

Electric Sunroof

1971-74 CHRYSLER CORP., FORD MOTOR CO., GENERAL MOTORS

DESCRIPTION

Sunroof is operated by a two position switch, operable with ignition switch on. When activated, sunroof moves down and retracts rearward, moving on guide rails to storage space between headlining and roof. Sunroof can be left partially open by releasing control switch at any position in either direction of travel.

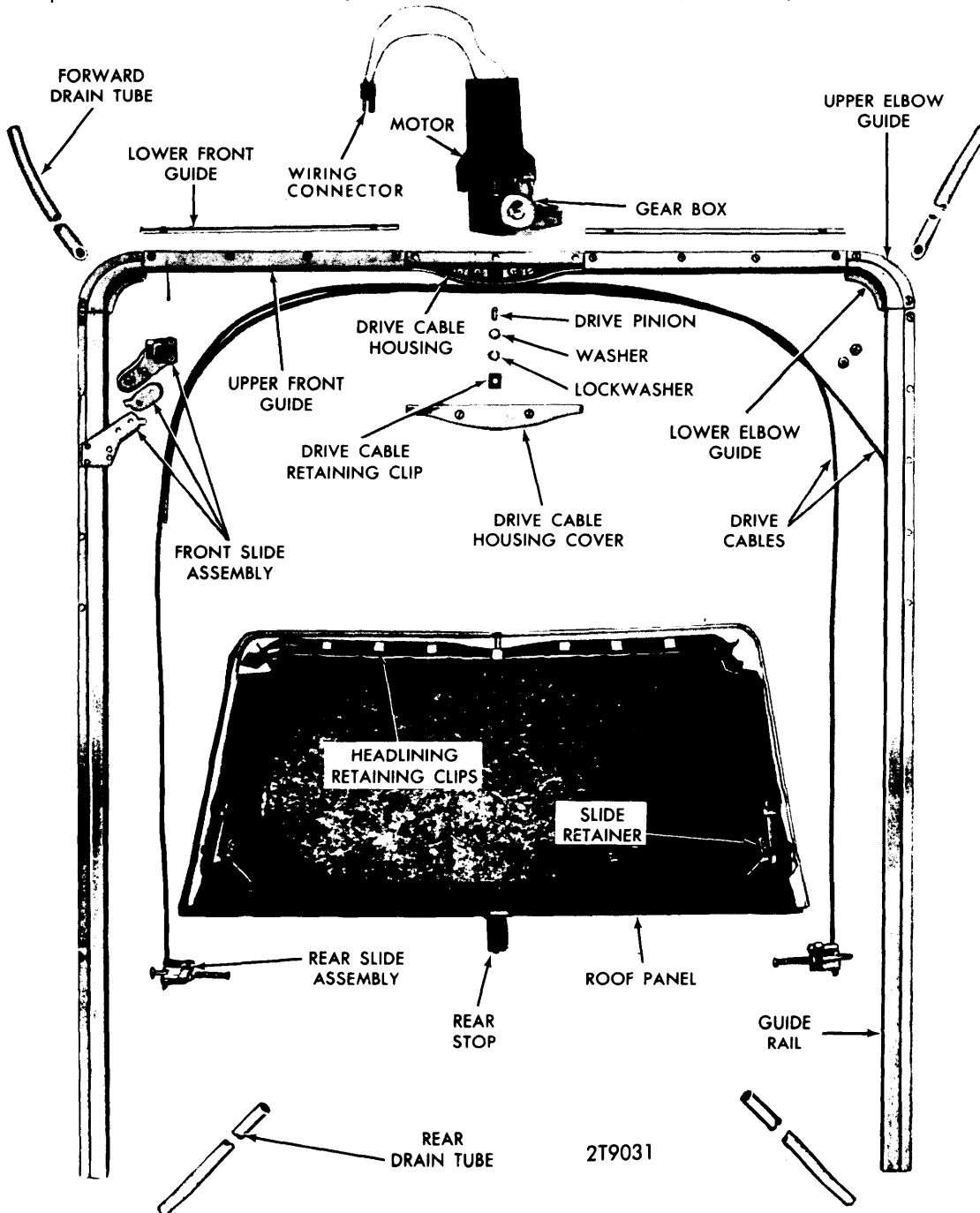
accessory junction block and ignition relay located on reinforcement at left shroud. Wiring is then routed from relay up through left pillar and across headliner to control switch.

Ford Motor Co. — Sun roof is actuated by a two-way electric motor mounted at center of windshield header area. Motor is operated by a two-way control switch on roof panel.

ELECTRICAL SYSTEM

General Motors — Electric power is supplied from a fuse mounted 40 ampere circuit breaker, then wiring leads to an

Chrysler Corp. — Sunroof is actuated by a two-way electric motor mounted near center of windshield header area. Motor and wiring are protected by a circuit breaker.



TYPICAL SUNROOF HARDWARE

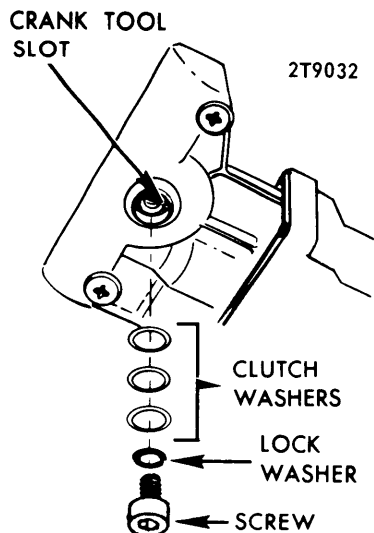
1971-74 CHRYSLER CORP., FORD MOTOR CO., GENERAL MOTORS (Cont.)

MANUAL OPERATION

Sunroof can be closed manually in the event of power failure as follows: Remove auxiliary drive cover (small round plug in center of headliner near front edge of roof opening) by grasping with fingers and pulling outward. Using hex head auxiliary crank tool, remove Allen screw from motor drive assembly noting number and type of washers removed with the screw. Screw and washers provide drive clutch adjustment. Insert threaded end of crank in socket in winding gear, and turn crank clockwise to close sunroof. After closing, install screw with washers in proper order, tighten screw securely and replace plug.

TROUBLE SHOOTING & ADJUSTING

Slipping Clutch – If motor spins and panel fails to close completely, slipping clutch in auxiliary drive requires adjustment. Remove auxiliary drive cover and tighten clutch adjusting screw. If tightening screw does not eliminate trouble, remove screw and add washer(s) supplied with operating handle in glove box. Be sure screw is tight.



CLUTCH SCREW & ADJUSTING WASHERS

Roof Panel Does Not Run True – Close roof panel to determine which side of panel jams. Open roof panel, remove drive housing center cover and pry off cable retaining clip. **CAUTION** – Clip is made of spring steel, hold hand over clip to prevent rapid spring up. To move right side of panel forward, lift right cable at front of pinion and pull it one or more teeth to the left. Install retaining clip and drive housing cover and check operation. To move left side of roof panel, perform similar operation on left cable. **CAUTION** – Do not accidentally move panel while cable is off pinion.

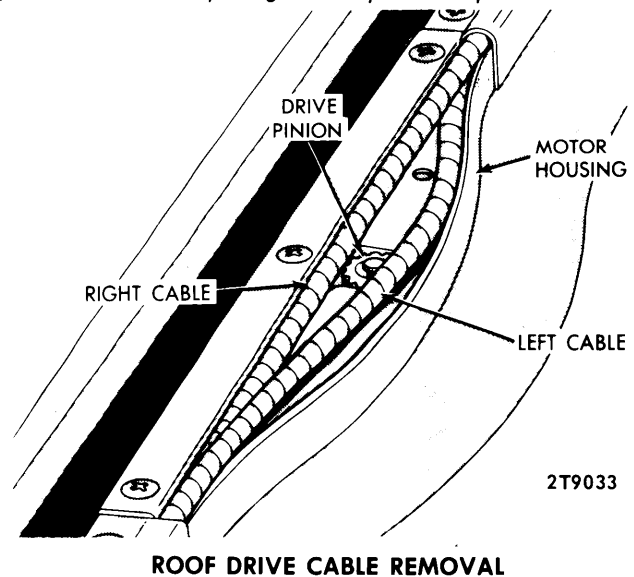
Cable Guide Alignment – If roof panel jams during operation, check both front corner lower cable guides for alignment with front and side guides. If necessary, shim lower corner guides for alignment with adjacent guides. If panel fails to rise, the joints of cable slides are out of alignment and are jamming cable drive. Loosen screws retaining guide rails, corner and connector rails, and cable drive

housing a few turns. Retighten screws one by one, continually activating the drive mechanism. Where necessary, realign those points where resistance is felt.

REMOVAL & INSTALLATION

MOTOR & DRIVE GEAR

General Motors – Open sunroof. Disconnect headlining trim lace across front of sunroof opening and remove windshield upper side garnish moldings. Remove drive pinion cover button and access hole trim. Carefully grip control switch bezel with fingers and pull switch out from retainer in headlining. Pull electrical connector through opening and disconnect wires. Carefully detach headlining across front of sunroof opening and windshield header. Remove front cable guide cover screws and safety header pad. Remove electrical connectors from motor and motor attaching screws. Remove motor from sunroof housing. To install motor, reverse removal procedure. **NOTE** – Before installing motor, check alignment of sunroof panel within roof opening and adjust as required.



Chrysler Corp. – Open sunroof about two inches. Remove outboard screw from each front guide shoe assembly. Open roof and remove headline panel. Loosen outboard guide shoe screw and rotate each front guide shoe assembly inboard to clear guide rail. Remove lifter pin out of panel by rotating 90°, and remove panel. Remove upper corner guides on each side. Remove motor housing plate. Remove cable retaining clip, place hand over clip to prevent rapid spring up. Remove cable from housing at gear. Working from the corner of the rails, remove cable from front rails. Once cable is removed from front rail, pull cable forward and remove complete assembly from track at corners. Remove motor housing cable guide. Remove all interior trim and moldings at header. Disconnect electrical lead from motor. Remove motor mounting screws, and remove motor from frame. To install, reverse removal procedure.

Ford Motor Co. – 1) Slide sunroof panel fully open and disconnect battery ground cable. Remove cable drive housing cover, drive cable retaining clip and disengage drive cables from pinion.

2) If only drive pinion is being replaced, remove snap ring flat washer and pinion from shaft. Install new pinion, secure with flat washer and snap ring. Re-engage cables to pinion, install retaining clip and cable drive housing cover.

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3) Remove both sun visor assemblies, center bracket, motor and drive assembly. Pull control switch down from roof and remove windshield upper and side garnish molding and rail garnish moldings. To install, reverse removal procedure.

SUNROOF SLIDING PANEL

General Motors — Open sunroof 8", remove headlining panel, then slide headlining into sunroof housing for stowage. Close sunroof panel. Remove outboard screw from each front guide shoe assembly. Loosen inboard guide shoe screw and rotate each front shoe inward to clear guide rail. Remove rear guide retainer plates, disconnect slide tension springs from rollers and pivot springs inward. Lift sliding roof panel front edge and pull out of roof opening. To install, reverse removal procedure.

Chrysler Corp. — Open sunroof 3", remove headlining panel, close sunroof and push headlining into sunroof stowage housing. Remove outboard screw from each front guide shoe, loosen inboard guide screw and rotate guide shoes inward to clear guide rail. Pull each lifter pin and cable assembly inward, and out of slide retainer hole in roof panel. Lift sunroof front edge, pull forward and out of roof opening. To install reverse removal procedure.

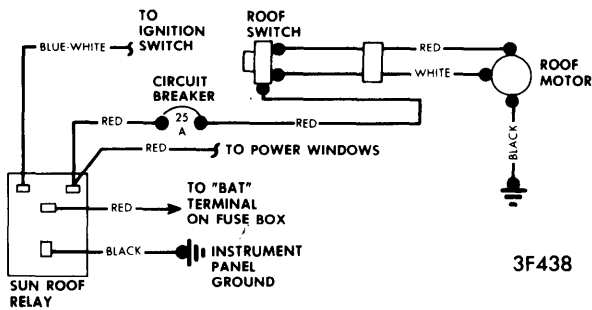
Ford Motor Co. — Open sunroof 3", remove headlining panel and slide into sunroof stowage housing. Remove outboard screw from each front guide shoe, loosen inboard screw and rotate guide shoes inward to clear guide rails. Pull both rear slide and cable assemblies out of guide retaining holes at rear

of panel. While lifting front edge of roof panel up, operate switch to move rear slide and cable assemblies forward on guide rails about 1"; disconnect both rear slides by moving inward against spring tension until slide pins are clear of retainers on sunroof panel. Then pull sunroof panel forward and out of roof opening. To install, reverse removal procedure.

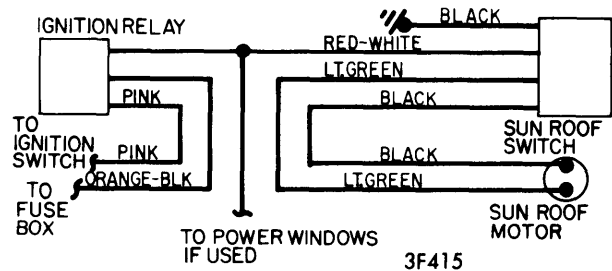
REAR SLIDE & CABLE ASSEMBLY

Ford Motor Co. & Chrysler Corp. — *NOTE* — If one cable is defective, replace both. This assures parallel travel of roof panel. Remove sunroof panel as previously outlined. Remove cable drive housing cover and both front upper elbow guides. Pry off drive cable retaining clip. *CAUTION* — Clip is made of spring steel, cover clip when removing. Lift one cable free end from drive gear engagement and pull through front rail toward corner. Pull cable and slide out from side rail guide at corner. Remove opposite cable in same manner. To install, reverse removal procedures.

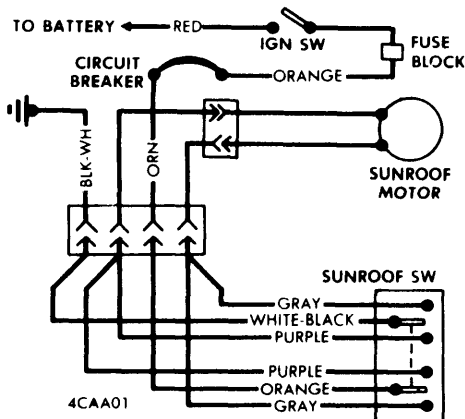
General Motors — *NOTE* — If one cable assembly is defective, replace both to assure sunroof parallel travel. Remove sliding sunroof as previously outlined. Disconnect trim lace and headlining at sides of sunroof opening. Working at top edge of sunroof opening, remove heads of two blind rivets. Remove screws securing each side guide rail and front stop. Remove six rivets and four screws securing front guide cover. Remove remainder of each rivet with a punch. Remove cable center guide (two bolts) and screws securing front guide. Disconnect side guide rail from front rail. Pull rear guide and cable assembly forward out of side rail. To install, reverse removal procedure.



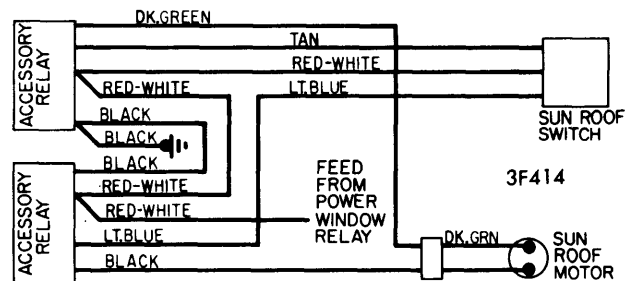
CHRYSLER SUNROOF WIRING DIAGRAM



CHEVELLE, MONTE CARLO, LeMANS, GRAND PRIX, CUTLASS, CENTURY, REGAL, SUNROOF WIRING DIAGRAM



1974 CADILLAC SUNROOF WIRING DIAGRAM



RIVIERA SUNROOF WIRING DIAGRAM