

Integrated Control Unit (Without Daytime and Dim-Dip Light)

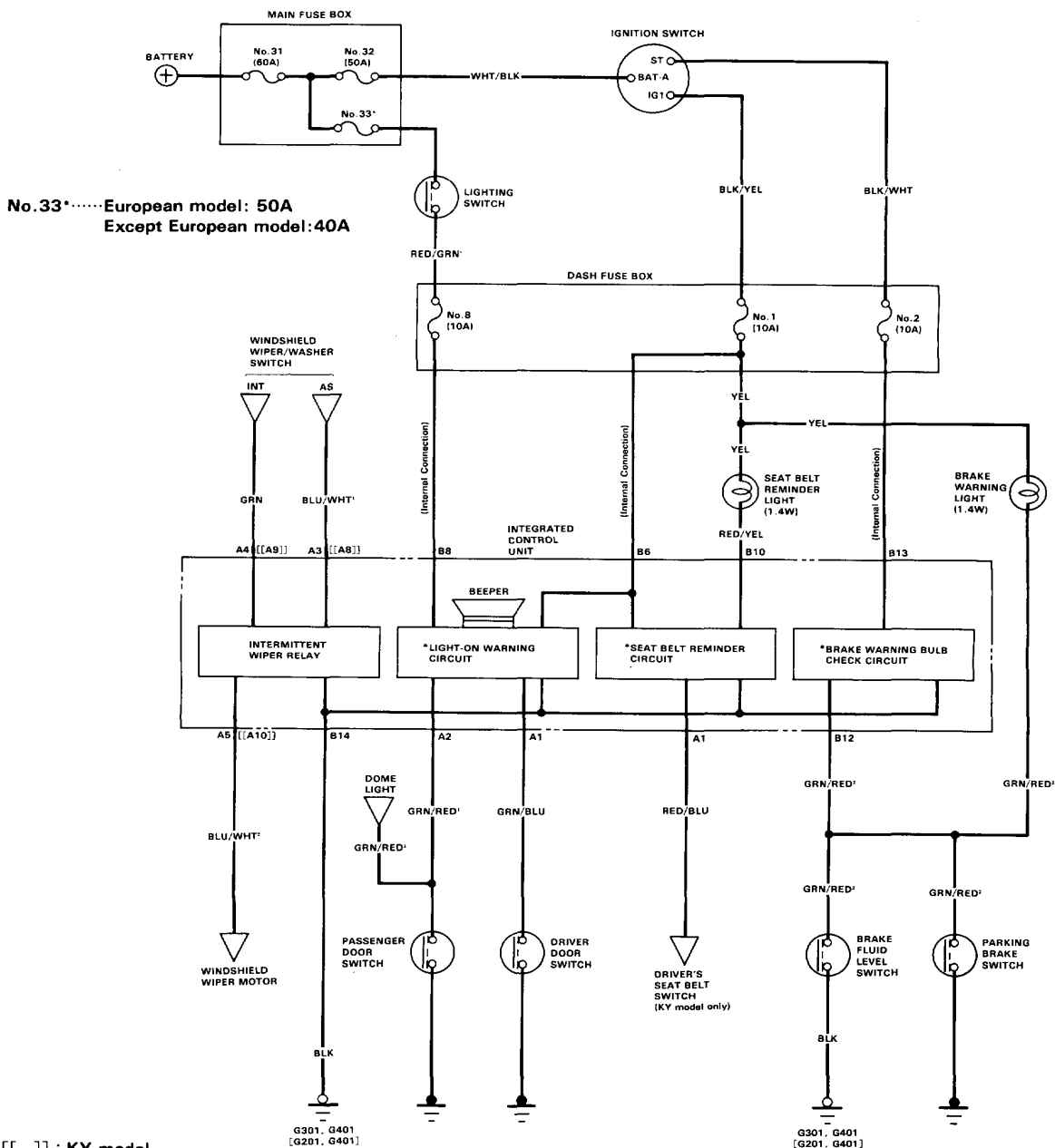


Circuit Diagram

Description:

A multi function control unit located under the driver side of the dashboard, integrates the function of brake warning bulb check circuit (KQ model only), seat belt reminder (KY model only), light-on warning circuit (Except KY model) and intermittent wiper relay circuit onto one circuit board, sharing common circuit functions.

NOTE: Several different wires have the same color. They have been given a number suffix to distinguish them (for example GRN/RED¹ and GRN/RED² are not the same).



[[]]: KY model

[]: RHD

- * Light-on Warning Circuit: (Except KY model)
- * Seat Belt Reminder Circuit: (KY model only)
- * Brake Warning Bulb Circuit: (KQ model only)

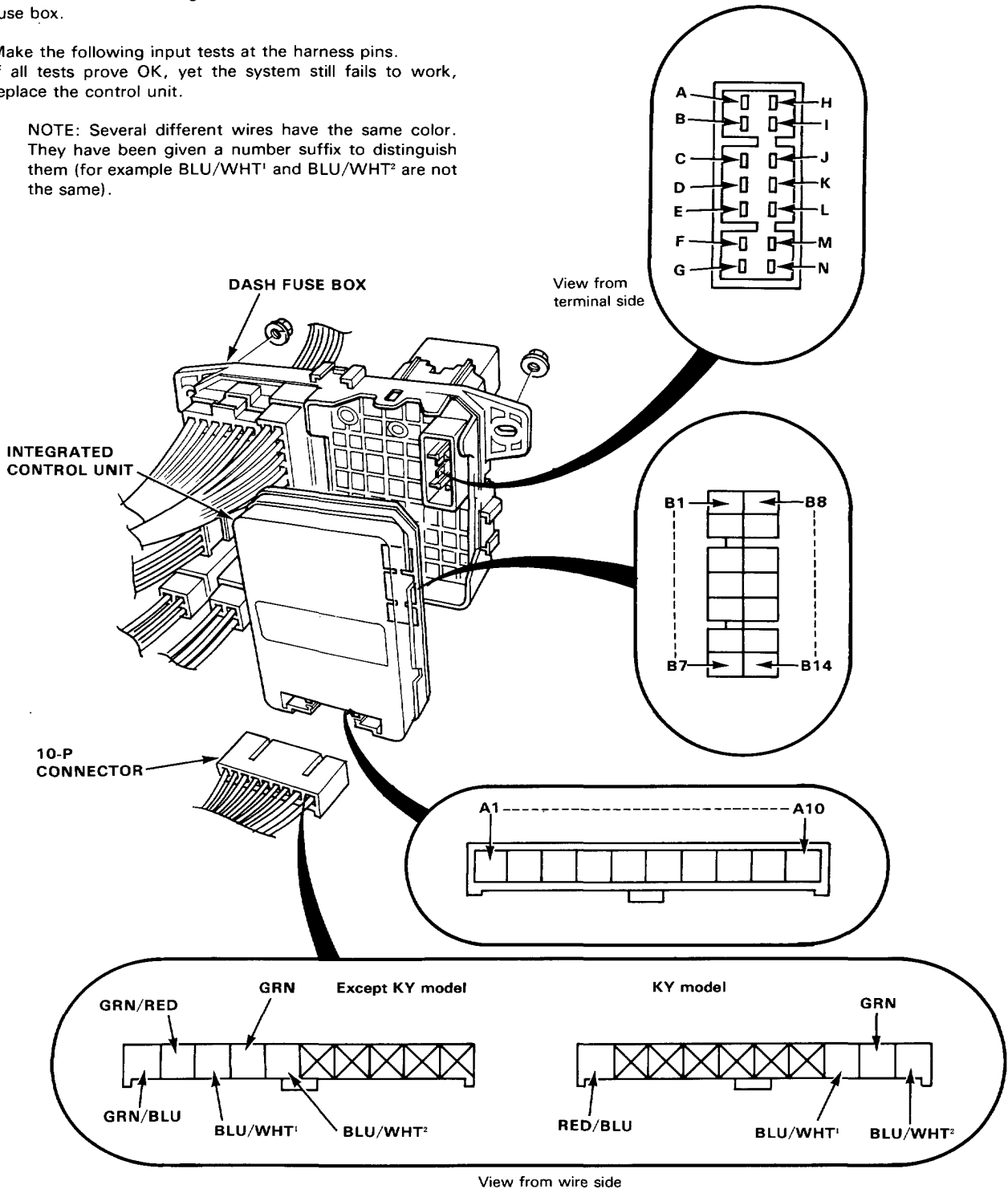
Integrated Control Unit (Without Daytime and Dim-Dip Light)

Input Test

Remove the dashboard lower panel and dash fuse box, then disconnect the 10-P connector from the integrated control unit and remove the integrated control unit from the dash fuse box.

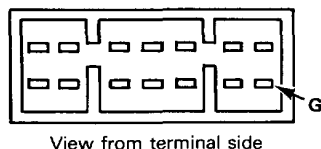
Make the following input tests at the harness pins. If all tests prove OK, yet the system still fails to work, replace the control unit.

NOTE: Several different wires have the same color. They have been given a number suffix to distinguish them (for example BLU/WHT¹ and BLU/WHT² are not the same).

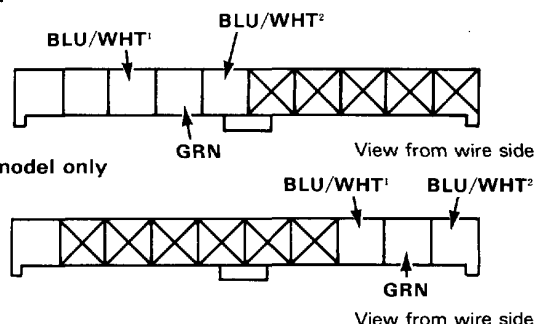




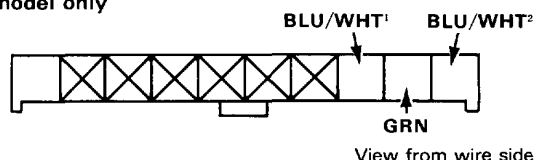
Wiper System:



Except KY model



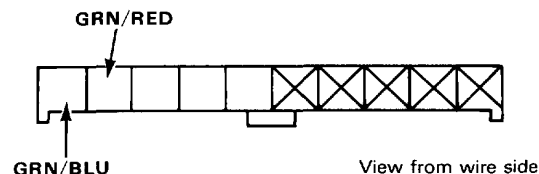
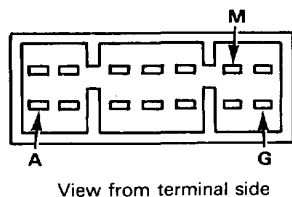
KY model only



No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	G	Under all conditions.	Check for continuity to ground: should be continuity.	• Poor ground (G301, G401 (G201, G401))
2	BLU/WHT ¹ and BLU/WHT ²	Wiper switch OFF or INT and wiper blades in park position.	Check for continuity between the BLU/WHT ¹ and BLU/WHT ² terminals: should be continuity.	• Faulty wiper switch. • Faulty wiper motor. • An open in the wire.
3	GRN	Ignition switch ON and wiper switch INT.	Check for voltage to ground: should be battery voltage.	• Blown No. 13 (15A) fuse. • Faulty wiper switch. • An open in the wire.

(): RHD

Light-on Warning System: Except KY model



No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	G	Under all conditions.	Check for continuity to ground: should be continuity.	• Poor ground (G301, G401 (G201, G401)). • An open in the wire.
2	A	Lighting switch ON.	Check for voltage to ground: should be battery voltage.	• Blown No. 8 (10A) fuse. • Faulty lighting switch. • An open in the wire.
3	M	Ignition switch ON.	Check for voltage to ground: should be battery voltage.	• Blown No. 1 (10A) fuse. • An open in the wire.
4	GRN/RED	Passenger door open.	Check for continuity to ground: should be continuity. NOTE: Before testing remove No. 12 (15A) fuse.	• Faulty passenger door switch. • An open in the wire.
5	GRN/BLU	Driver door open.	Check for continuity to ground: should be continuity.	• Faulty driver door switch. • An open in the wire.

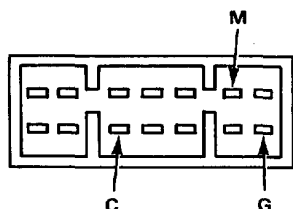
(cont'd)

(): RHD

Integrated Control Unit (Without Daytime and Dim-Dip Light)

Input Test (cont'd)

Seat Belt Reminder System:



View from terminal side

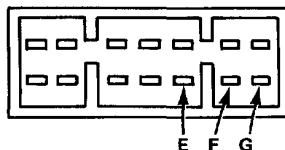


RED/BLU

View from wire side

No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	G	Under all conditions.	Check for continuity to ground: should be continuity.	<ul style="list-style-type: none"> • Poor ground (G301, G401). • An open in the wire.
2	C and M	Ignition switch ON.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 1 (10A) fuse. • An open in the wire.
3	RED/BLU	Driver's seat belt is not buckled.	Check for continuity to ground: should be continuity.	<ul style="list-style-type: none"> • Faulty seat belt switch. • Poor ground (2D H/B: G511, 4D: G561). • An open in the wire.

Brake Warning System: KQ model only



View from terminal side

No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	G	Under all conditions.	Check for continuity to ground: should be continuity.	<ul style="list-style-type: none"> • Poor ground (G201, G401). • An open in the wire.
2	F	Ignition switch to "III" position.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 2 (10A) fuse. • An open in the wire.
3	E	Ignition switch ON, full brake fluid and parking brake DOWN.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No. 1 (10A) fuse. • Blown brake warning light bulb. • An open in the wire.

Integrated Control Unit (With Daytime and Dim-Dip Light)

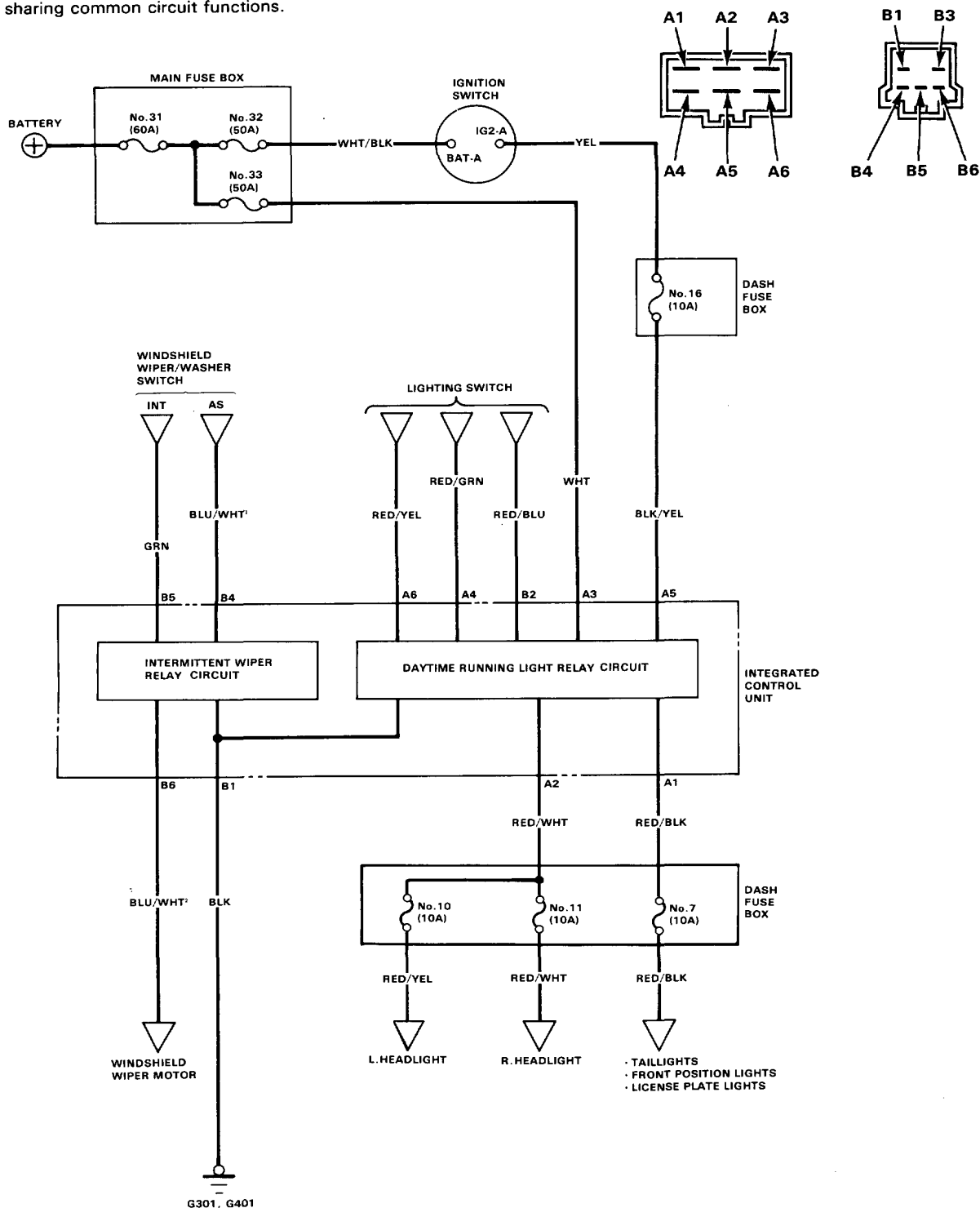


Circuit Diagram (With Daytime Light)

Description:

A multi function control unit located under the left side of the dashboard, integrates the functions of daytime running light relay and intermittent wiper relay circuit onto one circuit board, sharing common circuit functions.

Integrated Control Unit Terminals:



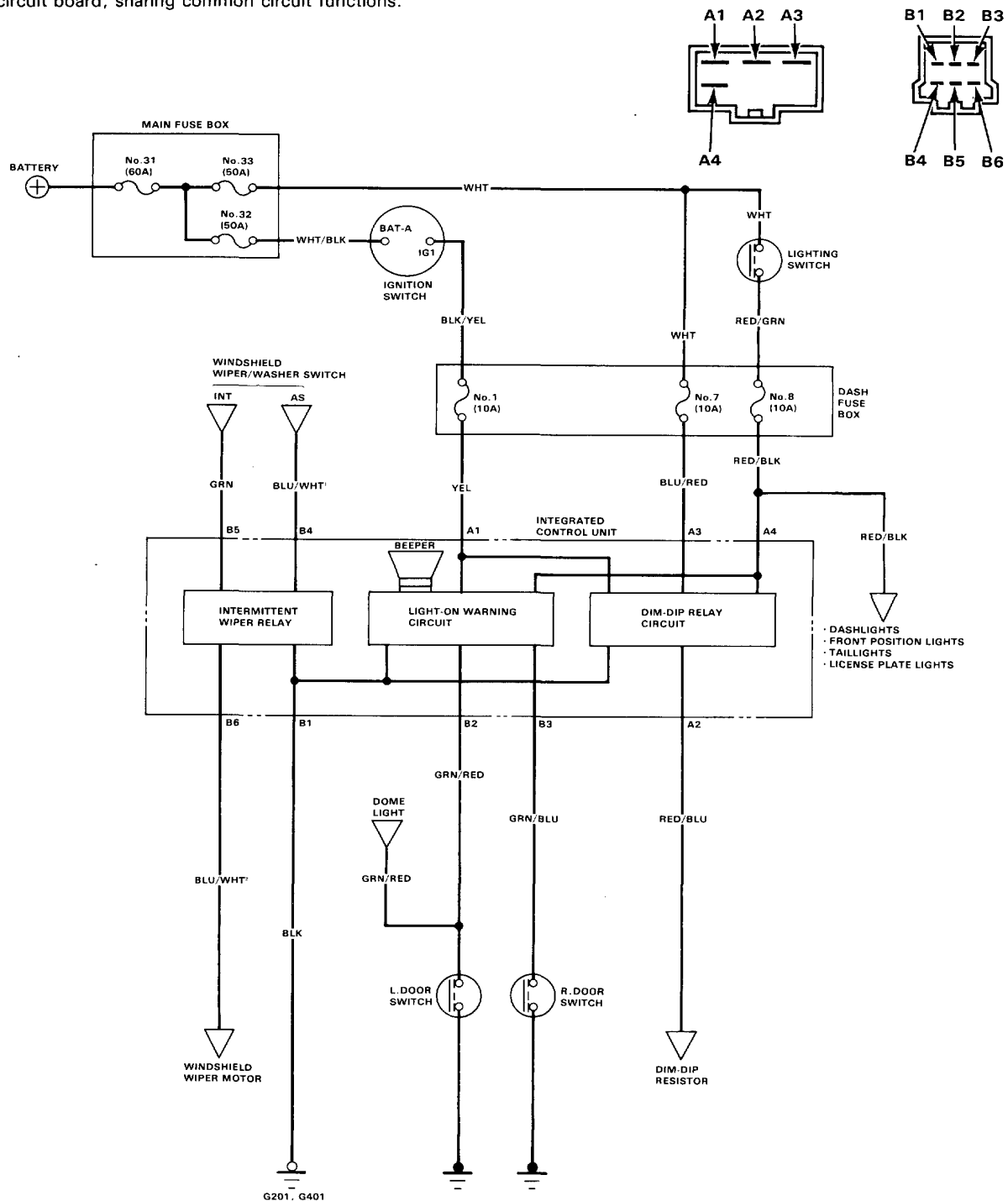
Integrated Control Unit (With Daytime and Dim-Dip Light)

Circuit Diagram (With Dim-Dip Light)

Description:

A multi function control unit located under the right side of the dashboard, integrates the functions of dim-dip relay circuit, light-on warning and intermittent wiper relay circuit onto one circuit board, sharing common circuit functions.

Integrated Control Unit
Terminals:





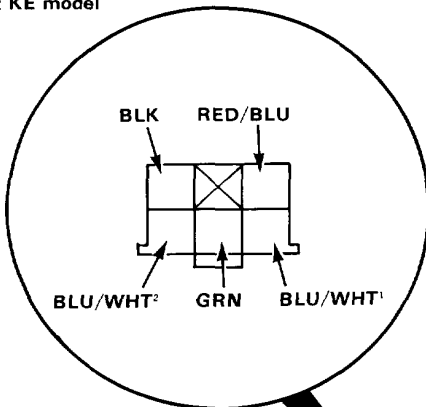
Remove the dashboard lower panel and dash fuse box, then disconnect the 6-P connectors from the integrated control unit.

Make the following input tests at the harness pins.

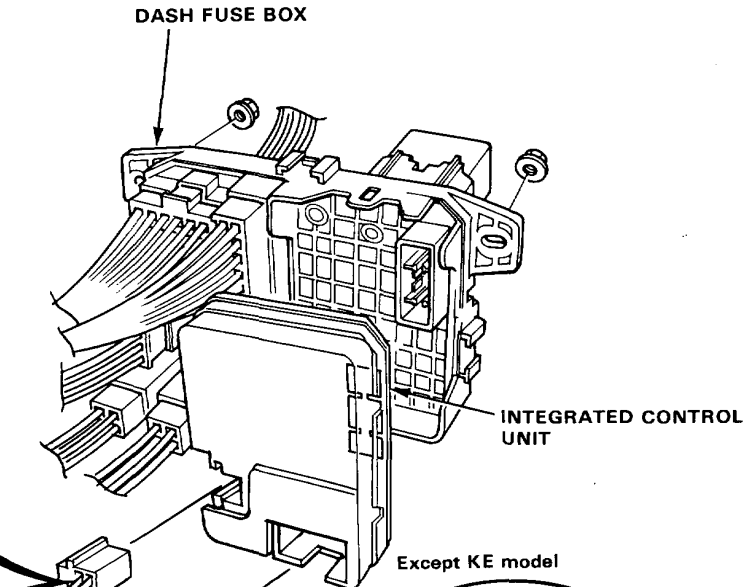
If all tests prove OK, yet the system still fails to work, replace the control unit.

NOTE: Several different wires have the same color. They have been given a number suffix to distinguish them (for example BLU/WHT¹ and BLU/WHT² are not the same).

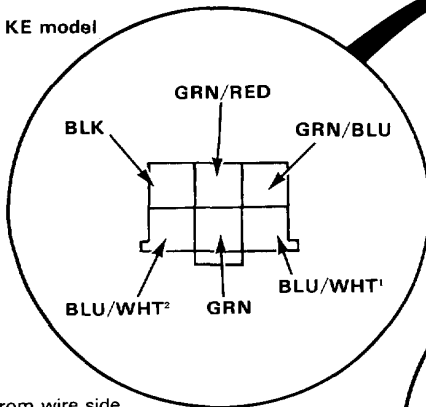
Except KE model



View from wire side

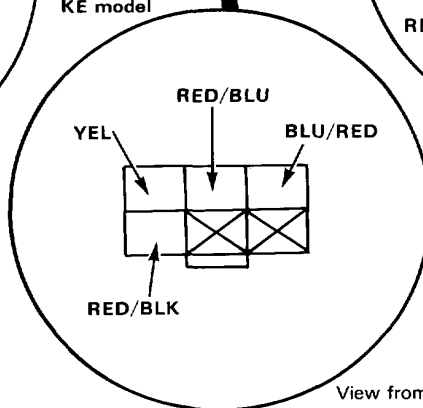


KE model



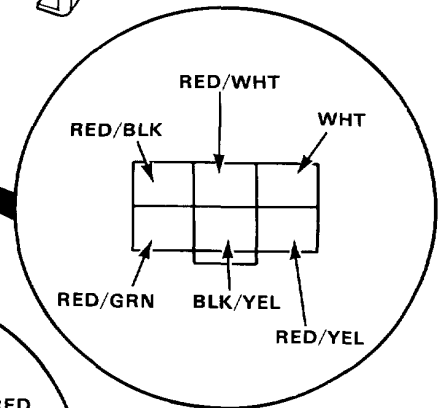
View from wire side

KE model



View from wire side

Except KE model



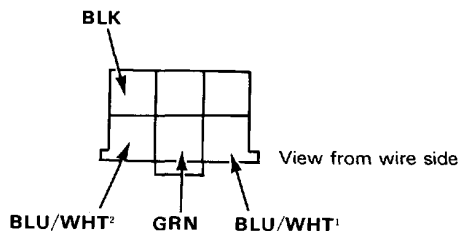
View from wire side

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Integrated Control Unit (With Daytime and Dim-Dip Light)

Input Test (cont'd)

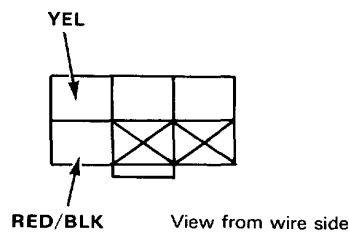
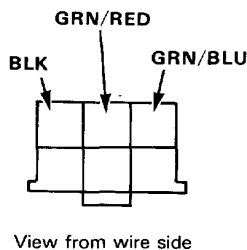
Wiper System:



No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	BLK	Under all conditions.	Check for continuity to ground: should be continuity.	• Poor ground (G301, G401 (G201, G401)).
2	BLU/WHT¹ and BLU/WHT²	Wiper switch OFF or INT and wiper blades in park position.	Check for continuity between the BLU/WHT¹ and BLU/WHT² terminals: should be continuity.	• Faulty wiper switch. • Faulty wiper motor. • An open in the wire.
3	GRN	Ignition switch ON and wiper switch INT	Check for voltage to ground: should be battery voltage.	• Blown No.13 (15A) fuse. • Faulty wiper switch. • An open in the wire.

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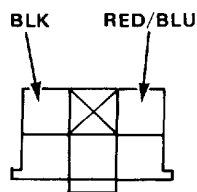
Light-on Warning System:



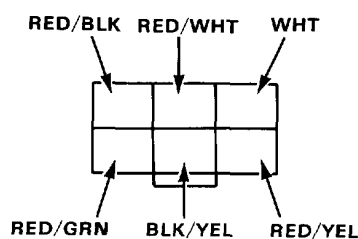
No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	BLK	Under all conditions.	Check for continuity to ground: should be continuity.	• Poor ground (G201, G401). • An open in the wire.
2	RED/BLK	Lighting switch ON.	Check for voltage to ground: should be battery voltage.	• Blown No.8 (10A) fuse. • Faulty lighting switch. • An open in the wire.
3	YEL	Ignition switch ON.	Check for voltage to ground: should be battery voltage.	• Blown No.1 (10A) fuse. • An open in the wire.
4	GRN/RED	Passenger door open.	Check for continuity to ground: should be continuity. NOTE: Before testing remove No.12 (15A) fuse.	• Faulty passenger door switch. • An open in the wire.
5	GRN/BLU	Driver door open.	Check for continuity to ground: should be continuity.	• Faulty driver door switch. • An open in the wire.



Daytime Running Light System:



View from wire side



View from wire side

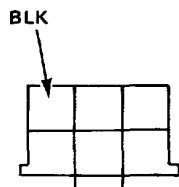
No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	BLK	Under all conditions.	Check for continuity to ground: should be continuity.	<ul style="list-style-type: none"> • Poor ground (G301, G401). • An open in the wire.
2	WHT	Under all conditions.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • An open in the wire.
3	RED/GRN	Lighting switch	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Faulty lighting switch. • An open in the wire.
4	RED/YEL	Lighting switch	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Faulty lighting switch. • An open in the wire.
5	RED/BLU	Lighting switch Dimmer switch Hi.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No.5 (10A) fuse. • An open in the wire.
6	BLK/YEL	Ignition switch ON.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No.16 (10A) fuse. • An open in the wire.
7	RED/BLK	Connect the WHT terminal to the RED/BLK terminal.	Front position lights, taillights and license plate lights should come on.	<ul style="list-style-type: none"> • Blown bulbs. • An open in the wire.
8	RED/WHT	Connect the WHT terminal to the RED/WHT terminal.	Headlights (Lo) should come on.	<ul style="list-style-type: none"> • Blown bulbs. • Blown No.10 (10A) or No.11 (10A) fuse. • Poor ground (G201, G301, G401).

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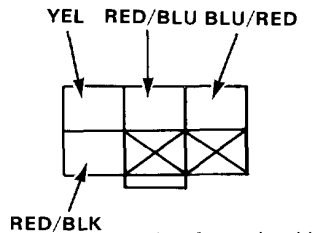
Integrated Control Unit (With Daytime and Dim-Dip Light)

Input Test (cont'd)

Dim-Dip Headlight System:



View from wire side



View from wire side

No.	Terminal	Test condition	Test: desired result	Possible cause (if result is not obtained)
1	BLK	Under all conditions.	Check for continuity to ground: should be continuity.	<ul style="list-style-type: none"> • Poor ground (G201, G401). • An open in the wire.
2	BLU/RED	Under all conditions.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No.7 (10A) fuse. • An open in the wire.
3	YEL	Ignition switch ON.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No.1 (10A) fuse. • An open in the wire.
4	RED/BLK	Lighting switch	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No.8 (10A) fuse. • An open in the wire.
5	RED/BLU	Lighting switch	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Faulty Dim-Dip resistor. • Blown No.10 (10A) and No.11 (10A) fuse. • Faulty lighting relay. • An open in the wire.