

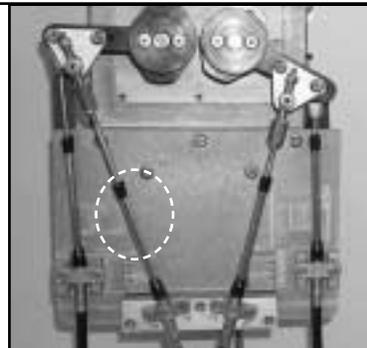
Gear Backup Cable Spring Removal Procedure

Improving the accuracy of the Control Head while in mechanical control

This step-by-step procedure will guide you through the process to remove the gear compression spring.

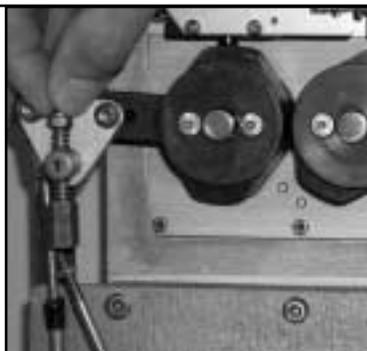
STEP 1: LOCATE SHIFT CONTROL CABLE

At the Actuator, locate the shift control cable that is being operated by the mechanical backup control head.



STEP 2: REMOVE COMPRESSION LINK

Remove the compression link from the end of the cable. The 7/16" hex fitting at this link, will rotate for easy removal.



STEP 3: REMOVE CABLE CLAMP ASSEMBLY

Remove cable clamp assembly. Save the cable clamp from this location for it will be used again in the following steps.



STEP 4: REMOVE TRIANGULAR PLATE SCREWS

Remove the two (2) button head allen screws that attach the triangular plate to the actuator lever. This compression link assembly will not be reused.



STEP 5: INSTALL "PIGGYBACK" CABLE CLAMP ASSEMBLY

Install the saved cable clamp in a "piggyback" fashion with the cable that runs from the actuator to the transmission (leave this cable in its installed configuration).



STEP 6: INSTALL MECHANICAL BACKUP CABLE

Install the mechanical backup cable in the top clamp. Tighten screws.



STEP 7: INSTALL TERMINAL EYE

Thread a 10-32 terminal eye onto the end of the backup cable. Make sure to maintain a 5-thread engagement.



STEP 8: DETERMINE WHICH ACTUATOR LEVER HOLE TO USE

Taking note of which threaded hole the transmission cable is using at the middle actuator lever, locate (at the top lever) the next threaded hole in towards the actuator center line — OR— if the transmission cable is using hole "A" at middle lever, locate hole "B" at top lever.



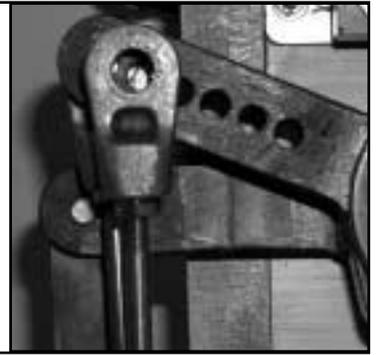
STEP 9: CENTER TERMINAL EYE WITH HOLE ON ACTUATOR LEVER

With actuator and control head in their neutral positions, thread the terminal eye in or out so it is on center with its threaded hole.



STEP 10: CONFIRM ALIGNMENT OF TERMINAL EYE / AHEAD GEAR

With the control head in the ahead position, manually place the actuator lever into ahead. Confirm that the terminal eye is on center with the threaded hole with all cable backlash pushed towards neutral, being careful not to go beyond or fall short of the gear position.



STEP 11: CONFIRM ALIGNMENT OF TERMINAL EYE / ASTERN GEAR

With the control head in the astern position, manually place the actuator lever into astern. Confirm that the terminal eye is on center with the threaded hole with all cable backlash pushed towards neutral, being careful not to go beyond or fall short of the gear position.



STEP 12: COMPLETE INSTALLATION

Install and tighten shoulder bolt. Gear compression spring removal complete.

