

SERVICE BULLETIN

APPLICABILITY 1989 AND 1990 MY LEGACY, L-SERIES,
AND XT WITH M/T
FROM TRANS # 149575 TO
- 243329 FWD TURBO, SELECTIVE 4WD AND (FWD LEGACY ONLY)
- 245890 F/T 4WD LEGACY AND XT6

DATE 04-03-90

SUBJECT: FIRST GEAR DISENGAGEMENT

This Bulletin is for information only.

If you encounter a customer complaint of first gear disengagement, the cause may be excessive clearance between the 1st driven gear and its related bushing/shaft. Referring to the applicable service manual, follow the instructions below to measure and install a replacement 1st driven gear.

- o Remove and replace transmission from the vehicle according to Section 2-11 of the applicable service manual.
- o Disassemble the transmission according to Section 3-1 of the applicable service manual.
- o Replace the 1st driven gear and related parts using the new specifications in this bulletin and Section 3-1 in the applicable service manual.

Ensure that the new radial clearance guidelines listed below are used when reassembling the transmission.

The radial clearance is the clearance or difference between the largest shaft/bushing measurement and the smallest measurement from the inner diameter of the first driven gear.

Model	Unit: mm (inch)	
	New	Old
FWD and SELECTIVE 4WD	0.023mm - 0.050mm (0.0009 - 0.0019)	0.023mm - 0.060mm (0.0009 - 0.0023)
F/T 4WD	0.030mm - 0.054mm (0.0011 - 0.0021)	0.030mm - 0.070mm (0.0011 - 0.0027)

**FIRST DRIVEN GEAR
REPLACEMENT PROCEDURE FOR VEHICLES USING A BUSHING.
THESE ARE FWD LEGACY, SELECTIVE 4WD, FWD TURBO VEHICLES.**

- 1) Measure the outer diameter of the bushing, Part Number 32249AA003 at three different locations 120 degrees apart.. Use the greater of the three measurements.
- 2) In cases where a new bushing is installed, measurements are to be taken after it is press fitted onto the drive pinion shaft.

NOTE: If the outer diameter is not within the following range replace the bushing with a new one:

41.954 - 41.996 mm (1.6529 - 1.6546 in.)

- 3) Select a suitable first gear from the chart below using the largest of the three measurements obtained from the bushing.

Outer diameter of the bushing unit: mm (inch)	Part number of the first driven gear to be selected
41.983mm 41.996mm (1.6541 1.6546)	32231AA320
41.978mm 41.982mm (1.6539 1.6540)	32231AA330
41.954mm 41.977mm (1.6529 1.6538)	32231AA340

- 4) This chart is for information only that shows the supersession of part numbers and the difference in clearances new and old.

Inner diameter tolerance of 1st driven gear Unit: mm (inch)

		New	Old	
Model	Part Number	Inner Diameter and Tolerance	Part Number	Inner Diameter and Tolerance
FWD AND 4WD	32231AA320	42.019mm - 42.033mm (1.6555 - 1.6561)	32231AA210	42.019mm - 42.035mm (1.6555 - 1.6561)
	32231AA330	42.005mm - 42.018mm (1.6549 - 1.6555)	32231AA220	41.997mm - 42.013mm (1.6540 - 1.6553)
	32231AA340	41.990mm - 42.004mm (1.6544 - 1.6549)		

**FIRST DRIVEN GEAR
REPLACEMENT PROCEDURE FOR VEHICLES NOT USING A BUSHING (OR VEHICLES USING
A DRIVEN SHAFT).**

THESE ARE FULL TIME 4WD VEHICLES.

- 1) Measure the outer diameter of the journal portion on the driven shaft at three different locations (120 degrees apart). Use the greater of the three measurements.

NOTE: If the outer diameter of the driven shaft is not within the following range replace the driven shaft.

49.959 - 47.975 mm
(1.9683 - 1.9690 in.)

If you are replacing the shaft, there are now two driven shafts of different sizes to choose from. Either shaft may be used as long as the corresponding gear is matched to it.

Select a suitable first gear using the largest of the three measurements obtained from the driven shaft journal, or the measurement of either replacement shaft you selected.

Select the proper gear according to the shaft diameter.

Unit: mm (inch)

Shaft Part Number	Outer diameter of the shaft	Part number of the first driven gear to be selected
32229AA120	49.967mm - 49.975mm (1.9686 - 1.9690)	32231AA260
32229AA130	49.959mm - 49.966mm (1.9683 - 1.9686)	32231AA270

These charts are for information only to show the supersession of part numbers and the difference in clearances.

Outer diameter tolerance of driven shaft.

Unit: mm (inch)

MODEL	NEW		OLD	
	Part Number	Inner Diameter and Tolerance	Part Number	Inner Diameter and Tolerance
F/T 4WD	32229AA120	49.967mm - 49.975mm (1.9686 - 1.9690)	32229AA000	49.959mm - 49.975mm (1.9683 - 1.9690)
	32229AA130	49.959mm - 49.966mm (1.9683 - 1.9686)		

Inner diameter tolerance of 1st driven gear

Unit: mm (inch)

MODEL	NEW		OLD	
	Part Number	Inner Diameter and Tolerance	Part Number	Inner Diameter and Tolerance
F/T 4WD	32231AA260	50.005mm - 50.021mm (1.9691 - 1.9698)	32231AA140	50.005mm - 50.029mm (1.9701 - 1.9711)
	32231AA270	49.996mm - 50.021mm (1.9701 - 1.9708)		

Color identification marks are provided on the new gear as per the chart below.

Color	1st Driven Gear		Driven shaft
	FWD and Selective 4WD	F/T 4WD	F/T 4WD
Pink	32231AA320	32231AA260	32229AA120
Green	32231AA330	-----	-----
White	32231AA340	32231AA270	32229AA130

REASSEMBLY PROCEDURES FOR ALL TRANSMISSIONS:

- o It will be necessary to transfer the spring to the new 1st driven gear.
- o After installing the correct 1st driven gear, replace the 1st gear synchronizer according to Section 3-1 of the applicable service manual.
- o Inspect the 1st - 2nd shifter fork for wear and replace if necessary.
- o Reassemble the pinion shaft according to Section 3-1 of the applicable service manual.
- o Reassemble the balance of the transmission in reverse order of disassembly.

Warranty Flat Rate information can be found under Section 3 of the applicable flat rate manual for pinion shaft overhaul.