

5900 Spinner® Bike - Clutch Maintenance

This procedure is for maintaining and replacing the clutch assy on the 5900 JG Spinner. The main reason you would carry out this procedure is because of a slipping clutch, this can be caused by worn clutch plates, damaged clutch plates (caused by over oiling) or worn bearing's on the clutch assy.

Tools Required:

- Large flat screwdriver
- Large adjustable Spanner
- BMX-4 Smart release tool (please see picture below)
- Rubber hammer
- 3mm Allen wrench
- 10mm open end wrench
- 16mm or 5/8" socket
- Socket wrench



Items Required:

- Newspaper or old towel to protect the floor

Optional Parts:

- **800-3744** - Clutch Axle JGS
- **800-3743** - Chain ring w/Bearing JGS
- **800-4042** - Clutch Plate JGS



Time Required:

- Clutch replacement / Maintenance = 30 minutes

Ride quality test

1. With the bike is fully assembled test the bike by pedaling with light tension then with medium to hard tension.
2. If slipping continues double check procedure has been carried out correctly. If problem still continues please contact the Star Trac product support department.

Remove Flywheel

For ease of access you should remove the flywheel from the frame assy.

CAUTION: Observe all safety precautions when working near the chain and sprockets.

1. Remove shroud assy by removing the 4 Allen key screws using a 3mm Allen wrench.
2. Remove flywheel axle nut from both sides of the flywheel using a 16mm or 5/8" socket.
3. Loosen and remove chain-tensioning bolts using a 10mm open-end wrench.
4. Remove rear chain guard bolts and move out of the way so you have full access to flywheel assy. Please note you do not need to remove crank arms you can just turn the rear chain guard anti clockwise so it is away from the flywheel assy.
5. Remove flywheel from bike and disconnect chain.



Disassemble Clutch assy

Please look at the spring tension on the flywheel assy before starting procedure. You will use this as a guide when reassembling the clutch assy.

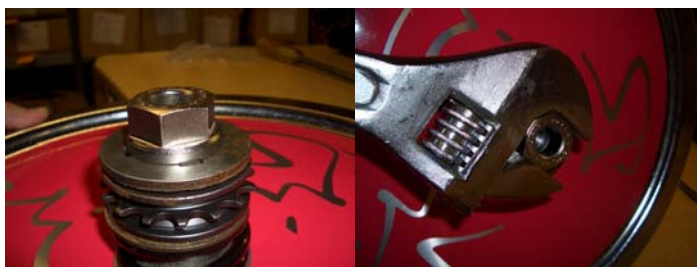
(Flywheel and clutch assy as sent from Factory)



1. Using a flat Screwdriver and a rubber hammer to gently tap the locking nut Anti-clockwise until this becomes loose enough to unscrew by hand.



2. Insert the BMX-4 tool into the 4 holes on the **800-3744** - Clutch Axle JGS and attach the adjustable spanner to the BMX-4 tool.



3. Untighten the Clutch assy using the BMX-4 tool and the adjustable spanner. Turn Anti clockwise to untighten, so the tool does not come out while unscrewing I recommend placing a screw threw the flywheel assy to keep the tool in place.

4. Take **800-3744** - Clutch Axle JGS of and examin condition, this axle plate should have a carbon pad on it, if this has worn or if this has oil on it you will need to replace it. Any oil on the clutch plates will cause slipping. If there is oil on the plate we recommend you replace this part instead of cleaning it.



Carbon pad needs to be clean and dry, if worn away replace part

5. Take **800-3743** - Chain ring w/Bearing JGS of flywheel assy and examin bearings, if there is sign of ware replace this part. If there is any excess oil on this part remove it before fitting this on to the clutch plates.



6. Remove the **800-4042** - Clutch Plate JGS and examin (same as step 4)



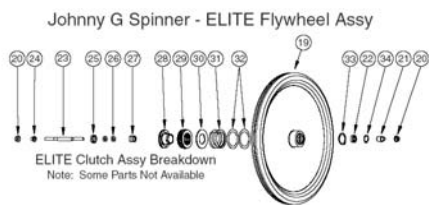
Carbon pad needs to be clean and dry, if worn away replace part

Assemble Clutch Assy

To assemble the clutch assy please follow the disassemble clutch assy procedure in reverse.

Once you have this together and you are tightening the **800-3744** - Clutch Axle JGS down, screw this down to the same tension as at start of the procedure.
(Compress spring completely)

(Flywheel and clutch assy after part replacement procedure)



Reconnect flywheel Assy

Follow remove flywheel Procedure in reverse. Then follow the chain maintenance Procedure to optimize bike performance.

CAUTION: Observe all safety precautions when working near the chain and sprockets.

Do not apply oil to clutch assy or over oil chain assy, if oil is applied to clutch plates this will dramatically reduce the performance of the bike.

