

## SERVICE BULLETIN

**APPLICABILITY** ALL MODELS WITH 4EAT 87.5MY TO PRESENT

**DATE** 03-06-92

**SUBJECT:** ONE WAY CLUTCH OPERATION

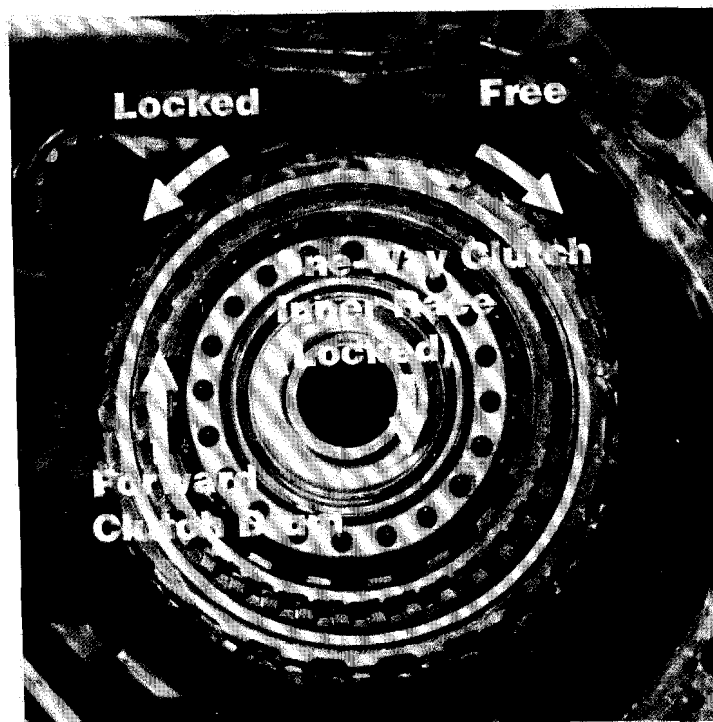
The purpose of this Bulletin is to provide the technician with a concise method of checking the one-way clutch 1-2 and 3-4 proper operation during reassembly.

Use this information as a Service Manual Correction for Service Manuals with Section 3-2 4EAT "One Way Clutch 1-2 and 3-4".

### One-Way Clutch 1-2

O.W.C. (1-2) is provided to prevent the counterclockwise rotation (as viewed from the front of the transmission) of the forward clutch assembly for 1st gear ratio in the "D" range and 1st gear ratio in the "3" range. In the "D" range when upshifting from 1st to 2nd gear ratio, the forward clutch begins to rotate clockwise. In this position, the one way clutch rotates freely to allow the shift from 1st gear ratio to 2nd gear ratio to occur. See Figure 1.

**NOTE:** BE SURE TO USE THE ILLUSTRATION AND TEXT WHICH FOLLOWS TO PROPERLY CHECK THE INSTALLED CONDITION OF THE ONE WAY CLUTCH 1-2.



Make sure that the forward clutch rotates freely in the clockwise direction and is locked in the counterclockwise direction, as viewed from the front of the vehicle.

Figure 1

### One-Way Clutch 3-4

The one way clutch (3-4) is provided to prevent the counterclockwise rotation (as viewed from the front of the transmission) of the rear internal gear assembly of the rear planetary gear during 1st gear ratio, 2nd gear ratio and 3rd gear ratio of the "D" range, "3" range, "2" range and "1st hold range". In "D" range 4th gear, the rear internal gear assembly rotates clockwise so that the one way clutch rotates freely to allow the shift from 3rd to 4th gear ratios to occur. See Figure 2.

NOTE: BE SURE TO USE THE ILLUSTRATION AND TEXT WHICH FOLLOWS TO PROPERLY CHECK THE INSTALLED CONDITION OF THE ONE WAY CLUTCH 3-4.

Assemble the rear internal gear, and secure the outer race. Make sure that the internal gear is locked in the counterclockwise direction, and free to rotate in the clockwise direction.



Figure 2

#### CAUTION

VEHICLE SERVICING PERFORMED BY UNTRAINED PERSONS COULD RESULT IN SERIOUS INJURY TO THOSE PERSONS OR TO OTHERS.

Subaru Service Bulletins are intended for use by professional technicians ONLY. They are written to inform those technicians of conditions that may occur in some vehicles, or to provide information that could assist in the proper servicing of the vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do the job correctly and safely. If a condition is described, DO NOT assume that this Service Bulletin applies to your vehicle, or that your vehicle will have that condition.