



## Installation Instructions Mastershift Installation Kit

Fits: Buick, Chevrolet & Oldsmobile w/Saginaw Transmission  
See Application Guide for Specific Vehicles  
Catalog# 3670010

**WORK SAFELY:** Perform this on a good clean level surface for maximum safety and with the engine turned "off". Apply parking brake and place blocks or wedges in front of and behind both rear wheels to prevent movement in either direction.

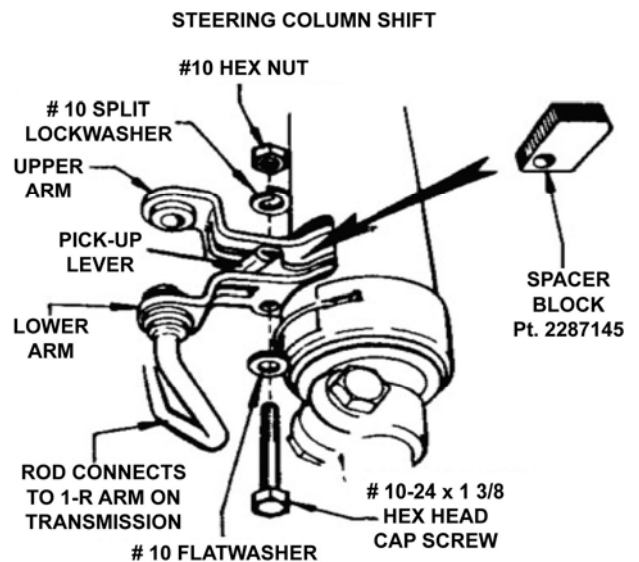
**CAUTION:** To avoid any possibility of bodily injury or damage to vehicle, do not attempt disconnect or installation until you are confident that the vehicle is safely secured and will not move.

**ATTENTION:** Due to variations in the auto manufacturing tolerances, the transmission rods supplied with this kit may require slight bending to clear any obstructions, etc. Protect the threads while bending. **BEND RODS COLD! – DO NOT APPLY HEAT!**

1. The backdrive linkage that activates the locking mechanism in the steering column must be altered to function with this shifter. This is accomplished by clamping the two shifting levers in the steering column together with a spacer block between the column pick-up lever and the 2<sup>nd</sup>/3<sup>rd</sup> linkage lever. See Figure 1. These levers are at the base of the column (ahead of the firewall).

Disconnect the linkage rod that is attached to the upper lever (closest to firewall). The hand control lever on the steering column must be pulled back (at neutral) by an assistant to allow the spacer to be installed. Install the spacer block between the pick-up lever, and the upper arm. Fasten the arms, pick-up lever, and the spacer block together as shown. Be sure that the bolt passes through the hole in the spacer block. Tighten this assembly securely.

Figure 1



2. Remove the speedometer cable from transmission and pass it through the opening in the mounting bracket. Replace the speedometer cable and fasten in tailshaft.

3. Remove three of the four bolts that fasten the transmission case and the tailshaft as shown in the exploded assembly drawing. Use these stock bolts to fasten the mounting bracket to the flange of the tailshaft. Do not tighten bolts until the "U" clamp is attached. Tighten all bolts and nuts.

4. Determine location for hole in floor by driving a center-punch or awl through floor 1" away from center-line of top in bracket. Cut a sufficient of material from floor pan to allow 1/4" clearance around shifter when installed. This is to provide clearance due to engine torque. Check the edges of this hole after the shifter installation has been completed to be sure that the edges of hole clear shifter by 1/4" minimum.

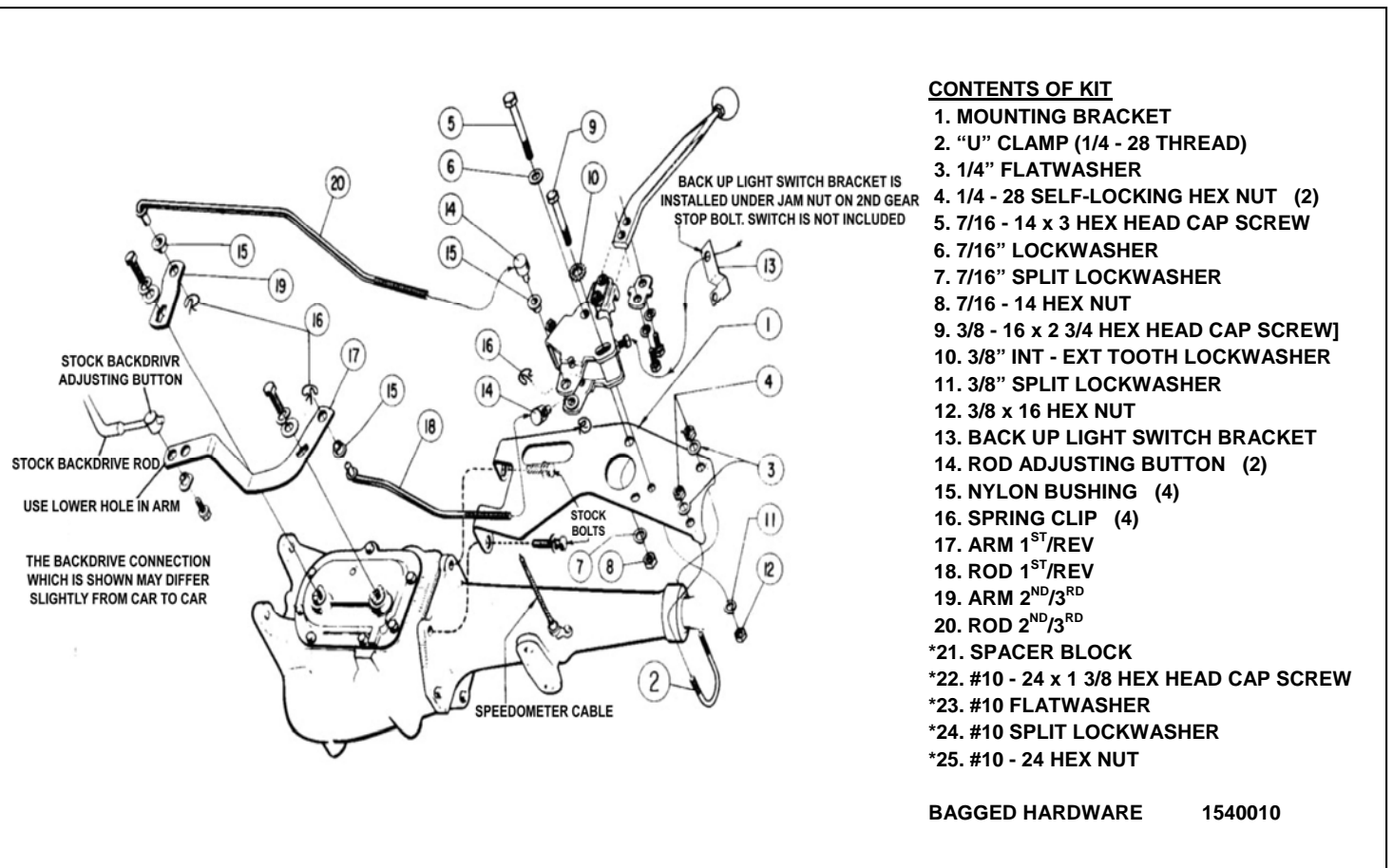
5. Remove the rear stop bolt from the shifter and install the back-up light switch bracket under this bolt and jam nut. Insert the 7/16" mounting bolt through the pivot sleeve of the shifter. Install the shifter on the mounting bracket. Tighten both mounting bolts.

6. Assemble arms with their respective rods using bushings and spring clips. Spin the rod-adjusting buttons onto the rods.

7. Install the arms onto the control shafts of the transmission and fasten with the stock hardware. Refer to the separate instruction sheet, MASTER ALIGNMENT INSTRUCTIONS, for final installation and adjustment.

## IMPORTANT

After shifter has been adjusted properly, connect the stock backdrive rod adjusting button to the lower hole in the 1<sup>st</sup>/REV. arm. Adjust this linkage so that the backdrive locking mechanism in the steering column functions properly.



### CONTENTS OF KIT

1. MOUNTING BRACKET
2. "U" CLAMP (1/4 - 28 THREAD)
3. 1/4" FLATWASHER
4. 1/4 - 28 SELF-LOCKING HEX NUT (2)
5. 7/16 - 14 x 3 HEX HEAD CAP SCREW
6. 7/16" LOCKWASHER
7. 7/16" SPLIT LOCKWASHER
8. 7/16 - 14 HEX NUT
9. 3/8 - 16 x 2 3/4 HEX HEAD CAP SCREW]
10. 3/8" INT - EXT TOOTH LOCKWASHER
11. 3/8" SPLIT LOCKWASHER
12. 3/8 x 16 HEX NUT
13. BACK UP LIGHT SWITCH BRACKET
14. ROD ADJUSTING BUTTON (2)
15. NYLON BUSHING (4)
16. SPRING CLIP (4)
17. ARM 1<sup>ST</sup>/REV
18. ROD 1<sup>ST</sup>/REV
19. ARM 2<sup>ND</sup>/3<sup>RD</sup>
20. ROD 2<sup>ND</sup>/3<sup>RD</sup>
- \*21. SPACER BLOCK
- \*22. #10 - 24 x 1 3/8 HEX HEAD CAP SCREW
- \*23. #10 FLATWASHER
- \*24. #10 SPLIT LOCKWASHER
- \*25. #10 - 24 HEX NUT

BAGGED HARDWARE

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