

Rear Climate Control Module

	Pin	Description and Characteristic
I	RA1-1	REAR MODE SERVO POSITION SENSOR SIGNAL, NOMINAL 0 – 5 V: CLOSED DIRECTION = LOWER VOLTAGE; OPEN DIRECTION = HIGHER VOLTAGE
I	RA1-2	LH REAR AIR MIX SERVO POSITION SENSOR SIGNAL, NOMINAL 0 – 5 V: CLOSED DIRECTION = LOWER VOLTAGE; OPEN DIRECTION = HIGHER VOLTAGE
I	RA1-3	RH REAR AIR MIX SERVO POSITION SENSOR SIGNAL, NOMINAL 0 – 5 V: CLOSED DIRECTION = LOWER VOLTAGE; OPEN DIRECTION = HIGHER VOLTAGE
O	RA1-6	MAGNETIC VALVE OUTPUT SIGNAL
C	RA1-8	CAN +
I	RA1-9	REAR EVAPORATOR TEMPERATURE SENSOR SIGNAL, NOMINAL 0 – 5 V: NTC SENSOR – VOLTAGE DECREASES AS TEMPERATURE INCREASES
SS	RA1-11	SENSOR SIGNAL SUPPLY VOLTAGE: NOMINAL 5 V
SG	RA1-12	SENSOR SIGNAL GROUND: GROUND
I	RA1-13	BLOWER MOTOR SPEED SIGNAL: HIGH BLOWER = HIGH VOLTAGE; LOW BLOWER = LOW VOLTAGE
O	RA1-14	BLOWER MOTOR DRIVE SIGNAL: 0 VOLTS WHEN RELAY IS OPEN; WHEN RELAY CLOSED, LOWER VOLTAGE INDICATES MORE BLOWER VOLTAGE
C	RA1-16	CAN –
PG	RA2-1	POWER GROUND: GROUND
I	RA2-3	DIMMER CONTROLLED LIGHTING: B+ PWM
O	RA2-4	REAR MODE SERVO DRIVE +: B+ WHEN ACTIVATED
O	RA2-5	REAR MODE SERVO DRIVE -: B+ WHEN ACTIVATED
O	RA2-6	LH REAR AIR MIX SERVO DRIVE +: B+ WHEN ACTIVATED
B+	RA2-7	IGNITION SWITCHED POWER SUPPLY (I): B+
B+	RA2-8	SWITCHED SYSTEM POWER SUPPLY: B+
O	RA2-10	RH REAR AIR MIX SERVO DRIVE -: B+ WHEN ACTIVATED
O	RA2-11	RH REAR AIR MIX SERVO DRIVE +: B+ WHEN ACTIVATED
O	RA2-12	LH REAR AIR MIX SERVO DRIVE -: B+ WHEN ACTIVATED

NOTE: Refer to the Appendix at the rear of this book for Network Messages.

Fig. 06.3

COMPONENTS

Component	Connector(s)	Connector Description	Location
MAGNETIC VALVE	RA11	UNKNOWN	REAR CLIMATE CONTROL UNIT
REAR AIR MIX SERVO – LH	RA7	5-WAY / BLACK	REAR CLIMATE CONTROL UNIT / LH SIDE / TOP
REAR AIR MIX SERVO – RH	RA8	5-WAY / BLACK	REAR CLIMATE CONTROL UNIT / RH SIDE / TOP
REAR BLOWER	RA4	2-WAY / BLACK	REAR CLIMATE CONTROL UNIT / FRONT
REAR BLOWER CONTROLLER	RA3	4-WAY / BLACK	REAR CLIMATE CONTROL UNIT / LH SIDE / FRONT
REAR CLIMATE CONTROL MODULE	RA1	16-WAY / BLACK	REAR CENTER CONSOLE
	RA2	12-WAY / BLACK	
REAR EVAPORATOR TEMPERATURE SENSOR	RA10	2-WAY / BLACK	REAR CLIMATE CONTROL UNIT / EVAPORATOR
REAR MODE SERVO	RA9	5-WAY / BLACK	REAR CLIMATE CONTROL UNIT / LH SIDE / BOTTOM

HARNES IN-LINE CONNECTORS

Connector	Connector Description / Location	Location
IP66	14-WAY / GREY / INSTRUMENT PANEL HARNESS TO REAR AIR CONDITIONING HARNESS	CABIN / BELOW CENTER CONSOLE

GROUNDS

Ground	Location
G32	CABIN / BEHIND INSTRUMENT CLUSTER

FOR CONTROL MODULE PIN-OUT INFORMATION, UNFOLD PAGE TO LEFT.

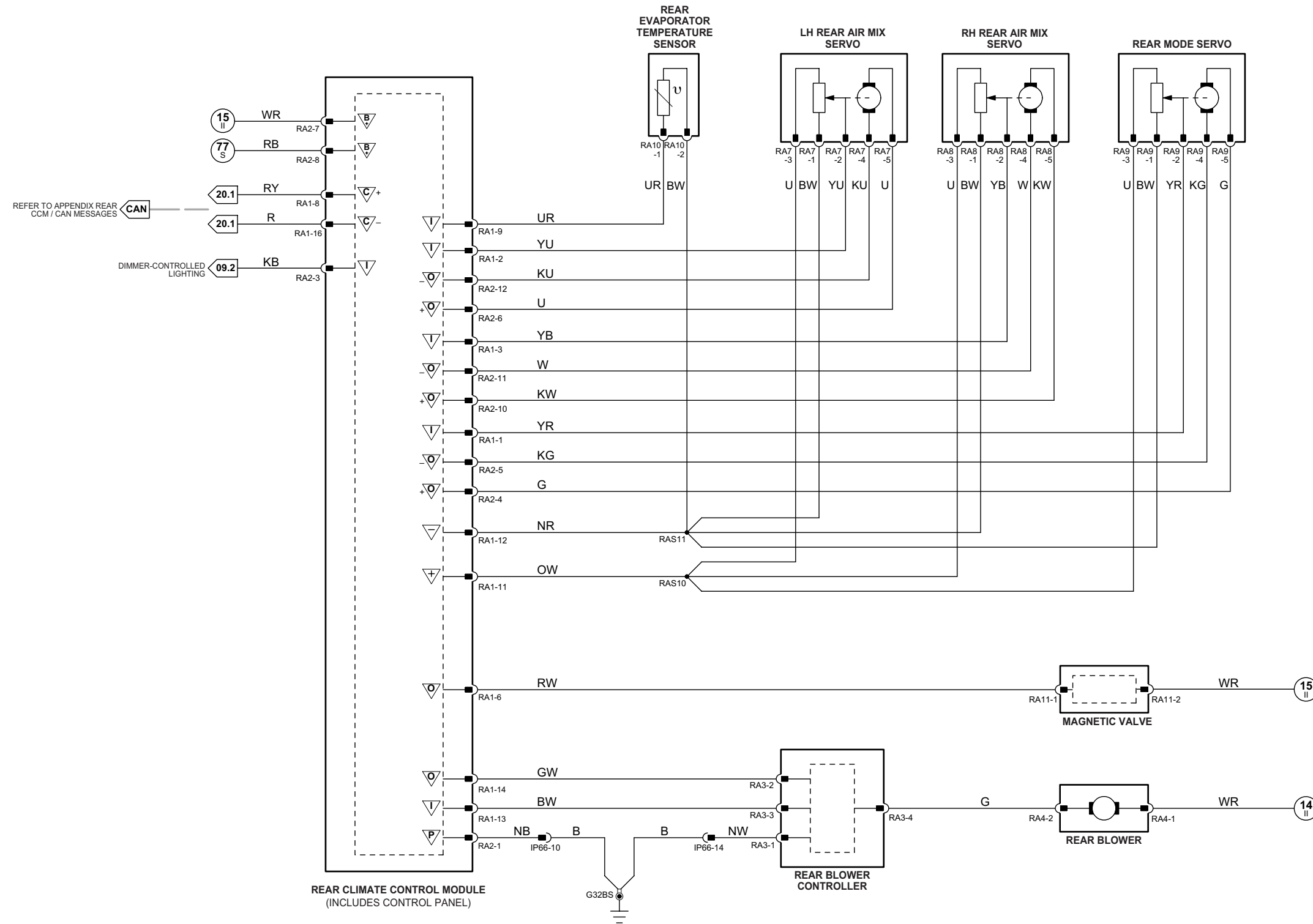
The following abbreviations are used to represent values for Control Module Pin-Out data

I	Input	PG	Power Ground	C	CAN Network	D	Serial and Encoded Data
O	Output	SS	Sensor / Signal Supply V	S	SCP Network	V	Voltage (DC)
B+	Battery Voltage	SG	Sensor / Signal Ground	D2	D2B Network	PWM	Pulse Width Modulated

CAUTION: The information on this data page is furnished to aid the user in understanding circuit operation. THIS INFORMATION SHOULD BE USED FOR REFERENCE ONLY.

NOTE: The values listed are approximately those that can be expected at the control module connector pins with all circuit connections made and all components connected and fitted.

Refer to the front of this book for detailed information and illustrations regarding the location and identification of harnesses, relays, fuses, grounds, control modules and control module pins.



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1 → 6 Fig. 01.1	64 → 95 Fig. 01.3	16 → 52 Fig. 01.5	78 → 105 Fig. 01.7	Input	Battery Voltage	Sensor/Signal Supply V	ACP	SCP
7 → 63 Fig. 01.2	1 → 15 Fig. 01.4	53 → 77 Fig. 01.6	106 → 143 Fig. 01.8	Output	Power Ground	Sensor/Signal Ground	CAN	Serial and Encoded Data

VARIANT: Rear Climate Control Vehicles
 VIN RANGE: All
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