

DHS Racing
4865 Aberdeen St
San Diego, CA 92117

DHS-11252 Shift Linkage Upgrade Installation Instructions

1. Place bike on Center Stand
2. Remove Center Cowl (pc14), Lower Cowl (pc12) from behind the Front wheel(Figure1).
3. Remove Left Side Protector Assembly (pc33) (Figure 2)

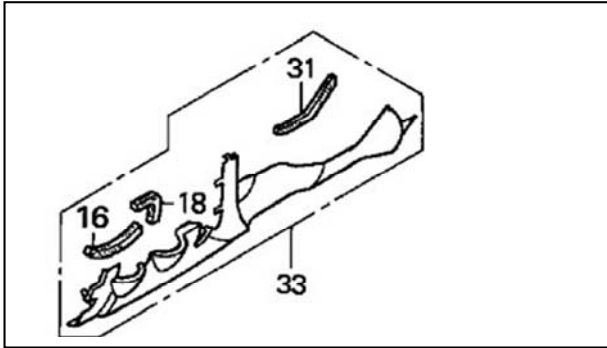


Figure 2

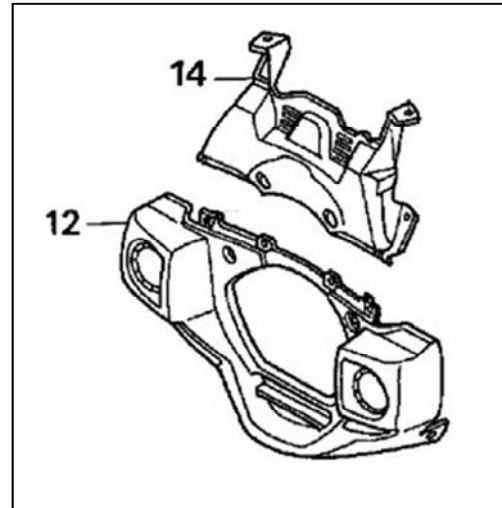


Figure 1

4. (Figure 3) Mark the input shaft with a sharpe at the split line so you can relocate it correctly during the installation and measure the height of the shifter arm from the ground. Remove pinch bolt from shifter (lower left) and remove from shifter rod. Remove shifter arm with 5mm allen wrench (upper right). The clearance between the Exhaust and engine is a little tight, but the entire linkage will slip out to the right.



Figure 3



Figure 4

5. The rivets holding the joint to the shifter arms have a slightly larger diameter on one end and if you don't do this step you will crack the shifter arms rendering the shifter unusable (Figure 4). Grind or file the rounded rivet connecting the joint with the shift

link (lower left of the above picture) until flat (this will make drilling out the rivet easier). Start with a center punch to carefully mark the center of the rivet and use a 1/8" drill bit to drill into the rivet about 1/4". Next, use a 1/4" drill bit to drill into the same hole you just made (Figure 5).

Secure the shift lever in a vise and using a punch that fits into the hole you just drilled, punch the rivet until the joint is removed. Repeat this step on the other rivet.

6. This next step is optional. Doing this step will shorten the shifter throw. If you do not perform this step you will have a tighter shifter but the travel will remain the same as stock. You will however gain the option to raise or lower your shifter pedal in increments of 3/16". Measure from the edge of the hole created by the removal of the rivet 3/8" and center punch the center of the arm (if the punch is accurately centered you should have approx. .100" on each side of the new hole). Drill a 1/4" hole in the shifter arm (Figure 6).
7. Assemble the shifter linkage as in the image (Figure 7).



Figure 5



Figure 7



Figure 6

8. Re install on the bike in reverse order of step #4, but do not install pinch bolt yet (you may need to make an adjustment)
9. Re-measure the height of the shifter arm. If the shifter arm is where you want it, you're done. Goto Step #11. If an adjustment is needed you will need to remove the shifter from the bike to gain access to the new joints.
10. Each revolution of the joint equates to 3/16" of travel of the pedal. If you need to raise the shifter pedal lengthen the joint. If you need to lower the shifter pedal shorten the joint. Return to step #8
11. Tighten the pinch bolt and 5mm Allen on the shifter arm. Reinstall the three cowl pieces removed in step #'s 2 & 3
12. You're done. Enjoy your new ride.