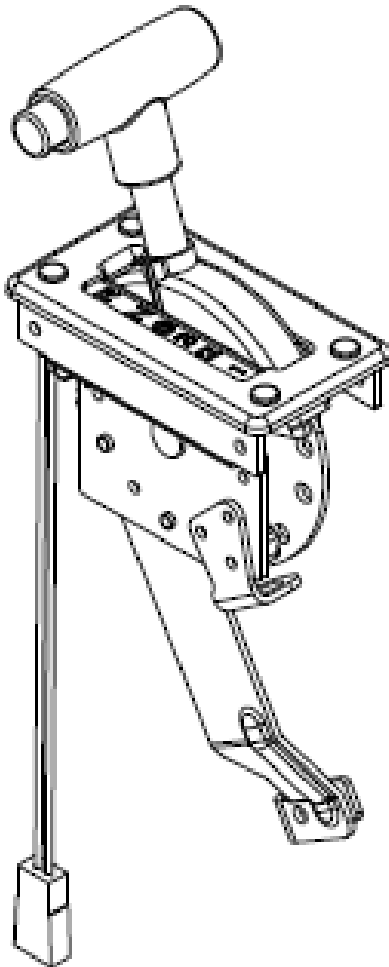


Vision Shifter w/Ford Trans

Tech Tip #19-0601



SHIFTER
PART #10035807

SHIFTER WILL NOT EASILY SHIFT BETWEEN GEARS

We have had reports of drivers saying that when shifting into gear or even between gears that the shifter “binds” and seems to get caught.

Initially we believed that drivers were possibly not pressing fully on the brake as units which have the Ford drivetrain there is a solenoid on the shifter which locks the shifter in the neutral position until the brake pedal is depressed.

Recently a unit was experiencing a more severe case of the issue and upon diagnosis it was found that the solenoid was indeed working correctly but there still was an issue when shifting.

The shifter was removed and once inspected closely it was found there was an issue with the “block” where the solenoid locked into .

Figure #1 shows a side shot of the shifter and the solenoid block we are speaking about is shown by the read arrow toward the bottom of the figure. The block is bolted to the shift handle on the right (black plate) and if you look closely at the gold plate on the

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right, you will see that block rubbing against a rivet and once the block is removed (Figure #2) you can clearly see where the rivet had run against the block below the lower mounting hole.

We ordered a new shifter for the unit to compare with what we were seeing and it was quite evident that there was a change in the design of the block to address the issue with the new shifter as seen in Figure #3.

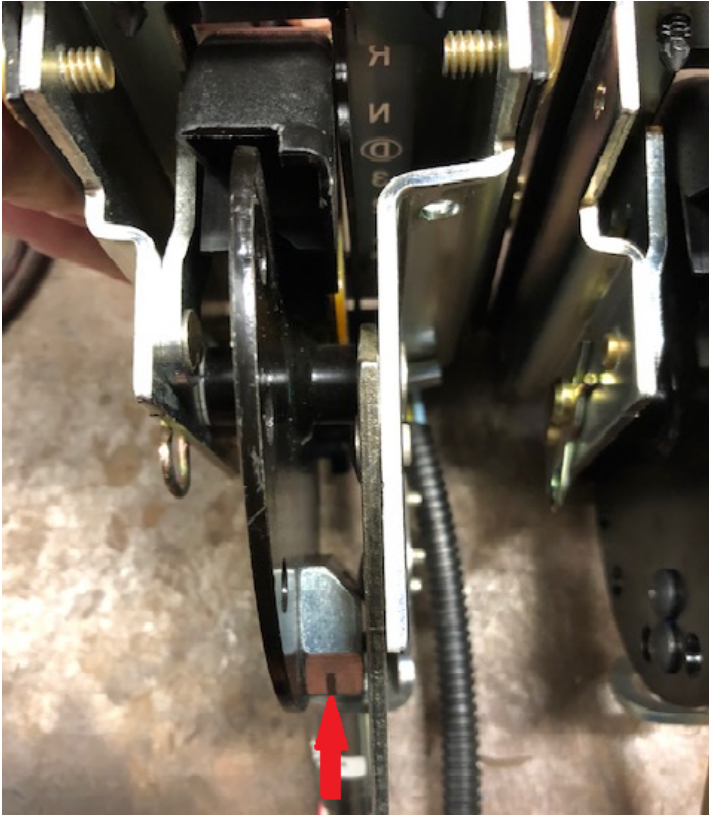


FIGURE #1



FIGURE #2

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FIGURE #3



FIGURE #4



FIGURE #5

The blocks are mounted to the shift selector handle with 2 allen-head screws so we removed them to compare the blocks and as you can see the new blocks are slightly thinner and a larger portion of the new block has been removed for added clearance. This can also be seen in the length of the screws as the new screws are shorter so they don't protrude through the new block.

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FIGURE #6



FIGURE #7

The other telltale sign which we found was that on the shift selector you could see actual marks on the base of the handle where it had rubbed as seen in Figure #6 & #7.

Seeing as the part number for the shifter has not changed, we are trying to find out the date code of when the change in the block was implemented and also if just the updated block and screws could be provided separately.

Thanks to Rich from Horseheads Central School for letting us know about the initial issue!

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