

MULTI-PLATE CLUTCH

AUTOMATIC TRANSMISSION

28.Multi-plate Clutch

A: REMOVAL

Remove multi-plate clutch following the same instructions as for the extension case. <Ref. to AT-85, REMOVAL, Extension Case.>

B: INSTALLATION

Install multi-plate clutch following the same instructions as for the extension case. <Ref. to AT-85, INSTALLATION, Extension Case.>

C: INSPECTION

- Inspect drive plate facing for wear and damage.
- Make sure snap ring is not worn and return spring has no permanent distortion, damage, or deformation.
- Inspect raised cut ring for damage.
- Measure multi-plate clutch clearance and adjust it to within the specification range. <Ref. to AT-96, ADJUSTMENT, Multi-plate Clutch.>

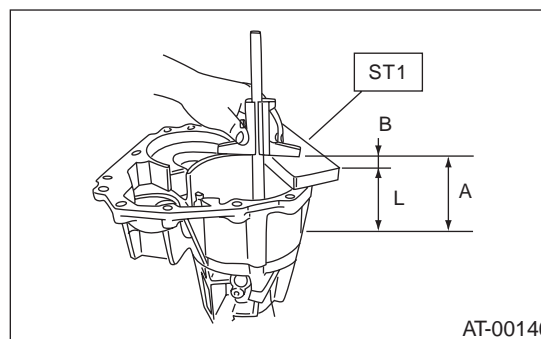
D: ADJUSTMENT

- 1) Remove drive plate and driven plate from center differential carrier.
- 2) Using the special tool, measure distance "L" from extension case joining surface to multi-plate clutch (LSD) piston.

ST 398643600 Gauge

L = Measured value – 15 mm

(L = Measured value – 0.59 in)



A: Measured value

B: Special tool thickness [15 mm (0.59 in)]

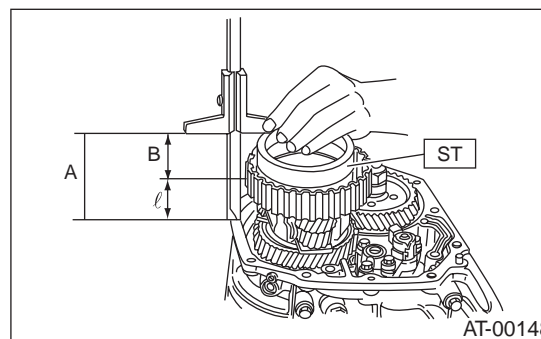
L: Distance from the extension case edge to the rear driveshaft edge.

- 3) Using ST, measure height "ℓ" from transmission case joining edge to center differential clutch drum edge.

ST 398744300 Gauge

ℓ = Measurement value – 50 mm

(ℓ = Measurement value – 1.97 in)



A: Measurement value

B: Special tool thickness [50 mm (1.97 in)]

ℓ: Measure distance from transmission case joining surface to multi-plate clutch (LSD) piston.

- 4) Calculation formula

$$T = (L + 0.45 \text{ mm}) - \ell$$

$$[T = (L + 0.0177 \text{ in}) - \ell]$$

T: Measurement value between clutch drum and multi-plate clutch (LSD) piston

L: Distance from extension case joining surface to multi-plate clutch (LSD) piston

0.45: Gasket thickness

ℓ: Distance from transmission case joining surface to center differential clutch drum edge

AT-96

MULTI-PLATE CLUTCH

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NOTE:

Measure multi-plate clutch (LSD) driven and drive plate thickness to find the clearance between measurement value and "T".

Standard value:

0.2 - 0.6 mm (0.008 - 0.024 in)

Limit value:

1.6 mm (0.063 in)

If outside the standard value, replace the plate set (drive and driven plate). Select a multi-plate clutch (LSD) piston side adjustment plate that will bring clearance within the standard value.

Obtainable driven plates	
Part No.	Thickness mm (in)
31589AA041	1.6 (0.063)
31589AA050	2.0 (0.079)
31589AA060	2.4 (0.094)
31589AA070	2.8 (0.110)

AT-97

Vehicle-id:
SIE-id::D:ADJUSTMENT