



Technical Service Information

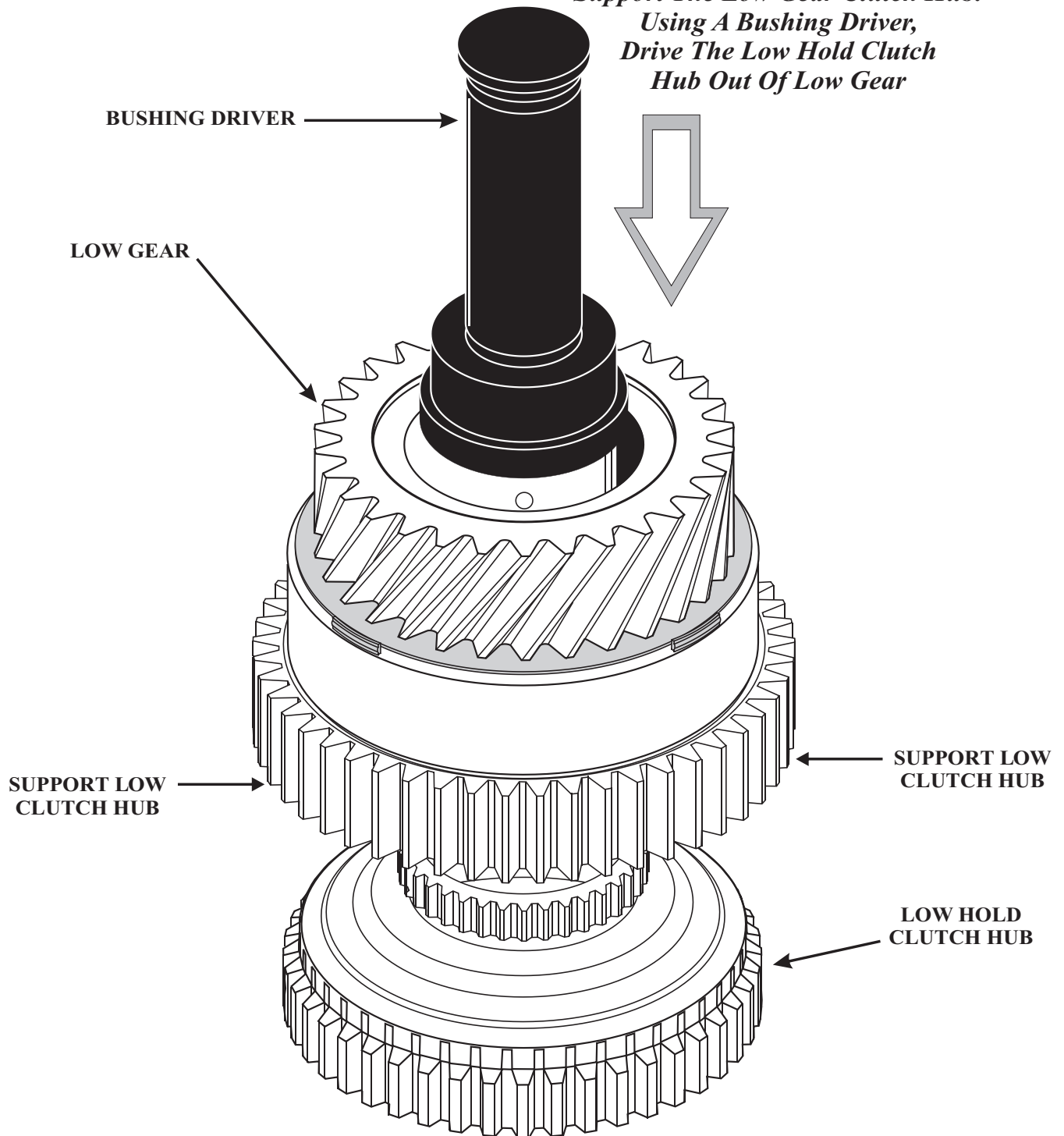
HONDA/ACURA FIVE SPEED NEUTRALIZING DOWNSHIFT TO 1ST

- COMPLAINT:** Before or after overhaul, Honda and Acura vehicles equipped with a five speed transaxle may exhibit a neutralizing condition on a downshift into 1st gear, or a 3-1 passing gear neutral. This condition may be intermittent. This neutralizing condition can be cleared up simply by placing the selector in the Manual 1 position.
- CAUSE:** The cause may be, a worn low one-way clutch, or a worn inner race for the low one-way clutch, as shown in figure 1. Honda and Acura vehicles equipped with a five speed transaxle utilize a low one-way clutch that locks in 1st gear for take-off. If the low one-way does not hold in 1st, there will be no engagement in 1st until the selector is placed in manual 1st. In this position the low hold clutch is engaged and 1st gear can be attained. The low hold clutch is used to provide engine braking in manual low as well as backing up the sprag by holding 1st gear should the sprag fail. This sprag failure is commonly overlooked, as the low hold clutch hub has to be driven out to inspect the sprag and races (See figure 2).
- CORRECTION:** Using a suitable bushing driver, remove the low-hold clutch hub from 1st gear, as shown in figure 2. Refer to figure 3 for an exploded view of the low one-way and 1st gear assembly. Replace as necessary. Note: The sprag can only be purchased as a complete assembly. If there is wear on the inner race for the low one-way, 1st gear will have to be replaced. Refer to figure 4 to verify proper freewheel rotation on the low one-way clutch.

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LOW ONE-WAY CLUTCH DIS-ASSEMBLY

*Support The Low Gear Clutch Hub.
Using A Bushing Driver,
Drive The Low Hold Clutch
Hub Out Of Low Gear*

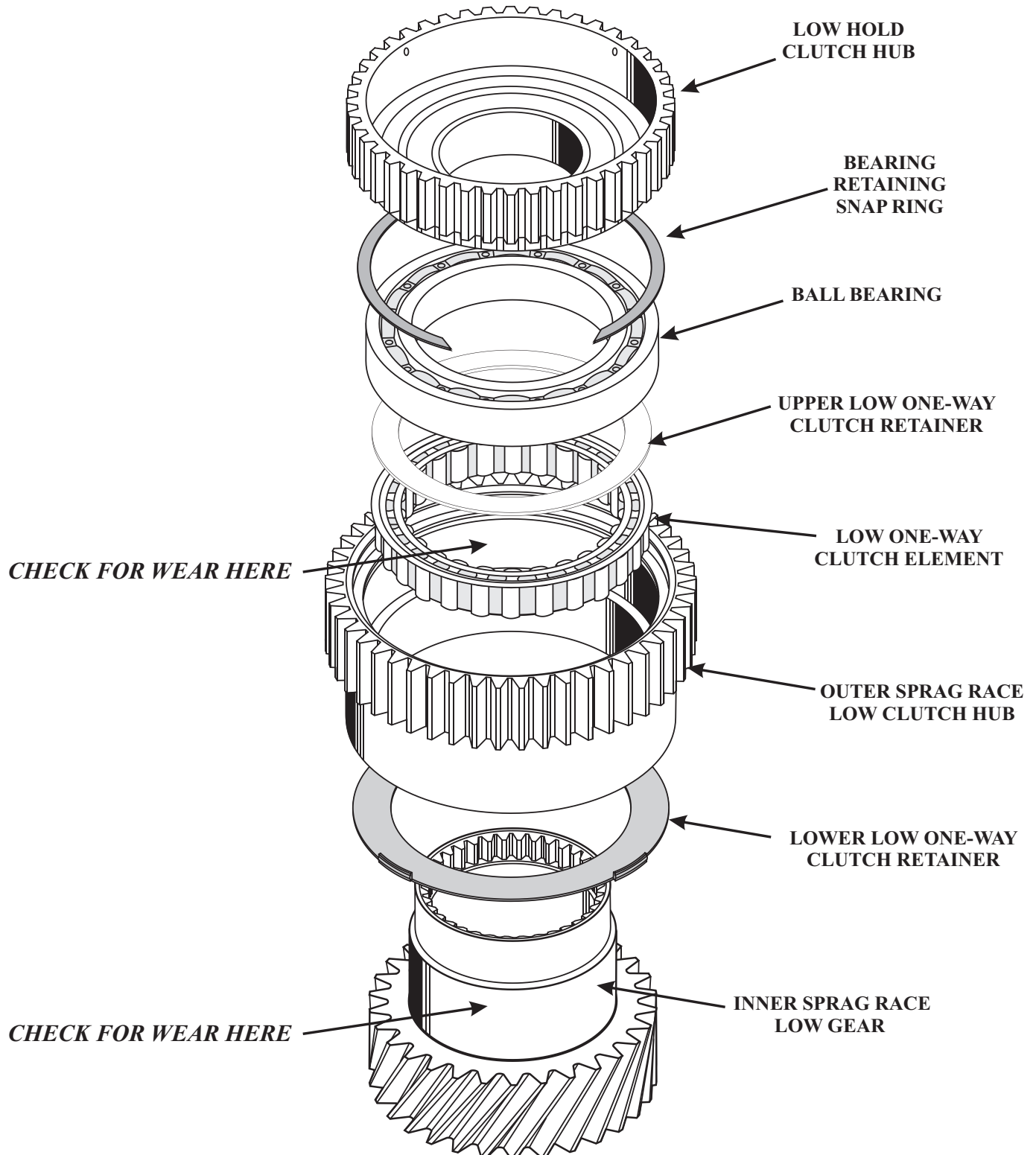


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Figure 1

HONDA/ACURA FIVE SPEED NEUTRALIZING DOWNSHIFT TO 1ST

LOW ONE-WAY CLUTCH ASSEMBLY EXPLODED VIEW



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Figure 2

HONDA/ACURA FIVE SPEED NEUTRALIZING DOWNSHIFT TO 1ST

***THE LOW CLUTCH HUB MUST FREEWHEEL CLOCKWISE
AND LOCK COUNTER CLOCKWISE WHEN HOLDING LOW GEAR***

