



# Servicing of the FourStar Golf Cruiser

## Chain Maintenance

Fitted to your FourStar Golf Cruiser is a rear drive chain that requires periodic maintenance (first time after 1-2 weeks of use, then every 3-4 months or as required) to adjust the tension in the chain. Maintaining correct tension in the chain will ensure that the maximum life span for the chain is achieved and it will also prevent the chain from coming loose from the sprockets (this will cause the vehicle to become inoperable until repaired). This step by step guide will show you how to correctly adjust the chain tension.

Time required: approximately between 20-30 minutes.

Tools and equipment:

- Open ended/ring spanners: 8mm, 10mm, 13mm, 14mm.
- Sockets: 8mm, 10mm, 13mm, 14mm.
- Philips head screwdriver
- Ruler and a straight edge
- Chain lubricant (preferred) or WD40 (or equivalent)



Fig. 1: Tools



Fig. 2: Lubricants

**Steps to access the chain for maintenance:**

*Make sure the vehicle is switched off and remove the key before performing any maintenance.*

**1: Remove the foot pads**

-Using a Philips screwdriver remove the 3 screws from each foot pad (left and right)

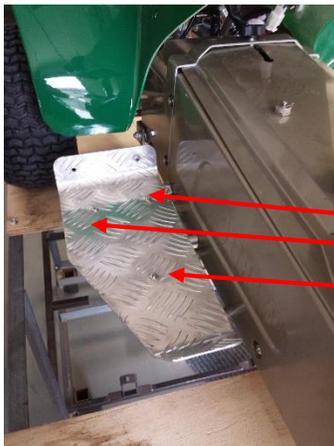


Fig. 3: Left Foot Pad



Fig. 4: Right Foot Pad

**2: Remove the battery box cover.**

**2(a)** Undo the rear shock absorber by undoing the large green screw, remove the bolt. Tilt the shock absorber up under the seat. There is a magnet there to hold it in position.



Fig. 5: Rear Shock Absorber



Fig. 6: Tilted Up Shock

Unscrew & Remove

Magnet

**2(b)** Tilt the seat and body forward and hold in position with the strut from under the seat.

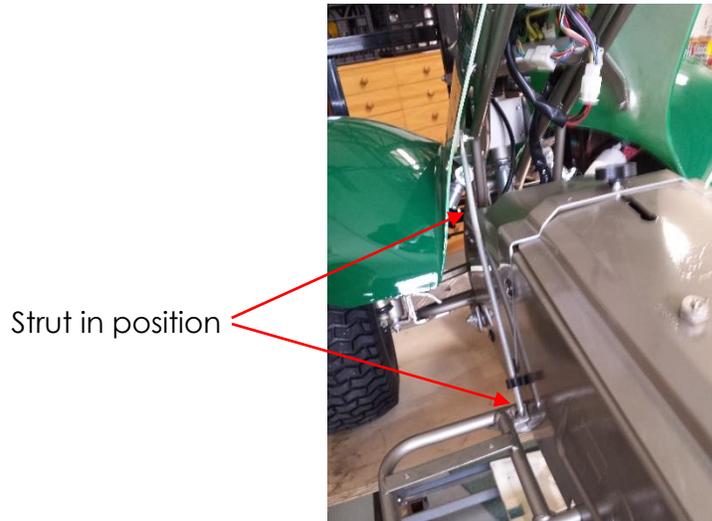


Fig. 7: Strut Support

**2(c)** Remove the 3 large black screw bolts from the battery box and lift off the lid, lift up at the rear then slide backwards. Be careful not to pull the cover away before disconnecting the charging wires from the cover. Disconnect the white plastic clip and then place the cover aside.

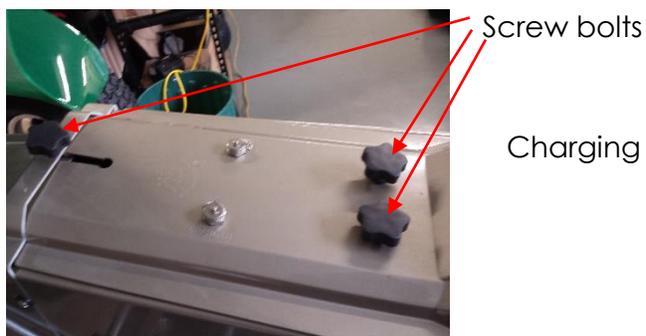


Fig. 8: Battery box cover

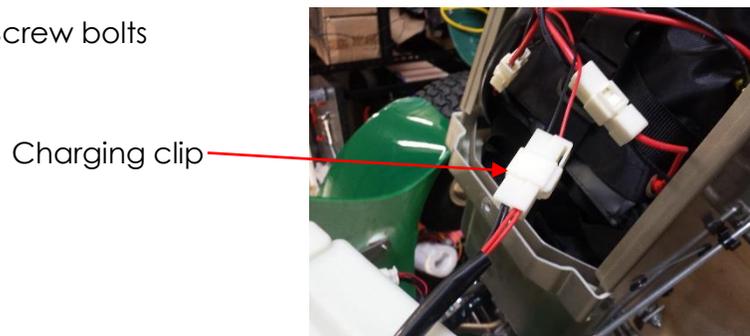


Fig. 9: Charging clip

### **3: Remove the side covers:**

-Using a Philips screwdriver to undo the 5 screws on each side to remove the covers.

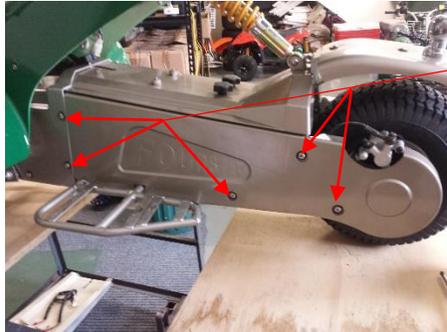


Fig. 10: Left Side Cover

Screws

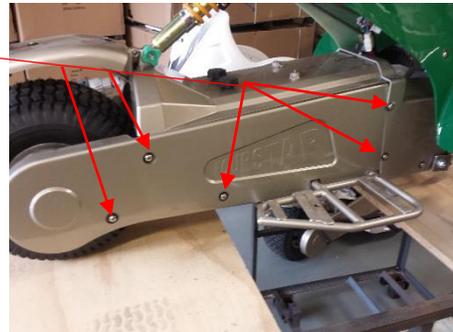


Fig. 11: Right Side Cover

### **4: Adjust the chain.**

With the covers removed, the chain will be visible and the rear bolts will be able to be loosened for adjustment.

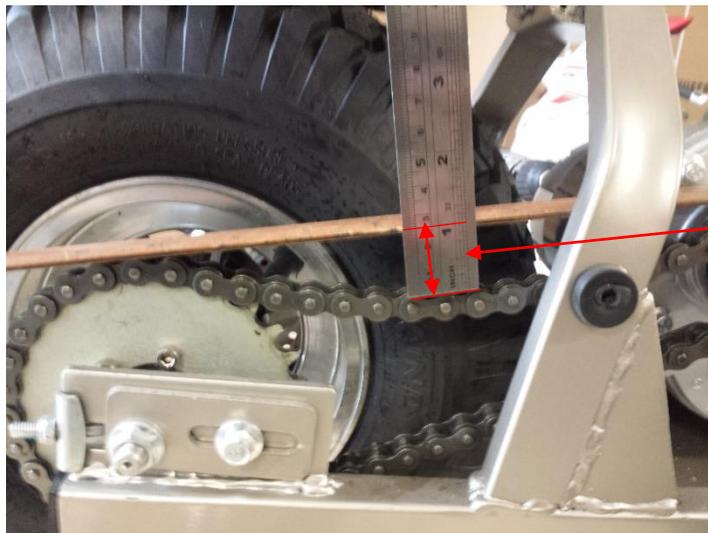


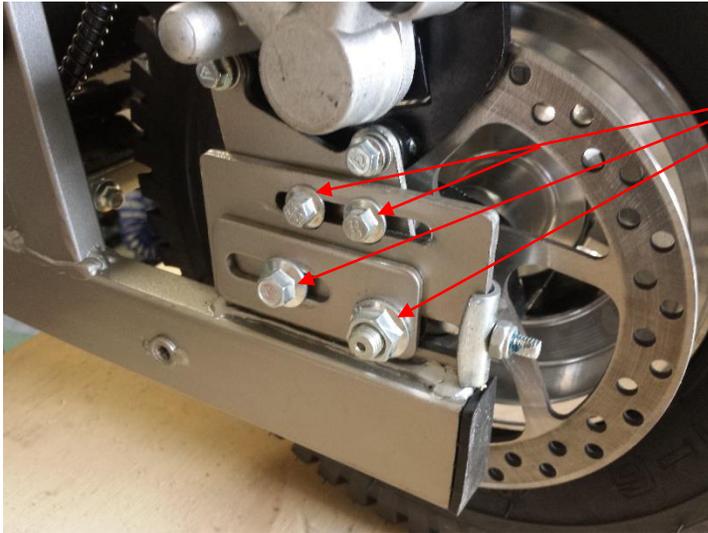
Fig. 12: Loose chain

A loose or poorly tensioned chain will have lots of slack or “play” in it. Fig. 12 shows a chain with about 25mm of play in it, which is about 20mm too much.

To measure the amount of play in the chain, place a straight edge between the two chain sprockets (on the motor and the rear wheel). Press down on the middle of the chain and then measure with a ruler the distance between the chain and the straight edge at the lowest point of the chain. This measurement is the amount of play in the chain.

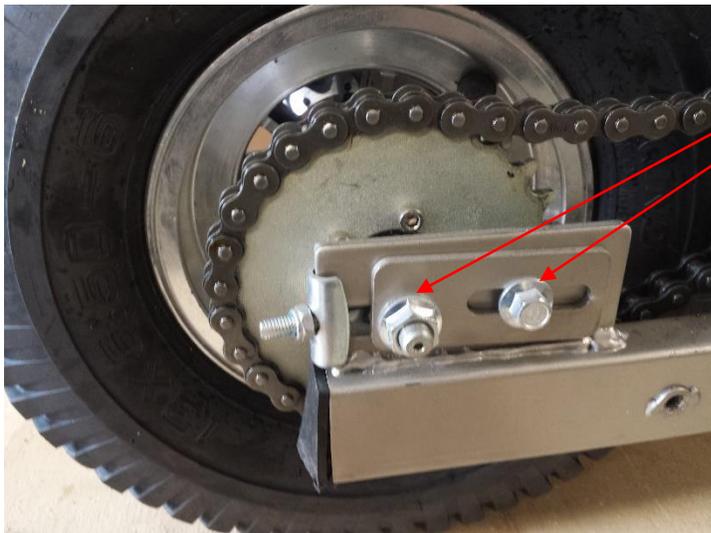
**4(a)** Un-tension all of the rear bolts. 4 on the left side and 2 on the right. Use the appropriate size spanners and sockets for the nuts and bolts.

N.B. the bolts need to be only loosened off but not completely undone. Failing to un-tension any of the bolts will make adjustment difficult and can damage the adjusting bolts.



Loosen these 4 bolts (nuts are on the inside of the bolts).

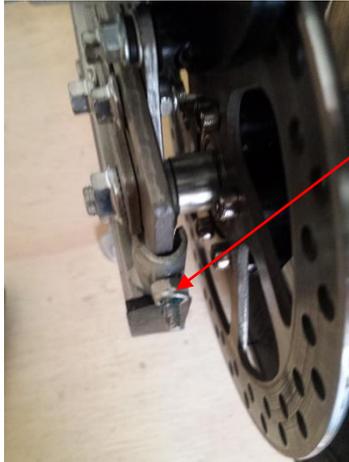
Fig. 13: Left side bolts



Loosen these 2 bolts

Fig. 14: Right side bolts

Once all of the bolts have been un-tensioned, the adjusting bolts can now be turned to increase the tension in the chain.



Adjusting  
Bolts

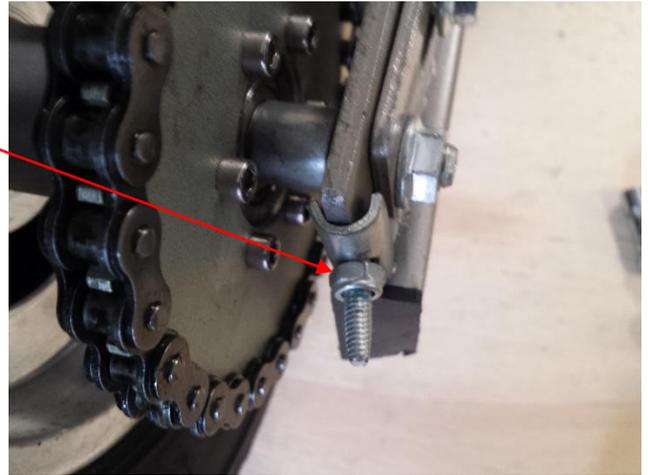


Fig. 15: Left Adjusting Bolt

Fig. 16: Right Adjusting Bolt

**4(b)** Turn the nuts on the adjusting bolts clockwise to increase the tension in the chain. This must be done in sequence between the left and right adjusting bolts, i.e. 1 turn on the left bolt followed by 1 turn on the right bolt (this is very important to maintain the axle alignment on the vehicle, failure to do so will cause extra wear and tear on the chain and rear tyre). Measure the play in the chain (Fig. 12) after each turn to check that the correct tension is applied.

Correct amount of play in the chain is between 5 to 10mm.

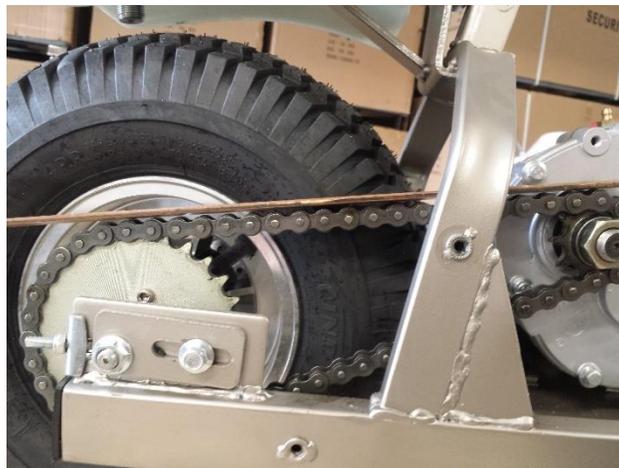


Fig. 17: Correct chain adjustment.

N.B. Avoid over tightening the chain, this will place extra stress on the gearbox and rear wheel bearings and can result in significant damage.

**4(c)** Re-tension all the bolts that have been loosened in step 4(c)

## **5: Lubrication.**

Whilst the chain is still exposed whilst the covers off, apply some lubricant on the chain using the appropriate lubricant (Fig. 2)

## **6: Re-assembly.**

Re-assemble the vehicle by completing steps 1, 2 and 3 in reverse order.

You will now have completed the correct procedure for tensioning the chain!

For any further information, spare parts or servicing please contact:

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