

Operating Theory of Damper Mechanism

1. Operation When Operating Lever

When pushing pedal, pushing force pushing push rod and spool presses cylinder, return spring and hydraulic oil in cylinder is compressed, piston coming down with push rod compresses vibration prevention chamber of lower part, oil of vibration prevention chamber of lower part is flowed through orifice to oil pressure vibration prevention chamber of upper part of low pressure, at this time, ball check valve becomes closing condition because high pressure operates to vibration prevention chamber of lower part.

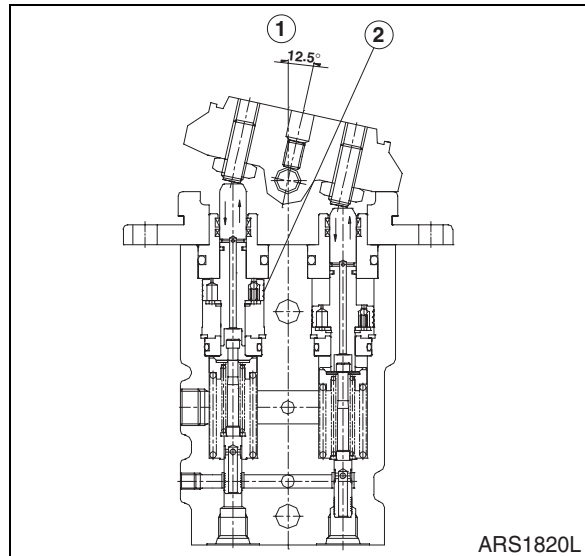


Figure 3

2. Operation When Operating Lever In Neutral Condition

Climbing restoring force acting on push rod, raises piston in oil pressure prevention chamber and compresses upper oil pressure prevention chamber. This compression operation of upper oil pressure prevention chamber prevents the push rod from quickly rising by restoring spring, and the damping force is generated.

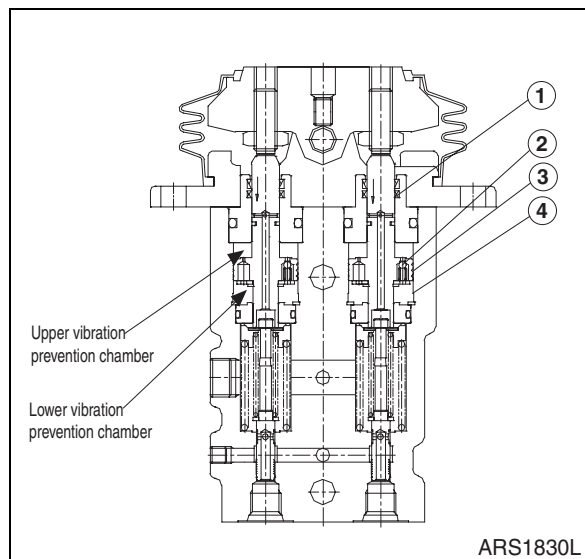


Figure 4

PARTS LIST

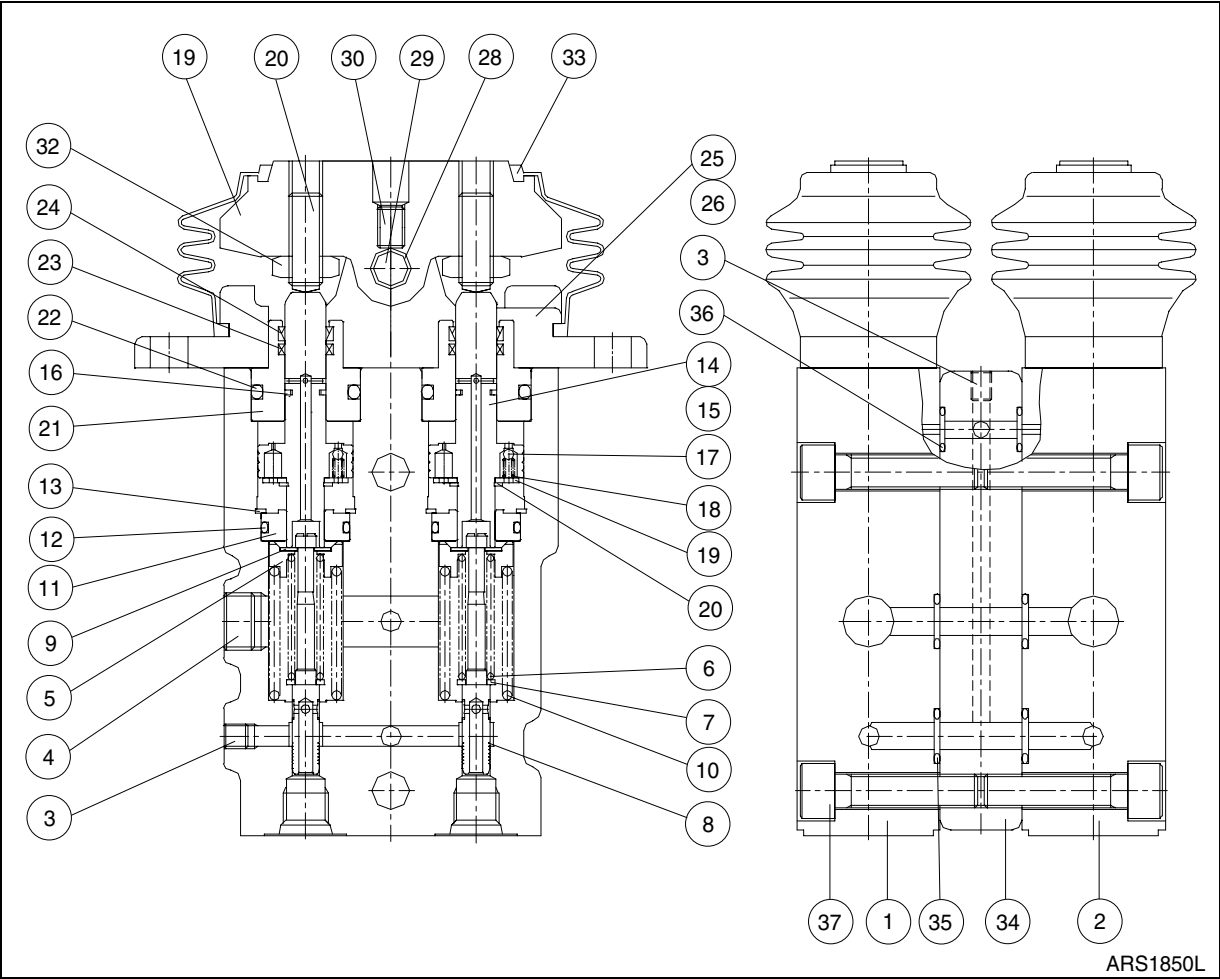


Figure 5

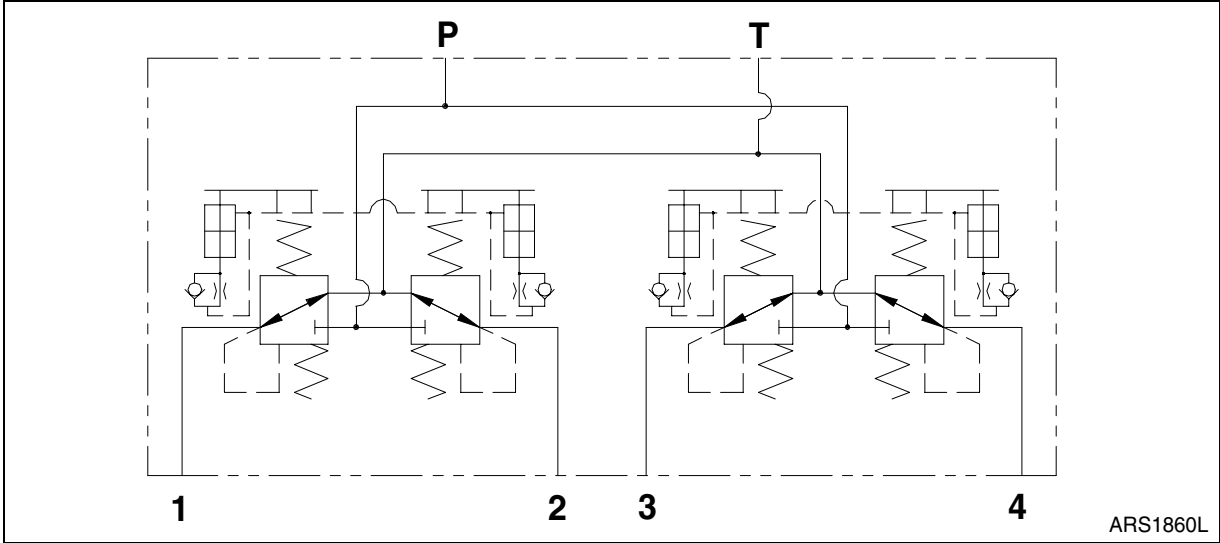


Figure 6