

Safety Indicator



Component Location Index

A/T CONTROL SYSTEM
See Automatic Transmission,
section 9

SAFETY INDICATOR
Troubleshooting, page 16-96
Removal, page 16-85
Input Test, page 16-98
Bulb Replacement, page 16-84

DOME LIGHT
Removal page 16-135
Test, page 16-135

R. DOOR SWITCH
Test, page 16-139

TRUNK LIGHT

R. BRAKE LIGHTS
Replacement, page 16-138

**R. BRAKE LIGHT
FAILURE SENSOR**
(in the right taillight)
Test, page 16-97

TRUNK LATCH SWITCH
Test/Replacement, page 16-140

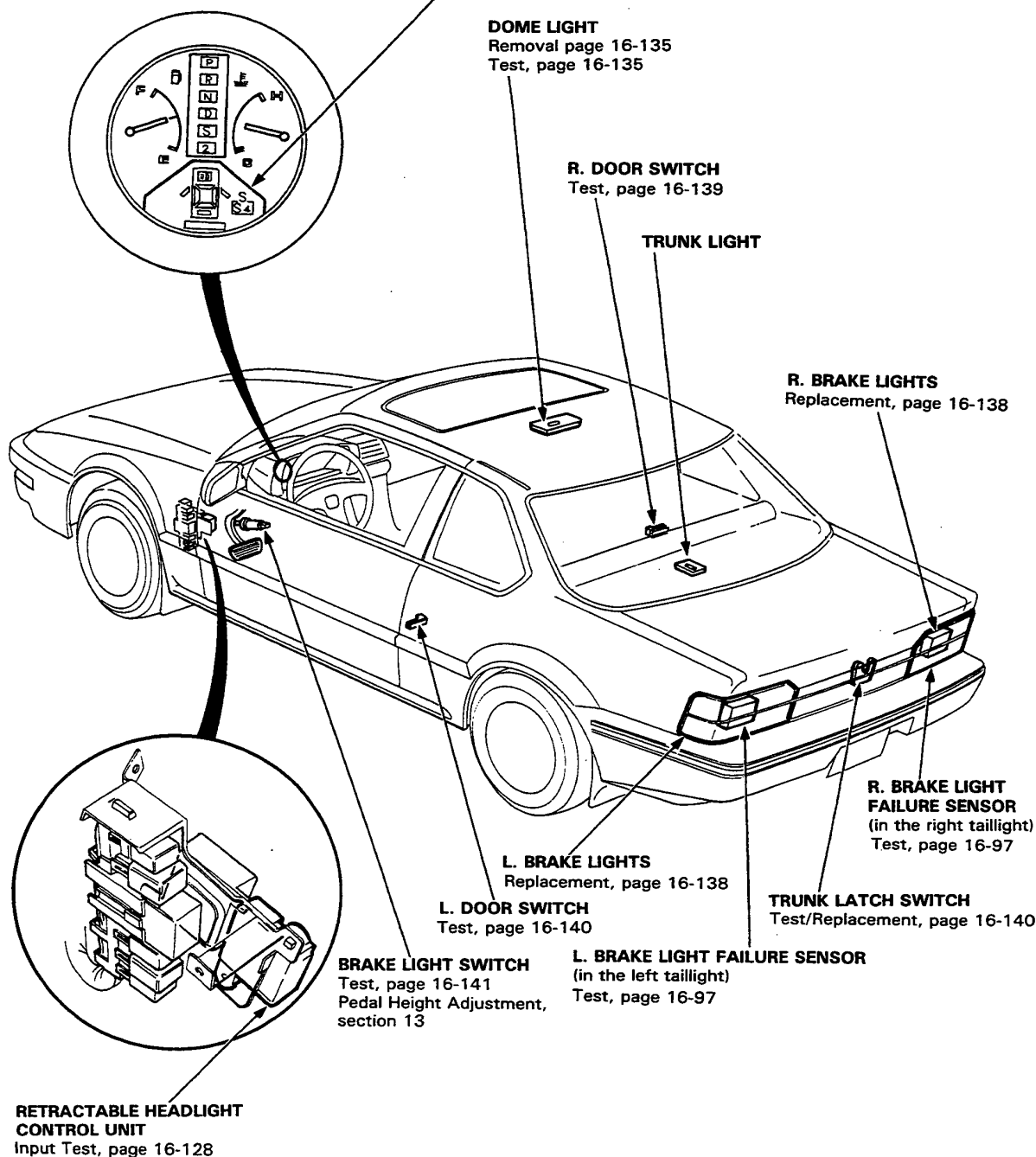
L. BRAKE LIGHTS
Replacement, page 16-138

L. DOOR SWITCH
Test, page 16-140

L. BRAKE LIGHT FAILURE SENSOR
(in the left taillight)
Test, page 16-97

BRAKE LIGHT SWITCH
Test, page 16-141
Pedal Height Adjustment,
section 13

**RETRACTABLE HEADLIGHT
CONTROL UNIT**
Input Test, page 16-128

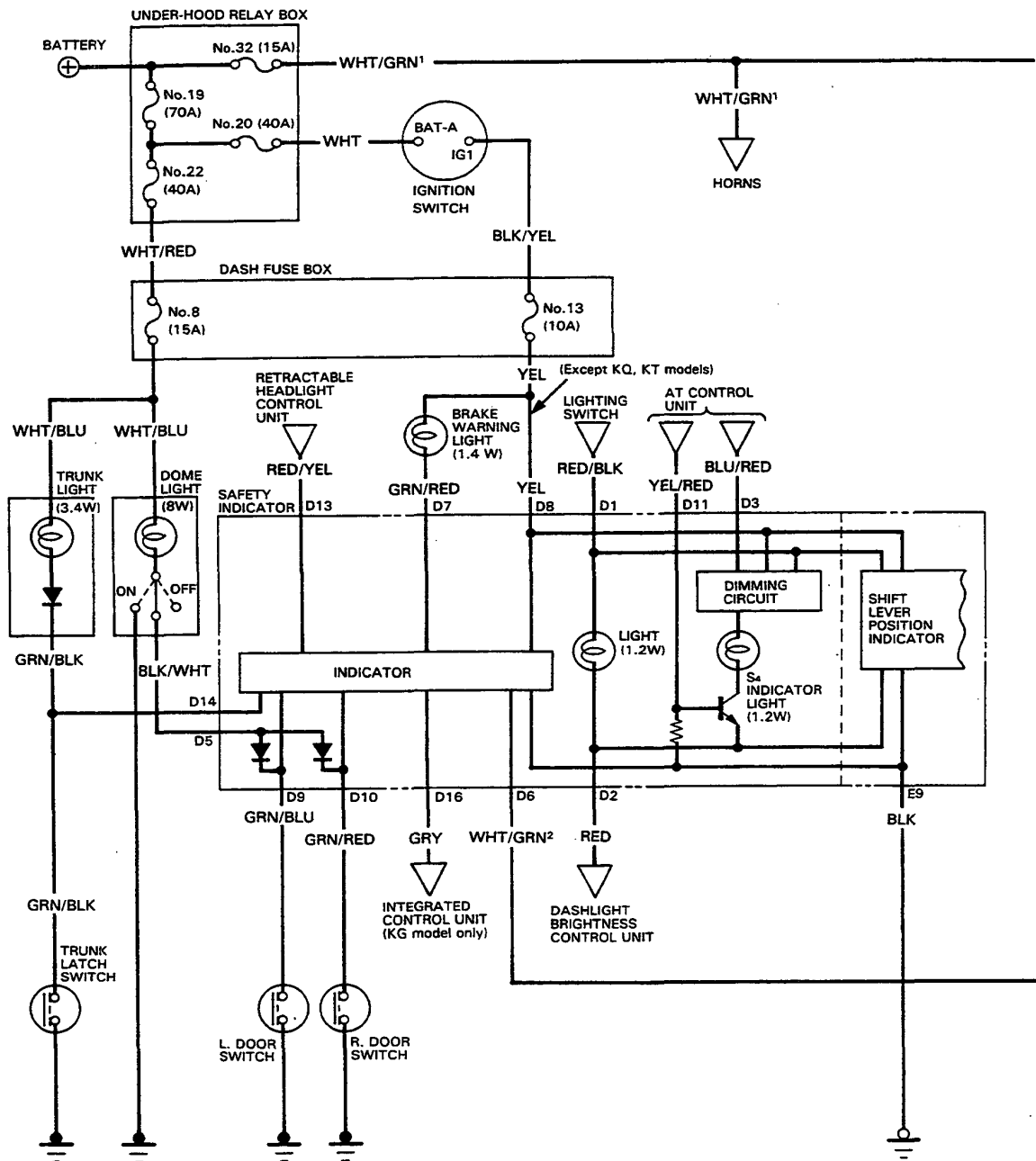


Safety Indicator

Circuit Diagram

NOTE: Several different wires have the same color.

They have been given a number suffix to distinguish them (for example WHT/GRN¹ and WHT/GRN² are not the same).



L.H. Drive: G701
R.H. Drive: G401
G402
G471



Description

Safety Indicator Warning System:

LED's are used to indicate when the trunk lid or a door is not fully closed, or when a brake light is faulty. The LED's will remain ON for about 2 seconds after the ignition switch has been turned ON to show that the system circuit is functioning.

Brake Light Bulb Failure Warning:

If all brake light bulbs are OK, the warning light stays off because the WHT/GRN² wire is constantly being grounded by the two brake light failure sensors connected in series. With the brakes off, the ground is provided through the diode, the failure sensor relay coils and bulb filaments to ground. With the brake lights on, all 4 relays, (2 in the left sensor, 2 in the right) connected in series, supply ground. If any of the 4 bulbs is not working, the chain is broken and the WHT/GRN² wire is not being grounded. The warning light comes on.

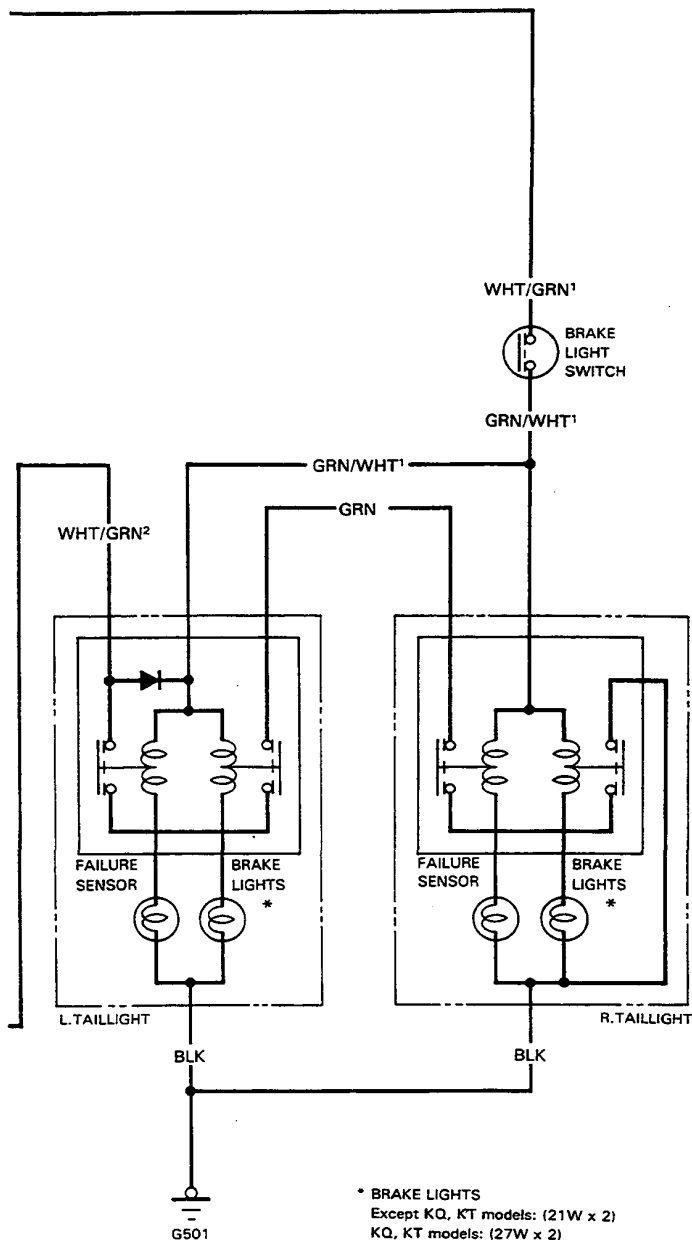
S₄ Indicator:

The "S₄" indicator light will remain on for about 2 seconds after the ignition switch has been turned on to show that the system circuit is functioning.

The shift lever position indicator is dimmed by the dimming circuit with the lighting switch on and also controlled by the dashlight brightness controller.

In the "S₄" mode, which can be selected by the "S₄" switch, the A/T control unit applies voltage to the "D11" terminal of the shift lever position indicator to light up the "S₄" indicator. When the "S₄" mode has been selected, the "S₄" pilot light in the "S₄" switch comes on.

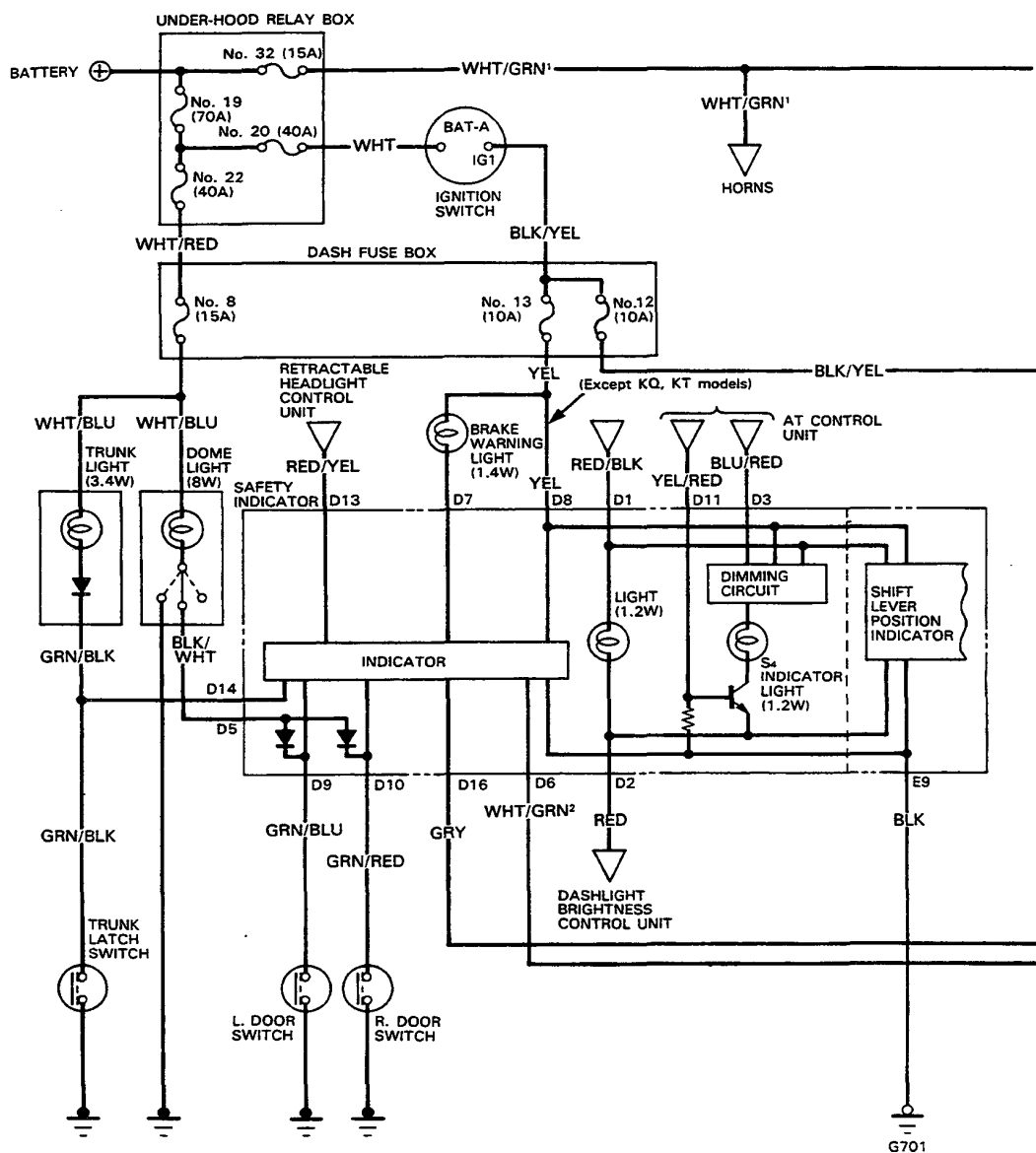
The "S₄" indicator also functions as the warning indicator for the A/T control system. If some malfunction occurs in the A/T control system, the A/T control unit applies voltage to the "D11" terminal of the shift lever position indicator to make the "S₄" indicator flash. The flashing "S₄" indicator informs the driver of some malfunction in the A/T control system. When the "S₄" indicator functions as the warning indicator, the A/T control unit sends a cancelling signal to the "D₃" terminal of the shift lever position indicator so that the "S₄" indicator light is not dimmed.



Safety Indicator

Circuit Diagram (KG model)

NOTE: Several different wires have the same color. They have been given a number suffix to distinguish them (for example WHT/GRN¹ and WHT/GRN² are not the same).





Description

Safety Indicator Warning System:

LED's are used to indicate when the trunk lid or a door is not fully closed, or when a brake light is faulty. The LED's will remain ON for about 2 seconds after the ignition switch has been turned ON to show that the system circuit is functioning.

Brake Light Bulb Failure Warning:

If all brake light bulbs are OK, the warning light stays off because the WHT/GRN² wire is constantly being grounded by the two brake light failure sensors connected in series. With the brakes off, the ground is provided through the diode, the failure sensor relay coils and bulb filaments to ground. With the brake lights on, all 4 relays, (2 in the left sensor, 2 in the right) connected in series, supply ground. If any of the 4 bulbs is not working, the chain is broken and the WHT/GRN² wire is not being grounded. The warning light comes on.

S₄ Indicator:

The "S₄" indicator light will remain on for about 2 seconds after the ignition switch has been turned on to show that the system circuit is functioning.

The shift lever position indicator is dimmed by the dimming circuit with the lighting switch on and also controlled by the dashlight brightness controller.

In the "S₄" mode, which can be selected by the "S₄" switch, the A/T control unit applies voltage to the "D11" terminal of the shift lever position indicator to light up the "S₄" indicator. When the "S₄" mode has been selected, the "S₄" pilot light in the "S₄" switch comes on.

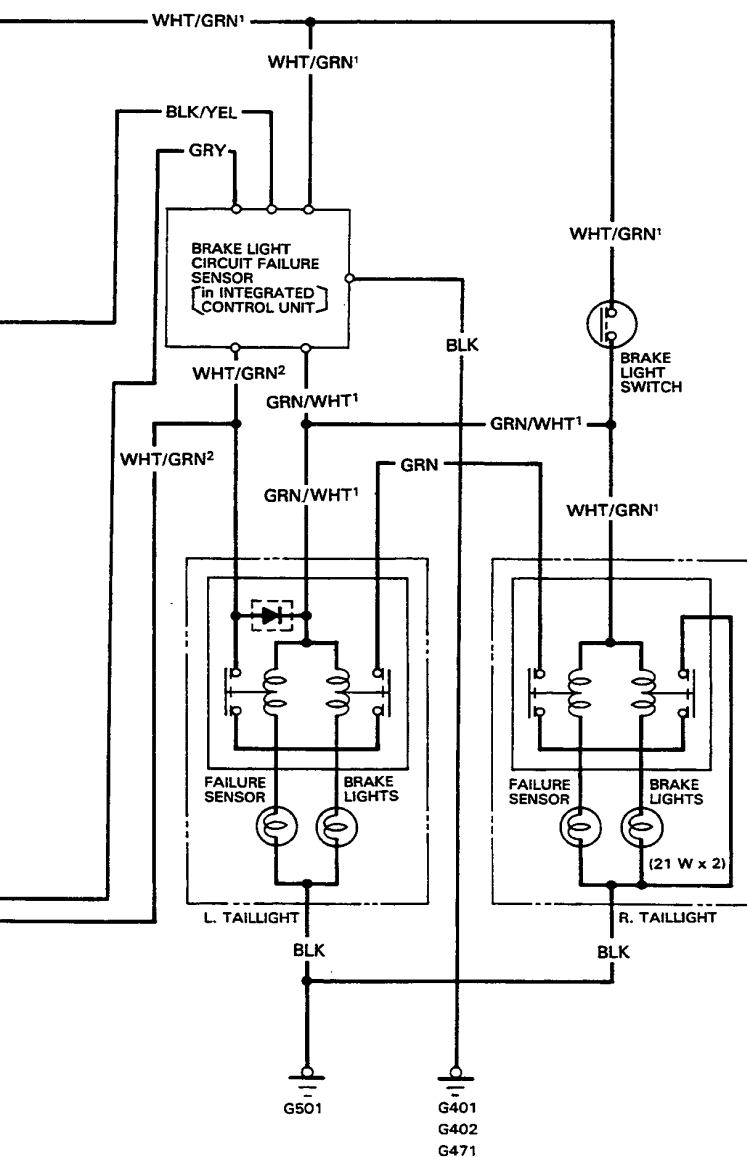
The "S₄" indicator also functions as the warning indicator for the A/T control system. If some malfunction occurs in the A/T control system, the A/T control unit applies voltage to the "D11" terminal of the shift lever position indicator to make the "S₄" indicator flash. The flashing "S₄" indicator informs the driver of some malfunction in the A/T control system. When the "S₄" indicator functions as the warning indicator, the A/T control unit sends a cancelling signal to the "S₄" terminal of the shift lever position indicator so that the "S₄" indicator light is not dimmed.

Brake Light Circuit Failure Warning:

When the ignition switch is turned ON, the brake light warning light stays on.

When the brake pedal is depressed once, the warning light should go out.

If there is defect in the brake system (blown fuse, faulty brake light switch, open or short circuit and/or blown bulb(s)), the brake light warning light stays on with the brake pedal operated.



Safety Indicator

Troubleshooting

NOTE: The numbers in the table show the troubleshooting sequence.

Items to be inspected Symptom	Blown No. 13 (10 A) fuse (in the dash fuse box)	Blown bulb	Door switch	Blown No. 8 (15 A) fuse (in the dash fuse box)	Trunk latch switch	Brake light failure sensor	Safety indicator (diodes)	Safety indicator input	Retractor control unit (see page 16-128)	A/T Control system	Brake light circuit failure warning system (see page 16-112)	Poor ground	Open circuit in wires or loose or disconnected terminals
No indicators operate.	1							2				L.H.Drive: G401, 402, 471 R.H.Drive: G701	
Indicator panel illumination not lit with lighting switch ON.		1											RED/BLK or RED
Warning lights fail to come on when ignition switch is turned to ON.								1					
Door warning lights not lit with doors opened.			1					2					GRN/BLU or GRN/RED
Trunk warning light not lit with trunk lid opened.				1	2			3					GRN/BLK
Brake light warning light not lit with blown brake light bulb.								1			[2]		WHT/ GRN ² or GRN
Brake light warning light re- mains on with good brake light bulbs.						1		2			[3]	G501	
Dome light not operated with door opened (When switch position is in MIDDLE)							1						BLK/WHT
Retractor motor warning light remains on with good retractor motor.								1	2				
S ₄ indicator light not lit run- ning at the "S ₄ " shift posi- tion.		1						2		3			YEL/RED

[]: KG model only