



ARCTIC CAT 2007-2008 BILLET REVERSE SHIFTER KIT



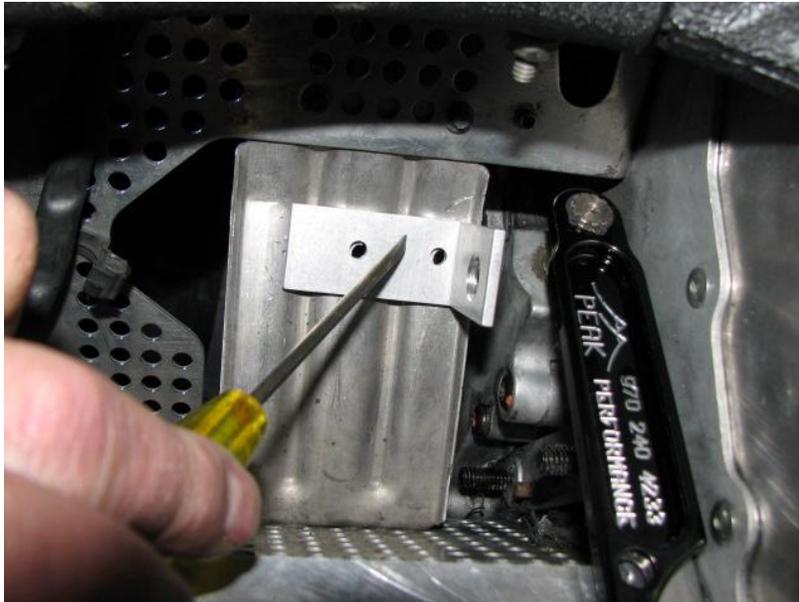
STEP 1 Remove the secondary clutch and the plastic cover over the left foot well. Disconnect the two plugs leading to the shifter motor and reverse indicator switch. Remove the two nuts holding the shifter motor bracket to the tunnel. These can be reached with a long extension and a swivel socket. Remove the Torx screw between the two nuts just removed.

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Pull the shifter motor out the hole in the side of the frame and twist clockwise so the three screws in the top of the shift gear housing can be removed. Once the screws are out the gear housing and the motor assembly can be pulled out of the frame separately. Remove the reverse switch from the bracket. Remove the snap ring on the reverse shaft and remove the gear. Replace the two nuts on the studs on the tunnel where the shifter motor bracket was.

STEP 2 Slide the Billet Shift Arm onto the reverse shaft. If the gearbox is in forward gear the shifter will be close to and parallel with the tunnel. Install the snap ring. An extra snap ring is included in the kit in case the original takes off.



STEP 3 Install the new reverse switch bracket. Hold the bracket up to the belt shield as in the picture. Line the bracket up generally with the horizontal bend and the vertical edge of the flat area.



The switch hole must line up with the shift lever as in the pictures so the switch is actuated by the lever when shifted into reverse. Fasten the bracket with the rivets from the kit. Screw the original reverse switch into the new switch bracket along with the jam nut and adjust so the switch button is just barely off the shifter arm. Use blue loc-tite on the jam nut and tighten.



STEP 4 Modify the plastic panel. The slot will be on top of the bottom flange of the plastic panel so the shifter rests on plastic instead of bare aluminum. Start the 1/4" wide slot 3/4" from the tunnel face and end it 2 1/2" from the tunnel face. A 1/4" drilled hole at each end of the slot will make clean slot ends. Use a die grinder or utility knife to finish the slot. The picture shows a slot all the way to the tunnel but a slot stopping 3/4" from the tunnel is better. Don't forget to leave the lower flange intact. Connect the reverse switch wiring connector and check wire routing for interference. Tape the connector for the reverse motor and tuck it up into the frame out of the way. Lift the shifter up on the spline and install the panel.



STEP 5 The reverse button on the handlebar must be disabled to prevent a “CCU” error on the gage when the reverse button is pressed and the CCU does not detect motor movement. Find the white/violet wire on the CCU plug down in the nose of the sled. This is the wire from the reverse button. Cut and tape or shrink wrap both ends.



STEP 6 Test. The shifter will move with a very positive clunk in both directions. The lever should not touch the plastic panel in either the forward shift position or reverse shift position. If it hits at either end of travel trim the panel until it does not. Start the motor and move the shifter in both directions. The “R” will light up on the dash when in reverse and will go out when in forward just like before. The buzzer will also sound when the shifter is in reverse.

!!!DO NOT REMOVE THE REVERSE ALARM BUZZER!!!

IT IS HIGHLY RECOMMENDED THAT THE BACKUP ALARM BUZZER NOT BE DIS-CONNECTED. IF THE SLED IS TURNED OFF WHILE IN REVERSE IT WILL STILL BE IN REVERSE WHEN STARTED.

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