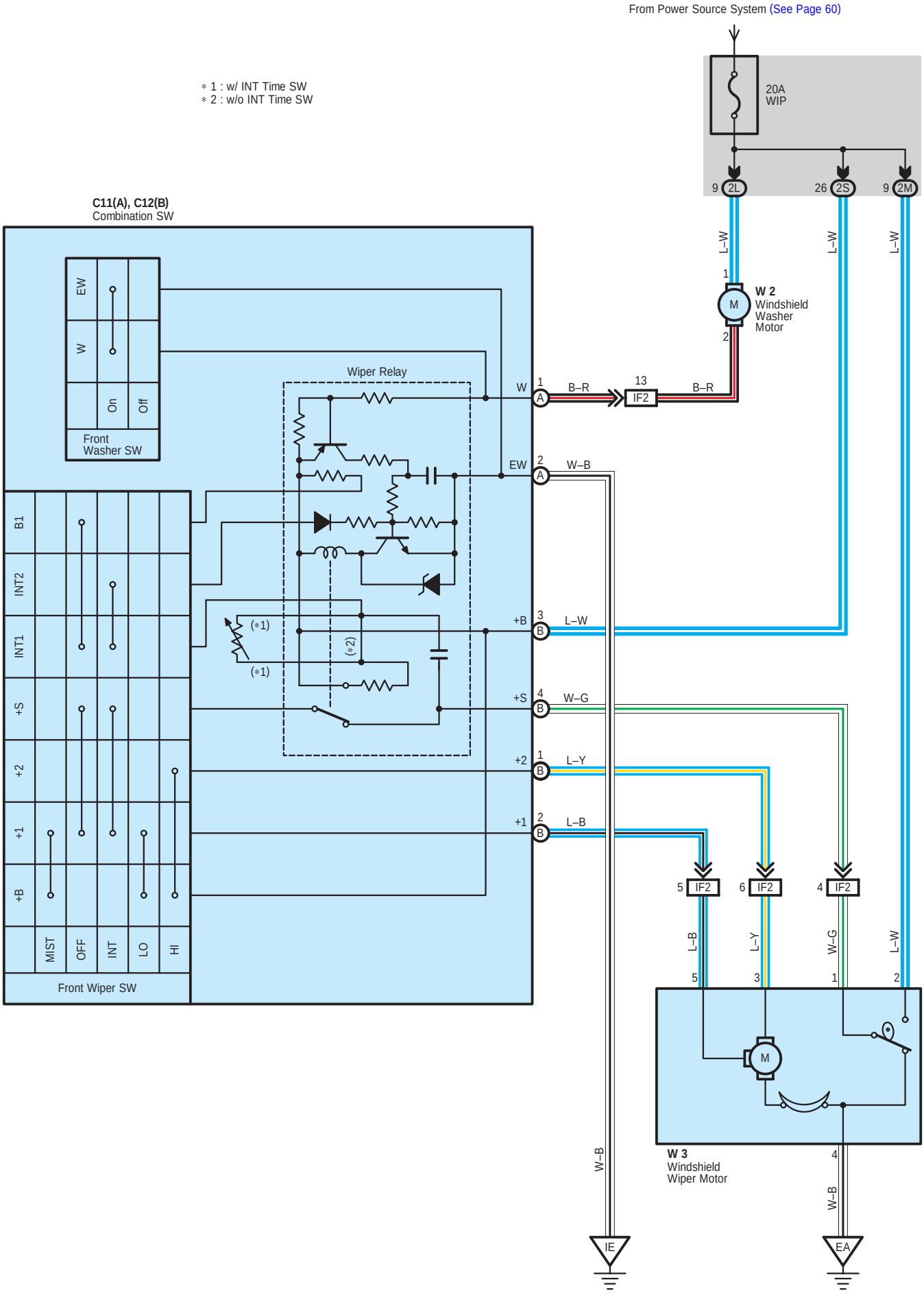
Front Wiper and Washer



System Outline

With the ignition SW turned on, the current flows to TERMINAL (B) 3 of the front wiper and washer SW, TERMINAL 1 of the windshield washer motor and TERMINAL 2 of the windshield wiper motor through the WIP fuse.

1. Low Speed Position

With the front wiper SW turned to LO position, the current flows from TERMINAL (B) 3 of the front wiper and washer SW to TERMINAL (B) 2 to TERMINAL 5 of the windshield wiper motor to TERMINAL 4 to GROUND and causes the windshield wiper motor to run at low speed.

2. High Speed Position

With the front wiper SW turned to HI position, the current flows from TERMINAL (B) 3 of the front wiper and washer SW to TERMINAL (B) 1 to TERMINAL 3 of the windshield wiper motor to TERMINAL 4 to GROUND and causes the windshield wiper motor to run at high speed.

3. INT Position

With the front wiper SW turned to INT position, the wiper relay operates and current flows from TERMINAL (B) 3 of the front wiper and washer SW to TERMINAL (A) 2 to GROUND. This activates the intermittent circuit and the current flows from TERMINAL (B) 3 of the front wiper and washer SW to TERMINAL (B) 2 to TERMINAL 5 of the windshield wiper motor to TERMINAL 4 to GROUND and the wiper operates.
The intermittent operation is controlled by the charge/discharge function of the condenser installed in the relay, and the intermittent time is controlled by a time control SW to change the charging time of the condenser (w/ INT time SW).
Intermittent operation is controlled by a condenser charge and discharge function in the relay (w/o INT time SW).

4. Mist Position

With the front wiper SW turned to MIST position, the current flows from TERMINAL (B) 3 of the front wiper and washer SW to TERMINAL (B) 2 to TERMINAL 5 of the windshield wiper motor to TERMINAL 4 to GROUND and causes the windshield wiper motor to run at low speed.

5. Washer Interlocking Operation

With the washer SW pulled to ON position, the current flows from the WIP fuse to TERMINAL 1 of the windshield washer motor to TERMINAL 2 to TERMINAL (A) 1 of the front wiper and washer SW to TERMINAL (A) 2 to GROUND and causes the windshield washer motor to run and the window washer to spray. Simultaneously, current flows from the WIP fuse to TERMINAL (B) 3 of the front wiper and washer SW to TERMINAL (B) 2 to TERMINAL 5 of the windshield wiper motor to TERMINAL 4 to GROUND, causing the wiper to function.

Service Hints

C11 (A), C12 (B) Combination SW

(A) 2–Ground : Always continuity
(B) 3–Ground : Approx. 12 volts with the ignition SW at ON position
(B) 2–Ground : Approx. 12 volts with the ignition SW on and the front wiper SW at LO or MIST position
Approx. 12 volts intermittently with the ignition SW on and the front wiper SW at INT position
(B) 4–Ground : Approx. 12 volts with the ignition SW on and unless the windshield wiper motor at STOP position
(B) 1–Ground : Approx. 12 volts with the ignition SW on and the front wiper SW at HI position

W3 Windshield Wiper Motor

2–1 : Closed unless the windshield wiper motor at STOP position

: Parts Location

Code		See Page	Code	See Page	Code	See Page
C11	A	38	W2	37		
C12	B	38	W3	37		

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
2L	28	Engine Room Main Wire and Driver Side J/B (Instrument Panel Brace RH)
2M		
2S	29	Instrument Panel Wire and Driver Side J/B (Instrument Panel Brace RH)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IF2	50	Engine Room Main Wire and Instrument Panel Wire (Behind the Driver Side J/B)

Front Wiper and Washer

▽ : **Ground Points**

Code	See Page	Ground Points Location
EA	46	Right Side of the Fender Apron
IE	48	Instrument Panel Reinforcement RH