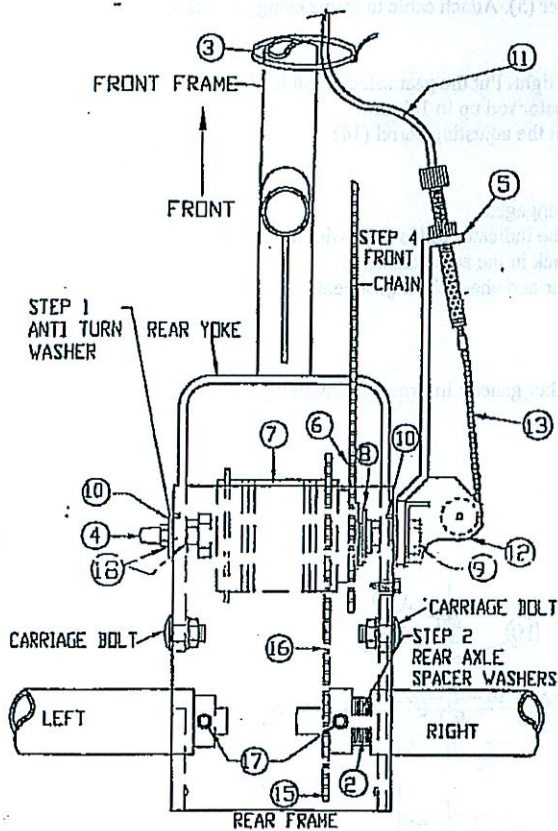


INSTALLATION GUIDE

5-SPEED FREEWHEEL KIT #20211



Check to make sure that you have all parts.

Parts listing:

1. 19713 ✓	Grip shifter plastic washer	1
2. 12240 ✓	Spacer washer	5
3. 12269 ✓	Cable ties	4
4. 18985 ✓	Dome nut	2
5. 20141 ✓	Fulcrum lever	1
6. 18909 ✓	Sprocket 21t	1
7. 20205 ✓	5-spd hub w/ 22t sprocket	1
8. ✓	Sprocket clip	1
9. 18049 ✓	Axle nut right	1
10. 18986 ✓	Anti-turn washer	2
11. 20206 ✓	Grip shifter 5sp w/ cable&adj	1
12. 20140 ✓	Gear selector guide	1
13. 20208 ✓	5sp Indicator rod and chain	1
14. ✓	Adjusting barrel	
15. 11952 ✓	Sprocket 22t solid w/ adapter	1
16. 11684 ✓	Chain/CL 37 pitch	1
17. 11071 ✓	Set screw 5/16 - 18 x 1/2	2
18. 12301 ✓	Washer 3/8 flat SAE	0
19. 19710 ✓	Grip black 5sp HG5718	1
20. 20209 ✓	5 speed hub instruction sheet	1
21. 20210 ✓	Instruction guide 5sp Fwl kit	1

Kit Installation Preparation

Remove chainguard. Remove the four carriage bolts on the transmission box. Remove chains and slide frame assembly apart. Shorten front chain on Desoto to 93 pitch or shorten front chain on Regal to 107 pitch.

Step 1 Front frame

Install the 5-speed freewheel hub (7) into the open-ended L slot which is in the flat bar on the end of the front frame. Refer to drawing for the location of hub (7) and correct hub position.

Step 2

Slide rear frame over main frame, letting the 5-sp axle slip into the open slots in the front of the transmission box. Loosely install two carriage bolts into the transmission box. Place the anti-turn washers (10) onto both ends of the 5-sp axle on the outside of the transmission box with the tabs positioned into slots in the frame. Add the Fulcrum lever (5) and install axle nut (9) on the right side of the axle. Install axle nut (4) to the left side of axle as shown on the installation drawing. Do not tighten until the chains are adjusted.

Step 3 Rear frame

Loosen set collar on the right side rear axle and remove original freewheel assembly and square key. Freewheel assembly and set collar will no longer be required, but *save square key*. Place the five spacer washers (2) on the right axle next to the bearing. Reinstall the square key and install the 22T solid sprocket (15) onto the axle with set screws on the same side as the spacer washers. (see drawing) Align solid sprocket (15) with the 22T sprocket (inner sprocket) located on the 5-sp hub (7). Remove axle spacers as required. Tighten both set screws on the solid sprocket (15). Verify that there is no sideways movement of the axle inside the bearings. If any is found, loosen set screws and reposition solid sprocket (15) until movement is eliminated.

Step 4

Install front chain around crank sprocket and outside sprocket on 5-sp hub (7). Install rear chain on inner hub sprocket and solid sprocket on rear axle. Slide frame assembly apart until chains are tight. Tighten the carriage bolts first and then the axle nuts. NOTE: When tightening nuts make sure that frame and hub is straight and not out of alignment. Re-install the chainguard, spreading rear opening for chain clearance.

Step 5

Remove right handlebar grip. Install grip shifter (11), grip shifter plastic washer (1), and hand grip (19) onto the handlebar. Run cable from grip shifter (11) along main frame tube to the Fulcrum lever (5). Attach cable to frame using cable ties (3).

Step 6

Fit the indicator rod (13) into the hub right side axle and screw it in finger tight. Put the gear selector guide (12) on end of axle. Align indicator chain to run over the gear selector by unscrewing the indicator rod up to 1/4 turn. Screw the threaded end of the indicator chain (13) into the threaded hole in the adjusting barrel (14).

Gear adjustment

Select 2nd gear on the shifter and turn the pedals forward to ensure gear is engaged. Turn the adjusting barrel (14) on the indicator chain (13) until the end of the indicator rod is level with the end of the axle. Tighten the cable housing adjusting locknut and the indicator locknut to lock in the adjustments. Select 5th gear on the shifter, rotate the pedal crank, change back to 2nd gear and check the adjustment. Readjust as describe above when gear changing is not correct. Snap on the indicator cover.

See hub instructions (20) for information on lubrication, gear ratios and other general information involving hub.

