

SECTION **CL**

MODIFICATION NOTICE:

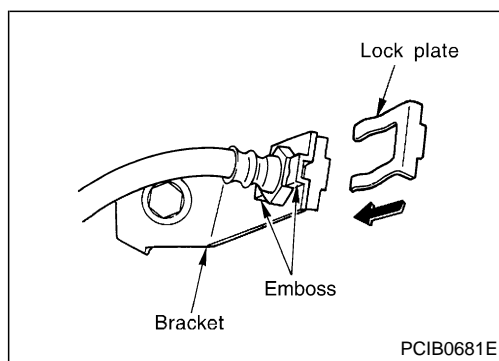
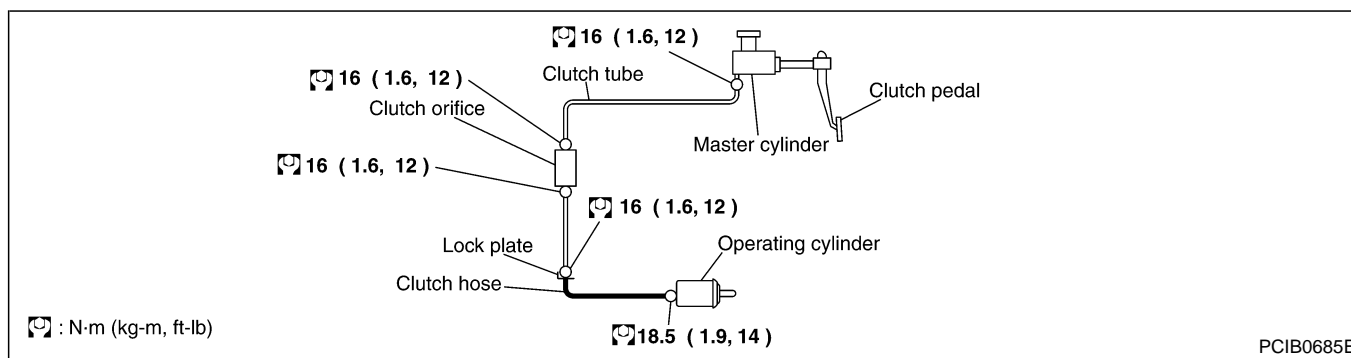
- Clutch cover has been changed, and clutch orifice has been added to 2-door models based on the grade of ZD30DDTi engine.
- Service Data and Specifications (SDS) have been changed.

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CLUTCH PIPING

Removal and Installation



Carefully observe the following steps during clutch tube removal and installation.

- Do not spill clutch fluid onto painted surfaces. If it spills, wipe up immediately and wash the affected area with water.
- When fixing clutch hose to bracket, align clutch hose metal fittings with bracket positioning emboss and lock plate to secure. At this time, prevent twisting or damage of clutch hose. In addition, be careful not to damage clutch hose.
- Tighten clutch tube flare nut to the specified torque.

CAUTION:

Be careful not to damage flare nut and clutch tube.

- Tighten the union bolt to the specified torque.

CAUTION:

Do not reuse the copper washer.

- After installation, bleed the clutch tube.

SERVICE DATA AND SPECIFICATIONS (SDS)

General Specifications

CLUTCH DISC

| Applied model | TB45E | | | TB48DE | ZD30DDTi | | TD42 | TD42Ti |
|--|---|--|-------|--|--|-------|---|---|
| | 275 | | | 300 | 275 | | | |
| | Pickup | H/T | Wagon | | H/T | Wagon | Wagon and Pickup | |
| Facing size (Outer dia. x inner dia. x thickness) mm (in) | 275 x 180 x 3.5 (10.83 x 7.09 x 0.14) | | | 300 x 190 x 3.5 (11.81 x 7.48 x 0.14) | 275 x 180 x 3.5 (10.83 x 7.09 x 0.14) | | | |
| Thickness of disc assembly with load mm (in)/N (kg, lb) | 7.7 - 8.3 (0.30 - 0.33)/ 6,865 (700, 1,543) | 7.8 - 8.4 (0.31 - 0.33)/ 7,845 (800, 1,764) | | 7.7 - 8.3 (0.30 - 0.33)/ 8,340 (851, 1,875) | 7.8 - 8.4 (0.31 - 0.33)/ 7,845 (800, 1,764) | | 7.8 - 8.2 (0.31 - 0.32)/ 6,865 (700, 1,543) | 7.9 - 8.5 (0.31 - 0.34)/ 7,845 (800, 1,764) |

CLUTCH COVER

| Applied model | TB45E | | | TB48DE | ZD30DDTi | TD42 | TD42Ti |
|-------------------------|---|---|-------|---|---|---|---|
| | 275 | | | 300 | 275 | | |
| | Pickup | H/T | Wagon | | H/T and Wagon | | Wagon and Pickup |
| Full load N (kg, lb) | 7,355 - 8,335 (750 - 850, 1,653 - 1,874) | 7,670 - 9,010 (780 - 920, 1,724 - 2,025) | | 7,650 - 9,030 (780 - 921, 1,720 - 2,030) | 7,670 - 9,010 (780 - 920, 1,724 - 2,025) | 6,473 - 7,257 (660 - 740, 1,455 - 1,631) | 7,355 - 8,335 (750 - 850, 1,653 - 1,874) |

Inspection and Adjustment

CLUTCH DISC

Unit: mm (in)

| Applied model | TB45E | | | TB48DE | ZD30DDTi | TD42 | TD42Ti |
|--|-------------|-----|-------|-------------|-------------|------------------|--------|
| | 275 | | | 300 | 275 | | |
| | Pickup | H/T | Wagon | H/T | Wagon | Wagon and Pickup | |
| Wear limit of facing surface to rivet head | 0.3 (0.012) | | | | | | |
| Runout limit of facing | 1.3 (0.051) | | | | | | |
| Distance of runout check point (from the hub center) | 130 (5.12) | | | 145 (5.71) | 130 (5.12) | | |
| Maximum backlash of spline (at outer edge of disc) | 1.1 (0.043) | | | 1.2 (0.047) | 1.1 (0.043) | | |

CLUTCH COVER

Unit: mm (in)

| Applied model | TB45E | | | TB48DE | ZD30DDTi | TD42 | TD42Ti |
|---|-------------------------|-----|-------|-------------|-------------|------------------|--------|
| | 275 | | | 300 | 275 | | |
| | Pickup | H/T | Wagon | H/T | Wagon | Wagon and Pickup | |
| Diaphragm spring height “A” | 44 - 46 (1.732 - 1.811) | | | | | | |
| Uneven limit of diaphragm spring toe height | 0.7 (0.028) | | | 1.0 (0.039) | 0.7 (0.028) | | |