

# AIRDYNE - 4 ( 1990 - PRESENT )



SCHWINN  
AIR SYSTEMS

REF#	PART# GRAPHITE	PART# BRONZE	PART# WHITE	2002 DARK GRAY (CHARCOAL)	DESCRIPTION
1	92817	28529	28528	98630	FRAME
2	90815				CHANNEL PLUG -BLACK PLASTIC
3	92818	90562	90563	98632	FRONT / REAR STABILIZER
4	50513				LOCKWASHER
5	90595				LEVELER FOOT
6	95577				LEVELER LOCKNUT
7	90294				SUPPORT PAD
8	92823	95555	92823		COMPUTER
9	91370				BATTERY COVER FOR 92823 ONLY
10	90678				COMPUTER MOUNTING SCREWS
11	90688				CABLE WIRE TIE STRAP
12	90680				COMPUTER SUPPORT TUBE-RIGHT
13	90679				COMPUTER SUPPORT TUBE-LEFT
14	50367				PAN HEAD SCREW
15	50422				KEPS NUT (10 X 32)
16	92819	90878	90464	98634	RIGHT CHAINGUARD
17	92820	90877	90465	98635	LEFT CHAINGUARD
18	92821	90467	90466	98631	RIGHT LEVER ARM
19	92822	90468	90469	98633	LEFT LEVER ARM
20	90481				OILITE BUSHING (23/32" I.D.)
21	90482				LOCK WASHER
22	90483				LOCK NUT
23	90484				PIVOT BOLT 1/2 X 13 THREAD
24	90485				FOOT REST GRIP
25	90480				CLEVIS PIN
26	90810				COTTER PIN
27	90489				HANDLEBAR GRIPS W/ PLUGS
28	91350				WHEEL CAGE-RIGHT
29	91351				WHEEL CAGE-LEFT
30	50428				SPEED NUT
31	90842				TRANSPORT WHEEL BRACKET
32	90873				HOOK BOLT
33	50422				KEPS NUT
34	90843				TRANSPORT WHEEL
35	90871				TRANSPORT WHEEL AXLE
36	90872				PUSH-ON FASTENER
37	92050				SEAT POST
38	92051				SEAT POST PIN
39	90728				FAN LOCKING KNOB
40	90803				SPRING
41	90804				PEDALS (PAIR)
42	90821				WEDGE PIN ASSEMBLY
43	90840				RIGHT CRANK ARM
44	91064				NYLON WASHER (WHITE)
45	91055				ROLLER BEARING W/ SNAP RING
46	91056				SNAP RING ONLY
47	90822				CONNECTING ARM ASSEMBLY ( WITH BEARINGS )
48	90879				RIGHT ECCENTRIC W/ 46 TOOTH SPROCKET
49	90458				CHAIN WITH 1/2 LINK ( CRANK TO IDLER HUB )
50	90960				BOTTOM BRACKET W/ LOCK RING L.H. THREAD
51	90961				LOCK RING ONLY L.H. THREAD
52	90880				LEFT ECCENTRIC
53	90841				LEFT CRANK ARM
54	90123				OILITE BUSHING (3/8" I.D.) BAG OF TEN
55	90811				IDLER HUB COMPLETE
	90463				IDLER HUB AXLE SET ONLY
	50512				SERRATED AXLE WASHER
56	27229				SPROCKET LOCKRING
57	90540				15 TOOTH SPROCKET
58	90824				CIRCULAR CHAINGUARD
59	90830				CHAIN TENSIONER
60	90823				46 TOOTH SPROCKET
61	91088				SPROCKET MOUNTING BOLT
62	90457				CHAIN ( MID-HUB TO FAN WHEEL 92 LINKS )
63	90850				WHEEL ASSEMBLY COMPLETE
	90462				WHEEL AXLE SET ONLY
	50512				AXLE WASHER
64	90837				SPEED PICK-UP ( SENSOR )
65	90962				SPEED PICK-UP BRACKET
66	90887				SPOKE PROTECTOR RIGHT SIDE
67	90827				SPOKE PROTECTOR MOUNTING CLIP
68	90886				MAGNET
69	90888				SPOKE PROTECTOR LEFT SIDE
70	90540				15 TOOTH SPROCKET
71	27229				SPROCKET LOCK RING





REF#	PART#	DESCRIPTION
72	90833	CIRCULAR CHAINGUARD
73	95535	COMPUTER WIRE
74	93079	SADDLE
75	90496	HANDLEBAR END PLUGS
76	90459	CHAINGUARD HARDWARE SET
77	70801	STABILIZER HARDWARE SET
78	33157	AXLE NUTS
	92707	OWNERS MANUAL
	93028	SELL SHEET PACK OF 25

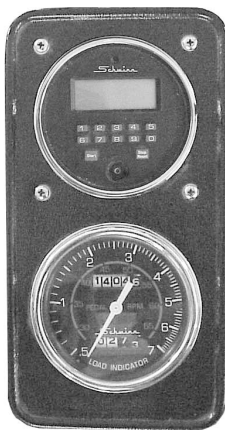


### Converting the Airdyne 3 mechanical load indicator (speedometer) to an electronic computer.

The old style mechanically driven load indicator can be converted to a computer by using the following parts.

**Note:** To maintain proper calibration, you will have to replace the idler hub cog the fan cog and both chains if you use the AD4 computer (part # 92823). This is **not** necessary if you use the AD5 (Airdyne Pro) computer (part # 92900). The AD5 computer can be programmed for all of the Airdyne models.

- 90887** Spoke Protector with magnet
- 90886** Magnet (not needed if ordering 90887)
- 90837** Speed Sensor
- 90962** Speed Sensor Bracket
- 90827** Clips to hold Spoke Protector (3 Needed)
- 90679** Computer Support Tube Left
- 90680** Computer Support Tube Right
- 90457** Chain Idler Hub To Fan (needed if using AD4 computer)
- 90458** Chain Crank To Idler Hub with 1/2 Link (needed if using AD4 computer)
- 90540** 15 Tooth Sprocket (needed if using AD4 computer)



AD3



AD4

**92823**



AD5 (PRO)

92900




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## ELECTRONIC TROUBLESHOOTING

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### 1. PROBLEM: The LCD shows no display

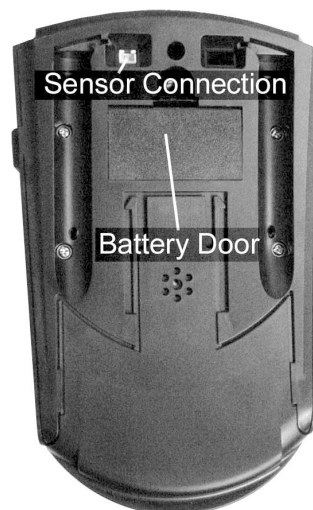
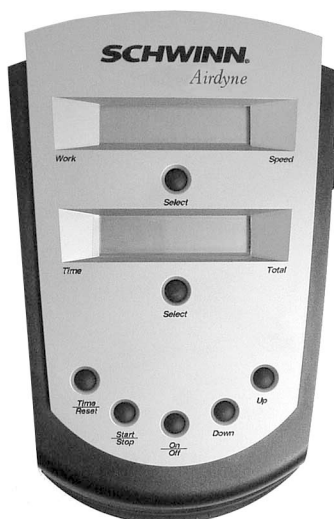
- SOLUTION:**
- Make sure the batteries are seated properly, installed correctly (+/-), and the correct voltage.
  - Check the battery contacts for oxidation or corrosion.
  - Check all connections.
  - Inspect the cable for breaks or bad connections.
  - If all of the above are ok, replace the computer.

**NOTE:** We have seen a number of PC boards damaged by use of mounting screws other than those supplied with the unit. This is not a manufacturer's defect and does not qualify for warranty replacement.

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### 2. PROBLEM: The computer will not start

- SOLUTION:**
- Replace the batteries.
  - Make sure the gap between the sensor and the fan wheel magnet is between 2 and 4mm.  
If the gap is correct, see step c.
  - If no signal is received by the computer, use a multimeter to check the continuity of the sensor and then the sensor wire. If both the sensor and wire are functioning, replace the computer

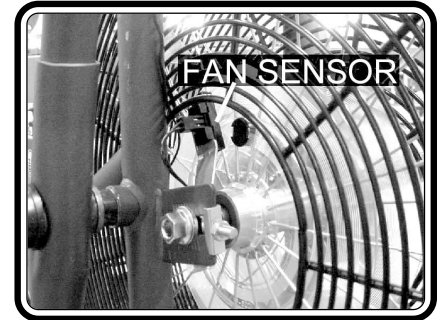




## ELECTRONIC TROUBLESHOOTING (continued)

### 3. PROBLEM: No RPM reading

- SOLUTION:**
- Check all connections.
  - Without removing the wire, remove the sensor from the mounting bracket and pass a hand held magnet over the surface of the sensor. If a signal is received by the computer, remount the sensor and make sure the gap between the flywheel magnet and the sensor is between 2 and 4mm.
  - If no signal is received by the computer, use a multimeter to check the continuity of the sensor and then the sensor wire. If both the sensor and wire are functioning, replace the computer



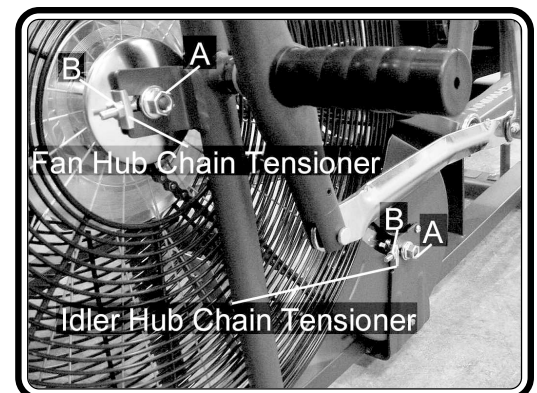
### 4. PROBLEM: Computer does not read properly

- SOLUTION:**
- Check all connections.
  - Make sure local sea level elevation is entered. Press and hold the upper select button for fifteen seconds then use up button to increase the elevation to the proper level. Press select to exit.

## MECHANICAL TROUBLESHOOTING

### 1. PROBLEM: If you have vibration

- SOLUTION:**
- Reduce belt tension by first loosening the axle nuts ( A ) and then loosening the tensioner nuts ( B ).
  - Check the hub for loose races or a rough bearing.





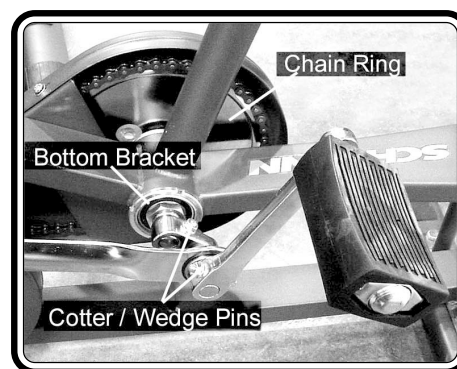
## MECHANICAL TROUBLESHOOTING (continued)

### 2. PROBLEM: If you have squeaking, tapping or rubbing noises

- SOLUTION:**
- See if the fan is rubbing the cage.
  - Check chain tension device.
  - Lube chain.
  - Lube pivot points.
  - Align the belt using the fan tensioner.
  - Check all bearings for binding or play.

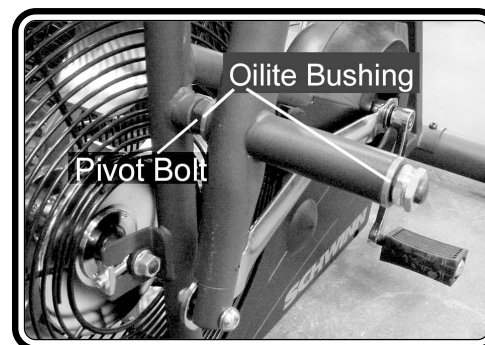
### 3. PROBLEM: Pedals feel loose

- SOLUTION:**
- Make sure the pedals are tightly screwed into the crank arms.
  - Make sure the crank bolts on both crank arms and eccentrics are tight.
  - Make sure the square tapered extensions are tightly bolted to the eccentrics.
  - Make sure the square openings in both the crank arms and eccentrics have not been rounded out. This problem is caused when the bike has been ridden with loose arms.
  - Make sure the the bottom bracket is tight in the frame and bearings operate smoothly.



### 4. PROBLEM: Lever arm feels loose

- SOLUTION:**
- Check Oilite bushing for excessive wear.
  - Tighten the pivot bolt to eliminate play.
  - Check threads on pivot bolt.
  - Look for cracks on frame at pivot area.





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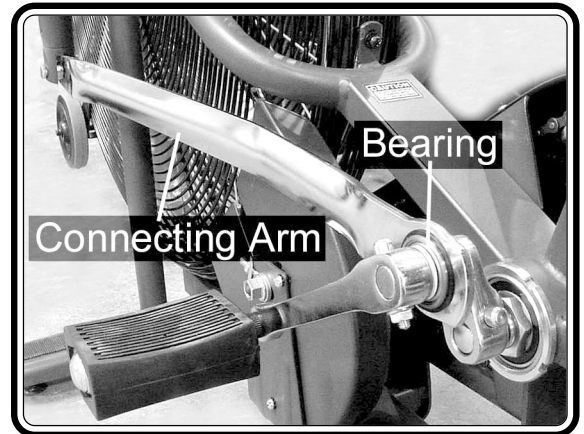
**MECHANICAL TROUBLESHOOTING (continued)**

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**5. PROBLEM:** Connecting arm feels sloppy or loose

- SOLUTION:**
- a. Check the bearing for excessive play.
  - b. Add another spacer to connection at the eccentric.



**NOTES**

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**FOR MORE DETAILED INFORMATION CONTACT  
TECHNICAL SUPPORT AT 1-800-864-1270**