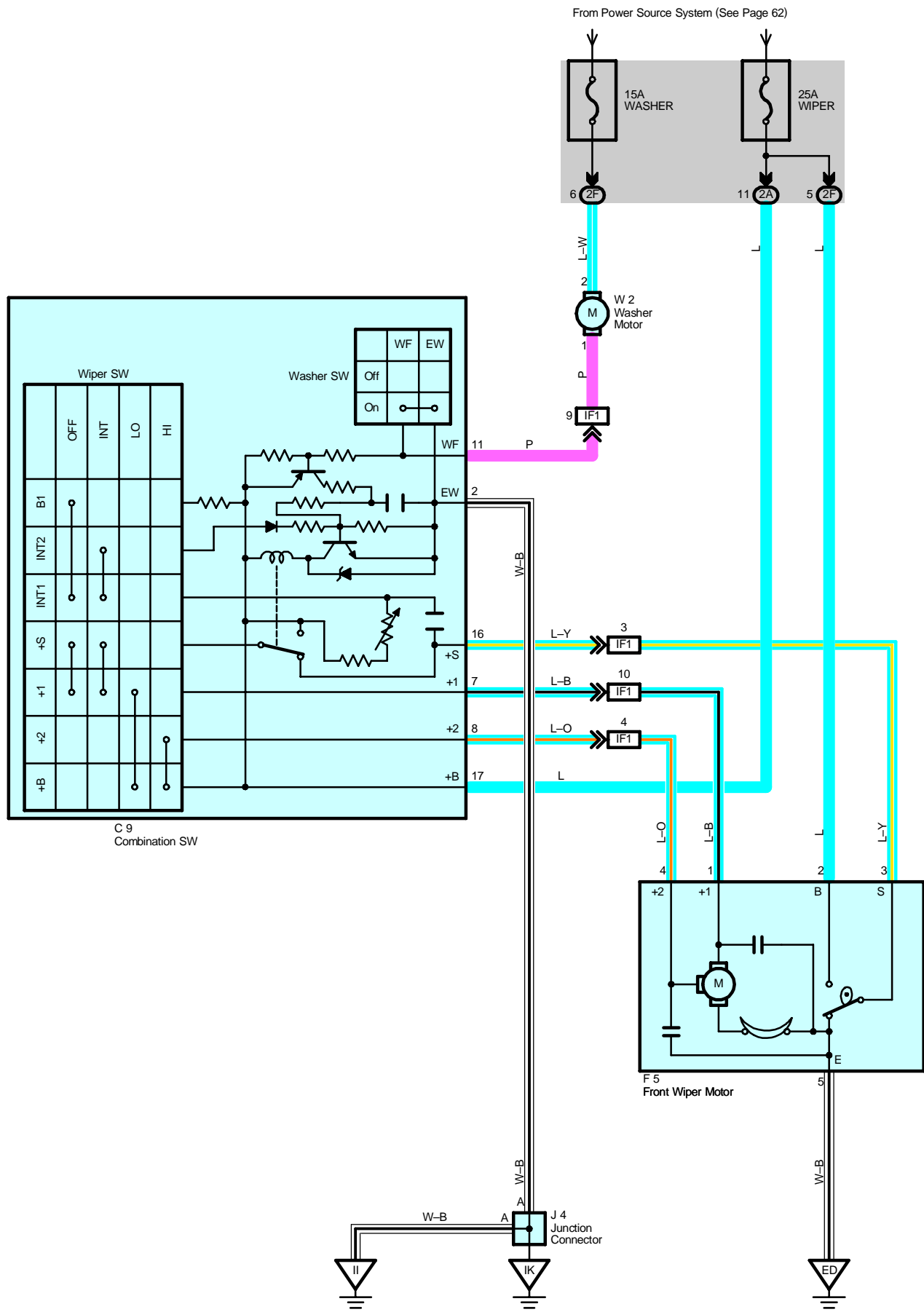


# Wiper and Washer



## System Outline

With the ignition SW turned on, the current flows to TERMINAL 17 of the wiper and washer SW and TERMINAL 2 of the front wiper motor through the WIPER fuse. The current flows to TERMINAL 2 of the washer motor through the WASHER fuse.

### 1. Low Speed Position

With the wiper and washer SW turned to LO position, the current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND and causes the front wiper motor to run at low speed.

### 2. High Speed Position

With the wiper and washer SW turned to HI position, the current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 8 to TERMINAL 3 of the front wiper motor to TERMINAL 4 to GROUND and causes the front wiper motor to run at high speed.

### 3. INT Position

With the wiper and washer SW turned to INT position, the wiper relay operates and current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 2 to GROUND. This activates the intermittent circuit and the current flows from TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND and the wiper operates. Intermittent operation is controlled by a condenser charge and discharge function in the relay.

### 4. Washer Continuous Operation

With the wiper and washer SW pulled to WASHER position (Washer SW ON position), the current flows from the WASHER fuse to TERMINAL 2 of the washer motor to TERMINAL 1 to TERMINAL 11 of the wiper and washer SW to TERMINAL 2 to GROUND and causes the washer motor to run and the window washer to spray. Simultaneously, current flows from the WIPER fuse to TERMINAL 17 of the wiper and washer SW to TERMINAL 7 to TERMINAL 5 of the front wiper motor to TERMINAL 4 to GROUND, causing the wiper to function.

## Service Hints

### C9 Combination SW

2-Ground : Always continuity

17-Ground : Approx. 12 volts with the ignition SW at ON position

7-Ground : Approx. 12 volts with the ignition SW on and the wiper and washer SW at LO position  
Approx. 12 volts every approx. 1 to 10 seconds intermittently with the ignition SW on  
and the wiper and washer SW at INT position

16-Ground : Approx. 12 volts with the ignition SW on and unless the front wiper motor at STOP position

8-Ground : Approx. 12 volts with the ignition SW on and the wiper and washer SW at HI position

### F5 Front Wiper Motor

1-2 : Closed unless the front wiper motor at STOP position

## ○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
C9	<a href="#">42</a>	F5	<a href="#">40 (2AZ-FE)</a>	W2	<a href="#">39 (1MZ-FE)</a>
F5	<a href="#">38 (1MZ-FE)</a>	J4	<a href="#">43</a>		<a href="#">41 (2AZ-FE)</a>

## □ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2A	<a href="#">28</a>	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
2F	<a href="#">28</a>	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)

## □ : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF1	<a href="#">52</a>	Engine Room Main Wire and Instrument Panel Wire (Right Side of Steering Column Tube)

## Wiper and Washer

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: Ground Points

Code	See Page	Ground Points Location
ED	<a href="#">48 (1MZ-FE)</a>	Left Fender
	<a href="#">50 (2AZ-FE)</a>	
II	<a href="#">52</a>	Cowl Side Panel LH
IK	<a href="#">52</a>	Instrument Panel Brace LH

