

Safety Indicator

Circuit Diagram (cont'd)

KQ model:

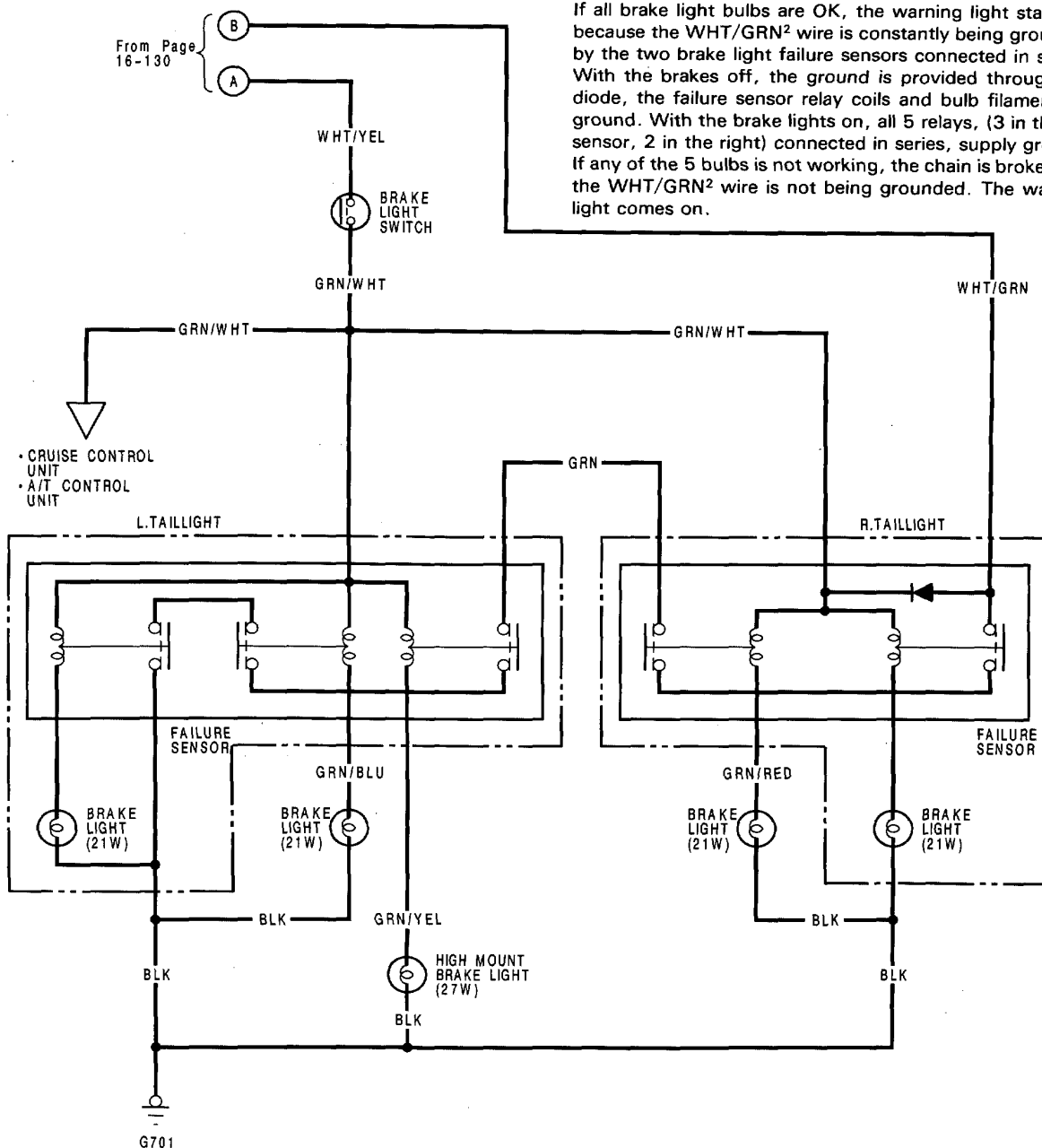
Description

Safety Indicator Warning System:

The warning lights are used to indicate when the trunk lid or a door is not fully closed, or when a brake light is faulty. The warning lights 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 5 relays, (3 in the left sensor, 2 in the right) connected in series, supply ground. If any of the 5 bulbs is not working, the chain is broken and the WHT/GRN² wire is not being grounded. The warning light comes on.



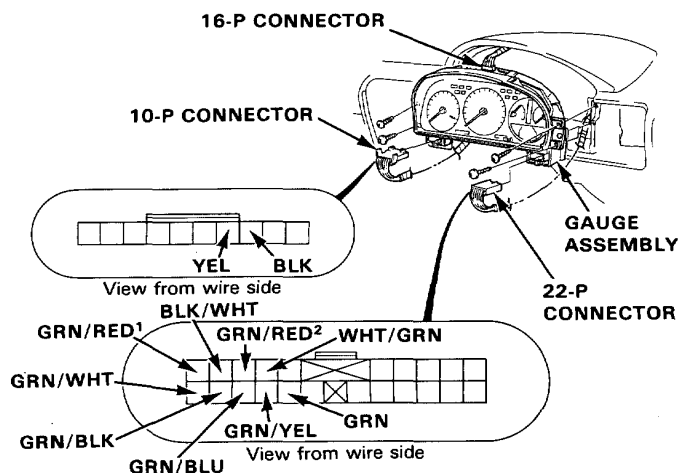


Indicator Input Test

Remove the gauge assembly from the dashboard to disconnect the 10-P, 16-P and 22-P connectors from the indicator.

Make the following input tests at the harness pins.

If all tests prove OK, yet the indicator still fails to work, replace the main print panel, the tachometer, the speedometer and the odo/trip meter as a set.



No.	Wire	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 (G401, G402) • An open in the wire.
2	YEL	Ignition switch ON.	Check for voltage to ground: should be battery voltage.	<ul style="list-style-type: none"> • Blown No.1 (10 A) fuse. • An open in the wire.
3	WHT	Brake pedal pushed.	Check for continuity to ground: should be continuity with the pedal pushed.	<ul style="list-style-type: none"> • Blown No. 25 (20 A) fuse. • Faulty brake light switch. • Blown brake light bulbs. • Faulty brake light failure sensors. • Poor ground (G701). • An open in the WHT/GRN or GRN/WHT wire.
4	GRN/BLK	Trunk lid opened.	Check for continuity to ground: should be continuity. NOTE: Before testing, remove No.22 (15 A) fuse.	<ul style="list-style-type: none"> • Faulty trunk latch switch. • An open in the wire.
5	GRN/RED ¹	Right front door opened.	Check for continuity to ground: should be continuity. NOTE: Before testing, remove the No. 22 (15 A) fuse.	<ul style="list-style-type: none"> • An open in the wire. • Faulty door switch. • Poor installation of the switch.
	GRN/BLU	Left front door opened.		
	GRN/WHT	Right rear door opened.		
	GRN/YEL	Left rear door opened.		
6	BLK/WHT	Dome light switch in MIDDLE position.	Attach to ground: Dome light should come on.	<ul style="list-style-type: none"> • Blown No.22 (15 A) fuse. • Faulty dome light. • An open in the WHT/BLU or BLK/WHT wire.
7	GRN/RED ²	Ignition switch ON.	Attach to ground: Brake light warning in the safety indicator should come on.	<ul style="list-style-type: none"> • Faulty safety indicator circuit. • Blown bulb. • An open in the wire.

KG model only:

8	GRN	With brake pedal released, ignition switch OFF to ON.	Check for continuity in both directions between the GRN and BLK terminals: should be continuity in only one direction as the ignition switch is turned ON, then no continuity in both directions with brake pedal pushed.	<ul style="list-style-type: none"> • Faulty brake light circuit failure sensor.
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Safety Indicator

Troubleshooting

NOTE:

- The numbers in the table show the troubleshooting sequence.
- Make sure that the dome light bulb and the trunk light bulb are not blown up.

Symptom	Blown fuse		Safety indicator circuit (main print panel)	Blown indicator bulb	Brake light failure sensor	Door switch	Trunk latch switch	Brake light switch	Poor ground	Open circuit in wires or loose or disconnected terminals
	No.22 (15 A)	No.1 (10 A)								
No indicators operate.		1	2						G401 G402	YEL
Warning lights fail to come on when ignition switch is turned to ON.			1	2						
The indicator lights do not turn on or some indicator lights do not turn off.			1	2						
Trunk warning light not lit with trunk lid opened			2	3			1			GRN/BLK
Door warning lights not lit with doors opened.			2	3		1				GRN/RED ¹ GRN/BLU GRN/WHT GRN/YEL
Brake warning light not lit with blown brake light bulb.			2		1					GRN WHT/GRN GRN/RED ²
Brake warning light remains on with good brake light bulbs.			2					1		GRN WHT/GRN GRN/RED ²
Dome light not operated with door opened (When switch position is in MIDDLE)	1		3			2				



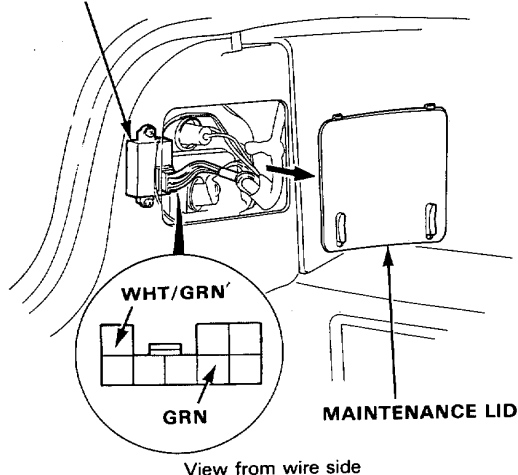
Brake Light Failure Sensor Test (Except KQ model)

1. First make sure the brake lights come on when the brake pedal is pressed.

- If none of the brake lights come on, check the brake light circuit (see page 16-180).
- If one of the brake lights does not come on, check whether the bulb is blown. If the bulb is OK, go to step 2.
- If all the brake lights come on, go to step 2.

2. Open the trunk lid and the maintenance lid of the left taillight. Make sure the **BRAKE LAMP** of the safety indicator does not come on when the WHT/GRN terminal of the 8-P connector is grounded and the ignition switch is turned OFF to ON.

L. FAILURE SENSOR

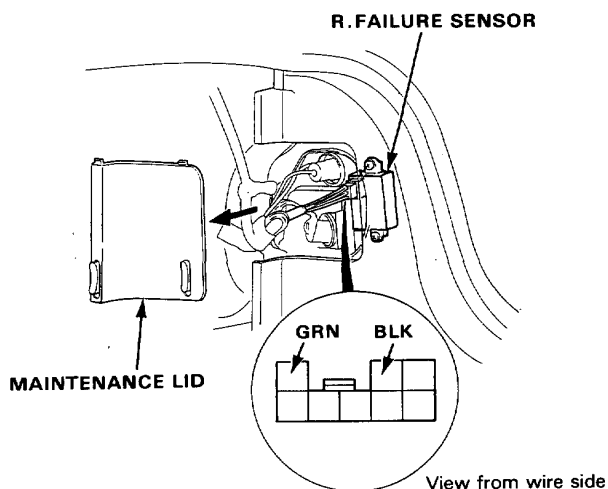


- If the **BRAKE LAMP** comes on, check for an open in the WHT/GRN wire between the safety indicator and the left failure sensor and whether the safety indicator circuit (main print panel) has a problem.
- If the **BRAKE LAMP** does not come on, go to step 3.

3. Make sure the **BRAKE LAMP** does not come on when the ignition switch is turned OFF to ON with the GRN terminal of the 8-P connector grounded and the brake pedal pressed.

- If the **BRAKE LAMP** comes on, replace the left failure sensor.
- If the **BRAKE LAMP** does not come on, go to step 4.

4. Open the maintenance lid of the right taillight. Make sure the **BRAKE LAMP** does not come on when the ignition switch is turned OFF to ON with the GRN terminal of the 8-P connector grounded and the brake pedal pressed.



- If the **BRAKE LAMP** comes on, there is an open in the GRN wire between the left failure sensor and the right failure sensor.
- If the **BRAKE LAMP** does not come on, go to step 5.

5. Make sure the **BRAKE LAMP** does not come on when the ignition switch is turned OFF to ON with the BLK terminal of the 8-P connector grounded and the brake pedal pressed.

- If the **BRAKE LAMP** comes on, replace the right failure sensor.
- If the **BRAKE LAMP** does not come on, check for an open in the BLK wire between the right failure sensor and ground, and check whether the G701 terminal is poor.