

DATSUN

200SX	510
210	810
280ZX	Pickup
310	

DESCRIPTION

All models have an instrument cluster that contains the main instrument assembly. This cluster can be removed with all the gauges installed. A combination switch on the steering column includes the wiper switch, lighting switch and turn signals. Other control switches are located on the instrument panel or console.

TROUBLE SHOOTING

Gauges Not Working

Blown fuse. Faulty voltage regulator. Loose sender connections. Defective sending unit. Loose connections in instrument cluster.

Warning Lights Not Working

Burned out bulb. Loose connections. Broken printed circuit. Defective sending unit.

Horn Not Working

Blown fuse. Faulty horn switch. Horn relay inoperative. Loose connection or open circuit. Defective horn.

TESTING

Use an ohmmeter to check sensor switch, and gauge operation as shown in "Datsun Switch and Gauge Testing" chart. If sensor, switch or gauge does not operate as described, replace it.

Datsun Switch & Gauge Testing	
Component	Test Result
Fuel Gauge	① With 32 ohm resistor reads half tank
Temperature Gauge	① With 116 ohm resistor reads 120°F (50°C)
Brake Fluid Sensor	Float raised, 250 ohms; float lowered, 0 ohms
Windshield Washer Sensor	Float raised, infinity; float lowered, 0 ohms
Coolant Sensor	Float raised, infinity; float lowered, 0 ohms
Stop Lamp Switch	Continuity with plunger in
Parking Brake Switch	Continuity with plunger out

① — Insert resistor between sender wire and ground.

REMOVAL & INSTALLATION

COMBINATION SWITCH

Removal (All Models) — Disconnect battery ground cable. Remove horn pad and steering wheel. Remove column covers. Unplug connectors, remove mounting screw and slide switch off column.

Installation — To install, reverse removal procedures.

INSTRUMENT PANEL ASSEMBLY

Removal (200SX) — 1) Disconnect battery ground cable. Remove steering wheel. Remove steering column covers and combination switch.

2) Remove cover below instruments and disconnect air duct. Remove lower left switch assembly. Remove 8 screws on console (2 inside rear ashtray). Slide box rearward. Remove parking brake handle. Lift console out.

3) Disconnect wiring at junction block. Disconnect speedometer cable and antenna. Remove heater control screws and 2 center floor bolts. Remove defroster grille. Remove 4 screws across top of panel and 2 screws at each end. Remove instrument panel assembly from vehicle.

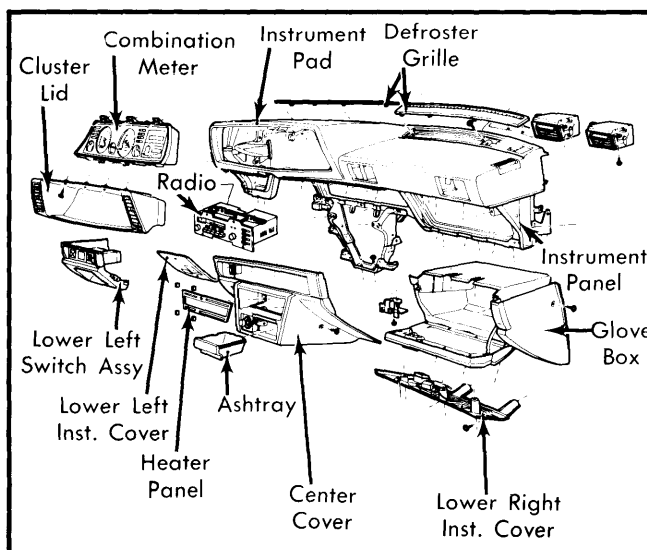


Fig. 1 Exploded View of 200SX Instrument Panel

Installation — To install, reverse removal procedure.

Removal (210) — 1) Disconnect battery ground cable. Remove steering wheel pad and wheel. Remove steering column cover. Remove panel light dimmer. Pull out heater knob and remove heater bezel. Remove heater screws.

2) Pull off radio knobs and remove shaft nuts. Pull out ashtray and remove holder screws. Remove 3 screws above instruments, 1 screw on each side of column (under dash) and 1 screw at left edge of panel. Unplug all wiring and speedometer cable.

3) Remove left half of instrument panel. Remove retaining screws and lift off combination meter assembly. Gauges can be removed after front bezel and mask are taken off.

Installation — To install, reverse removal procedure.

Removal (280ZX) — Disconnect battery ground cable. Remove horn pad, steering wheel and column covers. Remove combination switch. Remove lower instrument panel covers.

5-6 Switches, Gauges & Instrument Panels

DATSUN (Cont.)

2) Disconnect wiring harness for courtesy lamp. Unplug air conditioner vacuum tube. Remove console bracket covers. Remove 4 screws on each side of radio console and remove console. Remove center ventilation duct cover (5 screws).

3) Remove heater control screws. Disconnect speedometer cable at middle joint. Remove glove box cover and glove box. Remove plugs near windshield and remove 4 instrument panel screws. Remove panel bolts at outer edges. Disconnect wiring and pull panel back and out.

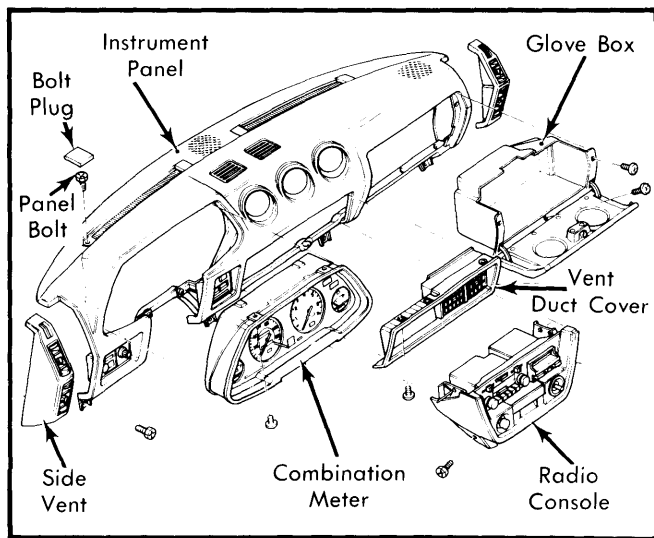


Fig. 2 Exploded View of 280ZX Instrument Panel

Installation – To install, reverse removal procedure.

Removal (310) – 1) Disconnect battery ground cable. Remove horn pad, steering wheel and column cover. Remove lower left cover. Disconnect speedometer cable. Unplug wiring harness connectors.

2) Remove choke knob and nut. Remove heater control knobs and heater control panel screws. Remove 2 bolts at each end of instrument panel. Remove 2 bolts below center of instrument panel.

3) Insert a thin wire between cluster lid and edge below windshield. Pull off cluster mask with wire. See Fig. 3. Remove bolts attaching center of panel to firewall. Remove steering column bracket bolts. Pull panel up and back to remove from vehicle.

Installation – To install, reverse removal procedure.

Removal (510) – 1) Disconnect battery ground cable. Remove steering column covers. Disconnect hazard warning switch. Remove wiper switch. Remove ashtray, heater knobs and heater panel bezel (carefully pry out).

2) Remove plug to left of glove box door. Remove radio knobs and nuts. Remove side defroster control knob. Remove cluster lid screws. See Fig. 4. Unplug wiring for center dash light, rear defogger, lighter, clock and turn signal switch. Remove left cluster lid. Disconnect speedometer cable and remove combination meter.

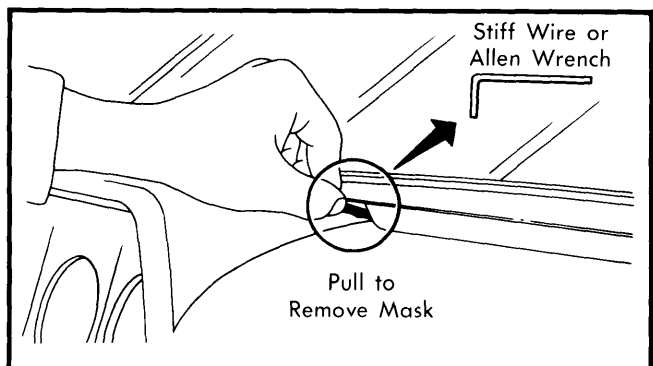


Fig. 3 Inserting Wire to Remove Instrument Panel Mask on 310

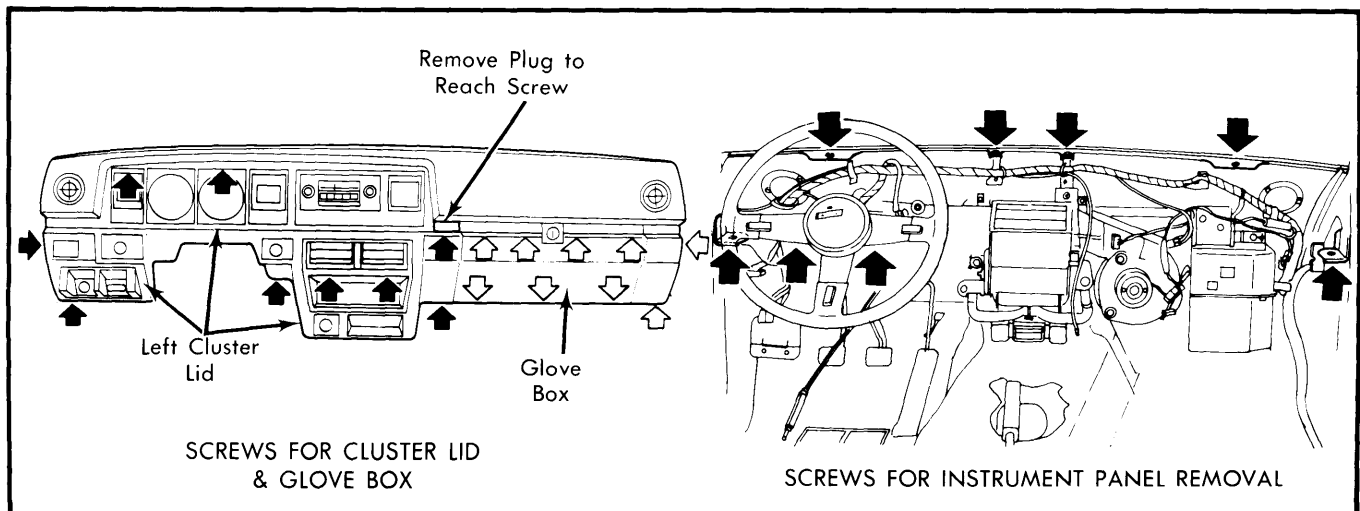


Fig. 4 Remove Screws from Locations Shown by Arrows to Remove Cluster Lid and Instrument Panel On 510

DATSUN (Cont.)

3) Open glove box and remove latch screw. Remove glove box screws and remove glove box. Disconnect antenna cable. Unplug instrument connectors at left end of dashboard.

4) Disconnect heater control cables. Unplug heater ground connector. Remove instrument panel mounting screws and remove panel.

Installation – To install, reverse removal procedure.

Removal (810) – **1)** Disconnect battery ground cable. Remove left lower cover. Remove fuse block and unplug wiring from junction block. Remove steering wheel. Remove column covers and combination switch.

2) Loosen tilt lever and lower column. Disconnect speedometer cable and antenna cable. Remove choke knob. Remove 5 screws under top edge of cluster pad and 2 screws at bottom ends. Remove pad and cluster bezel.

3) Open console box and remove mat. Remove screw inside box. Remove console. Remove heater control bezel. Remove heater panel screws and radio. Remove defroster grille and heater nozzle on left side. Remove mounting screws for instrument panel and removal panel.

Installation – To install, reverse removal procedure.

Removal (Pickup) – **1)** Disconnect battery ground cable. Remove steering column cover. Remove package tray (if equipped). Disconnect speedometer cable.

NOTE – Cluster lid and combination meter can be removed at this point if necessary.

2) Unplug wiring for center light, rear defogger, lighter, clock and turn signal switch. Remove 3 instrument panel top bolts (under plugs). Remove bolt above parking brake and bolt in glove box.

3) Remove 2 bolts at each end of instrument panel. Remove panel from vehicle.

Installation – To install, reverse removal procedure.

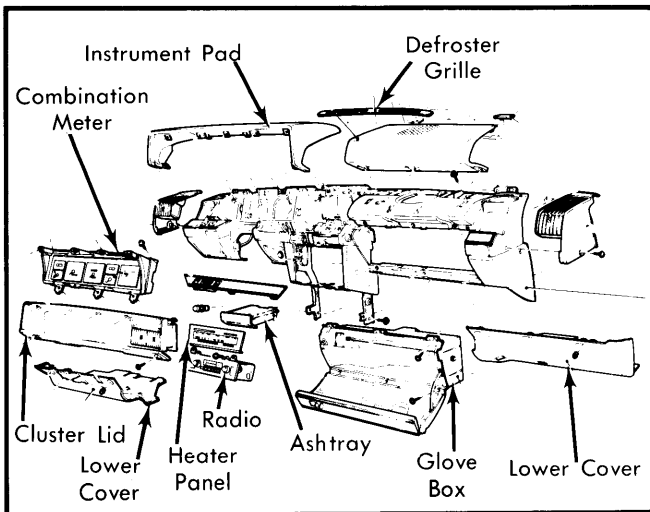


Fig. 5 Exploded View of 810 Instrument Panel Assembly