



Legend to be used :

B+ = Battery Voltage

v = Voltage

0 v = Ground Signal

OL = Open Loop

N/A = Not Applicable - Do not attempt to check signals with multimeter



**\*\*FOR REFERENCE USE ONLY - CONSULT SERVICE MANUAL BEFORE ATTEMPTING A REPAIR\*\***

## Ramp Module (Input Signals)

### Wire Colors

Door Closed, Ramp Stowed, Kneel Up  
 Door Open, Ramp Stowed, Kneel Up  
 Door Open, Ramp Deployed, Kneel Up  
 Door Open, Ramp Deployed, Kneel Down



Signal	Pin 2	Pin 7	Pin 9	Pin 10	Pin 14
Door Closed, Ramp Stowed, Kneel Up	0 v	B+	OL	0 v	0 v
Door Open, Ramp Stowed, Kneel Up	0 v	B+	OL	0 v	0 v
Door Open, Ramp Deployed, Kneel Up	0 v	B+	0 v	OL	0 v
Door Open, Ramp Deployed, Kneel Down	0 v	B+	0 v	OL	0 v

## Ramp Module (Output Signals)

### Wire Colors

Ramp Deploying (In motion)  
 Ramp Stowing (In motion)



Signal	Pin 1	Pin 8
Ramp Deploying (In motion)	0 v	B+
Ramp Stowing (In motion)	B+	0 v

## Kneel Module (Input Signals)

### Wire Colors

Door Closed, Ramp Stowed, Kneel Up  
 Door Open, Ramp Stowed, Kneel Up  
 Door Open, Ramp Deployed, Kneel Up  
 Door Open, Ramp Deployed, Kneel Down  
 \*\*Kneel Switch on, Pin 11 will be 0 v\*\*



Signal	Pin 1	Pin 5	Pin 8	Pin 9	Pin 10	Pin 11
Door Closed, Ramp Stowed, Kneel Up	B+	0 v	0 v	OL	0 v	**0 v**
Door Open, Ramp Stowed, Kneel Up	B+	0 v	0 v	OL	0 v	**0 v**
Door Open, Ramp Deployed, Kneel Up	B+	0 v	0 v	OL	0 v	**0 v**
Door Open, Ramp Deployed, Kneel Down	B+	0 v	0 v	0 v	OL	**0 v**

## Kneel Module (Output Signals)

### Wire Colors

Kneel Lowering (In Motion)  
 Kneel Raising (In Motion)

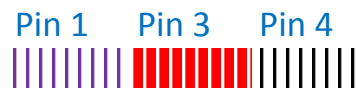


Signal	Pin 7	Pin 14
Kneel Lowering (In Motion)	B+	0 v
Kneel Raising (In Motion)	0 v	B+

## Conversion Controller (Input Signals)

### Wire Colors

Controller Asleep  
 Controller Awake - No Operation  
 Controller Awake - Operation Occurring  
 \*\*Measured with battery voltage 12.57v\*\*

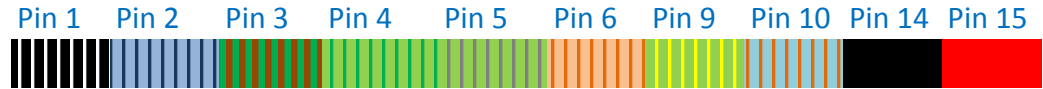


Signal	Pin 1	Pin 3	Pin 4
Controller Asleep	11.73 v	B+	0 v
Controller Awake - No Operation	11.66 v	B+	0 v
Controller Awake - Operation Occurring	10.61 v - 10.81 v **	B+	0 v

## Sir Terminator

### (Signals)

Wire Colors (Drv Side)



	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 9	Pin 10	Pin 14	Pin 15
Driver Seat Plugged In	0 v	.76-.84v	10.85v*	N/A	N/A	0 v	N/A	N/A	0 v	B+
Driver Seat Unplugged	OL	.17-.22v	0 v	N/A	N/A	0 v	N/A	N/A	0 v	B+

\*Pin 3 will have voltage when seatbelt is unbuckled --- signal goes to ground when buckled\*

## Sir Terminator

### (Signals)

Wire Colors (Pass Side)



	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 9	Pin 10	Pin 14
Pass Seat Plugged In	0 v	.76-.84v	10.85v*	N/A	N/A	0 v	N/A	N/A	0 v
Pass Seat Unplugged	OL	.17-.22v	0 v	N/A	N/A	0 v	N/A	N/A	0 v

\*Pin 3 will have voltage when seatbelt is unbuckled --- signal goes to ground when buckled\*

## Gateway Module (Input Signals)

Wire Colors



	Pin 1	Pin 2	Pin 3	Pin 5
Gateway Module Awake	2.3-2.6v	2.3-2.6v	0 v	B+

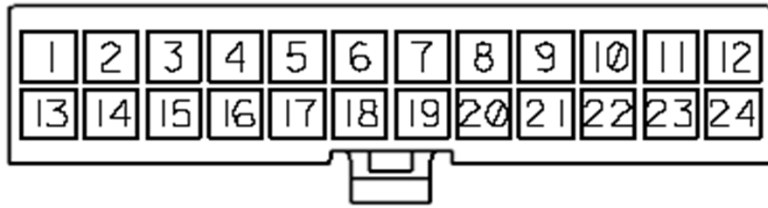
## Gateway Module (Output Signal)

Wire Color

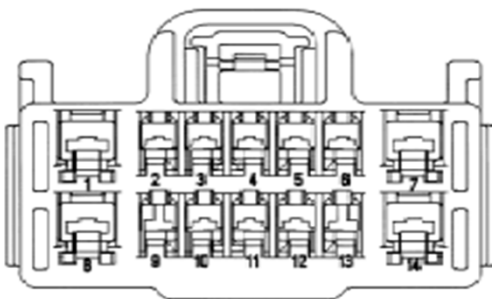


Gateway Module Awake, Operation occurring	10.61v - 10.81v**
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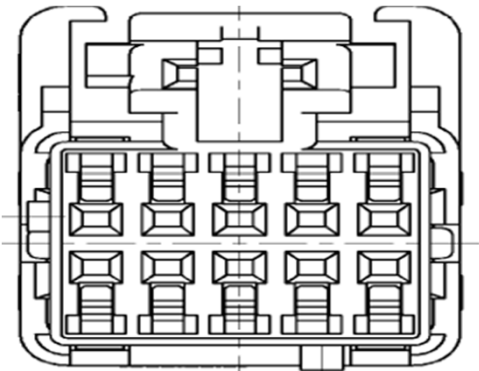
\*\*Measured with vehicle battery voltage 12.57v\*\*



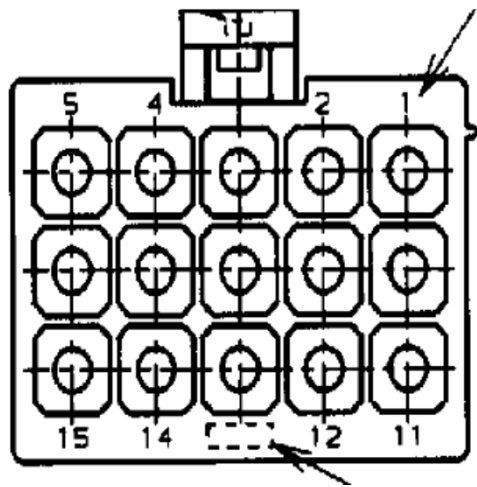
**CONVERSION CONTROLLER**



**RAMP/KNEEL MODULES**



**GATEWAY MODULE**



**SIR TERMINATOR**