

Installing the Actuator 34

The Actuator 34 provides mechanical effort to the gearbox selector to change gears. The Actuator 34 requires an external valve block or valve pack to supply pressurised air to the two ports of the actuator.

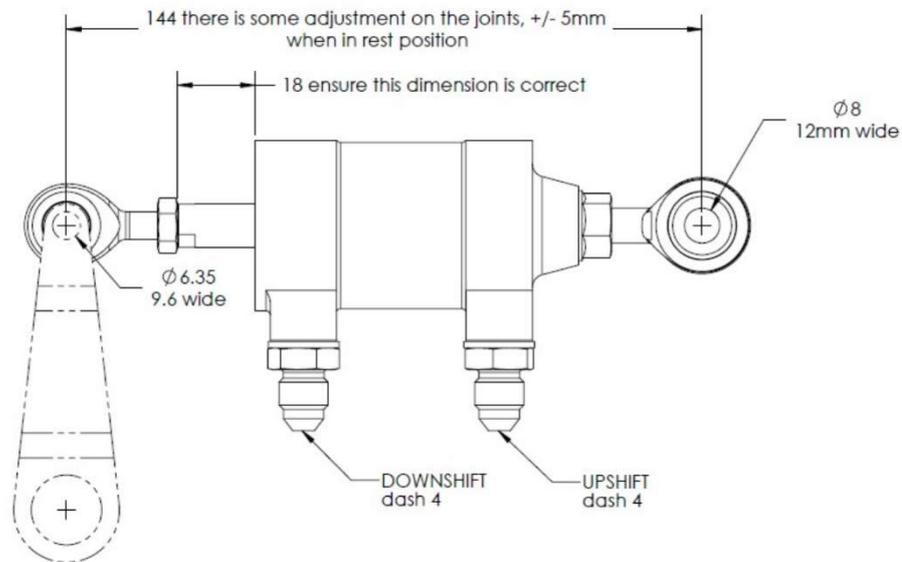
The Actuator 34 mounts via two rose joints/spherical bearings and floats on these bearings during operation. The body of the Actuator 34 is mounted via an 8mm rose joint whilst the actuating rod of the Actuator 34 mounts via a 1/4" rose joint. This allows the Actuator 34 to directly replace most shift cables.

Some gearboxes will require a bracket/clevis to carry the 8mm rose joint/body of the GSS. If your gearbox is not already fitted with a suitable bracket please contact your gearbox manufacturer who will be able to supply a suitable component.

Installation Steps:

1. Ensure the gearbox is fully in a gear or in neutral and that the gearbox ratchet assembly has released to the centre position of its movement. Loosen the locking nuts on the Actuator 34 rose joints.
2. Loosely bolt the Actuator 34 body rose joint to the gearbox bracket/clevis using a suitable 8mm fastener.
3. The Actuator 34 has a maximum stroke of +/- 17mm, ensure the shaft is in its central position when fitting the servo. Adjust the overall reach of the actuator using the rods rose joint assembly. Adjust the centralisation of the actuator body using the body of the actuator rose joint assembly as per the diagram.
4. Adjust the length of the actuator rod rose joint to reach the selector. Loosely bolt the actuator rod rose joint to the gearbox selector using a suitable 1/4" fastener. If the actuator rod rose joint does not offer enough reach adjustment the body rose joint can be used to further increase reach at the expense of adjustability of centralisation.

5. Using a steel rule measure the distance between the centres of the Actuator 34 rose joints, with the gearbox selector at its central position this measurement should be 144MM +/- 1MM. It is **critical** to system operation that the actuator is correctly centralised. If it is not adjust the centralisation of the actuator by adjusting the Actuator 34 body rose joint length as per the diagram.



6. Tighten the rod and body rose joints mounting hardware. The Actuator 34 is now installed.

Actuator 34 Pneumatic Connections

The Actuator 34 requires a supply of pressurised air between 6 bar and 9 bar supplied to the "UPSHIFT" and "DOWNSHIFT" ports of the actuator as required.

Make all connections using Dash 4 fittings, do not use Loctite or PTFE tape. Use copperslip only when directed to by the fittings manufacturer.