

SPRING BRAKE CONTROL VALVE

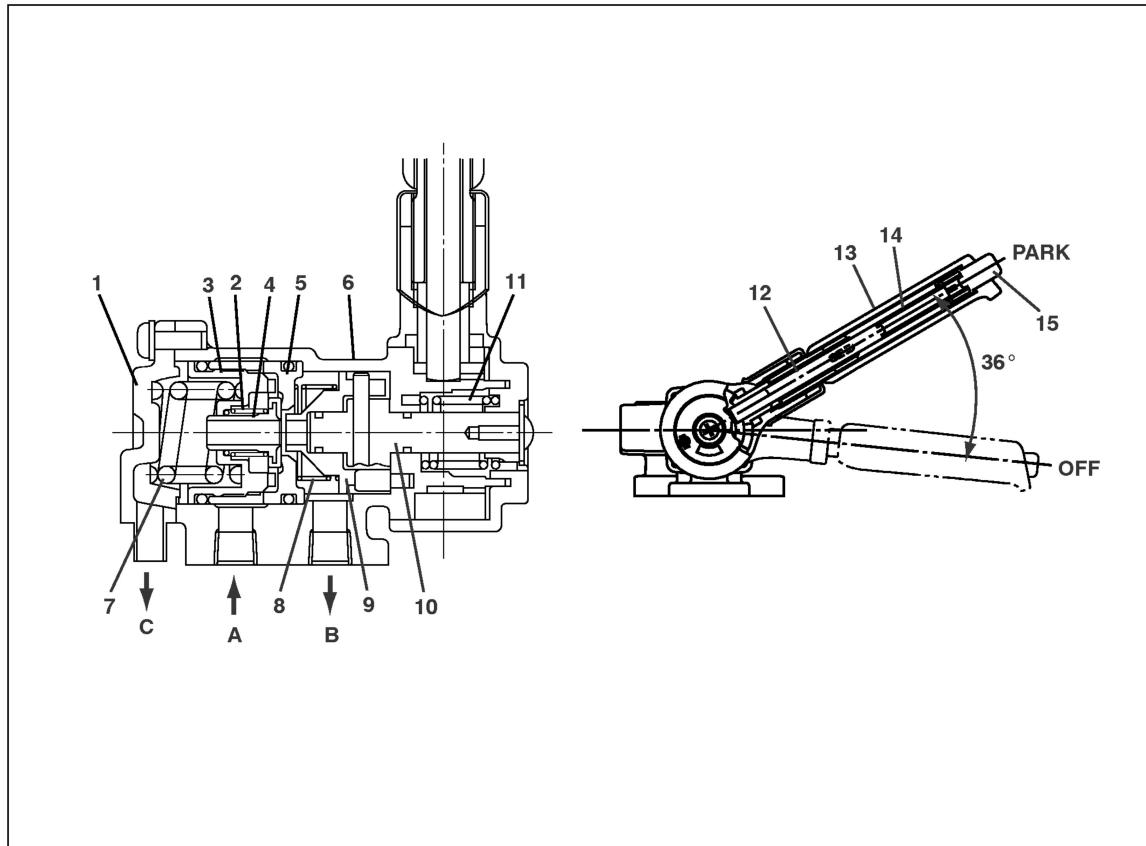
DATA AND SPECIFICATIONS

EN0680202100010

Type	Variable pressure control type
Outlet pressure difference between parking and releasing stroke at a specified lever angle	Within 147 kPa {1.5 kgf/cm ² , 21.33 lbf/in. ² }

DESCRIPTION

EN0680202C100010

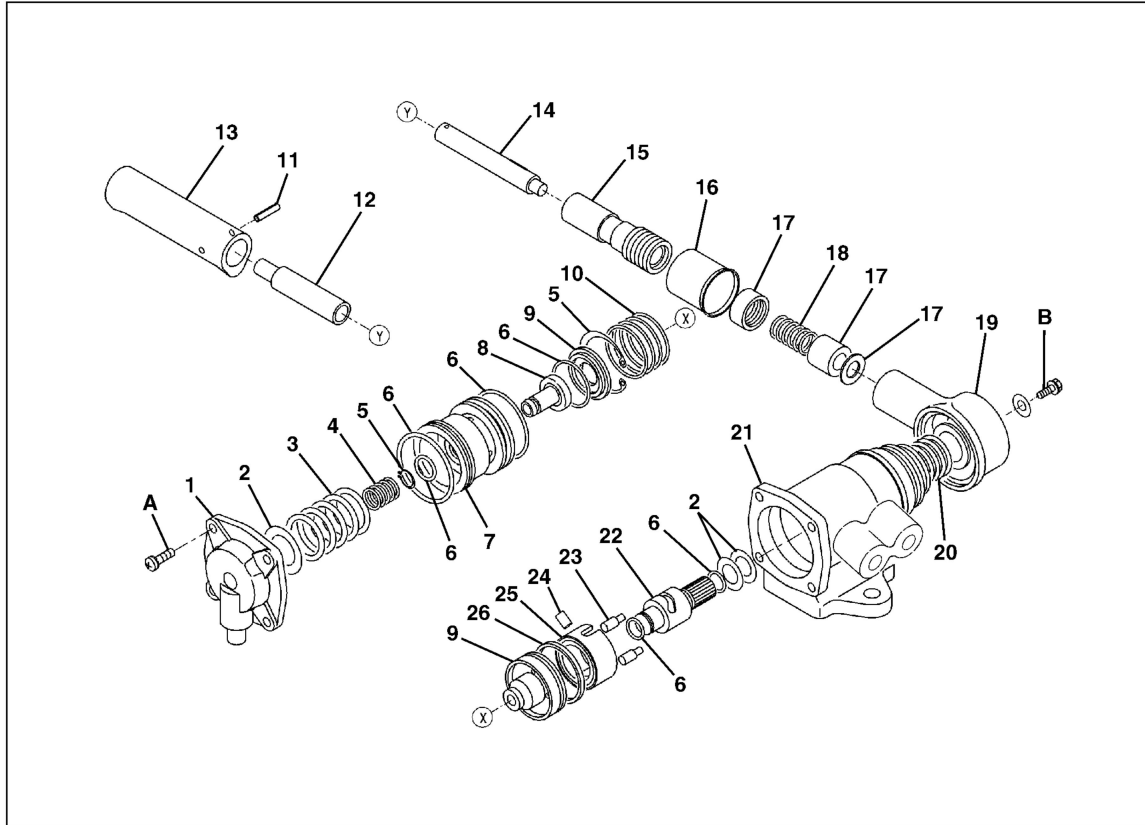


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1 Body cover	7 Piston spring	13 Grip
2 Feed valve spring	8 Valve seat spring	14 Compression spring
3 Piston	9 Cam	15 Release rod
4 Feed valve	10 Cam holder	A Inlet
5 Valve seat	11 Return spring (If so equipped)	B Outlet
6 Valve body	12 Pull rod	C Exhaust (PARK)

COMPONENT LOCATOR

EN0680202D100010



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1	Body cover	10	Valve seat spring	19	Body cap
2	Shim	11	Lock pin	20	Return spring (If so equipped)
3	Piston spring	12	Release rod knob	21	Valve body
4	Feed valve spring	13	Grip	22	Cam holder
5	Retainer ring	14	Pull rod	23	Body pin
6	O-ring	15	Supporter	24	Cam holder pin
7	Piston	16	Cover	25	Cam
8	Feed valve	17	Stopper	26	Piston guide
9	Valve seat	18	Compression spring		

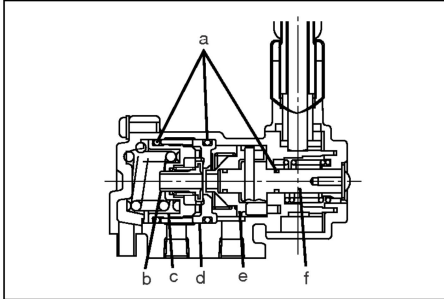
Tightening torque

Unit: N·m {kgf·cm, lbf·ft}

A	5.4-7.4 {55-75, 4.0-5.4}	B	3.4-4.9 {35-50, 2.6-3.6}
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OVERHAUL

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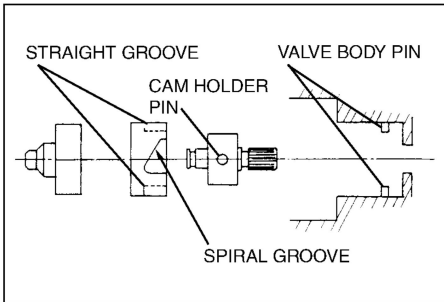
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IMPORTANT POINTS - ASSEMBLY

1. LUBRICATION

- (1) When assembling the spring brake control valve, replace the feed valve, valve seats and O-rings.
- (2) Apply silicone grease to each sliding surface of the assembly parts, O-rings and O-ring grooves.

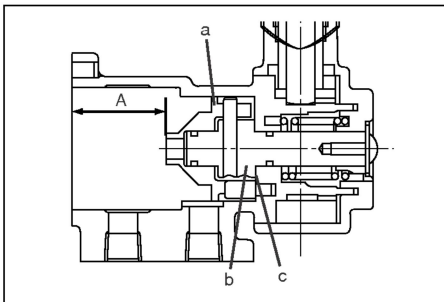
- a. O-ring
- b. Feed valve
- c. Piston
- d. Valve seat
- e. Cam
- f. Cam holder



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2. ASSEMBLE THE CAM ASSEMBLY.

- (1) When assembling the cam and cam holder, make sure that the cam holder pin and spiral groove of the cam are aligned.
- (2) When installing the cam assembly to the valve body, the valve body pin and straight groove of the cam must be aligned.

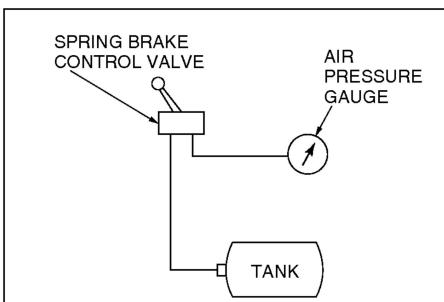


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- (3) Adjust dimension "A" with the shim.

Assembly standard: 33.8-34.2 mm {1.331-1.346 in.}

- a. Cam
- b. Cam holder
- c. Shim



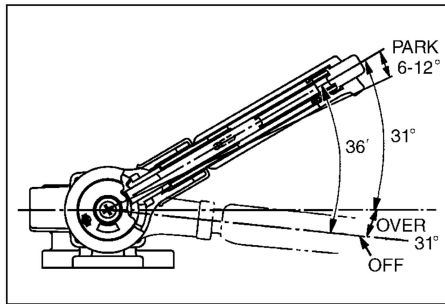
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3. SPRING BRAKE CONTROL VALVE PERFORMANCE TEST

- (1) First, connect the pressure gauge to the outlet line and apply an air pressure of 834 kPa {8.5 kgf/cm², 121 lbf/in.²} to the inlet line.

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SERVICE BRAKE (MODELS: WITH FULL AIR BRAKE)



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(2) Move the spring brake control lever towards the OFF position, gradually and confirm that the air pressure in the outlet line meets the characteristic shown in figure.

Standard:

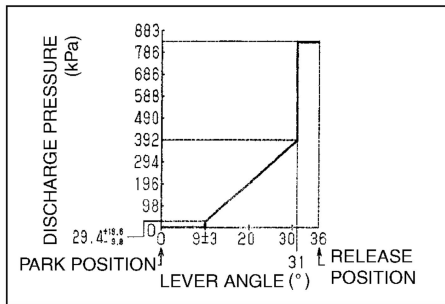
Lever angle: Outlet pressure: kPa {kgf/cm², lbf/in.²}

6-12° 19.6-49 {0.2-0.5, 2.85-7.11}

Over 31° 686 {7.0, 99.54}

NOTICE

The characteristic shown is under the inlet pressure of 834 kPa {8.5 kgf/cm², 121 lbf/in.²}

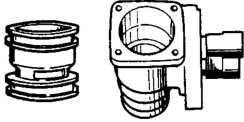




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INSPECTION AND REPAIR

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Unit: mm {in.}

Inspection Item	Standard	Limit	Remedy	Inspection Procedure
Piston and valve body: Wear and damage	—	—	Replace, if necessary.	Visual check 
Cam, pin and cam holder: Wear and damage	—	—	Replace, if necessary.	Visual check 
Piston spring: Rust, damage and mea- sure the spring free length	Free length 27.9 {1.098}	25.0 {0.984}	Replace, if necessary.	Measure and visual check 
Feed valve spring and valve seat spring: Rust and damage	—	—	Replace, if necessary.	Visual check 