



Wiring Diagram for Rear Wiper and Washer System

Legend:

- WR: Washer Relay
- C1R: Washer Control Relay
- +1R: Washer Power Relay
- EW: Washer Motor

Washer Control Switch (C15) States:

State	WR	C1R	+1R	EW
WASHER2	ON	OFF	OFF	ON
OFF	OFF	OFF	OFF	OFF
INT	OFF	ON	OFF	ON
ON	OFF	OFF	ON	ON
WASHER1	ON	OFF	ON	OFF

Wiring Details:

- Power Source:** 20A WIPER fuse (F11) provides power to the system.
- Washer Motor (W 2):** Connected to the washer control switch (C15) and the washer relay (WR).
- Washer Change Valve (W 1):** Controls the washer change valve, connected to the washer control switch (C15) and the washer relay (WR).
- Rear Wiper Motor (R19):** Connected to the rear wiper relay (R20) and the rear wiper control switch (C15).
- Relays:** The rear wiper relay (R20) and washer relay (WR) are controlled by the washer control switch (C15).
- Diodes:** D11 (Diode, Rear Washer) and D12 (Diode, Front Washer) are used for signal isolation.
- Wiring Paths:** The diagram shows the flow of power from the fuse block through various relays and switches to the motors and valves.

SYSTEM OUTLINE

WHEN THE IGNITION SW IS TURNED ON, THE CURRENT FLOWS TO **TERMINAL 2** OF THE WASHER MOTOR, **TERMINAL 1** OF THE WASHER CHANGE VALVE, **TERMINAL 1** OF THE REAR WIPER RELAY AND **TERMINAL 1** OF THE REAR WIPER MOTOR FROM THE **WIPER FUSE**.

1. REAR WIPER NORMAL OPERATION

WITH THE IGNITION SW TURNED ON AND THE REAR WIPER AND WASHER SW TURNED ON, THE CURRENT FROM **TERMINAL 1** OF THE REAR WIPER RELAY FLOWS TO **TERMINAL 6** OF THE RELAY → **TERMINAL 1** OF THE REAR WIPER AND WASHER SW → **TERMINAL 16** → **GROUND**. THUS, THE RELAY COIL IS ACTIVATED, AND THE CURRENT FROM **TERMINAL 1** OF THE RELAY FLOWS TO **TERMINAL 3** → **TERMINAL 3** OF THE REAR WIPER MOTOR → **TERMINAL 2** → **GROUND**, CAUSING THE MOTOR TO ROTATE TO OPERATE REAR WIPER.

2. REAR WIPER INTERMITTENT OPERATION

WITH THE IGNITION SW TURNED ON AND THE REAR WIPER AND WASHER SW TURNED TO **INT** POSITION, THE CURRENT FROM **TERMINAL 1** OF THE REAR WIPER RELAY FLOWS TO **TERMINAL 4** OF THE RELAY → **TERMINAL 10** OF THE REAR WIPER AND WASHER SW → **TERMINAL 16** → **GROUND**, AS A RESULT, THE RELAY OPERATES FOR APPROX. **6 - 10 SEC.**, AND THE CURRENT FLOWS FROM **TERMINAL 1** OF THE REAR WIPER RELAY TO **TERMINAL 3** → **TERMINAL 3** OF THE REAR WIPER MOTOR → **TERMINAL 2** → **GROUND**, CAUSING THE MOTOR TO ROTATE TO OPERATE THE REAR WIPER. AT THIS TIME, THE CONTACT IN THE WIPER MOTOR CLOSSES, AND THE CURRENT FLOWS FROM **TERMINAL 1** OF THE REAR WIPER MOTOR TO **TERMINAL 4** → **TERMINAL 2** OF THE REAR WIPER RELAY → **TERMINAL 3** → **TERMINAL 3** OF THE REAR WIPER MOTOR → **TERMINAL 2** → **GROUND**.

THUS, THE INTERMITTENT-STOP CURRENT OPERATES, THE CONDENSER IN THE CIRCUIT CHARGES AND THE WIPER CONTINUES TO OPERATE UNTIL REACHING THE **STOP** POSITION. AFTER THE WIPER STOPS, THE CURRENT DOES NOT FLOW TO THE INTERMITTENT-STOP CIRCUIT FROM **TERMINAL 2** OF THE RELAY, BUT THE CONDENSER DISCHARGES THE CURRENT INTO THE INTERMITTENT CIRCUIT AND THE CIRCUIT OPERATES UNTIL THE CONDENSER DISCHARGE ENDS. AS, A RESULT, THIS DISCHARGE INTERVAL BECOMES THE INTERMITTENT TIME.

WHEN THE CURRENT IS DISCHARGED COMPLETELY, THE CURRENT FROM **TERMINAL 1** OF THE RELAY FLOWS TO **TERMINAL 4** → **TERMINAL 10** OF THE REAR WIPER AND WASHER SW → **TERMINAL 16** → **GROUND**.

THEN, THE CURRENT FROM **TERMINAL 1** OF THE RELAY FLOWS TO **TERMINAL 3** → **TERMINAL 3** OF THE REAR WIPER MOTOR → **TERMINAL 2** → **GROUND**, ROTATING THE MOTOR. ACCORDING TO REPETITION OF THIS PROCESS, INTERMITTENT OPERATION OF THE REAR WIPER OCCURS.

3. WASHER OPERATION

WITH THE IGNITION SW TURNED ON AND THE REAR WIPER AND WASHER SW TURNED TO **ON** OR **INT** POSITION, WHEN THE WIPER SW IS PUSHED STRONGLY TOWARD THE **ON** OR **INT** SIDE, THE CURRENT FROM **TERMINAL 2** OF THE WASHER MOTOR FLOWS TO **TERMINAL 1** OF THE MOTOR → **TERMINAL 2** OF THE REAR WIPER SW → **TERMINAL 16** → **GROUND**, SO THAT THE WASHER MOTOR ROTATES AND THE WINDOW WASHER EMITS A WATER SPRAY, ONLY WHILE THE WIPER SW IS PRESSED. AT THE SAME TIME, THE WASHER CHANGE VALVE OPERATES.

WHEN THE CURRENT FLOWS TO THE WASHER CHANGE VALVE, THE WASHER CHANGE VALVE IS ACTIVATED AND WASHER EMITS A WATER SPRAY ON THE REAR WINDOW.

SERVICE HINTS

W2 WASHER MOTOR

2-GROUND : APPROX. **12** VOLTS WITH THE IGNITION SW AT **ON** POSITION

1-GROUND : CONTINUITY WITH THE WASHER SW TURNED ON

R20 REAR WIPER RELAY

1-GROUND : APPROX. **12** VOLTS WITH THE IGNITION SW AT **ON** POSITION

4-GROUND : CONTINUITY WITH THE REAR WIPER SW AT **INT** POSITION

6-GROUND : CONTINUITY WITH THE REAR WIPER SW AT **ON** POSITION



: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C15	24	J 7	25	W 1	23
D11	24	R19	27	W 2	23
F11	25	R20	27		



: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
EA4	30	COWL WIRE AND ENGINE ROOM MAIN WIRE (RIGHT FENDER)
ID1	32	COWL WIRE AND FLOOR NO. 1 WIRE (LEFT KICK PANEL)
BR1	34	LUGGAGE ROOM NO. 1 WIRE AND FLOOR NO. 1 WIRE (LEFT QUARTER PANEL INNER)
BR2		
BS1	34	BACK DOOR NO. 1 WIRE AND LUGGAGE ROOM NO. 1 WIRE (LEFT REAR SIDE OF ROOF)
BS2		
BT1	36	BACK DOOR NO. 1 WIRE AND BACK DOOR NO. 2 WIRE (BACK DOOR LEFT)
BT2		



REAR WIPER AND WASHER



: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
ID	32	LEFT KICK PANEL
BF	34	UNDER THE CENTER CONSOLE BOX



: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 2	32	COWL WIRE	I12	32	COWL WIRE
I 7			I20		

