

Wiper/Washer Systems

TOYOTA

DESCRIPTION & OPERATION

All models have a 2-speed front wiper motor that operates the wipers through a linkage system. Most models are equipped with an intermittent feature on the front wiper system. A wiper control relay is used on those systems to allow the delayed wiping action.

All models except Pickup may be equipped with a rear wiper/washer system. Corona models have a rear wiper relay located at the rear wiper motor. The control switch for the front wiper/washer system is a steering column lever.

It is part of the combination switch but can be replaced separately on all models except Celica, Starlet and Tercel. All front wiper motors are protected by an internal circuit breaker. The rear wiper/washer system is controlled by a dash or console switch.

TESTING

FRONT WIPER MOTOR

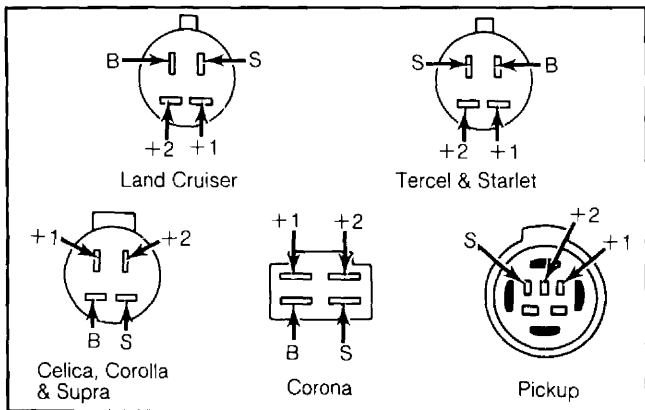
Pickup

Unplug connector at wiper motor. Use an ohmmeter to check for continuity between terminals "+1", "+2" and "S". If there is no continuity, replace motor. See Fig. 2.

All Other Models

1) Unplug connector at wiper motor. Use an ohmmeter to check continuity between motor case and ground. If not present, repair motor ground. Make sure motor is in park position, then check that continuity exists between terminals "+1", "+2" and "S". No continuity should exist between "B" and all other connector terminals. See Fig. 1.

Fig. 1: Front Wiper Motor Terminal Locations for Jumper Wires and Continuity Checks



Motor side of connector shown.

2) Turn ignition on. Use harness side of connector for this test. Battery voltage should be present at terminal "B". If not, check fuse and wiring.

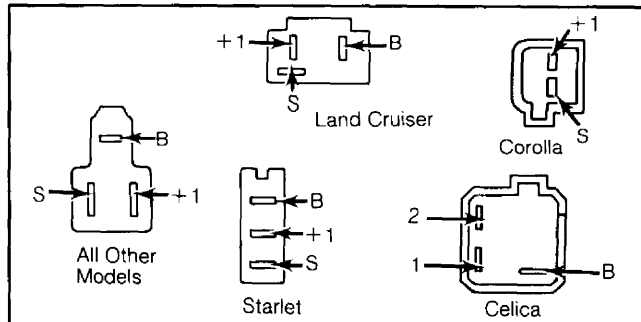
3) Connect a jumper wire from battery voltage to terminal "+1" on motor connector to run motor at low speed, and to terminal "+2" for high speed.

REAR WIPER MOTOR

1) Unplug connector at wiper motor. Use an ohmmeter to check for continuity between motor case and

ground. Be sure motor is in park position, then check for continuity between terminals "+1", "S" and ground. See Fig. 2.

Fig. 2: Rear Wiper Motor Terminal Locations for Jumper Wires and Continuity Check



Motor side of connector shown.

2) With ignition on, voltage should be present at terminal "B". Connect a jumper wire from battery voltage to motor connector terminal "+1" to check motor operation.

WIPER CONTROL RELAY

Ensure wiper system is operating correctly except for the intermittent wipers. Check that battery voltage is available at wiper relay. If voltage is available and intermittent wipers do not operate properly, replace relay.

WIPER CONTROL RELAY LOCATION

Model	Connector	Location
Celica	4-pin	Right kick panel
Corolla	4-pin	Right kick panel
Corona	4-pin	Left kick panel
Cressida	6-pin	Right kick panel
Land Cruiser	5-pin	Under instru. cluster
Pickup	4-pin	Right kick panel
Starlet	4-pin	Left corner of dash
Supra	9-pin	Right kick panel
Tercel	4-pin	Left kick panel

REMOVAL & INSTALLATION

FRONT WIPER MOTOR

NOTE: No procedures were available for Tercel models.

Removal (Pickup & Starlet)

Remove wiper arm shaft nuts and arms. Use screwdriver to pry wiper linkage from motor arm. Disconnect wiring and remove wiper motor. Scribe alignment marks on motor shaft and arm before removing arm. Remove pivot shaft nuts and remove linkage.

Installation

Grease linkage joints and install linkage and motor. Turn wipers on, then off. After motor has parked, install wiper arms.

Removal

(Corolla, Corona & Cressida)

1) Remove wiper arm shaft nuts and arms. Remove cowl grille panel and access covers. Disconnect

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Fig. 7: Cressida Wiper Wiring Diagram

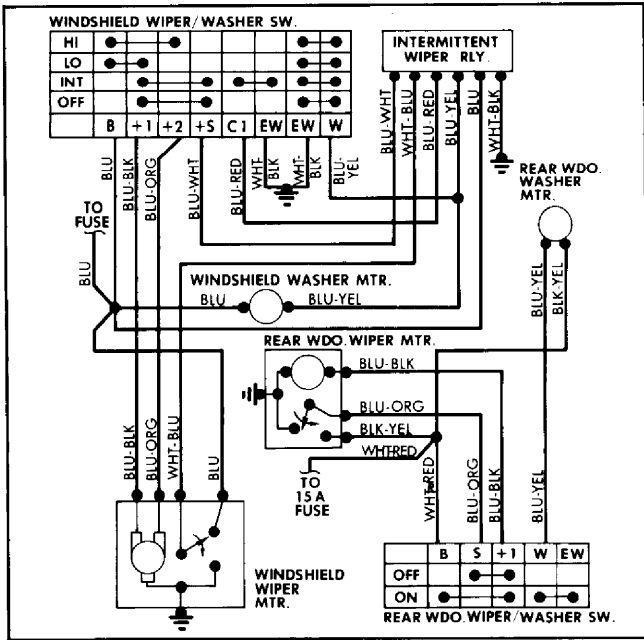


Fig. 9: Land Cruiser FJ60 Wiper Wiring Diagram

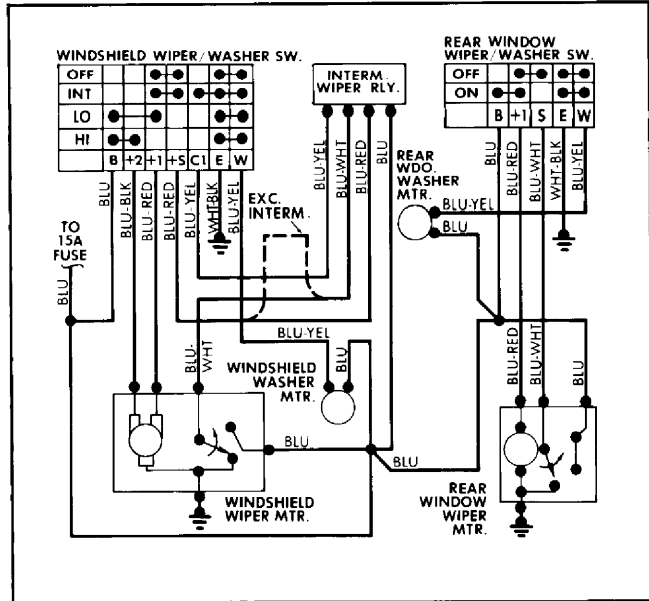


Fig. 8: Corona Wiper Wiring Diagram

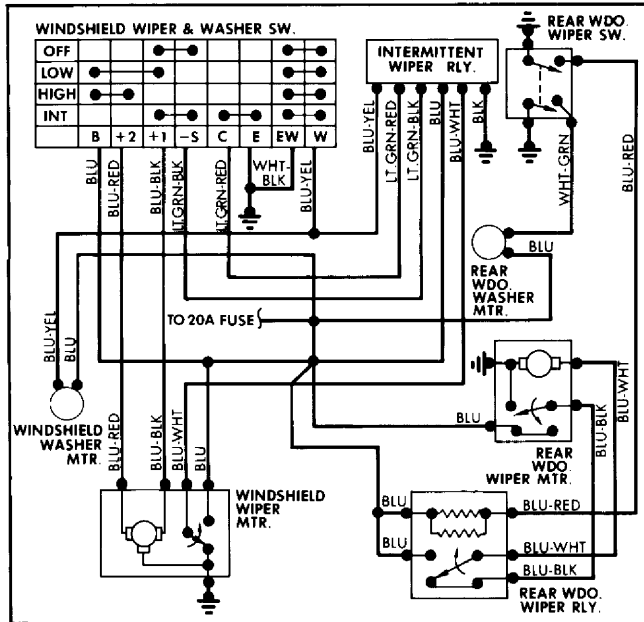
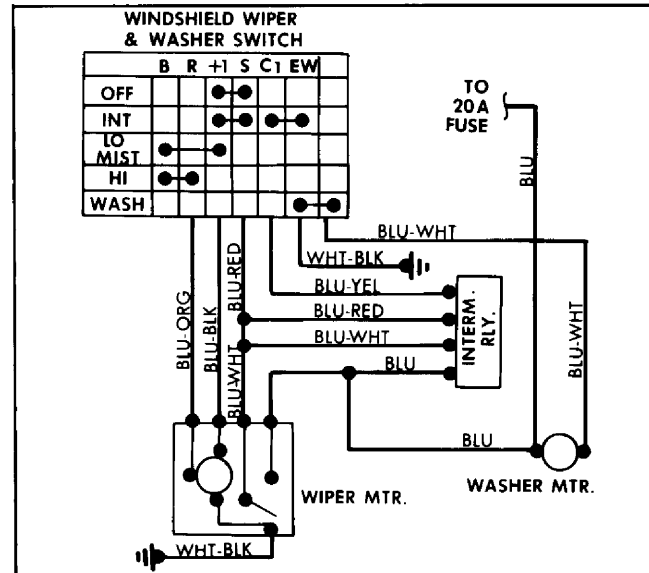


Fig. 10: Pickup Wiper Wiring Diagram



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Fig. 11: Starlet Wiper Wiring Diagram

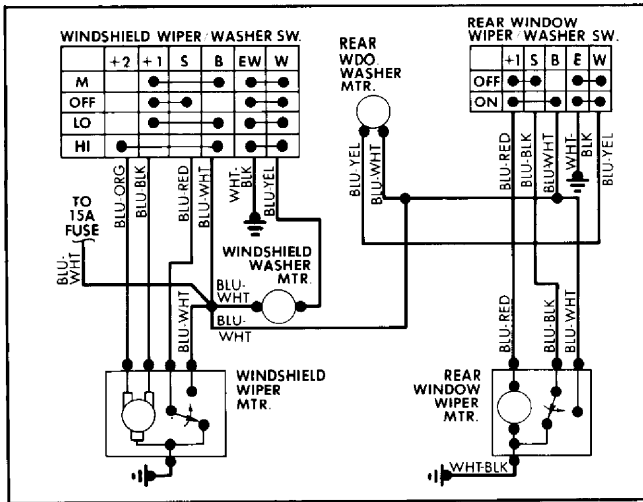


Fig. 13: Tercel Wiper Wiring Diagram

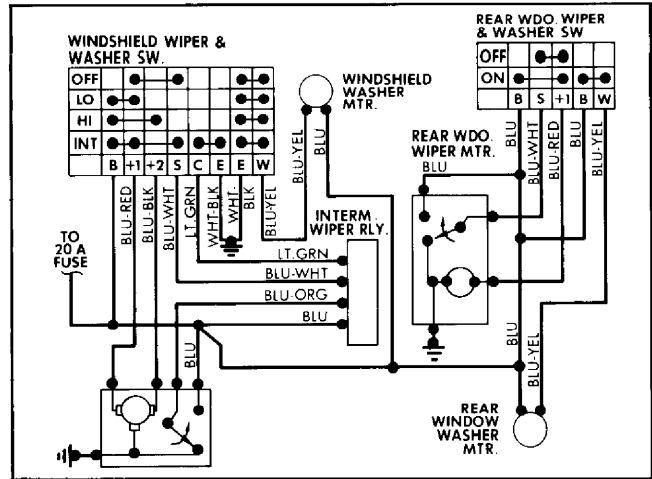


Fig. 12: Supra Wiper Wiring Diagram

