9	1	4605-202	Counterweight	60	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
10	1	4605-203	Linkage (Short)	61	1	JC702814	SHCS .375-16 x .625
11	1	4605-204	Footplate	62	1	00702014	Removed
12	1	4605-205	Pivot Bracket	63			
13	1	4605-205					Removed
14	1		Cushion Support	64			Not Used
1		4605-207	Guard	65		1005 000	Not Used
15	1	4605-216	Adjusting Tube (Inner)	66	1	4605-388	Weight Plate Decal 10-290
16	1	4605-217	Adjusting Tube (Outer)	67	1	4605-389	Weight Plate Decal 310-490
17	1	4605-211	Cam	68			Not Used
18			Removed	69	1	4701-033	Sliding Increment Weight Set
19	3	4605-300	Belt Clamp	69 A	1	11040-216	Belt Clamp
20	2	4605-322	Detent Pin	69 B	1	11040-301	Belt Clamp Insert
21	1	4701-024	Weight Stack Guide Rod Set	69 C	3	4605-390	Increment Weight
21 A	2	4605-323	Weight Stack Guide Rod	69 D			Removed 3/03
21 B	4	BR030214	Retaining Ring .625	69 E	1	BH030207	Weight Selector Pin
21 C	2	HS407100	Spring Washer .65 x .79 x .062 T	69 F	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
21 D	2	PN660200	Plastic Insert 1.00 Dia x 11G	69 G	4	HC702817	SHCS .375-16 x 1.00
21 E	2	PR060005	Weight Bumper	69 H	2	HC702828	SHCS .375-16 x 2.25
22	1	4605-327	Adjusting Arm	69 1	4	HN704901	Nylon Locknut .375-16
23	1	4605-333	Pivot Shaft 26.25	69 J	4	HS347600	Washer, SAE .375
24	2	4605-334	Pivot Shaft 13.06	69 K	1	HY740000	
25	2	4605-512	Plastic Insert 7.94	69 L			Set Screw .375-16 x .25 Cup Pt
26	2	PR070003		1	1	4605-424	Caution Decal
20	3	11090-374	Foot Pad 2.00 x 5.25	69 M	1	4700-240	Weight Mount
28	3		End Cap	69 N	2	4700-318	Increment Weight Rod
		4605-372	Non-Slip	69 O	1	4700-319	Frame Mount Increment Weig
29	1	4605-373	Pivot Shaft 4.06	69 P	2	4701-001	Top Weight Guide
30	1	4605-374	Placard Decal	69 Q	2	4700-321	Rubber Washer
31	1	5220-305	Bumper 2.00 x 4.00	69 R	2	JC702820	SHCS .375-16 x 1.25
32	2	5220-320	Pivot Shaft 7.06	69 S	2	HS348300	Split Lockwasher .375
33	16	BR030210	Retaining Ring 17 mm	69 T	1	4700-238	Top Weight
34	4	BR030212	Retaining Ring 1.575 Internal	69 U	3	HC702816	SHCS .375-16 x .875
35			Not Used	70			Removed
36	2	BS070201	Com Spring .56 x .66 x 1.50 L	71			Not Used
37			Not Used	72			Not Used
38	1	GP000210	Pulley Assembly 3.00 Idler	73			Not Used
39	14	FB030232	Radial Brg 17 mm ID (Ext Race)	74			Not Used
40	2	FB130207	Flange Brg 17 mm x 19 mm x 25 mm	75	6	HC702822	SHCS .375-16 x 1.50
41 A	108.5"	GB000202	Weight Stack Belt .95" Wide	76			Not Used
41 B	65"	GB000202	Rear Belt .95" Wide	77			Not Used
42	4	GP000209	Pulley Assembly 3.50	78	1	HC702826	SHCS .375-16 x 2.00
43	3	HC702815	SHCS .375-16 x .750	79	1	4701-302	VR2 Weight Stack Instr (not shown)
44			Removed	80	1	51198	Strength Warranty Sheet (not shown)
45	6	HC702817	SHCS .375-16 x 1.00	81	3	HF449063	Tube Insert
46	8	HC702830	SHCS .375-16 x 2.50	82	3	PP080207	Plastic Insert
47	6	HN704901	Nylon Locknut .375-16	83	5		Removed 3/03
48	1	HP266717	Spiral Pin .125 x 1.00	83	1	3900-390	Cybex Decal 1.57 Horiz, Blk/Plm
49		11 2007 17	Not Used	83	1	3900-390	
49 50	4	PP090208	Plastic Insert 1.75 Dia	83 84			Cybex Decal 1.57 Horiz. Wht/Wht
50 51 A	4 2	4605-506			1	4605-427	Adjusting Decal
51 A			Grip 8.0" Long	85	14	4000C101	Stack Weight 4 x 18 (not shown)
	1	4605-509 BB070001	Grip 4.0" Long	86	3	11090-376	Handle Grip Ring
52	3	PR070001	Foot Pad 2.50 x 4.25	87	3	JC620422	BHSCS .250-20 x 1.50
53 54		4505 40 4	Removed 8/98	88	4	JS347400	Internal Tooth Lockwasher
	1	4505-434	Guard	1			

SEATED LEG PRESS - 4605





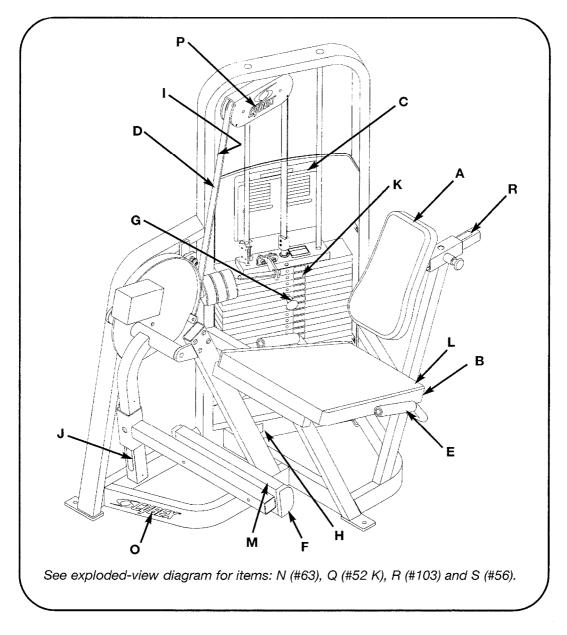
BELT CLAMPING DETAIL



LEG EXTENSION

PRODUCT NO. 4611, 4612, 4613

PARTS LIST



DESCRIPTION

PART NO.

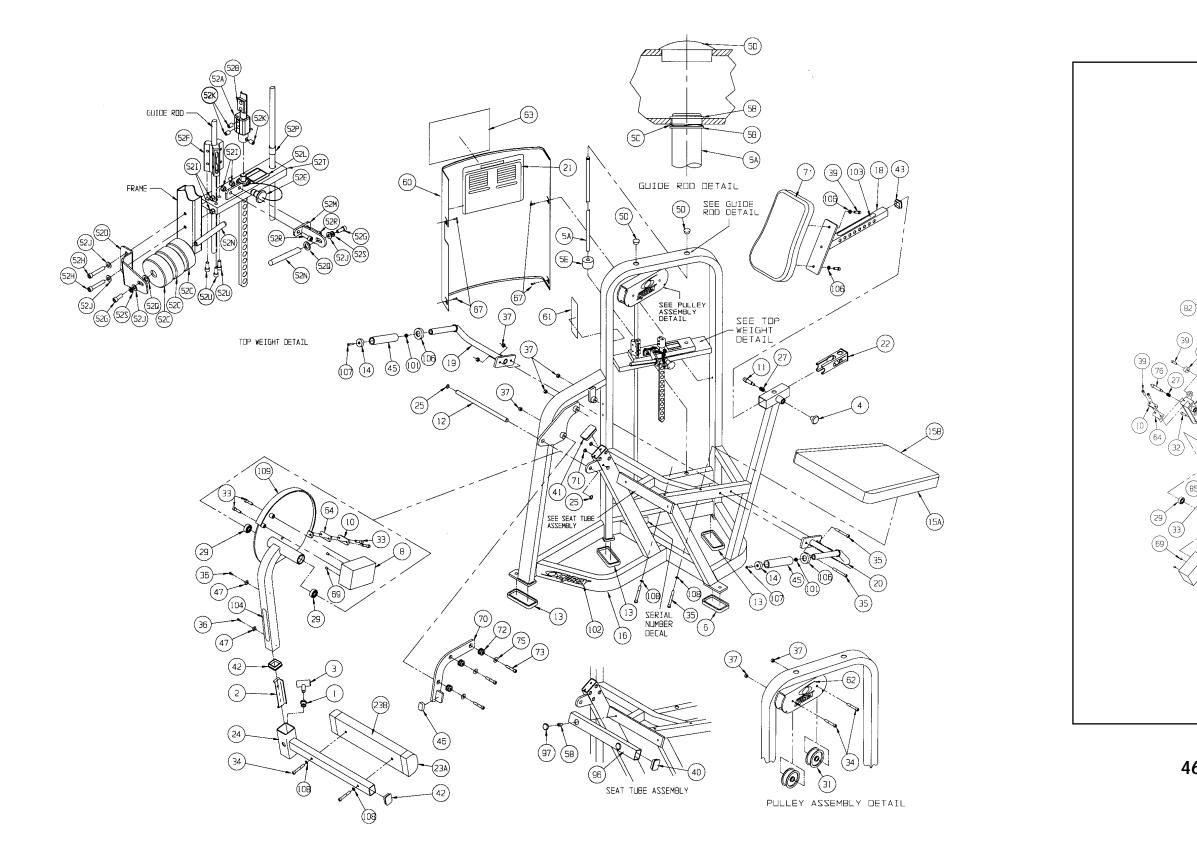
- A. Back Cushion..... 4800-115
- **B.** Seat Cushion w/Wear
- Cover 4800-012
- **C.** Placard 4610-320
- D. Belt..... GB000202
- E. Grip 4605-507F. Leg Bar Cushion
- w/Wear Cover...... 4800-006
- G. Weight Selector Pin BH030207
- H. Serial Number Decal
- I. Warning Decal..... 4605-381
- J. Adjusting Decal 4855-317

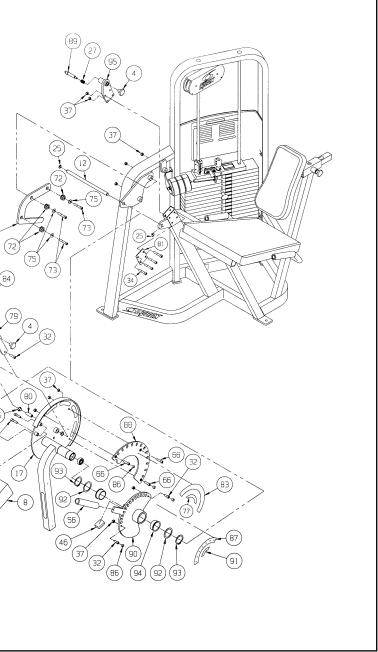
DESCRIPTION

- K. Weight Plate Decal...... 4605-388
- L. Wear Cover (item B) 4106S079-0
- **M.** Wear Cover (item F) 4800-093
- N. Cybex Decal Blk/Plm 3900-391
- N. Cybex Decal Wht/Wht .. 3900-419
- **O.** Cybex Decal Blk/Plm ... 3900-390 **O.** Cybex Decal Wht/Wht .. 3900-415
- **P.** Cybex Decal Blk/Plm ... 3900-423
- P. Cybex Decal Wht/Wht .. 3900-424
- Q. Caution Decal 4605-424
- **R.** Adjusting Decal 4850-314
- **S.** Grip 4605-515

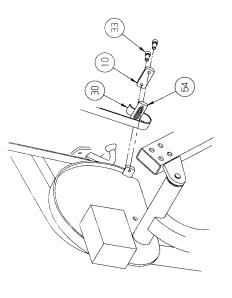
4611, 4612, 4613 - Leg Extension

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	01692	Threaded Insert	52 N	2	4700-318	Increment Weight Rod
2	1	01694	Corner Bracket	52 0	1	4700-319	Frame Mount Increment Weight
3	1	11060-002	Handle Subassembly	52 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
4	1	11040-440	Cybex Knob	52 Q	2	4700-321	Rubber Washer
5	1	4701-021	Weight Stack Guide Rod Set	52 R	2	JC702820	SHCS .375-16 x 1.25
5 A	2	4505-319	Weight Stack Guide Rod	52 S	2	HS348300	Split Lockwasher .375
5 B	4	BR030214	Retaining Ring .625	52 T	1	4700-238	Top Weight
5 C	2	HS407100	Spring Washer .65 x .79 x .062 T	52 U	3	HC702816	SHCS .375-16 x .875
5 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G	53	1	4701-201	Lifting Post 15
5E	2	PR060005	Weight Bumper	54	1	51119	Selector Pin Retainer
6	1	PR070001	Foot Pad 2.50 x 4.25	55	1	BH030201	Quick Release Pin
7	1 1	4800-115	Back Cushion	56	1	4605-515	Grip 3.25" Long
8	I	4535-324	Counterweight Removed	57 58	2	HS407100	Spring Washer .65 x .79 x .062 T
10	1	4605-300	Belt Clamp	59	2 2	JC702814 PN660200	SHCS .375-16 x .625 Plastic Insert
11	1	4605-322	Detent Pin	60	1	4505-432	Guard
12	1	4605-334	Pivot Shaft 13.06	61	1	4605-381	Warning Decal
13	3	PR070003	Foot Pad 2.00 x 5.25	62	1	4000 001	Removed 3/03
14	2	11090-374	End Cap	62	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
15 A	1	4800-012	Seat Cushion w/Wear Cover	62	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
15 B	1	4106S079-0	Wear Cover	63	•		Removed 3/03
16	1	4611-200	Frame	63	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm
17	1	4613-208	Cam	63	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
18	1	4611-207	Cushion Tube	64	1	4605-394	Belt Clamp
19	1	4610-203	Handle (Right Hand)	65			Removed 5/99
20	1	4610-204	Handle (Left Hand)	66			Not Used
21	1	4610-320	Placard Decal	67	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
22	1	4605-511	Plastic Insert	68			Removed 8/98
23 A	1	4800-006	Leg Bar Cushion w/Wear Cover	69	2	PP080221	Black Insert .375 Dia
23 B	1	4800-093	Wear Cover	70	1	4611-206	Stop Bar
24	1	4611-204	Leg Bar	71	8	PP660006	Snap In Plug
25	2	BR030210	Retaining Ring 17 mm	72	3	PR740300	Center Bonded Mount
26			Not Used	73	3	HC702828	SHCS .375-16 x 2.25
27	3	BS070201	Com Spring .56 x .66 x 1.50 L	74			Not Used
28	2	PR060005	Weight Bumper	75	3	HS347700	Washer .375 USS
29	2	FB030232	Radial Brg 17 mm ID (Ext Race)	76	1	4505-329	Detent Pin
30	76"	GB000202	Belt .95" Wide	77	1	4612-596	RDL Start Decal
31	2	GP000209	Pulley Assembly 3.50	78		1010 000	Removed
32	5	HC702816	SHCS .375-16 x .875	79	1	4613-203	Cam Arm
33 34	5 6	HC702822	SHCS .375-16 x 1.50	80 81	1	4613-302	Short Pivot Pin
34	6	HC702830 HC702834	SHCS .375-16 x 2.50 SHCS .375-16 x 3.00	82	1 1	4613-304 4613-326	Plate Bar Stop
36	2	HD303318	Bolt .250 X .250 x .190/10-24	83	1	4613-327	Input Cam Decal
37	9	HN704901	Nylon Locknut .375-16	84	1	FB030239	Cam Follower 10 mm
38	5	111104001	Not Used	85	2	FB130205	Flange Brg .62 x .75 x .38 L
39	5	JC702820	SHCS .375-16 x 1.25	86	4	PP080222	Vinyl End Cap .50 x .50
40	1	PP090000	Plastic Insert 1.5 x 2.0 -11 G	87	1	4613-328	Cam Stop Decal
41	1	PP090202	Plastic Insert 1.5 x 3.0 -11 G	88	1	4613-331	Cam Plate
42	2	PP090210	Plastic Insert 2.00 sq x 10-14 G	89	1	4613-320	Detent Pin
43	1	PP090211	Plastic Insert 1.50 sq x 10-14 G	90	1	4613-202	Start Stop
44			Removed	91	1	4613-594	Total RLD Decal
45	1	4605-507	Grip 6.5" Long	92	2	4715-336	Washer
46	1	PU060203	Bumper	93	2	BR030213	External Retaining Ring 2.00
47	1	PU060211	Bumper .62 sq x .25	94	2	FB130206	Flange Brg 2.00 x 2.75 x 1.50 L
48			Not Used	95	1	4613-206	Detent Plate
49			Not Used	96	1	4611-333	Tube
50	1	4605-388	Weight Plate Decal 10-290	97	2	PP080202	Plastic Insert 1.19 Dia X 11 G
51			Not Used	98			Not Used
52	1	4701-031	Sliding Increment Weight Set	99	1	4701-302	VR2 Weight Stack Instr. (not shown)
52 A	1	11040-216	Belt Clamp	100	1	51198	Strength Warranty Sheet (not shown)
52 B	1	11040-301	Belt Clamp Insert	101	2	HF449063	Tube Insert
52 C	3	4605-390	Increment Weight	102	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
52 D			Removed 3/03	102	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht
52 E	1	BH030207	Weight Selector Pin	102			Removed 3/03
52 F	1	4701-001	Top Weight Guide	103	1	4850-314	Adjusting Decal
52 G	2	HC702817	SHCS .375-16 x 1.00	104	1	4855-317	Adjusting Decal
52 H	2	HC702828	SHCS .375-16 x 2.25	105	14	4000C101	Stack Weight 4 x 18 (not shown)
521	4	HN704901	Nylon Locknut .375-16	106	2	11090-376	Handle Grip Ring
52 J	4	HS347600	Washer, SAE .375	107	2	JC620422	BHSCS .250-20 x 1.50
52 K	3	HY740000	Set Screw	108	6	JS347400	Internal Tooth Lockwasher
52 L	1	4605-424	Caution Decal	109	1	4611-208	Cam
52 M	1	4700-240	Weight Mount	1			





4613 - Leg Extension Total RLD

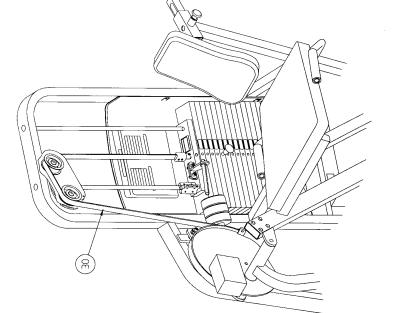


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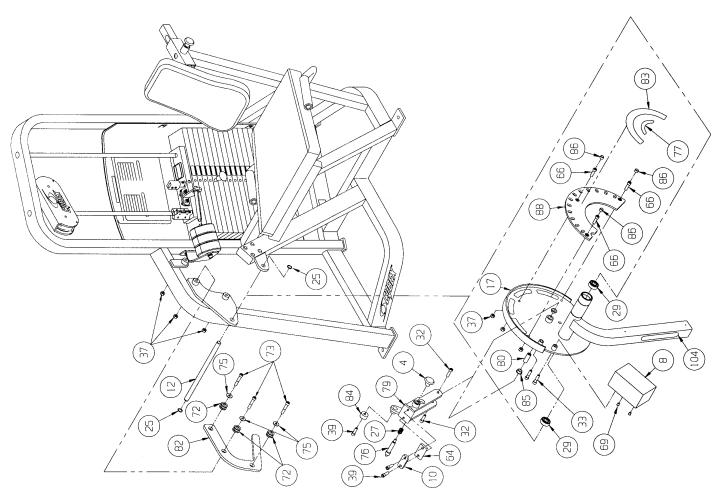
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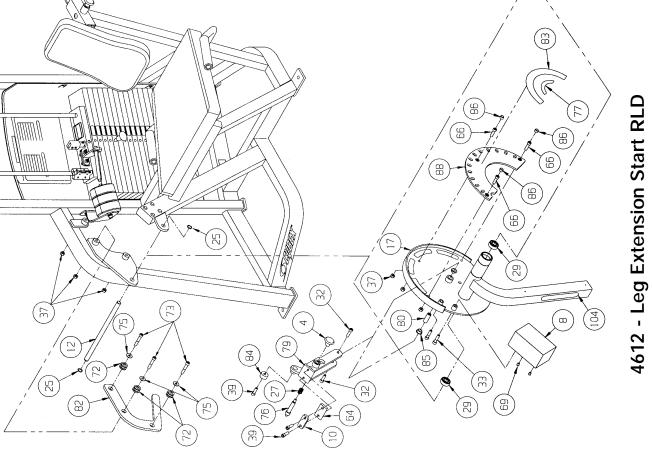
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BELT ROUTING DETAIL



BELT ROUTING DETAIL

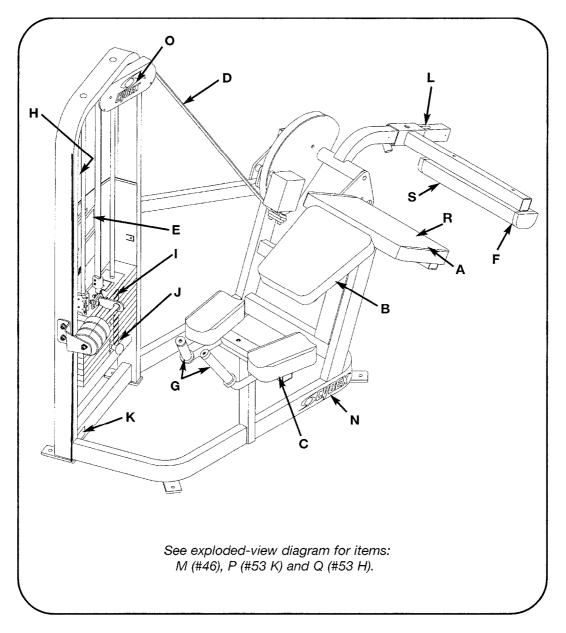




PRONE LEG CURL

PRODUCT NO. 4616, 4617, 4618

PARTS LIST



DESCRIPTION

PART NO.

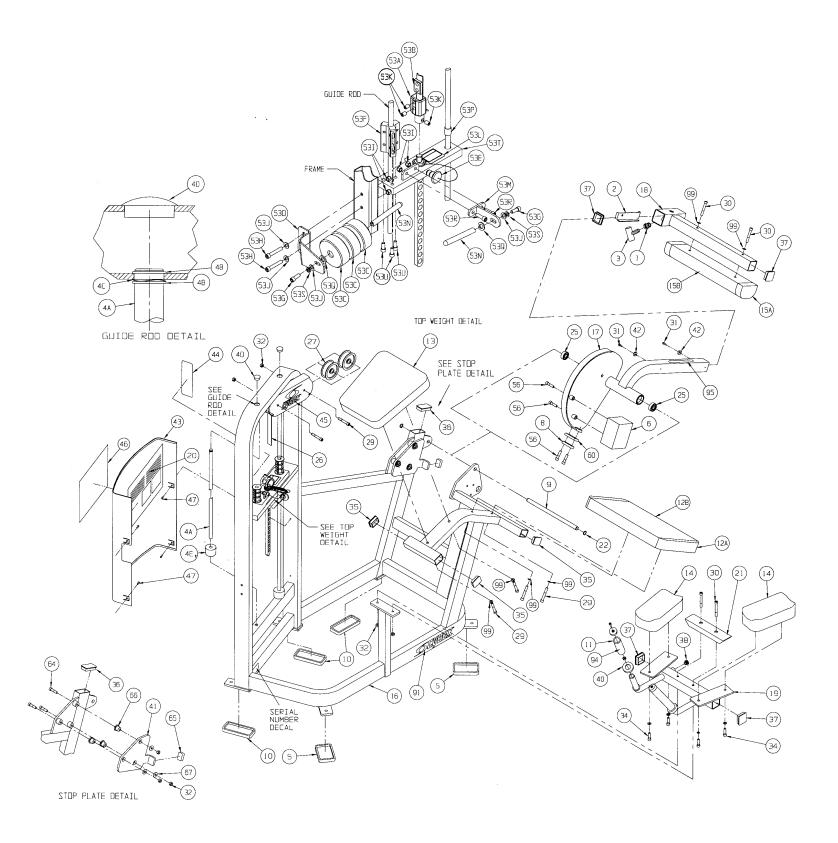
DESCRIPTION

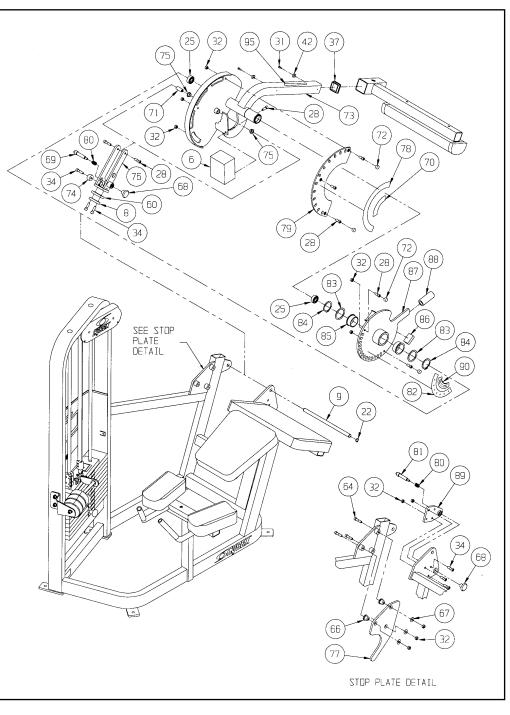
- A. Thigh Cushion w/Wear
- Cover..... 4800-029
- **B.** Chest Cushion 5245-011

- E. Placard Decal...... 4615-322F. Leg Bar Cushion
- w/Wear Cover 4800-006 **G.** Grip...... 4605-500
- **H.** Warning Decal 4605-381
- I. Weight Plate Decal...... 4605-388
- J. Weight Selector Pin..... BH030207

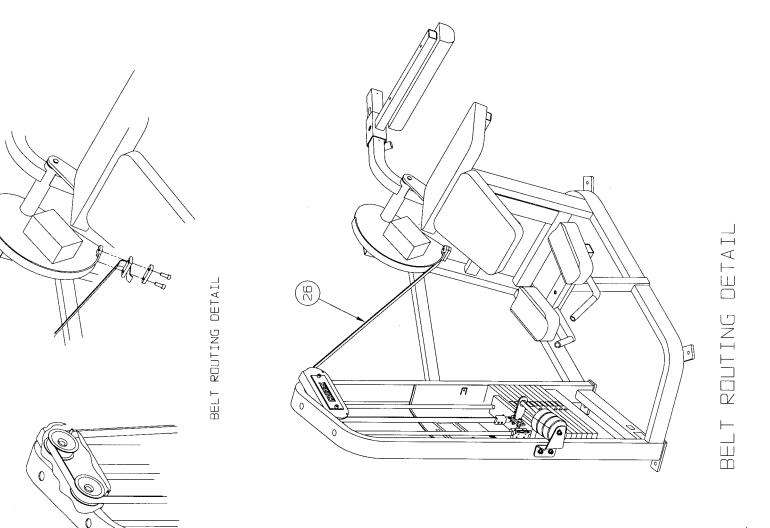
4616, 4617, 4618 - Prone Leg Curl

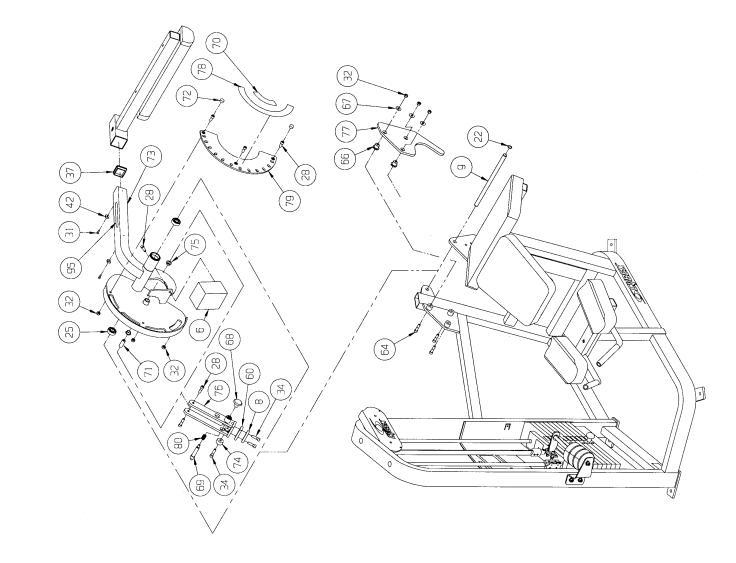
ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	01692	Threaded Insert	53 D			Removed 3/03
2	1	01694	Corner Bracket	53 E	1	BH030207	Weight Selector Pin
3	1	11060-002	Handle Subassembly	53 F	1	4701-001	Top Weight Guide
4	1	4701-021	Weight Stack Guide Rod Set	53 G	2	HC702817	SHCS .375-16 x 1.00
4 A	2	4505-319	Weight Stack Guide Rod	53 H	2	HC702828	SHCS .375-16 x 2.25
4 B	4	BR030214	Retaining Ring .625	53	4	HN704901	Nylon Locknut .375-16
4 C	2	HS407100	Spring Washer .65 x .79 x .062 T	53 J	4	HS347600	Washer, SAE .375
4 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G	53 K	3	HY740000	Set Screw
4 E	2	PR060005	Weight Bumper	53 L	1	4605-424	Caution Decal
5	2	PR070001	Foot Pad 2.50 x 4.25	53 M	1	4700-240	Weight Mount
6	1	4616-307	Counterweight	53 N	2	4700-318	Increment Weight Rod
7	1	4605-213	Top Weight Increment Rod	53 0	1	4700-319	Frame Mount Increment Weight
8	1	4605-300	Belt Clamp	53 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
9	1	4605-334	Pivot Shaft 13.06	53 Q	2	4700-321	Rubber Washer
10	3	PR070003	Foot Pad 2.00 x 5.25	53 R	2	JC702820	SHCS .375-16 x 1.25
11	2	11090-374	End Cap	53 S	2	HS348300	Split Lockwasher .375
12 A	1	4800-029	Thigh Cushion w/Wear Cover	53 T	1	4700-239	Top Weight
12 B	1	4800-029	Wear Cover	53 U	3	HC702816	SHCS .375-16 x .875
13	1	5245-011	Chest Cushion	54	5	HC/02010	Not Used
13	2		1	55			
		4800-017	Elbow Cushion	56	л	110700000	Not Used
15 A	1	4800-006	Leg Bar Cushion w/Wear Cover		4	HC702822	SHCS .375-16 x 1.50
15 B	1	4800-093	Wear Cover	57			Not Used
16	1	4616-200	Frame	58			Not Used
17	1	4616-203	Cam	59		4005 004	Not Used
18	1	4616-201	Leg Bar	60	1	4605-394	Belt Clamp
19	1	4615-203	Handle Bar	61			Removed 5/99
20	1	4615-322	Placard Decal	62			Not Used
21	1	4615-323	Machined Bumper	63	•	110700000	
22	2	BR030210	Retaining Ring 17 mm	64	3	HC702828	SHCS .375-16 x 2.25
23			Not Used	65	1	PU060201	Bumper
24	2	PR060005	Weight Bumper	66	3	PR740300	Center Bonded Mount
25	2	FB030232	Radial Brg 17 mm ID (Ext Race)	67	3	HS347700	Washer .375 USS
26	99"	GB000202	Belt .95" Wide	68	1	11040-440	Knob
27	2	GP000209	Pulley Assembly 3.50	69	1	4505-329	Detent Pin
28	9	HC702816	SHCS .375-16 x .875	70	1	4612-596	Start RLD Decal
29	6	HC702830	SHCS .375-16 x 2.50	71	1	4613-302	Short Pivot Pin
30	4	HC702834	SHCS .375-16 x 2.25	72	4	PP080222	Vinyl End Cap .50 x .50
31	2	HD303318	Shldr Bolt .25 x .25 x .190/10-24	73	1	4618-206	Cam
32	16	HN704901	Nylon Locknut .375-16	74	1	FB030239	Cam Follower
33			Not Used	75	2	FB130205	Flange Brg .62 x .75 x .38 L
34	11	JC702820	SHCS .75-16 x 1.25	76	1	4618-205	Cam Arm
35	3	PP090000	Plastic Insert 1.5 x 2.0 x 11 G	77	1	4618-305	Barstop
36	1	PP090202	Plastic Insert 1.5 x 3.0 x 11 G	78	1	4628-334	Input Cam Decal
37	4	PP090210	Plastic Insert.2.00 Sq x 10-14 G	79	1	4628-336	Cam Plate
38			Removed 3/03	80	2	BS070201	Com Spring .56 x .66 x 1.5 L
39			Removed	81	1	4613-320	Detent Pin
40	2	4605-500	Grip 6" Long	82	1	4618-304	Cam Stop Decal
41	1	4616-309	Stop Plate	83	2	4715-336	Washer
42	2	PU060211	Bumper .62 x .62 x .25	84	2	BR030213	Retaining Ring 2.00
43	1	4505-431	Guard	85	2	FB130206	Flange Brg 2.00 x 2.25 x 1.00 L
44	1	4605-381	Warning Decal	86	1	PU060203	Bumper
45	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm	87	1	4618-202	Stop Cam
45	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht	88	1	4605-515	Grip 3.25 Long
45			Removed 3/03	89	1	4618-203	Detent Plate
46			Removed 3/03	90	1	4613-594	Total RLD Decal
46	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	91			Removed 3/03
46	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	91	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
47	4	HT102214	Tap Screw #10-12 X .625 A (Phil)	91	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
48			Removed 8/98	92	1	4701-302	VR2 Weight Stack Instr. (not shown)
49			Not Used	93	1	51198	Strength Warranty Sheet (not shown)
50			Not Used	94	2	HF449063	Tube Insert
51	1	4605-388	Weight Plate Decal (10-290)	95	1	4855-317	Adjusting Decal
52			Not Used	96	9	4000C101	Stack Weight 4 x 18 (not shown)
53	1	4701-030	Sliding Increment Weight Set	97	2	11090-376	Handle Grip Ring
53 A	1	11040-216	Belt Clamp	98	2	JC620422	BHSCS .250-20 x 1.50
53 B	1	11040-301	Belt Clamp Insert	99	10	JS347400	Internal Tooth Lockwasher
53 C	3	4605-390	Increment Weight				
	5	-000 000	anoromone worgene	1			





4618 - Prone Leg Curl Total RLD

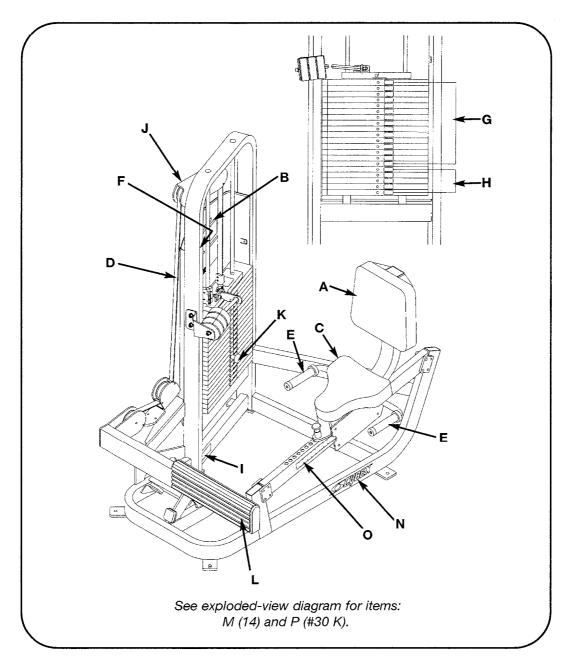




4617 - Prone Leg Curl Start RLD

PRODUCT NO. 4620

PARTS LIST



DESCRIPTION

PART NO.

A. Back Cushion..... 5245-011

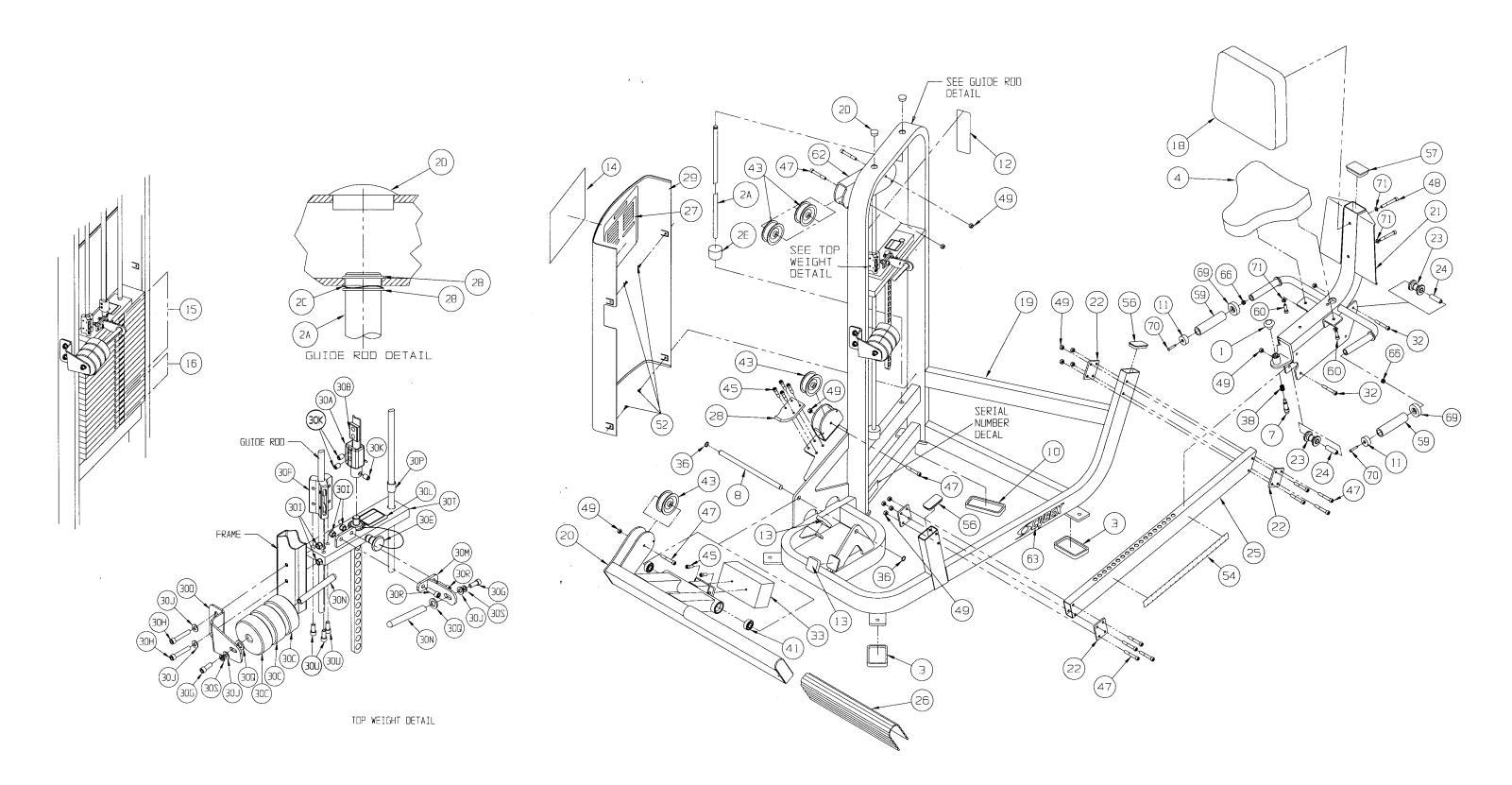
- B. Placard Decal..... 4620-329
- **C.** Seat Cushion...... 4800-025
- D. Belt...... GB000202
- **E.** Grip 4605-508
- F. Warning Decal 4605-381
- G. Weight Plate Decal 4605-388
- H. Weight Plate Decal 4605-389
- I. Serial Number Decal
- J. Cybex Decal Blk/Plm 3900-423

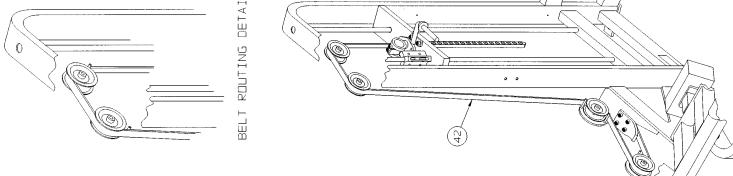
DESCRIPTION

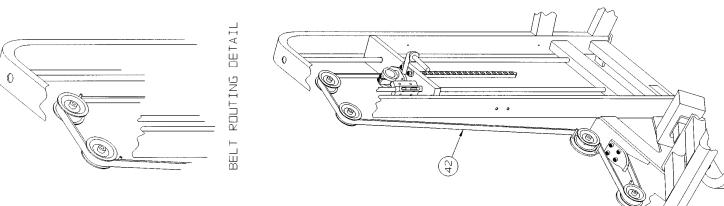
- J. Cybex Decal Wht/Wht .. 3900-424-
- K. Weight Selector Pin..... BH030207
- L. Non-Slip 4620-322
- M. Cybex Decal Blk/Plm 3900-391
- M. Cybex Decal Wht/Wht .. 3900-419
- N. Cybex Decal Blk/Pim 3900-390
- N. Cybex Decal Wht/Wht... 3900-415
- O. Seat Adjustment Decal. 4620-331
- P. Warning Decal 4605-424

4620 - Rotary Calf

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-440	Cybex Knob	30 P	2	4701-001	Top Weight Guide
2	1	4701-021	Weight Stack Guide Rod Set	30 Q	2	4700-321	Rubber Washer
2 A	2	4505-319	Weight Stack Guide Rod	30 R	2	JC702820	SHCS .375-16 x 1.25
2 B	4	BR030214	Retaining Ring .625	30 S	2	HS348300	Split Lockwasher .375
2 C	2	HS407100	Spring Washer .65 x .79 x .062 T	30 T	1	4700-237	Top Weight
2 D	2	PN660200	Plastic Insert 1.00 Dia x 11G	30 U	3	HC702816	SHCS .375-16 x .875
2 E	2	PR060005	Weight Bumper	31			Removed
3	3	PR070001	Foot Pad 2.50 x 4.25	32	4	JC702836	SHCS .375-16 x 3.25
4	1	4800-025	Seat Cushion	33	1	4705-319	Counterweight
5			Not Used	34			Not Used
6			Removed	35			Not Used
7	1	4605-322	Detent Pin	36	2	BR030210	Retaining Ring 17 mm
8	1	4605-334	Pivot Shaft 13.06	37			Not Used
9			Not Used	38	1	BS070201	Com Spring .56 x .66 x 1.50 L
10	2	PR070003	Foot Pad 2.00 x 5.25	39			Not Used
11	2	11090-374	End Cap	40			Removed 8/98
12	1	4605-381	Warning Decal	41	2	FB030232	Radial Brg 17 mm ID (Ext Race)
13	2	PU060204	Bumper	42	103"	GB000202	Belt .95" Wide
14	-		Removed 3/03	43	4	GP000209	Pulley Assembly 3.50
14	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	44			Removed
14	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	45	4	HC702817	SHCS .375-16 x 1.00
15	1	4605-388	Weight Plate Decal 10-290	46	•	110702011	Removed 8/98
16	1	4605-389	Weight Plate Decal 310-490	47	12	HC702830	SHCS .375~16 x 2.50
17	•	4000 000	Not Used	48	2	HC702834	SHCS .375-16 x 3.00
18	1	5245-011	Back Cushion	49	16	HN704901	Nylon Locknut .375-16
19	1	4620-200	Frame	50	10	1111/04001	Not Used
20	1	4620-201	Input Arm	51			Not Used
21	1	4620-202	Seat	52	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
22	4	4620-317	Plate	53	-		Not Used
23	4	4620-318	Roller	54	1	4620-331	Seat Ajustment Decal
24	4	4620-319	Spacer	55	•	4020-001	Not Used
25	1	4620-321	Adjusting Tube	56	2	PP090202	Plastic Insert 1.5 x 3.00 -11 G
26	1	4620-322	Non-Slip	57	1	PP090206	Plastic Insert
27	1	4620-329	Placard Decal	58	1	11030200	Removed
28	1	4620-336	Belt Bracket	59	2	4605-508	Grip 5.5" Long
20 29	1	4505-433	Guard	60	2	JC702820	SHCS .375-16 x 1.25
30	, 1	4701-032	Sliding Increment Weight Set	61	2	00702020	Not Used
30 A	1	11040-216	Belt Clamp	62	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
30 A	1	11040-301	Belt Clamp Insert	62	1	3900-424	Cybex Decal 4.85 Vert. Bit/Finit Cybex Decal 4.85 Vert. Wht/Wht
30 D	3	4605-390	Increment Weight	62	1	.000-424	Removed 3/03
30 C 30 D	3	4005-390	Removed 3/03	63			
30 D 30 E	1	BH030207	Weight Selector Pin	63	1	3900-390	Removed 3/03 Ovboy Docal 1 57 Hari, Blk/Blm
			5		4		Cybex Decal 1.57 Hori. Blk/Plm
30 F 30 G	1	FB130208	Bearing Sleeve .68 x .81 1.00 L	63	1	3900-415	Cybex Decal 1.57 Hori. Wht/Wht
	2	HC702817	SHCS .375-16 x 1.00	64	1	4701-302	VR2 Weight Stack Instr (not shown)
30 H	2	HC702828	SHCS .375-16 x 2.25	65	~	115440000	Not Used
30	4	HN704901	Nylon Locknut .375-16	66 67	2	HF449063	Tube Insert
30 J	4	HS347600	Washer, SAE .375	67	1	51198	Strength Warranty Sheet (not shown)
30 K	1	HY740000	Set Screw	68	10	4000C101	Stack Weight 4 x 18 (not shown)
30 L	1	4605-424	Caution Decal	69	2	11090-376	Handle Grip Ring
30 M	1	4700-240	Weight Mount	70	2	JC620422	BHSCS .250-20 x 1.50
30 N	2	4700-318	Increment Weight Rod	71	4	JS347400	Internal Tooth Lockwasher
30 O	1	4700-319	Frame Mount Increment Weight	1			









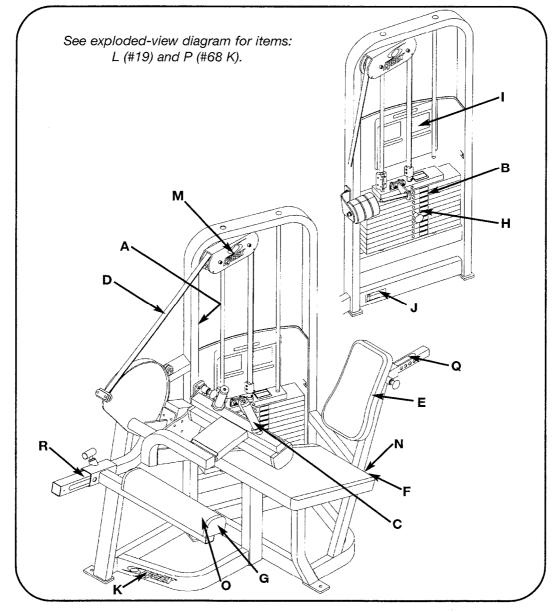
BELT ROUTING

0

SEATED LEG CURL

PRODUCT NO. 4626, 4627, 4628

PARTS LIST



DESCRIPTION

PART NO.

- A. Warning Decal 4605-381
- B. Weight Plate Decal...... 4605-388
- **C.** Grip 4.5" Long 4506-514 **D.** Belt GB000202

- w/WearCover..... 4800-006
- H. Weight Selector Pin..... BH030207
- I. Placard Decal 4626-598
- J. Serial Number Decal

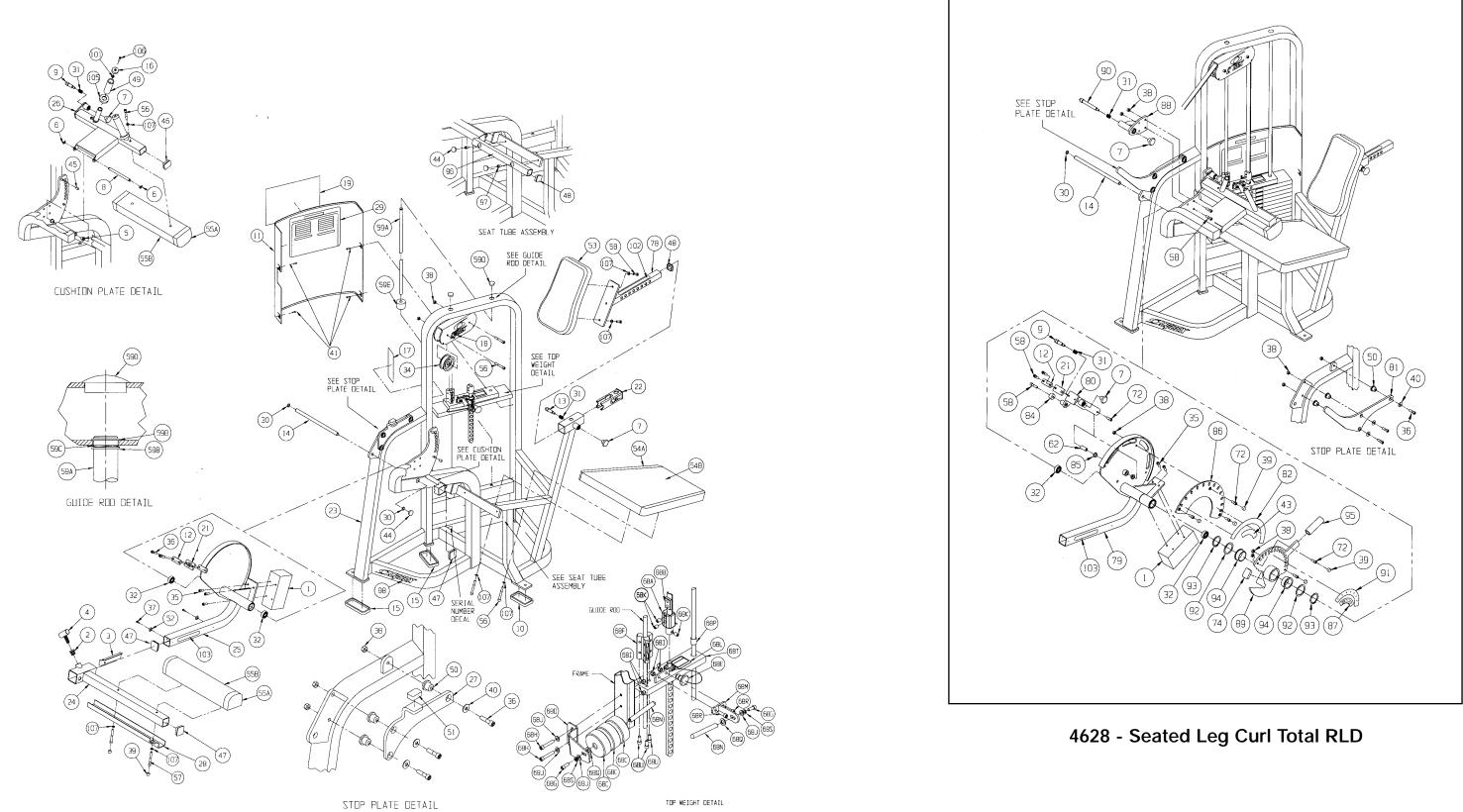
DESCRIPTION

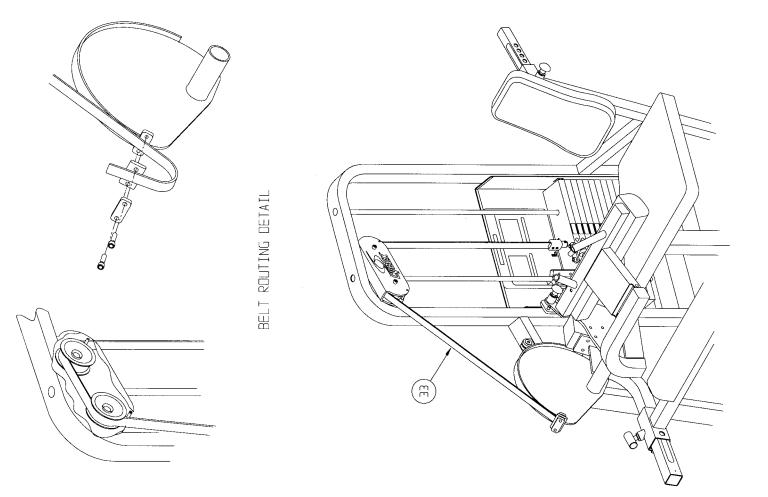
- K. Cybex Decal Blk/Plm 3900-390
- K. Cybex Decal Wht/Wht... 3900-415
- L. Cybex Decal Blk/Plm 3900-391
- L. Cybex Decal Wht/Wht... 3900-419
- M. Cybex Decal Blk/Plm 3900-423 M. Cybex Decal Wht/Wht... 3900-424
- **N**. Wear Cover (Item F) 4106S079-0
- **O**. Wear Cover (Item G)..... 4800-093
- P. Caution Decal 4605-424
- Q. Adjusting Decal 4805-314
- **R.** Adjusting Decal 4855-317
- **S.** Grip...... 4605-515

4626, 4627, 4628 - Seated Leg Curl

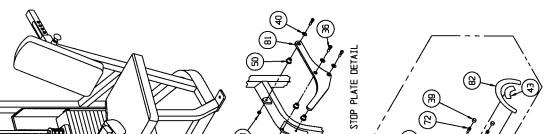
55 B 2 4800-093 Wear Cover 98 1 3900-415 Cybex Decal 1.57 Horiz. Wht/W 56 6 HC702830 SHCS .375-16 x 2.50 99 1 4701-302 VR2 Weight Stack Instr. (not show								
2 1 01694 Threaded insert 63 2 1 4013-302 Short Physic Physic 4 1 11080-002 Handle Substammby 64 PR050015 Not Used Not Used 5 2 6000 Franze Big. 50. 60 65 Not Used Not Used Not Used 5 2 6000 Franze Big. 50. 60 67 Not Used Not Used Not Used 8 1 65227 Detent Fin 68 1 11400-316 Bet Clamp Insert Not Used 11 4.450-431 Guard 68 1 11400-316 Bet Clamp Insert Not Not Sing Table Sing Tab	ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1 0.1684 Threaded insert 82 1 4413-302 Short Physic Physic 4 1 11080-002 Hand Big Short Server 63 2 PR05005 Not Used Not Used 5 2 6800.9 Prang Big Short Sort Server 64 PR05002 Not Used Not Used 6 2 11080-024 Cybox Krob 65 Not Used Not Used Not Used 9 2 4505-320 Detert Fin 68 1 11040-316 Bet Clamp Insert Not Used 11 4505-321 Detert Fin 68 7 4707-000 Not Start Sort Sort Sort Sort Sort Sort Sort So	1	1	01112	Counterweight	61			Not Used
3 1 01634 Corner Bracket 63 2 PR000003 Weight Summer 5 2 08009 Plange Structures 64 Not Used 5 2 08010 Plange Structures 65 Not Used 7 1 985-329 Detem Pin 68 1 11040-703 Belt Clamp 10 1 PR070001 Foot Pad 2.50 x 4.25 68 88 1 11040-718 Belt Clamp 11 1 4305-431 Guard 68 C 1 1040-718 Belt Clamp 12 1 4405-300 Bett Clamp 68 C 1 H070020 Poot Pad 2.00 x 5.25 16 2 1000-374 End Cap 68 H 1 H070201 Horoscott A375-16 x 1.00 17 1 4605-381 Waming Decal 4.85 Vert. Bi/Pin 68 H 1 H070202 Horoscott A375-16 x 1.02 18 3 3901-413 Cybes Decal 4.85 Vert. Bi/Pin 68 H 2 H070201 W	2	1	01692	\$		1	4613-302	
4 1 1100-002 Hundle Subassembly 64 Not Used Not Used 6 2 08000 Rearbing Fing 50 65 Removed Not Used 7 4 10103-440 Cybex Knob 67 4701-00 Sitting memore Weight Set 10 1 PR07001 Feat Pad 250 x 4.25 68 1 4701-00 Sitting memore Weight Set 11 1 4505-301 Bett Clamp 68 1 11040-301 Sitting memore Weight Set 13 1 4605-322 Detert Hin 68 1 Bett Clamp 68 1 H707-001 Top Weight Claude 14 1 4605-322 Detert Hin 68 1 H707-001 Top Weight Claude 7.57.16 h h 1.00 15 3 900-423 Cybes Detail AS Vert, WirWirt 68 h 1 4 H707-001 Weight Mount Removed 303 18 1 300-424 Cybes Detail AB Vert, Bik/Hin 68 h 1 4 4700-240 Weight Hout Removed 303		1						
5 2 08010 Finings Big., 50. x, 82. x, 80. L 65 Perrowal 7 4 11040-442 Cybex Knob 67 Not Used Not Used 8 1 08227 Ph. 50. 8.656 68 1 11040-218 Bel Champ 11 1 685.A 1 11040-218 Bel Champ Bel Champ 12 1 685.431 Detert Pin 68 1 H1040-218 Bel Champ 13 1 4605-322 Detert Pin 68 E 1 H70201 Toy Weight Guide 14 1 4605-322 Detert Pin 68 E 1 4701-01 Toy Weight Guide 15 3 PRO7003 Port Pia 20.03 Keit Statt 30.06 Keit Statt						-		5 1
6 2 08010 Returns provided by the second								
7 4 11040-440 Cycex Krob 67 Not Used 8 1 08227 Pin. 50. 56.6 68 1 11040-216 Bett Clamp 10 1 PR07001 Foot Pad 2.50. 4.25 68 1 11040-216 Bett Clamp 11 1 4565-329 Detent Pin 68 68 1 11040-216 Bett Clamp 13 1 4605-334 Pvot Shaft 13.06 68 F 1 4707-001 To Waght Satcor Pin 14 1 4605-334 Pvot Shaft 13.06 68 F 1 4707-1001 To Waght Satcor Pin 16 2 11090-374 End Cap 68 H 2 HO70238 Set Sove 16 3900-472 Cybex Decal 3.58 Vert NWHW 68 N 1 4700-318 Increment Weight 19 1 3900-416 Cybex Decal 1.37 Vert NWW 68 N 1 4700-318 Increment Weight 19 1 3900-416 Cybex Decal 1.37 Ve								
8 1 0.0227 Pin. 50 x 5.60 168 1 4701-030 Stating Therement Weight Set. 10 1 PR070001 Foot Pad 2.50 x 4.25 68 A 1 11040-301 Bet Clamp 11 1 4805-430 Detent Pin 68 D 1 11040-301 Bet Clamp 12 1 4805-430 Detent Pin 13.00 68 E 1 11040-301 Weight Set. 13 1 4805-320 Detent Pin 13.00 68 E 1 BH000207 Weight Set. 68 C 1 44770381 SetUes 375-76 a 2.00 14 13000-423 Oybex Decal 4.85 Vert. 1MH/VInt 66 I 4 HN740000 States 75-76 a 2.00 15 13000-424 Oybex Decal 4.85 Vert. 1MH/VInt 66 I 4 HN740000 States 75-76 a 2.00 16 1 3900-431 Oyber Decal 10-200 Head 10-200 Weight Set. 76 13 3900-432 Oyber Decal 10-200 Head 10-200 Head 10-200 Head 10-200								
9 2 4605-329 Detern Pin 88 A 1 11040-216 Bett Clamp Insert 11 1 4505-431 Guard 68 B 1 11040-216 Bett Clamp Insert 13 1 4605-322 Detent Pin 68 B 1 11040-216 Bett Clamp Insert 14 1 4605-322 Detent Pin 68 E 1 Bett Clamp Insert 13 1 4605-322 Detent Pin 68 E 1 Bett Clamp Insert 14 1 4605-322 Detent Pin 68 F 1 H030207 Weight Guide 7 14 4605-324 Data Data 5.55 68 F 2 H0702010 Satz Satz <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td>4701-030</td> <td></td>						4	4701-030	
10 1 PR070001 Foot Pad 2.80 x 425 66 B 1 11040-301 Bat Camp Insert 12 1 4605-320 Bat Camp Insert 68 D Additional Camp Insert 13 1 4605-320 Detent Pin 68 D Bat Camp Insert Insertent Weight 14 1 4605-334 Pivot Shaft 13.06 68 F 1 4771-001 TOp Weight Guide 15 3 PP07003 Foot Pad 2.00 × 5.25 68 G 1 4771-001 TOp Weight Guide 16 2 11300 × 312 End Cap 68 H 2 HC702628 SHC33 37-16 × 2.25 16 3300 × 42 Cophes Decit 4.85 wrt Whit/Whit 84 H 4 4405-318 Famowed 3/03 19 3300 × 42 Ophes Decit 1.37 Wrt Hit/Whit 88 L 4 44700-318 Fame Mount Increment Weight 21 4605-318 Bet Clamp 68 O 2 4700-321 Faber Waher 51.0 L 23 3400-531 Dephes Decit 1.37 Wrt Hit/Whit 68 O <t< td=""><td></td><td></td><td></td><td></td><td>I</td><td>-</td><td></td><td>o o</td></t<>					I	-		o o
11 1 4505-430 Barcowd 3/3 13 1 4605-320 Detent Pin 68 D 1 Beld 3/207 Weight Selector Pin 14 1 4605-322 Detent Pin 68 F 1 Beld 3/207 Weight Selector Pin 15 3 PR07003 Fool Rad 2.00 x 5.25 68 G 2 HC702817 SHCS 375-16 x 1.25 16 1 3900-423 Opkex Decal 4.65 Vert 3W/PM 68 F 1 HC702817 SHCS 375-16 x 1.25 18 1 3900-423 Opkex Decal 4.65 Vert 3W/PM 68 L 1 4605-424 Cation Decal 19 Bernoved 3/03 Bernoved 3/03 68 N 2 4700-318 Internent Weight Rod 21 1 4605-434 Meant 1.37 Vert MW/PM 68 N 2 4700-318 Internent Weight Rod 21 1 4605-434 Bert Ciann 68 N 2 4700-318 Internent Weight Rod 22 1 4605-304 Bert Ciann 68 N 2 4700-32						-		
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13 1 4405-322 Detent Pin 68 E 1 BH030207 Weight Selector Pin 15 3 PR070033 Foot Pad 2.03 x.525 68 G 2 HC702817 Top Weight Selector Pin 16 2 11090-574 End Cap 68 I 4 HC702817 StC5.375-16 x 1.25 17 1 4605-361 Warning Decal 68 I 4 HS47600 Washer, SAE.375 18 1 3800-422 Cybox Decal 4.65 Vert. NHVWH 68 I 4 HS47600 Washer, SAE.375 18 - 3800-419 Cybox Decal 4.65 Vert. NHVWH 68 I 1 4700-240 Waight Notari 19 1 3800-419 Detato Insert 68 M 1 4700-240 Waight Notari 21 4.405-511 Platoin Insert 88 H 2 1.4700-230 Split Vert Masher 22 1.405-511 Platoin Insert 69 1 4700-230 Split Vert Masher 23 1.4052-202 Cap Sint 50.150		•				3	4605-390	5
14 1 4005-334 PNot Shaft 13.06 66 F 1 4701-001 Top Weight Guide 16 2 11090-574 End Cap 68 H 2 HC202817 SHC5.375-16 x 1.00 17 1 4005-381 Warning Decal 68 J 4 HN140910 Nyton Lochutt.375-16 x 2.25 18 1 3300-423 Cybex Decal 4.85 Vert. WhYtWH 68 J 4 HN347600 Serew 19 3300-433 Cybex Decal 4.85 Vert. WhYtWH 68 J 4 H0700240 Wather, SAE 375 19 1 3300-419 Cybex Decal 11.37 Vert. WhYtWH 68 J 1 4605-424 Caution Decal 21 1 4405-384 Weight Plate Decal 10-280 68 J 1 700-70-11 FB102028 Bearing Sleeve.68.8 81.10.0 22 1 4405-344 Bat Champ 68 J 1 4700-319 Framer Weight Mather 23 1 4405-344 Bat Champ 68 J 1 4700-293 500 Weight 64.3.1.10.0 <		-						
16 2 PHOTOROD3 Foot Pad 2.00 s.5.25 68 G 2 HC702817 SHC5 375-16 x 2.25 17 1 4605-381 Warning Decal 68 H 4 HS77600 Water SK 2.57 18 1 3900-424 Cybex Decal 4.65 Vert. Wit/Writ 68 H 4 HS77600 Water SK 2.37 18 1 3900-424 Cybex Decal 4.65 Vert. Bik/Pin 68 H 1 4700-240 Water Weight Mount 19 1 3800-381 Cybex Decal 11.37 Vert. Bik/Pin 68 H 1 4700-240 Weight Mount 19 1 3800-481 Cybex Decal 11.37 Vert. Bik/Pin 68 H 2 4700-318 Frame Mount Incernert Weight Mount 21 1 4665-201 Leg Bar 68 F 2 1/372617 K x 275 16 x x 25 / 16 x 375 16 x x 25 / 16 x 137 16 x x 125 / 16 x x 375 16 x x 25 / 16 x 137 16 x x 125 / 16 x x 375 16 x x 375 / 16								0
16 2 1100-374 End Cap 68 H 2 HC702828 SHC3 J75-16 x 2.25 17 1 4605-381 Waring Decal 68 J 4 HK704901 Washer, SAE J75-16 18 1 3900-423 Cybex, Decal 4.85 Vert. Bit/Plm 68 J 4 HK704900 Sat Screw 19 - Removed 303 66 N 1 4700-240 Weight Mount 19 1 3900-431 Cybex, Decal 11.37 Vert. Bit/Plm 68 N 2 4700-318 Increment Weight Rod 20 1 4605-588 Weight Flate Decal 10-290 68 P 1 Flate Mount Increment Weight Rod 21 1 4605-301 Flate Insert 68 R 2 J6234303 Split Lockwasher J75 22 1 4605-301 Flate Insert 68 R 2 J6234303 Split Lockwasher J75 24 4628-204 Cambro 68 U 3 HC702816 Removed J75 25 1 4628-302 Gamout Split J7 mm 73								
17 1 4605-361 Warning Decal 681 4 HN704901 Nyton Locknut, 375-16 18 1 3900-421 Cybex Decal 4.85 Vert. Bir/Pin 68 K 3 HY740000 Sater, SAE 375 19 1 3900-421 Cybex Decal 4.85 Vert. WhrWm 68 K 3 HY740000 Sater, SAE 375 19 1 3900-491 Cybex Decal 11.37 Vert. Bir/Pin 68 N 1 4700-318 Increment Weight Rod 20 1 4605-594 Bet Clamp 68 Q 1 Frame Mount Increment Weight 21 1 4605-511 Plate Insert 68 P 2 H700-320 Bet Clamp 22 1 4262-204 Frame 68 I 1 4700-321 Bubber Washer 23 1 4262-203 Custion Pivot 69 Renoved Not Laed 24 4262-204 Cam 7 HC702816 SHC5.375-16 x.875 24 4262-203 Custion Pivot 69 Renoved 2								
18 1 3900-423 Cybex Decal 4.65 Vert. Bit/Pim 68.1 4 H5347600 Washer, SAE. 375 18 1 3900-424 Cybex Decal 4.65 Vert. Bit/Pim 68.1 1 4700-240 Weight Mount 19 1 3900-419 Cybex Decal 11.37 Vert. Bit/Pim 68.N 2 4700-316 Increment Weight Rod 19 1 3900-419 Cybex Decal 11.37 Vert. Bit/Pim 68.N 2 4700-316 Increment Weight Rod 20 1 4605-594 Bett Clamp 68.P 1 F710-321 Ruber Washer, 75.5 8.8.1.1.0.D 21 1 4625-200 Frame 68.S 2 H5343000 Split Lockwasher, 75.5 24 1 4225-203 Cubriton Prot 69 Not Used Not Used 25 1 4226-323 Sup Plate 70 Not Used Not Used 26 1 4226-326 Bumper 71 Not Used Not Used 27 1 4226-323 Sup Plate <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>HC702828</td> <td>SHCS .375-16 x 2.25</td>							HC702828	SHCS .375-16 x 2.25
18 1 390-424 Cybes Decal 4.55 Vert. Wh/Wh 65 K 3 H7740000 Set Screw 19 1 390-391 Cybes Decal 11.37 Vert. Bit/Pin 68 M 1 4406-424 Cation Decal 19 1 390-391 Cybes Decal 11.37 Vert. Bit/Pin 68 M 1 4700-318 Increment Weight Rod 19 1 390-391 Becarrent Veight Rod 68 O 1 4700-318 Increment Weight Rod 21 1 4605-534 Bett Clamp 68 C 2 4700-321 Rubber Wacher 87 N 1<	-						HN704901	Nylon Locknut .375-16
18 Hernoved 3/03 68 L 1 4605-424 Caution Decal 19 1 3900-391 Cybex Decal 11.37 Vert. Bit/Pint 68 M 1 4700-240 Weight Mout 19 1 3900-419 Cybex Decal 11.37 Vert. Bit/Pint 68 N 2 4700-319 Frame Mount Increment Weight Rod 21 1 4605-388 Bet Clamp 68 C 2 4700-321 Bearing Sleeve. 68 x.81 1.00 L 22 1 4605-511 Plastic Insert 68 R 2 JG702820 SHCS 375-16 x 1.25 23 1 4626-201 Leg Bar 68 T 1 4700-239 Top Weight SHCS 375-16 x .875 26 1 4626-203 Cushion Pivot 69 Removed Not Used Not Used 28 1 4266-538 Placard Decal 72 HC702816 SHCS 375-16 x .875 30 2 Brd30210 Retaining Ring 17 mm 73 Not Used Not Used 31 4 BS070201 Consing 56 x .66 x 1.	18	1	3900-423		68 J	4	HS347600	Washer, SAE .375
19 Jagou-31 66 M 1 4700-240 Weight Mount 19 1 3900-3419 Cybex Decal 11.37 Vert. WH/WH 66 N 2 4700-318 Increment Weight Rod 20 1 4605-334 Weight Plate Decal 10-290 66 P 1 FTame Mount Increment Weight Rod 21 1 4605-734 Beit Clamp 66 P 1 FTame Mount Increment Weight Rod 22 1 4605-734 Beit Clamp 66 P 1 FTATE Mount Increment Weight Rod 23 1 4626-200 Frame 66 S 2 HS348000 Split Lockwasher.375 24 1 4626-322 Stop Flate 70 Not Used Not Used 27 1 4626-536 Bumper 71 Not Used Not Used 30 2 BR3020210 Retaining Ring 17 mm 73 Not Used Not Used 31 4 BS070201 Com Spring.56 x.66 x 1.50 77 Horo231 Not Used Not Used 32 <td>18</td> <td>1</td> <td>3900-424</td> <td>Cybex Decal 4.85 Vert. Wht/Wht</td> <td>68 K</td> <td>3</td> <td>HY740000</td> <td>Set Screw</td>	18	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht	68 K	3	HY740000	Set Screw
19 1 3900-391 Cybex Decal 11.37 Vert. Bit/Pm 68 N 2 4700-318 Increment Weight Rod 20 1 4605-388 Weight Plate Decal 10-290 68 P 1 FT mert Munt Increment Weight Rod 21 1 4605-318 Weight Plate Decal 10-290 68 P 1 FT mert Munt Increment Weight Rod 22 1 4605-511 Plastic Insert 68 P 2 4700-321 Bubber Washer 75 24 1 4628-201 Leg Bar 68 T 1 4700-239 Top Weight 75 25 1 4628-203 Ciushion Pivot 69 Removed Removed Removed 81CS 37-16 x. 375 26 1 4628-326 Burnper 71 Not Used Not Used Not Used 23 1 4628-326 Burnper 73 PU060203 Burnper Not Used 33 79 GB000202 Bet 135 1 4611-207 Not Used 34 2 GP000209 <td>18</td> <td></td> <td></td> <td>Removed 3/03</td> <td>68 L</td> <td>1</td> <td>4605-424</td> <td>Caution Decal</td>	18			Removed 3/03	68 L	1	4605-424	Caution Decal
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19 1 3900-419 Cybex Decal 11.37 Vert. Wrt.Wrt 66 0 1 4700-319 Frame Mount Increment Weight 20 1 4605-394 Belf Clamp 66 0 2 4700-321 Rubber Washer 21 1 4605-511 Plastic Insert 66 0 2 4700-321 Rubber Washer 375 23 1 4626-201 Leg Bar 68 1 1 4700-239 Top Weight 25 1 4626-204 Cam 68 1 3 HC702816 SHCS 375-16 x .875 26 1 4626-322 Stop Flate 70 Not Used Not Used 27 1 4626-538 Bumper 71 Not Used Not Used 30 2 BR30210 Retaining Ring 17 mn 7 Not Used Not Used 33 4 BS070201 Com Spring .56 x .66 x 1.50 77 Removed Cam 34 2 GB000202 Bell .95" Wide 76 Not Used Not Used	19	1	3900-391			2		
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1 4605-394 Baft Clamp 68 0 2 4700-321 Furbber Washer 22 1 4605-11 Plastic Insert 68 R 2 4700-321 Furbber Washer 23 1 4626-200 Frame 68 R 2 HC3375-16 X 1.25 24 1 4626-201 Log Bar 68 R 1 4700-231 Furbus 375-16 X 1.25 25 1 4626-203 Curbion Pivot 68 U 1 4700-231 Furbus 375-16 X 1.25 26 1 4628-322 Stop Plate 71 Not Used Parroyad 21 1 4628-322 Stop Plate 72 7 HC702816 SHC3.375-16 X 1.57 30 2 BR030210 Gentaring Ring 17 mm 73 Not Used Not Used 31 4 B0370201 Gentaring Ring .57 x .66 X 1.50 L 77 Removed Not Used 32 2 FR030220 Pelt .52 x .75-16 X 1.50 L 79 1 4628-206 Cam								•
1 4060-511 Plastic Insert 68 H 2 JC228202 SH1L5Ck2820				s				•
23 1 4826-200 Frame 68 2 H3434300 Split Lockwasher.375 24 1 4826-201 Leg Bar 68 1 4700-230 Top Weight 25 1 4826-204 Cam 68 3 HC702816 SHCS.375-16 x.875 26 1 4826-322 Stop Plate 70 Not Used 28 1 4826-322 Stop Plate 70 Not Used 29 1 4826-580 Placard Dacal 72 7 HC702816 SHCS.375-16 x.875 30 2 BR030210 Com Spring.36 x.86 x 1.50 74 1 PU060203 Burmper 31 4 BS070201 Com Spring.36 x.160 77 Removed Not Used 33 79 GB000220 Pelt.95.375-16 x 1.50 77 HC702816 Not Used 34 1 HC702812 SHCS.375-16 x 1.50 78 4611-20 Cam Arm 35 1 HC702822 SHCS.375-16 x 1								
24 1 4626-201 Leg Bar 68 T 1 4700-239 Top. Weight 25 1 4626-204 Cam 68 U 3 HC702816 SHCS. 375-16 x.875 26 1 4626-203 Cushion Pivot 68 U 3 HC702816 SHCS. 375-16 x.875 28 1 4626-328 Bumper 71 HC702816 SHCS. 375-16 x.875 30 2 BR303210 Retaining Ring 17 mm 73 Not Used Not Used 31 4 BS070201 Com Spring 56 x.66 x.150 L 74 1 PU050203 Bumper 33 79" GB000202 Belt 9.6" Wide 76 Not Used Not Used 34 2 GP000202 Belt 9.45" Wide 78 1 4611-207 Cushion Tube 35 1 HC702817 SHCS.375-16 x.150 78 1 4613-207 Cushion Tube 36 1 HD303318 SFabri .25 x.25 x.190/10-24 80 1 4628-202		-						
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54 A 1 4800-012 Seat Cushion w/Wear Cover 97 2 JC702814 SHCS .375-16 x .625 54 B 1 4106S079-0 Wear Cover 98 1 3900-390 Cybex Decal 1.57 Horiz. Blk/Plr 55 A 2 4800-093 Wear Cover 98 1 3900-390 Cybex Decal 1.57 Horiz. Blk/Plr 56 6 HC702830 SHCS .375-16 x 2.50 99 1 4701-302 VR2 Weight Stack Instr. (not shore 57 57 2 HC702834 SHCS .375-16 x 1.25 101 2 HF449063 Tube Insert 59 1 4701-021 Weight Stack Guide Rod Set 102 1 4850-314 Adjusting Decal 59 A 2 4505-319 Weight Stack Guide Rod 103 1 4855-317 Adjusting Decal 59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 C 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper								· •
54 B 1 4106S079-0 Wear Cover 98 Removed 3/03 55 A 2 4800-006 Leg Bar Cushion w/Wear Cover 98 1 3900-390 Cybex Decal 1.57 Horiz. Blk/Plr 55 B 2 4800-093 Wear Cover 98 1 3900-390 Cybex Decal 1.57 Horiz. Blk/Plr 56 6 HC702830 SHCS .375-16 x 2.50 99 1 4701-302 VR2 Weight Stack Instr. (not shore 57 57 2 HC702834 SHCS .375-16 x 3.00 100 1 51198 Strength Warranty Sheet (not shore 58 58 9 JC702820 SHCS .375-16 x 1.25 101 2 HF449063 Tube Insert 59 1 4701-021 Weight Stack Guide Rod 103 1 4850-314 Adjusting Decal 59 A 2 4505-319 Weight Stack Guide Rod 103 1 4855-317 Adjusting Decal 59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2								
55 A 2 4800-006 Leg Bar Cushion w/Wear Cover 98 1 3900-390 Cybex Decal 1.57 Horiz. Blk/Plr 55 B 2 4800-093 Wear Cover 98 1 3900-390 Cybex Decal 1.57 Horiz. Blk/Plr 56 6 HC702830 SHCS .375-16 x 2.50 99 1 4701-302 VR2 Weight Stack Instr. (not shown that the stack instr. (not shown that the stack instr. (not shown that the stack instrement the stack instrement the stack instrement the				· · · · · · · · · · · · · · · · · · ·		2	JC702814	
55 B 2 4800-093 Wear Cover 98 1 3900-415 Cybex Decal 1.57 Horiz. Wht/W 56 6 HC702830 SHCS .375-16 x 2.50 99 1 4701-302 VR2 Weight Stack Instr. (not shown in the stack instr. (not shown in th					98			
56 6 HC702830 SHCS .375-16 x 2.50 99 1 4701-302 VR2 Weight Stack Instr. (not shown sho				•	1		3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
56 6 HC702830 SHCS .375-16 x 2.50 99 1 4701-302 VR2 Weight Stack Instr. (not shown sho	55 B	2	4800-093	Wear Cover	98	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
57 2 HC702834 SHCS .375-16 x 3.00 100 1 51198 Strength Warranty Sheet (not sho 58 9 JC702820 SHCS .375-16 x 1.25 101 2 HF449063 Tube insert 59 1 4701-021 Weight Stack Guide Rod Set 102 1 4850-314 Adjusting Decal 59 A 2 4505-319 Weight Stack Guide Rod 103 1 4855-317 Adjusting Decal 59 B 4 BR030214 Retaining Ring .625 104 9 4000C101 Stack Weight 4 X 18 (not show) 59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher	56	6	HC702830	SHCS .375-16 x 2.50	99	1	4701-302	VR2 Weight Stack Instr. (not shown)
58 9 JC702820 SHCS .375-16 x 1.25 101 2 HF449063 Tube insert 59 1 4701-021 Weight Stack Guide Rod Set 102 1 4850-314 Adjusting Decal 59 A 2 4505-319 Weight Stack Guide Rod 103 1 4855-317 Adjusting Decal 59 B 4 BR030214 Retaining Ring .625 104 9 4000C101 Stack Weight 4 X 18 (not show, 59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher	57	2	HC702834	SHCS .375-16 x 3.00	100	1	51198	Strength Warranty Sheet (not shown)
59 1 4701-021 Weight Stack Guide Rod Set 102 1 4850-314 Adjusting Decal 59 A 2 4505-319 Weight Stack Guide Rod 103 1 4855-317 Adjusting Decal 59 B 4 BR030214 Retaining Ring .625 104 9 4000C101 Stack Weight 4 X 18 (not show. 59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher	58							
59 A 2 4505-319 Weight Stack Guide Rod 103 1 4855-317 Adjusting Decal 59 B 4 BR030214 Retaining Ring .625 104 9 4000C101 Stack Weight 4 X 18 (not show, 59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher								
59 B 4 BR030214 Retaining Ring .625 104 9 4000C101 Stack Weight 4 X 18 (not show, 59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher				ş		-		
59 C 2 HS407100 Spring Washer .65 x .79 x .062 T 105 2 11090-376 Handle Grip Ring 59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher				, and a second s	•			
59 D 2 PN660200 Plastic Insert 1.00 Dia x 11 G 106 2 JC620422 BHSCS .250-20 x 1.50 59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher					1			
59 E 2 PR060005 Weight Bumper 107 6 JS347400 Internal Tooth Lockwasher								
•				4	1			
		2	r-000000	• •	107	0	JJJJ47400	internal tooth Lockwasher

SEATED LEG CURL - 4626, 4627, 4628





BELT ROUTING DETAIL



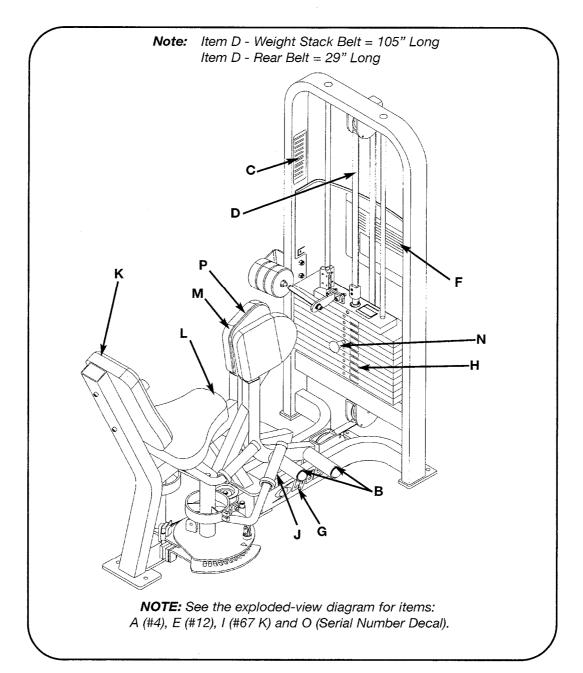
4627 - Seated Leg Curl Start RLD

(EE) (EE) 0 (\mathcal{R}) 8 ۶ \mathbb{R} M (FR) (EE) Ð SEE STOP PLATE DETAIL 9 , , (E) 6 -_^/ , (20) (20) -_ , _______ ______ (8) Ľ. - (9) (1) (1) (\mathfrak{R})

HIP ADDUCTION

PRODUCT NO. 4640

PARTS LIST



DESCRIPTION

PART NO.

DESCRIPTION

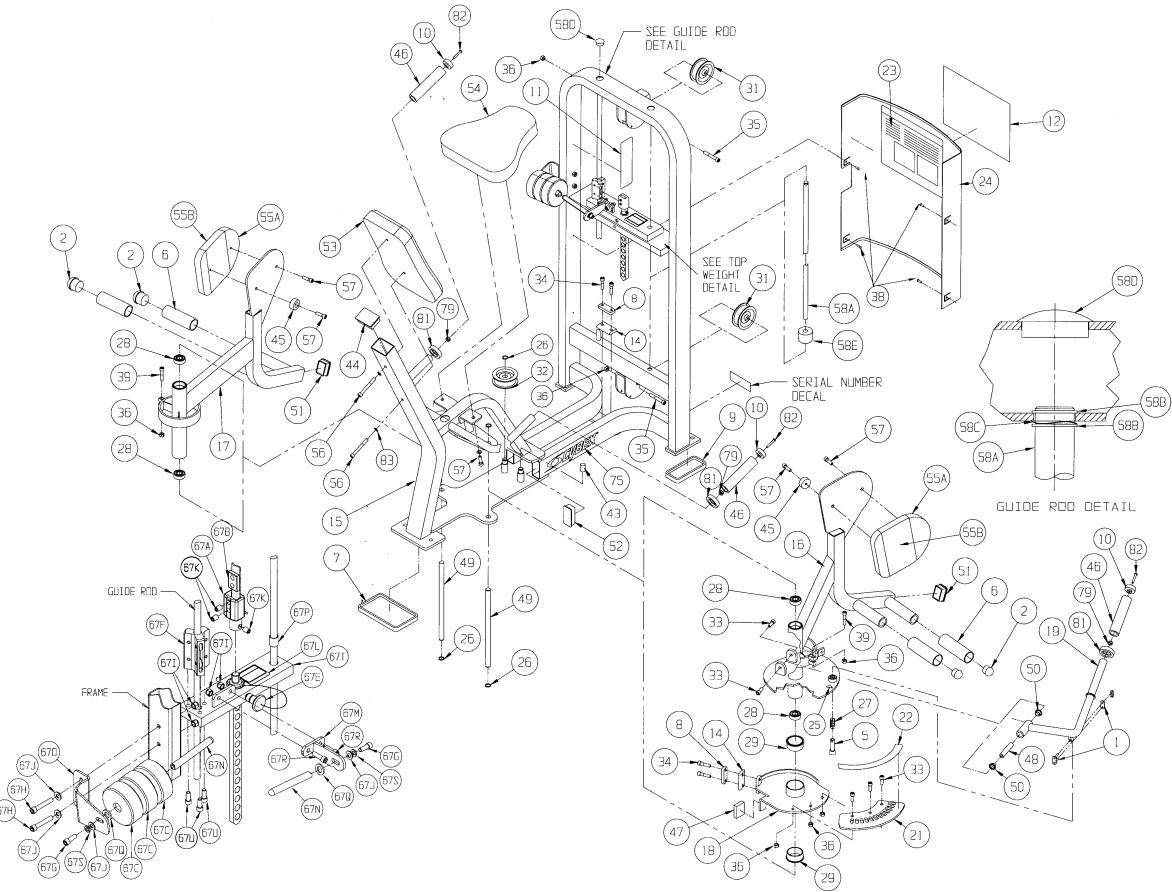
- A. Cable Subassembly 4140-004
- **B.** Grip...... 4140-329
- **C.** Warning Decal...... 4605-381
- D. Belt GB000202
- E. Cybex Decal Blk/Plm 3900-391
- E. Cybex Decal Wht/Wht .. 3900-419
- G. Cybex Decal Blkt/Plm... 3900-390
- **G.** Cybex Decal Wht/Wht... 3900-415
- H. Weight Plate Decal...... 4605-388

- M. Leg Cushion/Wear
- Cover 4800-018
- N. Weight Selector Pin..... BH030207
- **O.** Serial Number Decal
- P. Wear Cover (Item M)..... 4800-090

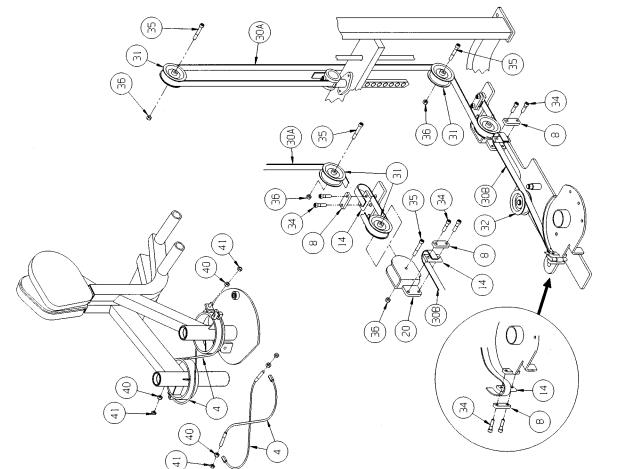
4640 - Hip Adduction

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	01989	Single Connecting Link	55 A	2	4800-018	Leg Cushion w/Wear Cover
2	4	08001	Plug	55 B	2	4800-090	Wear Cover
3			Removed	56	2	HC702834	SHCS .375-16 x 3.00
4	2	4140-004	Cable Subassembly	57	6	JC702820	SHCS .375-16 x 1.25
5	1	4140-324	Detent Pin	58	1	4701-020	Weight Stack Guide Rod Set
6	4	4140-329	Grip 5" Long	58 A	2	4535-329	Weight Stack Guide Rod
7	1	PR070002	Foot Pad 4.00 x 7.00	58 B	4	BR030214	Retaining Ring .625
8	3	4605-300	Belt Clamp	58 C	2	HS407100	Spring Washer .65 x .79 x .062 T
9	2	PR070003	Foot Pad 2.00 x 5.25	58 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G
10	3	11090-374	End Cap	58 E	2	PR060005	Weight Bumper
11	1	4605-381	Warning Decal	59			Not Used
12			Removed 3/03	60			Not Used
12	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	61			Not Used
12	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	62			Not Used
13	1	4605-388	Weight Plate Decal 10-290	63			Not Used
14	3	4605-394	Belt Clamp	64			Removed
15	1	4640-200	Frame	65			Not Used
16	1	4640-201	Input Arm (Right Hand)	66			Not Used
17	1	4640-202	Input Arm (Left Hand)	67	1	4701-030	Sliding Increment Weight Set
18	1	4640-203	Cam	67 A	1	11040-216	Belt Clamp
19	1	4640-204	Handle	67 B	1	11040-301	Belt Clamp insert
20	1	4640-205	Pulley	67 C	3	4605-390	Increment Weight
21	1	4640-301	Cam Plate	67 D	-		Removed 3/03
22	1	4640-302	Input Cam Decal	67 E	1	BH030207	Weight Selector Pin
23	1	4640-598	Placard Decal	67 F	1	4701-001	Top Weight Guide
24	1	4505-431	Guard	67 G	2	HC702817	SHCS .375-16 x 1.00
25	1	5340Y045	Arrow Decal	67 H	2	HC702828	SHCS .375-16 x 2.25
26	5	BR030210	Retaining Ring 17 mm	67 1	4	HN704901	Nylon Locknut .375-16
27	1	BS070201	Com Spring .56 x .66 x 1.50 L	67 J	4	HS347600	Washer, SAE .375
28	4	FB030232	Radial Brg 17 mm ID (Ext Race)	67 K	3	HY740000	Set Screw
29	2	FB130206	Flange Brg 2.00 x 2.25 x 1.00 L	67 L	1	4605-424	Caution Decal
30 A	105"	GB000202	Belt .95" Wide	67 M	1	4700-240	Weight Mount
30 B	29"	GB000202	Belt .95" Wide	67 N	2	4700-318	Increment Weight Rod
31	3	GP000209	Pulley Assembly 3.50	67 O	1	4700-319	Frame Mount Increment Weigh
32	1	GP000212	Pulley Assembly 3.50	67 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
33	5	HC702817	SHCS .375-16 x 1.00	67 Q	2	4700-321	Rubber Washer
34	6	HC702822	SHCS .375-16 x 1.50	67 R	2	JC702820	SHCS .375-16 x 1.25
35	3	HC702830	SHCS .375-16 x 2.50	67 S	2	HS348300	Split Lockwasher .375
36	10	HN704901	Nylon Locknut .375-16	67 T	1	4700-239	Top Weight
37			Not Used	67 U	3	HC702816	SHCS .375-16 x .875
38	4	HT102214	Tap Screw #10-12 x .625 A (Phil)	68			Removed
39	2	JC702824	SHCS .375-16 x 1.75	69			Not Used
40	2	JN714200	Hex Nut .375-24	70			Not Used
41	2	JN714400	Jam Nut .375-24	71			Not Used
42			Removed 8/98	72			Not Used
43	1	PP080205	Cap	73			Not Used
44	1	PP090206	Plastic Insert	74			Not Used
45	2	PR060003	Recess Bumper	75			Removed 3/03
46	3	4605-500	Grip 6" Long	75	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
47	1	PU060201	Bumper	75	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
48	1	4535-328	Short Pivot Pin	76			Not Used
49	2	4605-334	Pivot Shaft 13.06	77	1	4701-302	VR2 Weight Stack Instr. (not shown)
50	2	FB130205	Flange Brg .62 x .75 x .88 L	78	1	51198	Strength Warranty Sheet (not shown)
51	2	PP090000	Plastic Insert 1.50 x 2.00 x 11 G	79	3	HF449063	Tube Insert
52	2	PP090202	Plastic Insert 1.50 x 3.00 x 11 G	80	9	4000C101	Stack Weight 4 x 18 (not shown)
53	1	4800-115	Back Cushion	81	3	11090-376	Handle Grip Ring
54	1	4800-025	Seat Cushion	82	3	JC620422	BHSCS .250-20 x 1.50
55 A	2	4800-018	Leg Cushion w/Wear Cover	83	8	JS347400	Internal Tooth Lockwasher
L			······································		-		

HIP ADDUCTION - 4640



TOP WEIGHT DETAIL

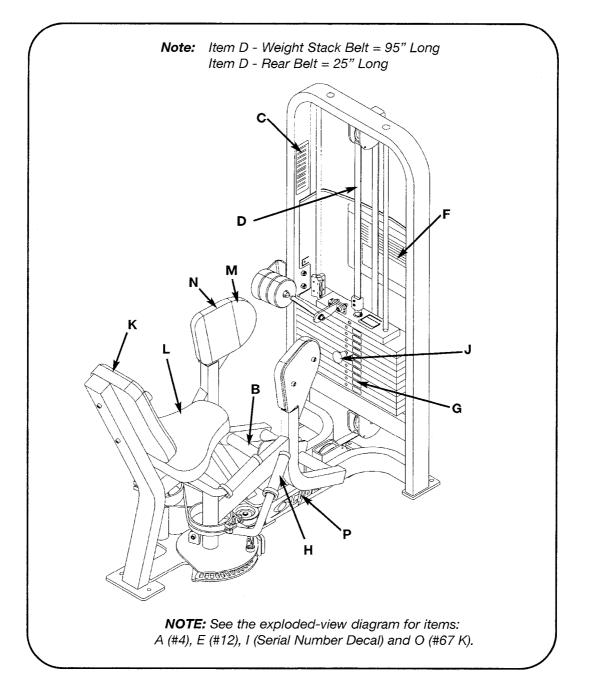


BELT ROUTING DETAIL

HIP ABDUCTION

PRODUCT NO. 4645

PARTS LIST



DESCRIPTION

PART NO.

- A. Cable Subassembly 4140-004
- **B.** Rubber Grip 4140-329
- C. Warning Decal 4605-381
- **D.** Belt..... GB000202
- E. Cybex Decal Blk/Plm 3900-391
- E. Cybex Decal Wht/Wht .. 3900-419
- G. Weight Plate Decal...... 4605-388
- **H.** Grip 4605-500
- I. Serial Number Decal

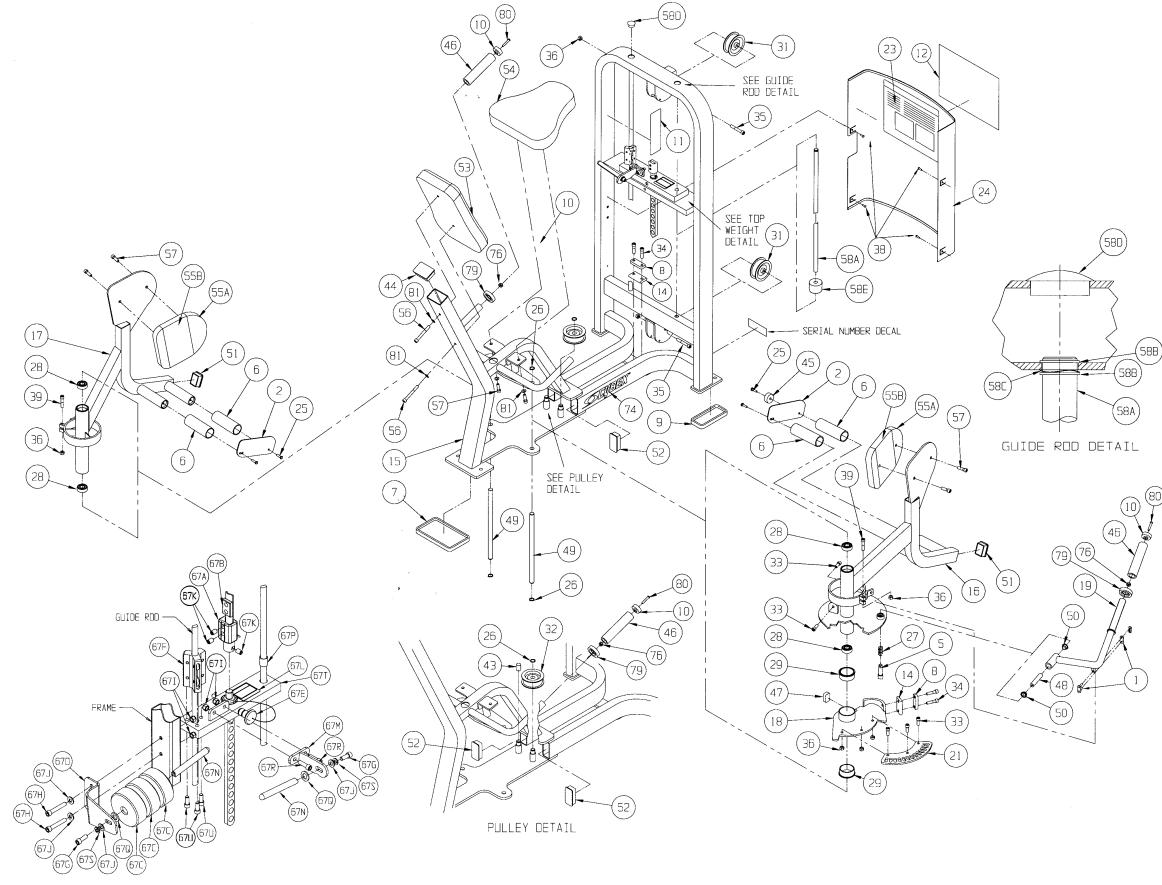
DESCRIPTION

- J. Weight Selector Pin..... BH030207
- **K.** Back Cushion..... 4800-115
- L. Seat Cushion 4800-025
- M. Leg Cushion w/Wear
- **N.** Wear Cover (Item M) 4800-090
- **O.** Caution Decal 4605-424 **P.** Cybex Decal Blk/Plm 3900-390
- P. Cybex Decal Wht/Wht .. 3900-415

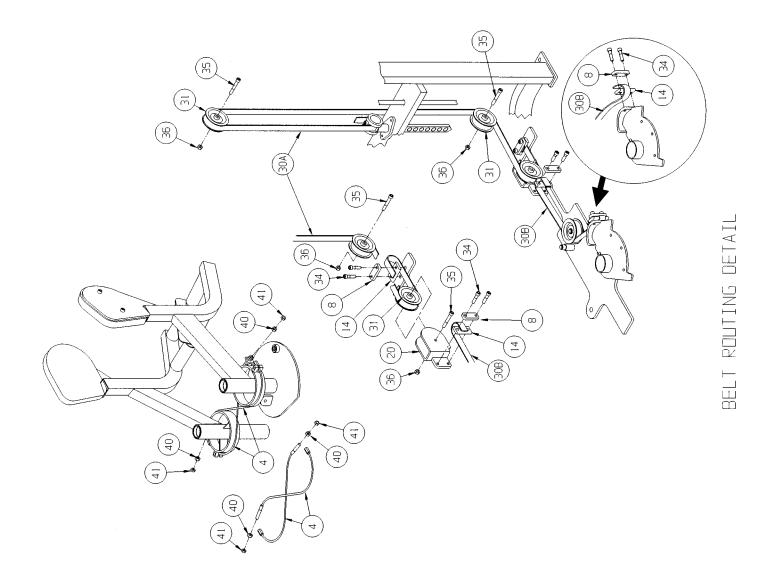
4645 - Hip Abduction

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	01989	Single Connecting Link	55 A	2	4800-018	Leg Cushion w/Wear Cover
2	2	4145-300	Foot Guard	55 B	2	4800-090	Wear Cover
3	-		Removed	56	2	HC702834	SHCS .375-16 × 3.00
4	2	4140-004	Cable Subassembly	57	6	JC702820	SHCS .375-16 x 1.25
5	1	4140-324	Detent Pin	58	1	4701-020	Weight Stack Guide Rod Set
6	4	4140-329	Grip 5" Long	58 A	2	4535-329	Weight Stack Guide Rod
7	2	PR070002	Foot Pad 4.00 x 7.00	58 B	4	BR030214	Retaining Ring .625
8	3	4605-300	Belt Clamp	58 C 58 D	2 2	HS407100	Spring Washer .65 x .79 x .062 T
9	2	PR070003	Foot Pad 2.00 x 5.25	58 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G
10	3	11090-374	End Cap	58 E 59	2	PR060005	Weight Bumper Not Used
11	1	4605-381	Warning Decal	60			Not Used
12			Removed 3/03	1			
12	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	61			Not Used
12	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	62			Not Used
13	1	4605-388	Weight Plate Decal 10 - 290	63			Not Used
14	3	4605-394	Belt Clamp	64			Removed
15	1	4640-200	Frame	65			Not Used
16	1	4645-201	Right Hand Input Arm	66		4701 00	Not Used
17	1	4645-202	Left Hand Input Arm	67	1	4701-03	Sliding Increment Weight Set
18	1	4645-203	Cam	67 A	1	11040-216	Belt Clamp
19	1	4640-204	Handle	67 B	1	11040-301	Belt Clamp Insert
20	1	4640-205	Pulley	67 C	3	4605-390	Increment Weight
21	1	4645-305	Cam Plate	67 D	4	DU00007	Removed 3/03
22			Not Used	67 E	1	BH030207	Weight Selector Pin
23	1	4645-597	Placard Decal	67 F	1	4701-001	Top Weight Guide
24	1	4505-431	Guard	67 G 67 H	2	HC702817	SHCS .375-16 x 1.00
25	4	HT622517	Tap Screw .250-20 x 1.00 F (Phil)	671	2 4	HC702828	SHCS .375-16 x 2.25
26	5	BR030210	Retaining Ring 17 mm	67 J	4	HN704901 HS347600	Nylon Locknut .375-16 Washer, SAE .375
27	1	BS070201	Com Spring .56 x .66 x 1.50 L	67 K	3	HY740000	Set Screw
28	4	FB030232	Radial Bearing 17 mm ID (Ext Race)	67 L	1	4605-424	Caution Decal
29	2	FB130206	Flange Bearing 2.00 x 2.25 x 1.00 L	67 M	1	4700-240	Weight Mount
30 A	105"	GB000202	Belt .95" Wide	67 N	2	4700-318	Increment Weight Rod
30 B	25"	GB000202	Belt .95" Wide	67 0	1	4700-319	Frame Mount Increment Weight
31	3	GP000209	Pulley Assembly 3.50	67 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
32	1 5	GP000212	Pulley Assembly 3.50	67 Q	2	4700-321	Rubber Washer
33 34	5 6	HC702817 HC702822	SHCS .375-16 x 1.00 SHCS .375-16 x 1.50	67 R	2	JC702820	SHCS .375-16 x 1.25
35	3	HC702822	SHCS .375-16 x 1.30 SHCS .375-16 x 2.50	67 S	2	HS348300	Split Lockwasher .375
36	10	HN704901	Nylon Locknut .375-16	67 T	1	4700-239	Top Weight
37	10	1111/04301	Not Used	67 U	3	HC702816	SHCS .375-16 x .875
38	4	HT102214	Tap Screw #10-12 x .625 A (Phil)	68			Removed
39	2	JC702824	SHCS .375-16 x 1.75	69			Not Used
40	2	JN714200	Hex Nut .375-24	70			Not Used
41	2	JN714400	Jam Nut .375-24	71			Not Used
42	2	0117 14400	Removed 8/98	72			Not Used
43	1	PP080205	Cap	73			Not Used
44	1	PP090206	Plastic Insert	74			Removed 3/03
45	1	PR060003	Recess Bumper	74	2	3900-390	Cybex Decal 1.57 Vert. Blk/Plm
46	3	4605-500	Grip 6" Long	74	2	3900-415	Cybex Decal 1.57 Vert. Wht/Wht
47	1	PU060201	Bumper	75	1	51198	Strength Warranty Sheet (not shown)
48	1	4535-328	Short Pivot Pin	76	3	HF449063	Tube Insert
49	2	4605-334	Pivot Shaft 13.06	77	1	4701-302	VR2 Weight Stack Instr. (not shown)
50	2	FB130205	Flange Bearing .62 x .75 x .88 L	78	9	4000C101	Stack Weight 4 x 18 (not shown)
51	2	PP090000	Plastic Insert 1.50 x 2.00 x 11 G	79	3	11090-376	Handle Grip Rind
52	2	PP090202	Plastic Insert 1.50 x 3.00 x 11 G	80	3	JC620422	BHSCS .250-20 x 1.50
53	1	4800-021	Back Cushion	81	8	11990-376	Handle Grip Ring
54	1	4800-025	Seat Cushion	82	8	JS347400	Internal Tooth Lockwasher

HIP ABDUCTION - 4645



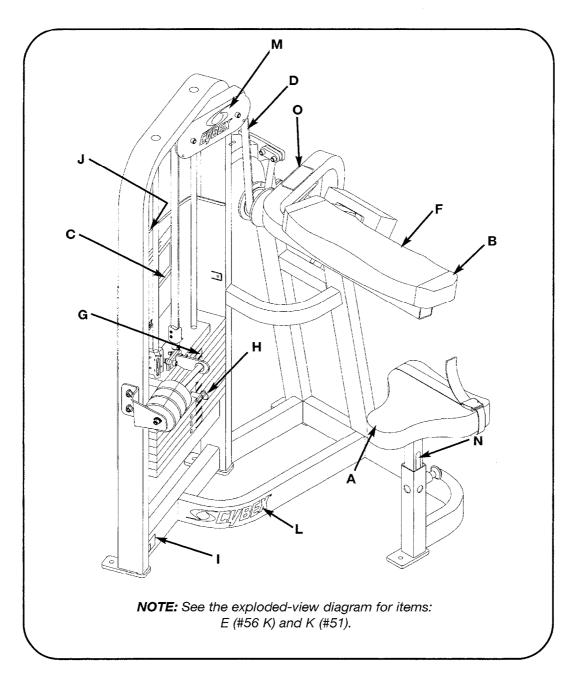
TOP WEIGHT DETAIL



AB CRUNCH

PRODUCT NO. 4705

PARTS LIST



DESCRIPTION

PART NO.

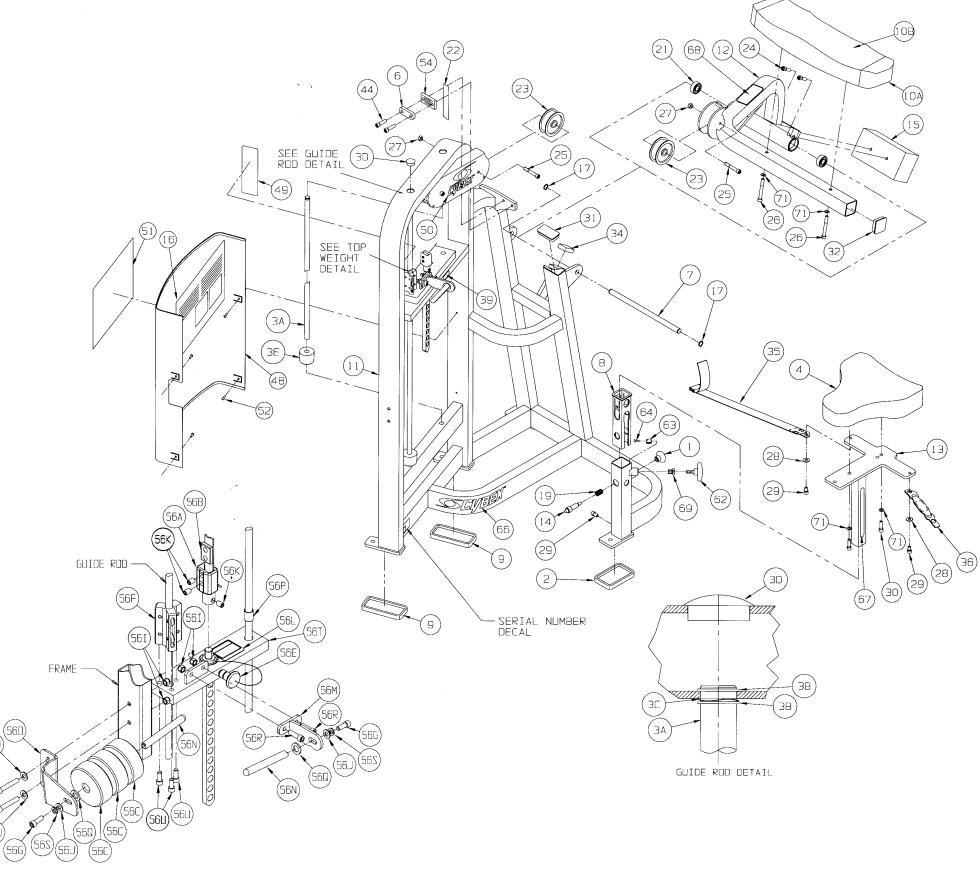
- A. Seat Cushion..... 4800-026
- B. Chest Cushion w/Wear
- **C.** Placard Decal...... 4705-323
- D. Belt 71" Long GB000202
- **E.** Caution Decal...... 4605-424
- **F.** Wear Cover (Item B)..... 4800-102
- G. Weight Plate Decal...... 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal

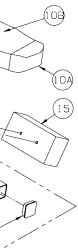
DESCRIPTION

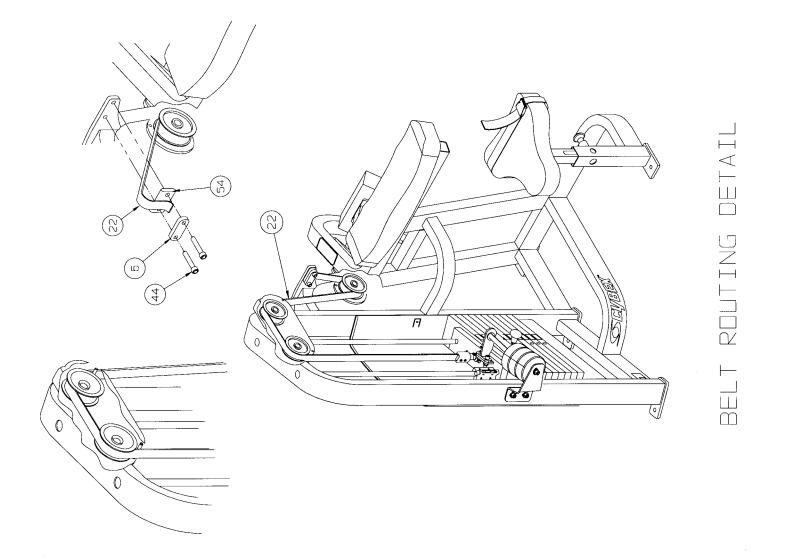
PART NO.

4705 - Ab Crunch

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	11040-440	Cvbex Knob	47			Not Used
2	1	PR070001	Foot Pad 2.50 x 4.25	48	-	4505 401	
	,				1	4505-431	Guard
3	1	4701-021	Weight Stack Guide Rod Set	49	1	4605-381	Warning Decal
3 A	2	4505-319	Weight Stack Guide Rod	50	1	3900-423	Cybex Decal 4.85 Vert. Blk/Plm
3 B	4	BR030214	Retaining Ring .625	50	1	3900-424	Cybex Decal 4.85 Vert. Wht/Wht
3 C	2	HS407100	Spring Washer .65 x .79 x .062 T	50			Removed 3/03
3 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G	51			Removed 3/03
3 E	2	PR060005	Weight Bumper	51	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm
4	1	4800-026	Seat Cushion	51	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht
5			Removed	52	4	HT102214	Tap Screw #10-12 x .625 A (Phil)
6	1	4605-300	Belt Clamp	53			Removed 8/98
7	1	4605-334	Pivot Shaft 13.06	54	1	4605-394	Belt Clamp
8	1	4605-512	Plastic Insert 7.94	55			Removed 8/98
9	3	PR070003	Foot Pad 2.00 x 5.25	56	1	4701-030	Sliding Increment Weight Set
10 A	1	4800-072	Chest Cushion w/Wear Cover	56 A	1	11040-216	Belt Clamp
10 B	1	4800-102	Wear Cover	56 B	1	11040-301	Belt Clamp Insert
11	1	4705-200	Frame	56 C	3	4605-390	Increment Weight
12	1	4705-201	Arm	56 D	Ŭ	1000 000	Removed 3/03
13	1	4705-204	Seat	56 E	1	BH030207	Weight Selector Pin
14	1	4505-329	Detent Pin	56 F	1	4701-001	0
15	1	4705-319	Counterweight	56 G	2		Top Weight Guide
			ş			HC702817	SHCS .375-16 x 1.00
16	1	4705-323	Placard Decal	56 H	2	HC702828	SHCS .375-16 x 2.25
17	2	BR030210	Retaining Ring 17 mm	56	4	HN704901	Nylon Locknut .375-16
18			Not Used	56 J	4	HS347600	Washer, SAE .375
19	1	BS070201	Com Spring .56 x .66 x 1.50 L	56 K	3	HY740000	Set Screw
20			Not Used	56 L	1	4605-424	Caution Decal
21	2	FB030232	Radial Brg 17 mm ID (Ext Race)	56 M	1	4700-240	Weight Mount
22	71'	GB000202	Belt .95" Wide	56 N	2	4700-318	Increment Weight Rod
23	3	GP000209	Pulley Assembly 3.50	56 O	1	4700-319	Frame Mount Increment Weight
24			Not Used	56 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L
25	3	HC702830	SHCS .375-16 x 2.50	56 Q	2	4700-321	Rubber Washer
26	2	HC702834	SHCS .375-16 x 3.00	56 R	2	JC702820	SHCS .375-16 x 1.25
27	5	HN704901	Nylon Locknut .375-16	56 S	2	HS348300	Split Lockwasher .375
28			Not Used	56 T	1	4700-239	Top Weight
29	3	JC702814	SHCS .375-16 x .625	56 U	3	HC702816	SHCS .375-16 x .875
30	2	JC702820	SHCS .375-16 x 1.25	57	2	HC702828	SHCS .375-16 x 2.25
31	1	PP090202	Plastic Insert 1.5 x 3.0 -11 GA	58	1	HY710408	Set Screw .375-16 x .25 Cup Pt.
32	1	PP090210	Plastic Insert 2.00 sq x 10-14 GA	59			Removed 8/98
33			Removed	60	1	4701-302	VR2 Weight Stack Instr. (not shown)
34	1	PU060203	Bumper	61	1	51198	Strength Warranty Sheet (not shown)
35	1	UB050202	Seat Belt (Buckle Half)	62	1	PP460011	Knob .375 -16
36	1	UB050204	Seat Belt (Connector Half)	63	1	AA033904	V-Pusher
37	•	00000101	Not Used	64	1	HM532812	SHCS .138.6-32 x .500
38			Not Used	65	1	4605-424	Caution Decal
39	1	4605-388	Weight Plate Decal 10-290	66	1	4000-424	
	I	4005-308	, and a second s		4	0000 000	Removed 3/03
40			Not Used	66	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
41			Not Used	66 67	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
42			Not Used	67	1	4705-327	Adjusting Decal
43	0	110706000	Not Used	68	1	4705-325	Caution Decal
44	2	HC702822	SHCS .375-16 x 1.50	69	1	4705-332	Threaded Insert .375-16 x .562-12
45			Not Used	70	9	4000C101	Stack Weight 4 x 18 (not shown)
46			Not Used	71	4	JS347400	Internal Tooth Lockwasher



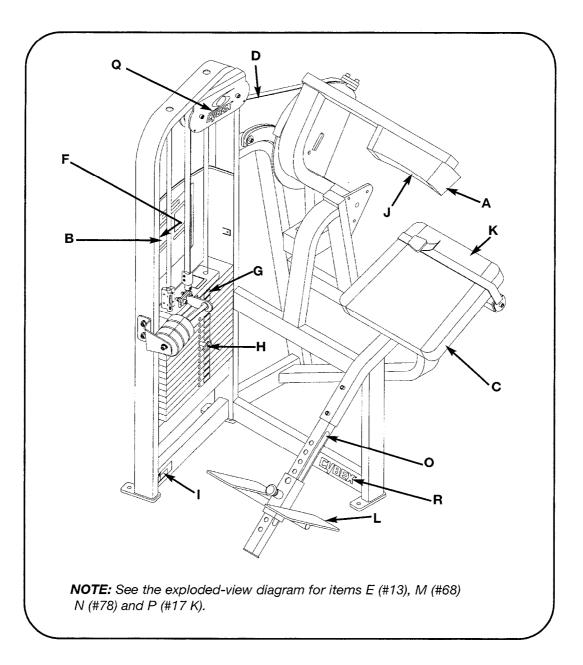




BACK EXTENSION

PRODUCT NO. 4711. 4712, 4713

PARTS LIST



DESCRIPTION

PART NO.

- A. Back Cushion..... 4800-014
- **B.** Placard Decal...... 4710-322
- **D.** Belt 70" long...... GB000202
- E. Cybex Decal Blk/Plm 3900-391E. Cybex Decal Wht/Wht... 3900-419
- **G.** Weight Plate Decal...... 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal
- J. Wear Cover (Item A) 4800-094

DESCRIPTION

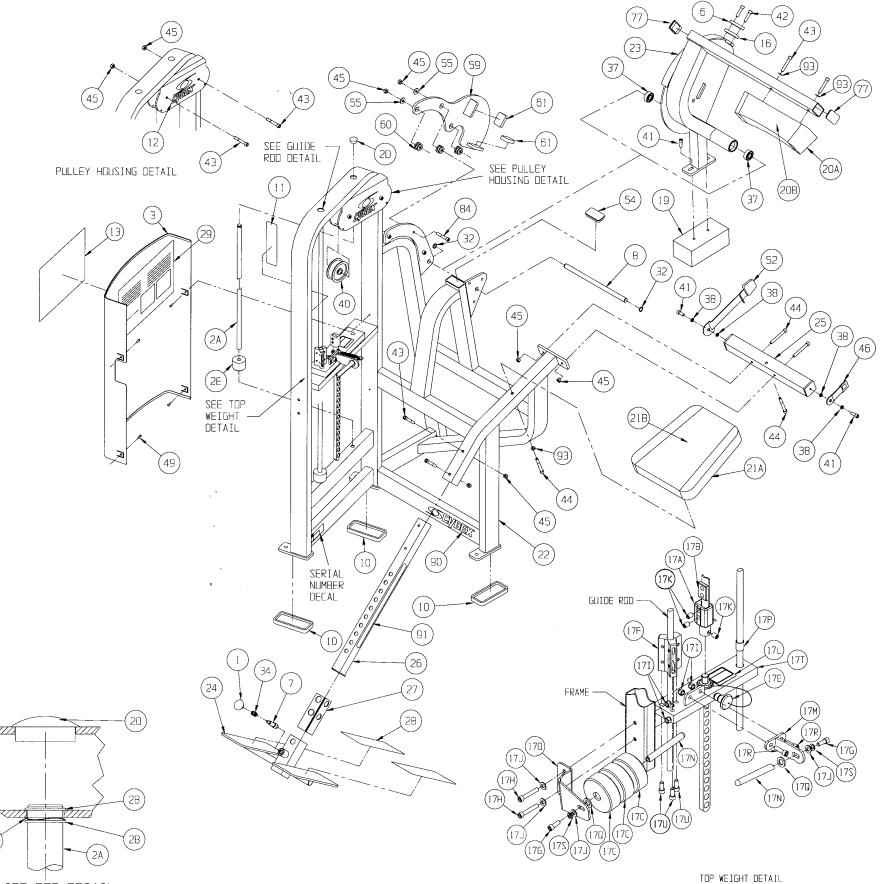
PART NO.

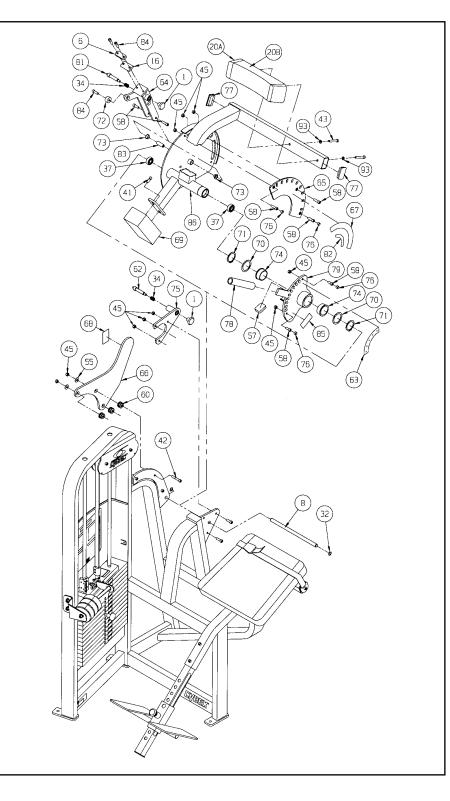
- K. Wear Cover (Item C)..... 4207S072-0
- L. Non-Slip 4710-321
- M. Caution Decal..... 8500-026
- **O**. Adjusting Decal 4890-315
- P. Caution Decal...... 4605-424
- **Q.** Cybex Decal Blk/Plm 3900-423 **Q.** Cybex Decal Wht/Wht .. 3900-424
- **R.** Cybex Decal Blk/Plm 3900-424
- **R.** Cybex Decal Wht/Wht... 3900-415

4711, 4712, 4713 - Back Extension

	ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
2 1 4701-021 Weight Stack Guide Rod Strephone 36 Comparing_68 x.86 x1.50 1 2 4 PR030214 Retaining Ring_425 36 Retaining Ring_425 2 2 PR060020 Plateic Insert 1.00 Ex x 11 G 38 4 PE030222 Retaining Ring_425 2 2 PR060020 Plateic Insert 1.00 Ex x 11 G 38 4 PE130203 Barng BT Weight Stack Note X1 3 1 4505-432 Gend 44 2 HC702817 PH0623 375-16 x 1.50 6 1 4605-334 Prot Shart 13.0 6 45 12 HV702817 PH062 375-16 x 2.50 7 1 4605-334 Prot Shart 13.0 6 45 12 HV702801 PH062 375-16 x 2.50 11 1 4605-342 Pot Shart 13.0 1 Phore 2000 38	1	3	11040-440	Cybex Knob	33			Not Used
2.8 2 4505-319 Weight Stack Guide Rod 35 Not Used 2.0 2 H54071160 Spring Washer 65 x.75 x.02 T 37 2 FB308222 Hadini birg 17 mm ID [Ext Race 2.0 2 PH060200 Weight Bumper 33 37 2 FB308232 Hadini birg 17 mm ID [Ext Race 3.8 4 4 405-432 Bande Birg 17 mm ID [Ext Race 38 70 70 G000020 Birg 17 x.50 x.10 x.10 3.4 4 405-332 Demoved 42 3 HC702822 SHC6.375-16 x.15.0 5 - Hadin Sande X X 55 44 HC702823 SHC6.375-16 x.15.0 1 4605-334 Belt Clamp 43 6 HC702834 SHC6.375-16 x.3.0 11 4205-334 Belt Clamp 43 6 HC702834 SHC6.375-16 x.10 12 13 3950-423 Ophex Decal 4.85 Vert Bir/Pin 44 HC702840 HHC1484 HC702841 13 13950-412 Ophex Decal 11.37 Vert WHC14						3	BS070201	Com Spring .56 X .66 X 1.50 l
2 B 4 Benoved Benoved 2 C 2 PH6802000 Phastic Insert 1.00 Dix x11 G 38 4 FE130239 Redia Eg1 7 mm D Ext Read 2 D 2 Ph680000 Phastic Insert 1.00 Dix x11 G 38 4 FE130239 Bett .97 Wale SHD .37 SHD .45		2			35			
2 C 2 Head Dirg 1 Symp Visater 85, 79 × .082 T 37 2 FB002022 Packal Eng 17 mm ID (Ext Res Philds) 2 E 2 PN600205 Weight Bumper 39 70" GBD02025 Philds) Philds) 81, 95" Wide 4 4 4 4 4 4 4 4 4 4 5 914 (St St S					36			Removed
2 D 2 PH4000200 Plange Brg. 375 × 350 × 125 3 I 4505-32 Guard 38 4 FB130209 Bett. 90" Wide 3 I 4505-32 Guard 40 2 GP0000202 Bett. 90" Wide 6 I 1 4605-300 Bett. 10mp 43 6 HC702823 SHCS. 375-16 × 1.00 6 I 1 4605-300 Bett. Clamp 43 6 HC702823 SHCS. 375-16 × 1.00 8 I 4.465-300 Bett. Clamp 43 6 HC702823 SHCS. 375-16 × 1.00 11 1 4405-331 Debt. Staft 13.06 45 12 HW74901 Not load 12 1 3800-423 Cybex Decal 4.55 Vert. Bir/Pin 48 4 HT102214 Tab Server #10-12 × .025 A /Pi 13 1 3800-331 Cybex Decal 11.37 Vert. Bir/Pin 53 HE33/7700 Wather .375 USS Not Used 13 1 3800-331 Cybex Decal 11.37 Vert. Bir/Pin 53 HE33/7700 Wather .375 USS 74 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td>FB030232</td> <td></td>						2	FB030232	
2 2 PP060005 Nuture Weight Bumper 39 Part 70" Part GB000202 Part Part Str Wide 4 4 4405-432 Guard 40 2 GR002009 Pulley Assembly 3:50 5 Removed 42 3 HG702822 SHCS.375-18 x 1:30 6 1 4405-320 Detent Ph 44 4 HG702823 SHCS.375-18 x 1:30 7 1 4405-334 Buit Clamp 43 6 HIT02814 SHCS.375-18 x 1:30 8 1 4405-334 Buit Clamp 43 6 HIT02214 SHCS.375-16 x 1:30 10 4 PR070003 Foor Pad.00.X 5:75 47 Not Used No					38		FB130209	
3 1 4505-432 Guard Not Used 40 2 G PR00209 Pulley Assembly 3.50 6 1 4405-300 Bolt Clamp 43 6 HC702812 SHCS. 375-16 x 1.00 6 1 4405-322 Detert Pin 44 4 HC702813 SHCS. 375-16 x 3.00 8 1 4405-348 Belt Clamp Insert 44 4 HC702830 SHCS. 375-16 x 3.00 9 1 4405-348 Belt Clamp Insert 46 1 UB062014 Not Used 11 1 4405-348 Belt Clamp Insert 46 1 UB050201 Not Used 12 1 3800-412 Cybex Decall 4.5 Vert. WhYh 50 Not Used Not Used 13 1 3800-412 Cybex Decall 1.3 Vert. BI/Pin 53 1 PU080202 Patter Ass. 3.0 x 11 14 1 4405-384 Belt Clamp 53 1 PU080203 Better Bondel Mourt 13 1 3900-412 Cybex Decall 1.3 Vert. BI						70"		
4 House 41 4 H C702817 SHC5 375-16 x 1.00 6 1 4605-320 Belt Clamp 43 6 HC702822 SHC5 375-16 x 2.50 7 1 4605-324 Phot Shaft 13.06 45 12 HN704901 SHC5 375-16 x 3.00 8 1 4605-344 Belt Clamp Insert 46 1 UB50201 Set Belt-Connect Half 7* 10 4 PR070003 Foot Pad 2.00 X 5.25 47 Not Used Not Used Not Used 12 3800-423 Cybex Decail 4.85 Vert, Bik/Pim 49 4 HT102214 Tas Esrew 410-12 x .625 A (P) 13 1 900-911 Cybex Decail 4.85 Vert, Bik/Pim 45 1 UB50202 Satt Est Bett Bett Bett Bett Bett Bett Bett Be				o .				
5 Removed 42 3 HC702820 SHCS. 37-16 x 1.60 6 1 4605-322 Detert Pin 44 4 HC702830 SHCS. 37-16 x 2.60 7 1 4605-344 Bett Clamp Insert 44 4 HC702830 SHCS. 37-16 x 3.00 9 1 4605-344 Bett Clamp Insert 46 1 UB050204 Seat Bet-Connector Hall 7" 11 1 4805-345 Warning Decal 48 Not Used Not Used 12 1 3800-422 Cybex Decal 4.85 Vert. Bit/Plin 48 Not Used Not Used 13 1 3800-491 Cybex Decal 11.37 Vert. Wht/Wht 51 Removed 300.3 15 Not Used 14 4605-384 Weight Flast Decal 10-290 55 1 H270200 Reato Insert 1.50 x 3.00 x 11 15 Not Used 57 1 PU06203 Bernoved 57 1 PU06204 Bernoved 16 1 4605-394 Berd Clamp 57 1<		,	1000 102					5 5
6 1 4605-300 Beit Clamp 43 6 H C702830 SHCS: 375-16 x 2.50 8 1 4605-334 Phot Shaft 13.06 45 12 HN704901 Nylon Locknut.375-16 x 3.00 9 1 4605-344 Bett Clamp Insert 46 1 UB050204 Seat Bett-Connector Haf 7* 10 4 PR070003 Foot Pad 2.00 X 5.25 47 Not Used Not Used 12 1 3800-423 Cybex Decal 4.85 Vert. Bit/Pim 49 HT102214 Tap Screw #10-12 x.625 A (PI 13 1 3800-391 Cybex Decal 11.37 Vert. Bit/Pim 52 1 UB050202 Seat Bet 1- Buckle Haft 14 1 4605-384 Weight Plate Decal 10-290 55 HS347700 Washer .375 USS 16 1 4605-394 Bett Clamp 57 1 PU060203 Bumper 17 1 1040-2016 Bett Clamp 57 1 PU060201 Bumper 17 4 4071-301 Bett C								
7 1 4405-322 Detert Pin 44 4 HC702834 SHCS .375-16 x 3.00 9 1 4605-348 Bett Clamp Insert 46 1 LH703001 Nylon Locknut. 375-16 10 4 PR07000.5 Foot Pact 2.00 X 5.25 47 Not Used Not Used 11 1 4605-381 Warning Decal 48 Not Used Not Used 12 1 3800-422 Cybex Decal 4.85 Vert. Bit/Plm 48 Not Used Not Used 13 1 3900-424 Cybex Decal 11.37 Vert. Whr.Wh 50 Not Used Not Used 14 4605-384 Weight Plate Decal 10-290 53 H S47700 Weight Plate Decal 10-290 56 H B40200 Removed 303 S7 1 PU060202 Plate Insert 1.50 x 3.00 x 11 14 4605-384 Weight Plate Decal 10-290 56 H B40200 Plate Insert 1.50 x 3.00 x 11 S7 1 PU060202 Plate Insert 1.50 x 3.00 x 11 15 Indorus 16 B405-394 Bett Clamp sect		1	4605-300					
8 1 4605-334 Pivot Shaft 13.06 45 12 HIV04901 Nylon Locknut 375-16 9 1 4605-334 Bet Clamp Insert 46 1 UB050204 Set Bet-Connector Half 7* 10 4 PR070003 Fcot Pad 2.00 X 5.25 47 Not Used Not Used 12 1 3900-423 Cybex Decal 4.85 Vert. Bit/Pfm 49 4 HT102214 Tap Screw 410-12 x. 625 A (Pl 12 1 3900-423 Cybex Decal 1.13 Yert. Bit/Pfm 50 Not Used Removed 3/03 Fcore Val. 1.13 Yert. Bit/Pfm 51 Not Used S1 H203020 Batic Insert 1.50 x 3.00 x 11 Fcore Val. 2.00 x 3.00				•				
9 1 460-346 Belt Camp Insert 46 1 UB050204 Seat Belt-Connector Háf 7" 110 4 460-381 Warning Decal 48 Not Used Not Used 112 1 3900-424 Cybex Decal 4.85 Vert. Bit/Plm 49 4 H1102214 Tap Screw H0-12 x.025 A (PI 12 1 3900-424 Cybex Decal 1.35 Vert. Bit/Plm 50 H1102214 Tap Screw H0-12 x.025 A (PI 13 1 3900-391 Cybex Decal 1.37 Vert. Wh/Wht 54 1 PP090202 Plasto Insert 1.50 x 3.00 x 11 14 4605-384 Weight Plate Decal 10-290 55 3 H5347700 Weater.375 USS 15 Not Used 56 7 H2002020 Blumper 17 1 4701-301 Bitl Camp Insert 60 3 PF7430300 Center Bonded Mount 17 1 11040-216 Bitl Camp Insert 60 3 PF7430300 Center Bonded Mount 17 1 11040-301 Belt Camp Insert <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
10 4 PRO70003 Foot Pad 2:00 X 5:25 47 Not Used 11 1 4605-381 Warning Decal 48 HT102214 Tap Screw #10-12 x. 625 A (P) 12 1 3900-423 Cybex Decal 4.85 Vert. Blir/Plm 49 4 HT102214 Tap Screw #10-12 x. 625 A (P) 13 1 3900-421 Cybex Decal 1.13 Vert. Blir/Plm 50 Not Used Not Used 13 1 3900-391 Cybex Decal 1.13 Vert. Blir/Plm 53 Not Used Not Used Not Used 14 1 4605-384 Belt Clamp 51 1 PD090202 Beato Insert .50 x 3.00 x 11 15 Not Used 57 1 PU060203 Burnper 16 1 4605-390 Belt Clamp Insert 60 3 PP740300 Centre Bonded Mount 17 1 11040-216 Belt Clamp Insert 60 3 PP743030 Centre Bonded Mount 17 1 14062-301 Belt Clamp Insert 60 1 4713-								
11 1 4605-381 Warning Decal 48 Not Used 12 1 3900-424 Cybex Decal 4.85 Vert. Wht/Wht 50 HT102214 Tas Sorew #10-12 x.625 A (P) 12 1 3900-424 Cybex Decal 4.85 Vert. Wht/Wht 50 Not Used Not Used 13 1 3900-431 Cybex Decal 11.37 Vert. Wht/Wht 51 Removed 3/03 S2 1 UB052022 Seat Belt - Buckle Half 14 1 4605-388 Weight Plate Decal 10-290 55 3 HS347700 Weater .375 USS Removed 15 Not Used 56 7 H2060202 Plastic Insert 1.50 x 3.00 x 11 16 1 4605-394 Bet Clamp 57 1 PU060203 Bumper 17 C 1 4710-301 Bet Clamp 58 7 H2060201 Bumper 17 C 1 4701-301 Bet Clamp 59 1 4713-318 Detent Pin 17 C 1 4701-301 Top Weight Guide 64		•		•		•	02000201	
12 1 3900-423 Cybex Deal 4.85 Vert. Bit/Pirm 49 4 HT102214 Tap Screw #10-12 x.625 A (P) 12 3900-423 Cybex Deal 4.85 Vert. Wht/Wht 50 Removed 8/96 13 1 3900-391 Cybex Deal 1.37 Vert. Bit/Pirm 53 Not Used 13 1 3900-419 Cybex Deal 11.37 Vert. Wit/Wht 54 1 PP030202 Plastic Insert 1.50 x 3.00 x 11 14 1 4605-388 Weight Plate Decal 10-290 55 3 H5347700 Washer .376 USS 15 Not Used Set Clamp 57 1 PU602021 Bumper 16 1 4605-398 Belt Clamp 56 1 H0702816 SHCS 375-16x .375 17 D 1 11040-210 Belt Clamp Insert 60 3 PP743030 Center Bonded Mount 17 D 4005-390 Increment Weight 61 2 PU602021 Bumper 17 D 4005-390 Increment Weight 63 1 4713-318 Detent Pin	1 C							
12 1 3900-424 Cybex Dead 14.85 Vert. Wh/t/Wht 50 Not Used 13 1 3900-319 Cybex Dead 11.37 Vert. Bit/Pin 53 1 UB050202 Seat Beit - Buckle Haif 14 1 4505-388 Weight Plate Dead 11.37 Vert. Bit/Pin 54 1 PP0080202 Plastic Insert 1.50 x 3.00 x 11 14 1 4505-388 Weight Plate Dead 10-290 55 3 HS347700 Washer 375 USS 15 Not Used 57 1 PU060203 Burner 17 1 11040-216 Bet Clamp 55 1 4711-211 Bar Stop 17 1 11040-216 Bet Clamp Insert 60 3 14711-311 Bar Stop 17 2 4605-390 Increment Weight Seit 52 1 4713-318 Detent Pin 17 3 4605-390 Increment Weight Seit 56 1 4713-314 Cam Stop Decal 17 4 HY704000 Set 375-16 x 1.00 66 1 <td>1</td> <td>•</td> <td></td> <td></td> <td></td> <td>4</td> <td>HT102214</td> <td></td>	1	•				4	HT102214	
12 Removed 3/03 51 Removed 8/88 13 1 3900-391 Cybex Decal 11.37 Vert. Bit/Plm 53 Not Used Not Used 13 1 3900-491 Cybex Decal 11.37 Vert. Bit/Plm 54 1 PP090202 Plastic Insert 1.50 x 3.00 x 11 14 1 4605-384 Bett Clamp 55 15 Removed 3/03 15 Not Used 10 54 1 PP090202 Plastic Insert 1.50 x 3.00 x 11 14 1 4605-394 Bett Clamp 56 Removed 3/03 Bumper 17 1 4701-030 Bitling Increment Weight Set 58 7 HC/02816 ShCS 3/75-16 x 3/75 17 D Bett Clamp Insert 60 3 PP74/3030 Center Bonded Mount 17 E 1 BH030207 Weight Selector Pin 63 1 4713-318 Detent Pin 17 G 2 HC702816 SHCS 3/75-16 x 2.05 Gan Arm Can Stop Decal 17 H 4 HC702826 SHCS 3/75-1	1	-				•		
13 3900-419 Cybex Decal 11.37 Vert. Bit/Pit 52 1 UBS0202 Stat Eet - Buckle Haif 13 1 3900-419 Cybex Decal 11.37 Vert. Bit/Pit 53 1 P090202 Plastic Insert 1.50 x 3.00 x 11 14 1 4605-384 Weight Plate Decal 10-290 56 3 HS347700 Washer 375 USS 15 1 4605-384 Belt Clamp 56 1 PU060203 Burner 17 1 11040-210 Bitling Incement Weight Set 56 1 PU062003 Burner 17 1 11040-210 Belt Clamp Insert 60 3 PR140300 Centre Bonded Mount 17 1 11040-230 Belt Clamp Insert 61 2 PU06201 Burner Burner 17 2 HO702817 SHCS 375-16 x 1.00 65 1 4713-313 Detert Pin 17 4 HN704901 Nyle weight Guide 64 1 4713-313 Stat Cam Pace 17 4			0000 424	5				
13 1 3900-391 Cybex Decal 11.37 Vert. Mir/Wirt 53 Not Used 13 1 4605-388 Weight Plate Decal 10-290 53 HS347700 Plastic Insert 1.50 x 3.00 x 11 14 1 4605-388 Weight Plate Decal 10-290 56 3 HS347700 Removed 15 1 4605-394 Belt Clamp 57 1 PU060203 Burnger 17 1 4701-030 Sticling Increment Weight Set 56 7 HC702816 SHC5, 375-16 x .875 17 1 11040-216 Belt Clamp Insert 60 3 PR740300 Center Sonded Mount 17 1 11040-217 Bled Size TP in 61 2 PU069201 Burnger 17 1 Br030207 Weight Plate Size TP in 61 4713-318 Center Sonded Mount 17 4 HS347600 Washer, 375-16 & 2.25 66 1 4713-313 Start Cam Decal 17 4 HS347600 Washer, 375-16 & 7.35 68 <td></td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>LIB050202</td> <td></td>						1	LIB050202	
13 1 3800-419 Cybex Decal 11.37 Vert. Whrt/Whrt 54 1 PP090202 Plastic Insert 1.50 x 3.00 x 11 14 1 4605-384 Weight Plate Decal 0-290 55 3 HS347700 Washer: 375 USS 15 1 4605-394 Belt Clamp 55 7 PU080203 Bumper 17 1 11040-216 Belt Clamp 59 1 4711-211 Bar Stop 17 B 1 11040-216 Belt Clamp Insert 60 3 PR740300 Center Bonded Mount 17 C 3 4605-380 Increment Weight 61 2 PU080201 Bumper 17 C 3 4605-380 Increment Weight 61 4713-318 Detecth Pin 17 C 3 4605-380 Weight Gelector Pin 63 1 4713-318 Detecth Pin 17 L 4 H0702815 SHCS. 375-16 x 1.00 65 1 4713-313 Gam Fistop 17 L 4 H074000 Set Surze		1	3900-391		1		0000202	
14 1 4605-388 Weight Plate Decal 10-290 Not Used 55 3 HS347700 Washer 375 USS Removed 15 1 4605-394 Belt Clamp 57 1 PU060203 Bumper 17 1 4701-030 Siding Increment Weight Set 58 7 H-1720216 SHCS .375-16x .875 17 B 1 11040-216 Belt Clamp Insert 60 3 PF740300 Center Bonded Mount 17 C 3 4805-390 Increment Weight Set 61 4713-314 Cam Stop Decal 17 E 1 BH030207 Weight Selector Pin 63 1 4713-314 Cam Am Decal 17 F 1 4701-001 Top Weight Guide 64 1 4713-313 Start Cam Decal 17 H 2 HC702817 SHCS .375-16 x .225 66 1 4713-313 Start Cam Decal 17 J 4 HN740000 Set Screw 69 1 4713-313 Start Cam Decal 17 K 3 HY740000	1					-	PP090202	
15 Not Üsed 56 Removed 16 1 4605-394 Beit Clamp 57 1 PU60203 Bumper 17 1 4701-030 Silding Increment Weight Set 58 7 1 PU60203 Bumper 17 1 11040-216 Beit Clamp Inert 60 3 PR740300 Center Bonded Mount 17 2 4605-390 Increment Weight 61 2 PU060201 Bumper 17 1 4701-310 Bett Clamp Inert 60 3 PR740300 Center Bonded Mount 17 1 4701-310 Bett Clamp Weight Selector Pin 63 1 4713-318 Detent Pin 17 4 HO702817 SHCS.375-16 x 2.25 66 1 4713-303 Cam Plate 17.1 4 HN740000 Set Screy 69 1 4713-328 Bearling Ring 2.00 (Ext) 17.1 4 4605-424 Caution Decal 71 2 4715-366 Washer </td <td></td> <td></td> <td></td> <td>,</td> <td></td> <td></td> <td></td> <td></td>				,				
16 1 4405-394 Belt Clamp 57 1 PU060203 Bumper 17 1 11040-216 Belt Clamp 59 1 4711-211 Bar Stop 17 1 11040-216 Belt Clamp Insert 60 3 PP1740300 Center Bonded Mount 17 B 1 11040-301 Bett Clamp Insert 60 3 PP1740300 Center Bonded Mount 17 C 3 4065-304 Increment Weight 61 2 PU060201 Bumper 17 F 1 4701-001 Top Weight Guide 64 1 4713-314 Cam Stop Decal 17 4 HS70471 SHCS 375-16 x 2.25 66 1 4713-313 Start Cam Decal 17 4 HS70400 Washer, SAE 375 68 6500-026 Caution Decal 17 4 HS70400 Washer, SAE 375 68 1 4713-323 Counterweight 17 4 HS70400 Washer		1	4000-366	•		5	110047700	
17 1 4701-030 Silding Increment Weight Set 58 7 HC702816 SHC53 375-18x.875 17 A 1 1040-216 Bett Clamp Insert 60 3 PR740300 Center Bonded Mount 17 C 3 4605-390 Increment Weight 61 2 PU600201 Bumper 17 D Removed 3/03 62 1 4713-318 Detent Pin 17 F 1 4701-001 Top Weight Guide 64 1 4713-318 Detent Pin 17 R 2 HC702817 SHC5.375-16 x 1.00 65 1 4713-313 Start Cam Decal 17 H 2 HC702818 SHC5.375-16 x 1.00 66 1 4713-313 Start Cam Decal 17 J 4 HNS74000 Vasher, SAE.375 68 1 4713-313 Start Cam Decal 17 J 4 HO70400 Washer, SAE.375 68 1 4713-313 Start Cam Decal 17 A 4 700-240 Weight Mount 71		-	1605 201			4	DI 1060202	
17.A 1 11040-216 Belt Clamp Inset 59 1 4711-211 Bar Stop 17.B 1 11040-301 Belt Clamp Inset 60 3 PR740300 Center Bonded Mount 17.C 3 4605-390 Increment Weight 61 2 PU060201 Bumper 17.E 1 BH030207 Weight Selector Pin 63 1 4713-318 Detent Pin 17.F 1 4701-001 Top Weight Guide 64 4713-312 Cam Stop Decal 17.F 1 4701-001 Top Weight Selector Pin 63 1 4713-313 Start Cam Decal 17.H 2 HC702817 SHCS.375-16 x 2.25 66 1 4713-313 Start Cam Decal 17.L 4 HS347600 Washer, SAE .375 68 1 8500-026 Caution Decal 17.K 3 HY74000 Set Screw 69 1 4713-338 Washer 17.L 4 4700-319 Former Mount Increment Weight Rod 71 2 FB130206 Flang Brg .20.0 x 2.25 x 1.0.0 1 1						-		
17 B 1 11040-301 Beit Clamp Insert 60 3 PR740300 Center banded Mount 17 C 3 4805-390 Increment Weight 61 2 PU080201 Bumper 17 D Removed 3(03 62 1 4713-318 Detent Pin 63 1 4713-314 Cam Stop Decal 17 F 1 4710-011 Top Weight Selector Pin 63 1 4713-205 Cam Am Cam Stop Decal 17 G 2 HC702817 SHCS 375-16 x 1.00 65 1 4713-313 Start Cam Decal 66 1 4713-313 Start Cam Decal 70 2 A713-313 Start Cam Decal 70 2 4713-323 Counterweight 70 2 4713-323 Counterweight 71 2 BR30213 Retaining Ring 2.00 (Ext) Ext Stop 17 L 1 4605-424 Caution Decal 70 2 4715-336 Washer 71 2 BR30213 Retaining Ring 2.00 (Ext) 17 N 2 4700-318 Increment Weight Rod 72 1 FB302039 Cam Follower <td></td> <td>•</td> <td></td> <td>•</td> <td></td> <td></td> <td></td> <td></td>		•		•				
17 C 3 4605-390 Increment Weight Removed 3/03 61 2 PU060201 Bumper 17 D Removed 3/03 62 1 4713-318 Detent Pin 17 F 1 4701-001 Top Weight Selector Pin 63 1 4713-318 Detent Pin 17 F 1 4701-001 Top Weight Selector Pin 64 1 4713-302 Cam Arm 17 G 2 HC702828 SHCS.375-16 & 1.00 65 1 4713-312 Bar Stop 17 J 4 HS347600 Washer, SA: 375-16 66 1 4713-313 Start Cam Decal 17 L 1 4605-424 Caution Decal 70 2 4715-336 Washer 17 N 1 4700-318 Increment Weight Rod 72 1 FB130206 Flange Brg 2.00 (Ext) 17 N 2 4700-318 Increment Weight 73 2 FB130206 Flange Brg 2.00 x 2.25 x 1.001 17 Q 2 4700-319 Frame Mount Increment Weight	•			•				
17 D Removed 3/02 62 1 4713-318 Detert Pin 17 F 1 BH030207 Weight Selector Pin 63 1 4713-318 Cam Stop Decal 17 F 1 4701-001 Top Weight Selector Pin 63 1 4713-303 Cam Stop Decal 17 G 2 HC702817 SHCS. 375-16 x 1.00 65 1 4713-303 Cam Plate 17 H 2 HC702817 SHCS. 375-16 x 2.25 66 1 4713-313 Start Cam Decal 17 J 4 HS347600 Washer, SAE. 375 68 1 8500-026 Caution Decal 17 K 3 H7740000 Set Screw 69 1 4713-323 Counterweight 17 L 1 4605-424 Caution Decal 70 2 4713-324 Caution Decal 17 N 2 4700-318 Increment Weight Rod 72 1 FB130206 Flange Brg .0.0 X.25 x .1.0.0 L 17 O 1 4700-321 Rubord Washer .375<	1			•				
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BACK EXTENSION - 4711, 4712, 4713

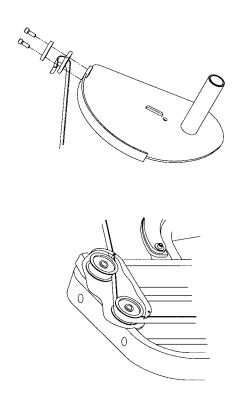




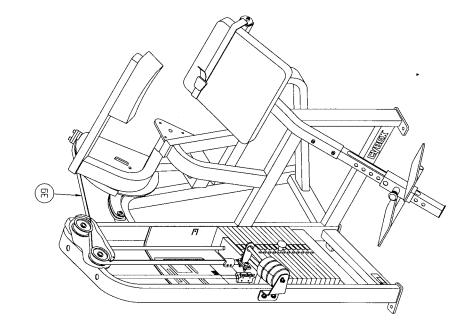
GUIDE ROD DETAIL

(2C

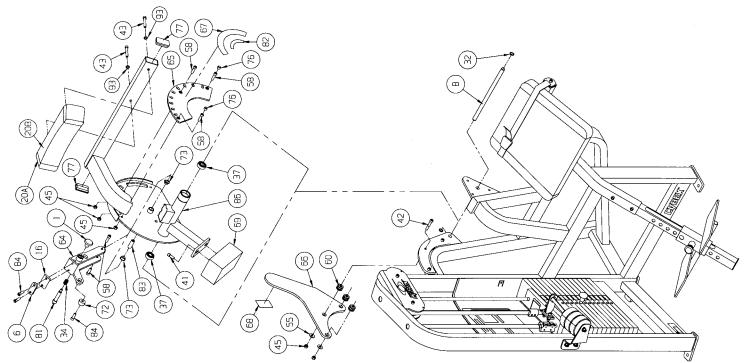
4713 - Back Extension Total RLD

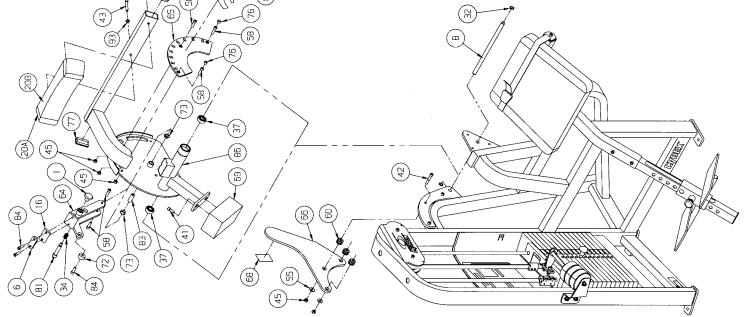


BELT ROUTING DETAIL



BELT ROUTING DETAIL



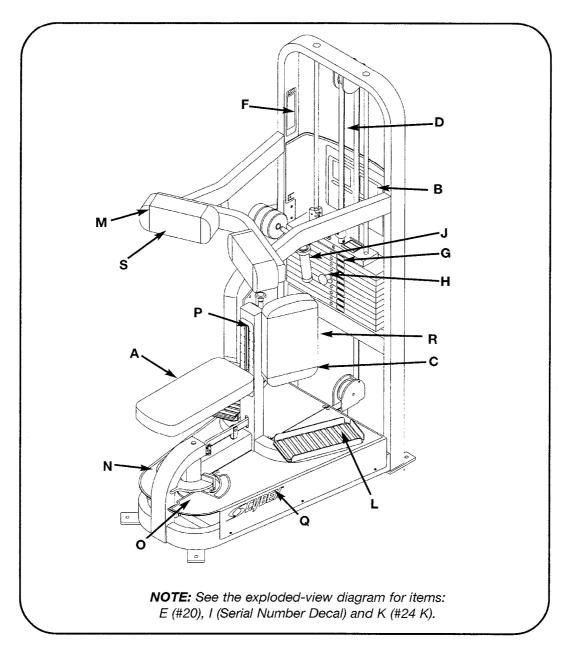


Start RLD

4712 - Back Extension

PRODUCT NO. 4715

PARTS LIST



DESCRIPTION

PART NO.

DESCRIPTION

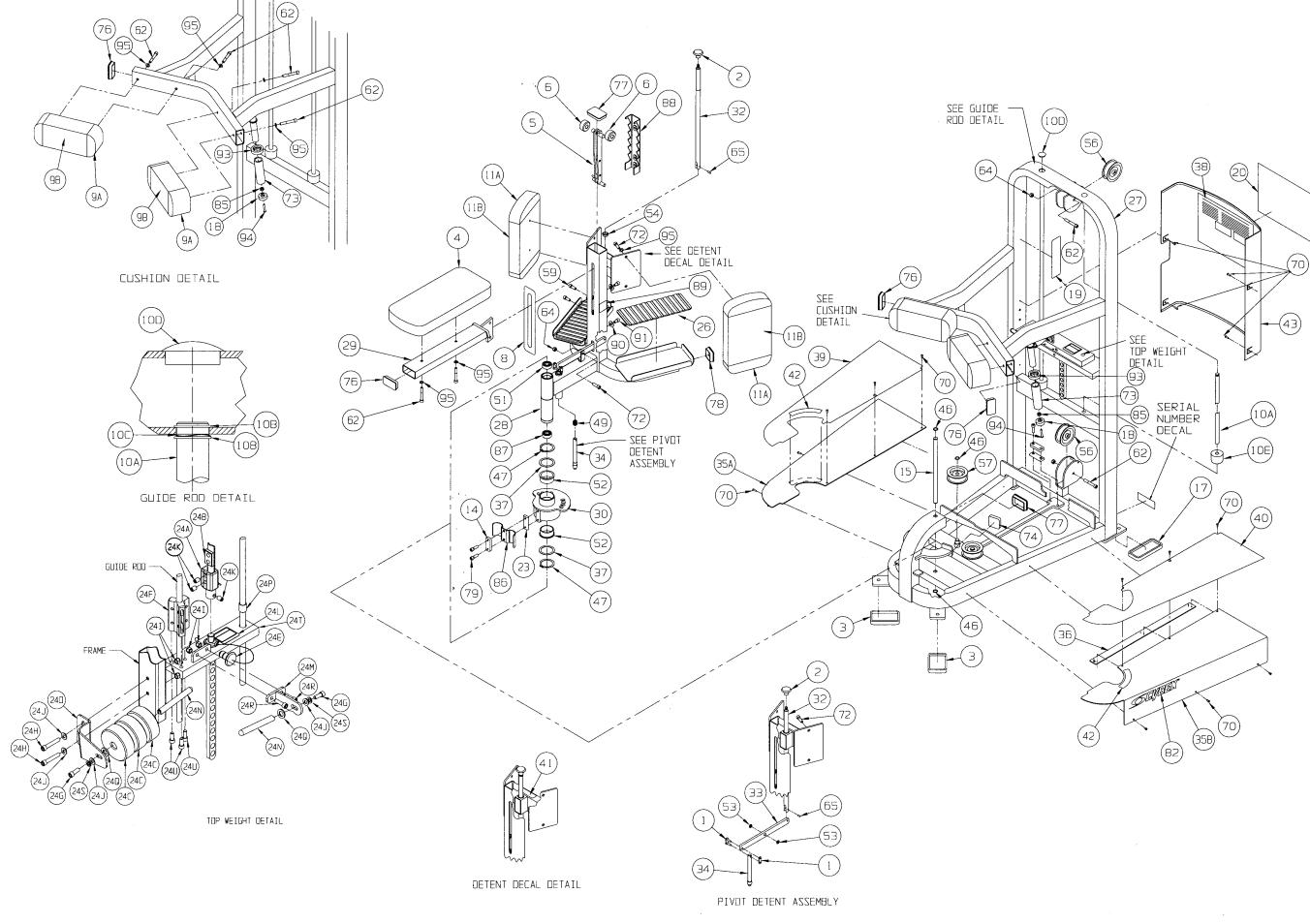
PART NO.

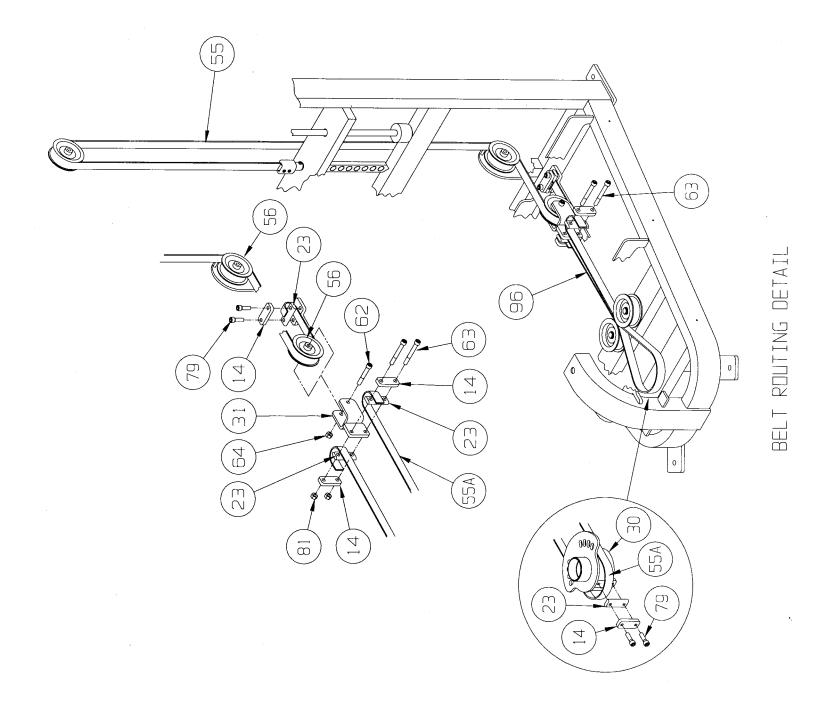
- D. Belt 115" Long GB000202
- E. Cybex Decal Blk/Pim 3900-391
- E. Cybex Decal Wht/Wht .. 3900-419
- F. Warning Decal 4605-381
- G. Weight Plate Decal 4605-388
- H. Weight Selector Pin..... BH030207
- I. Serial Number Decal
- **J.** Grip 4605-510

4715 - Torso Rotation

ITEM	QTY	PART NO.	DESCRIPTION	ITEM	QTY	PART NO.	DESCRIPTION
1	1	01989	Single Connecting Link	35 A	1	4715-333	Left Guard
2	1	11040-440	Cybex Knob	35 B	1	4715-334	Right Guard
3	2	PR070001	Foot Pad 2.50 x 4.25	36	1	4715-335	Bar
4	1	4800-024	Seat Cushion	37	2	4715-336	Washer
5	1	4520-212	Seat Roller	38	1	4715-338	Placard Decal
6	2	4520-331	Roller	39	1	4715-339	Non-Slip (Left Hand)
7			Removed	40	1	4715-340	Non-Slip (Right Hand)
8	1	5221-316	Adjustable Seat Decal	41	1	4715-341	Detent Decal
9 A	2	4800-023	Chest Cushion w/Wear Cover	42	1	4715-342	Pivot Location Decal
9 B	2	4800-095	Wear Cover	43	1	4505-432	Guard
10	1	4701-021	Weight Stack Guide Rod Set	44		4000 402	Not Used
10 A	2	4505-319	Weight Stack Guide Rod	45			Not Used
10 B	4	BR030214	Retaining Ring .625	45	4	BR030210	
							Retaining Ring 17 mm
10 C	2	HS407100	Spring Washer .65 x .79 x .062 T	47	2	BR030213	Retaining Ring 2.00 External
10 D	2	PN660200	Plastic Insert 1.00 Dia x 11 G	48		1715 010	Not Used
10 E	2	PR060005	Weight Bumper	49	1	4715-346	Com Spring .72 x 1.50 L
11 A	2	4800-018	Knee Cushion w/Wear Cover	50			Removed 8/98
11 B	2	4800-090	Wear Cover	51	1	FB030232	Radial Brg 17 mm ID (Ext Race)
12			Not Used	52	2	FB130206	Flange Brg 2.00 x 2.25 x 1.00 L
13			Removed	53	2	FB130209	Flange Brg .375 x .50 x .125 L
14	4	4605-300	Belt Clamp	54	1	FB130210	Nyliner Bearing
15	1	4715-352	Pivot Shaft 13.505	55	115"	GB000202	Weight Stack Belt .95" Wide
16			Not Used	56	3	GP000209	Pulley Assembly 3.50
17	2	PR070003	Foot Pad 2.00 x 5.25	57	2	GP000212	Pulley Assembly 3.50
18	2	4605-550	Plug	58			Removed
19	1	4605-381	Warning Decal	59	2	HC702817	SHCS .375-16 x 1.00
20			Removed 3/03	60	-	110702017	Removed
20	1	3900-391	Cybex Decal 11.37 Vert. Blk/Plm	61			Removed 8/98
20	1	3900-419	Cybex Decal 11.37 Vert. Wht/Wht	62	7	HC702830	SHCS .375-16 x 2.50
20	1	4605-388	Weight Plate Decal 10-290	63	2	HC702834	
	I	4000-300	* I		2 6		SHCS .375-16 x 3.00
22	4	4005 004	Not Used	64	-	HN704901	Nylon Locknut .375-16
23	4	4605-394	Belt Clamp	65	1	HP286715	Roll Pin .188 x .75
24	1	4701-030	Sliding Increment Weight Set	66			Removed
24 A	1	11040-216	Belt Clamp	67			Not Used
24 B	1	11040-301	Belt Clamp Insert	68			Not Used
24 C	3	4605-390	Increment Weight	69			Not Used
24 D			Removed 3/03	70	16	HT102214	Tap Screw #10-12 x .625 A (Phil)
24 E	1	BH030207	Weight Selector Pin	71			Removed 8/98
24 F	1	4701-001	Top Weight Guide	72	5	JC702820	SHCS .375-16 x 1.25
24 G	2	HC702817	SHCS .375-16 x 1.00	73	2	4605-510	Grip 4.75 Long
24 H	2	HC702828	SHCS .375-16 x 2.25	74	2	PU060204	Bumper
24	4	HN704901	Nylon Locknut .375-16	75			Not Used
24 J	4	HS347600	Washer, SAE .375	76	3	PP090202	Plastic Insert 1.5 x 3.0 x 11 G
24 K	3	HY740000	Set Screw	77	2	PP090206	Plastic Insert
24 L	1	4605-424	Caution Decal	78	2	PP090210	Plastic Insert 2.00 sq x 10-14 G
24 M	1	4700-240	Weight Mount	79	4	HC702822	SHCS .375-16 x 1.50
24 N	2	4700-318	Increment Weight Rod	80			Not Used
24 0	1	4700-319	Frame Mount Increment Weight	81	4	HN784000	Hex Nut .500-13
24 P	1	FB130208	Bearing Sleeve .68 x .81 1.00 L	82	•		Removed 3/03
24 Q	2	4700-321	Rubber Washer	82	1	3900-390	Cybex Decal 1.57 Horiz. Blk/Plm
24 Q 24 R	2	JC702820	SHCS .375-16 x 1.25	82	1	3900-415	Cybex Decal 1.57 Horiz. Wht/Wht
24 S 24 T	2	HS348300	Split Lockwasher .375	83	1	4701-302	VR2 Weight Stack Instr. (not shown)
	1	4700-239	Top Weight	84	1	51198	Strength Warranty Sheet (not shown)
24 U	3	HC702816	SHCS .375-16 x .875	85	2	HF449063	Tube Insert
25	~	1746 663	Removed	86	1	4715-358	Belt Guide
26	2	4710-321	Non-Slip	87	1	FB030240	Bearing Tapered Roller
27	1	4715-200	Frame	88	1	4520-213	Bracket
28	1	4715-201	Pivot	89	1	4520-362	Caution Decal
29	1	4715-202	Seat	90	2	HS347700	Washer USS .375
30	1	4715-203	Cam	91	2	JC700412	BHSCS .375-16 x .50
31	1	4715-204	Pulley Bracket	92	9	4000C101	Stack Weight 4 x 18 (not shown)
32	1	4715-324	Rod	93	2	11090-376	Handle Grip Ring
33	1	4715-325	Linkage Bar	94	2	JC620422	BHSCS .250-20 x 1.50
34	1	4715-345	Detent Pin	95	4	JS347400	Internal Tooth Lockwasher
35	1	4715-333S	Guard Set	96	1	4715-372	Belt .965 Wide Steel Cord x 54 ^^
35	1	4715-3338	Guard Set	96	1	4/15-372	Beit .965 Wide Steel Cord x 54

TORSO ROTATION - 4715







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