

CYLINDER REPLACEMENT- 500, 1000, 1300, & 1600 CABLE GATE SERIES

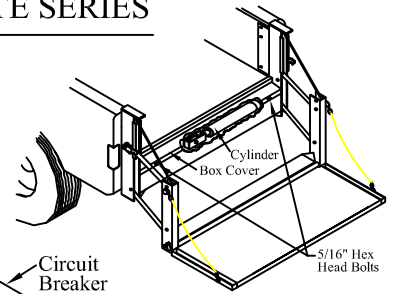
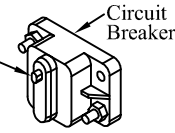
Step 1. Park vehicle on a level surface and lower the liftgate to the ground.

Step 2. Remove the mainframe box cover by taking out the two 5/16" hex head bolts.

Step 3. Keep body parts out of mainframe during liftgate operation. Actuate the lowering function and push the hydraulic cylinder in until it is completely collapsed.

Step 4. To avoid risk of a 12 volt electrical short, disconnect the #4 power cable from the positive side of the battery or manually trip the circuit breaker.

Manual Disconnect Button

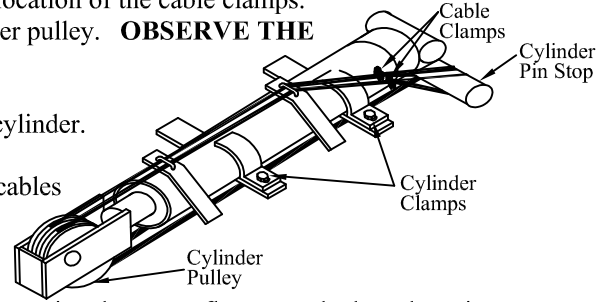


Step 5. Remove the hi-pressure hose fitting from the cylinder flow control. Do not remove the hose from the pump fitting.

Step 6. Loosen and remove the cable clamps, paying close attention to the location of the cable clamps. Pull the cables out from around the cylinder pin stop and the cylinder pulley. **OBSERVE THE WAY THE CABLES ARE THREADED.**

Step 7. Remove the clamps that hold the cylinder in place and remove the cylinder.

Step 8. With the liftgate cylinder removed, check all pulleys, pins, and lift cables for any excess wear. All pulleys should rotate freely without excessive side to side play. Replace any parts if necessary.



Step 9. Inspect the threads on the cylinder end of the hose. If the threads have pipe dope or teflon tape, the hose has pipe threads. If there is an O-ring at the base of the threads, the hose has O-ring threads. The flow control on the new cylinder has O-ring threads. If the hose has pipe threads proceed to step 10, otherwise skip to step 11.

Step 10. Install the male O-ring to female pipe thread adaptor (included with new cylinder) on the hose. Use pipe dope or teflon tape on pipe threads only.

Step 11. Install the new cylinder in the liftgate, reconnect the hose fitting to the cylinder flow control, and reinstall the clamps that hold the cylinder.

Step 12. Restring the lift cables through the pulley on the cylinder and around the cylinder pin stop. **NOTE:** Pay close attention that the cables are not crossed during this step. See the lift cable routing figure on the next page.

Step 13. Verify that the vehicle is unloaded and on a level surface. If the cables are tightened when the vehicle is loaded, the platform may not touch the ground when unloaded.

Step 14. Verify that the cylinder is completely collapsed.

CAUTION: If the cylinder is not completely collapsed now, the cylinder may over extend, causing cylinder damage.

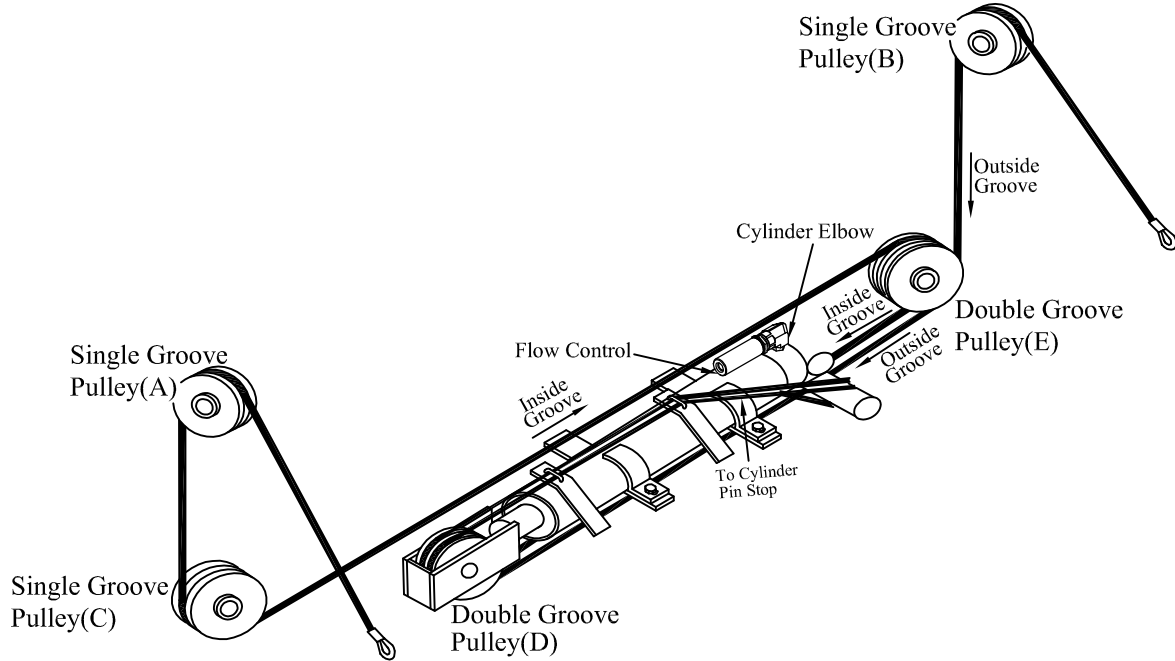
Step 15. Install the cable clamps. Pull the cables tightly through the cable clamps. Position both cable clamps evenly and tighten nuts on clamps. Again check cables for proper routing and clamp location.

CAUTION: Having one cable tighter than the other will cause one side of the subassembly and loading platform to close before the other, leading to premature failure of the cables. The cable clamps must not touch each other.

Step 16. Reconnect the liftgate's main power cable to the positive side of the battery or manually engage circuit breaker.

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- Step 17. Keep body parts out of the mainframe during liftgate operation. Stand clear of the loading platform. Raise and lower the liftgate checking for proper operation. The sub assembly and loading platform should close evenly. If not, lower the liftgate back to the ground and thighten the lift cable that lags the other.
- Step 18. Reinstall the box cover on the mainframe using the two 5/16" bolts removed in step 2.
- Step 19. The new cables will stretch with use and should be readjusted after a short period of use.



IMPORTANT: USE ONLY CABLES FURNISHED BY TOMMY GATE COMPANY.