

1964-72 HYDRAULIC ELECTRIC

All Models – Ford Mo. Co., General Motors
Chrysler & American Motors

►CHANGES, CAUTIONS, CORRECTIONS

►TOP LIFT CYLINDER CLEANING & LUBRICATING
CAUTION: At least twice yearly raise top fully and wipe exposed portion of each cylinder piston rod with cloth dampened in automatic transmission fluid. Exercise care so that fluid does not come in contact with any painted or trimmed body parts.

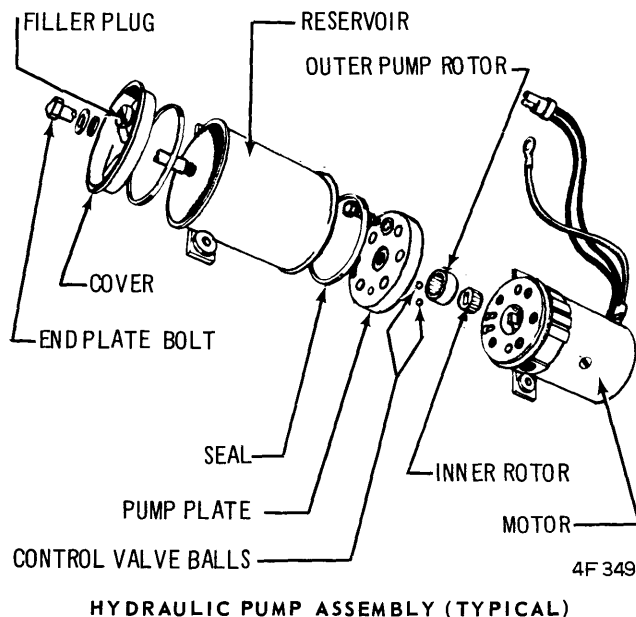
DESCRIPTION

Hydraulic-electric convertible top raising and lowering mechanisms consist of a reversible type electric motor connected directly to a hydraulic pump which supplies fluid under pressure to two double acting hydraulic cylinders. Motor and pump are accessible through luggage compartment or by removal of rear seat. Fluid reservoir is integral with pump and motor assembly.

HYDRAULIC SYSTEM

Checking Fluid Level

Fluid level is checked with top raised on G.M., Ford and American Motors (top down on Chrysler Prod.). Before removing fill plug to check level, place absorbent rags below reservoir to absorb any spillage. Fluid level should be at lower edge of filler plug hole. When adding fluid use type "A" "Dexron" automatic transmission fluid. On G.M. cars prior to 1968 use Delco No. 11 hydraulic brake fluid. After filling reservoir, raise and lower top several times to expel trapped air.



Replacing Fluid After Repairs

Cylinders and hydraulic system contain more fluid than one filling of reservoir will supply. Before filling system place absorbent material below reservoir to absorb any spillage. Check reservoir frequently during refilling of system. Air in system will automatically bleed out with a few operations of top.

Checking Hydraulic Pressures

Remove motor and pump assembly. Install plug in one port and pressure gauge in port to be checked. Actuate motor with an applied terminal voltage of 9.5-11.0 volts. Gauge should show pressure as specified below. Then check other port. **NOTE – A difference may exist in pressure readings for top of cylinders and for bottom of cylinders. This condition is acceptable if both readings are within the specified limits.** If pressure is not within the specified limits, unit is defective and should be repaired or replaced.

Hydraulic Pressure – General Motors, 340-380 lbs. American Motors, 350-450 lbs. All Others 240-280 lbs.

Lift Cylinder Operation Checks

Remove rear seat cushion and folding top compartment side panel assembly. Operate folding top control switch and observe lift cylinders during up and down cycles for these conditions:

- 1) If movement of cylinder rods is sluggish or not coordinated when motor is actuated, check hydraulic hoses from motor and pump to cylinders for kinks.
- 2) If one cylinder rod moves slower than the other, cylinder with slow moving rod is defective and should be replaced.
- 3) If both cylinder rods move slowly, or do not move at all, check pressure of pump (see above).

