

SECTION CL

**MODIFICATION NOTICE:**

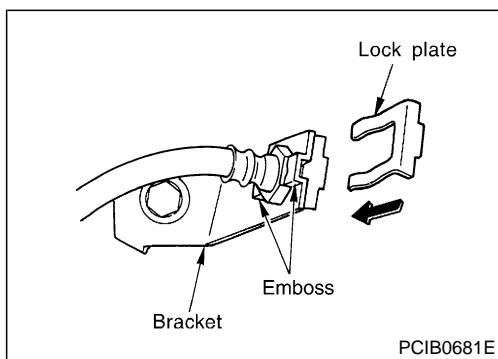
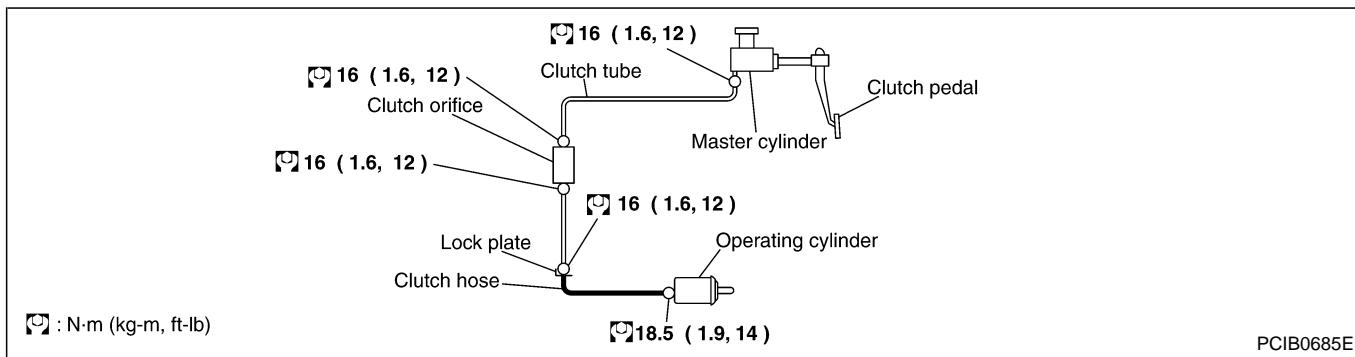
- Clutch cover has been changed, and clutch orifice has been added to 2-door models based on the grade of ZD30DDTi engine.
- Service Data and Specifications (SDS) have been changed.

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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

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

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)			