

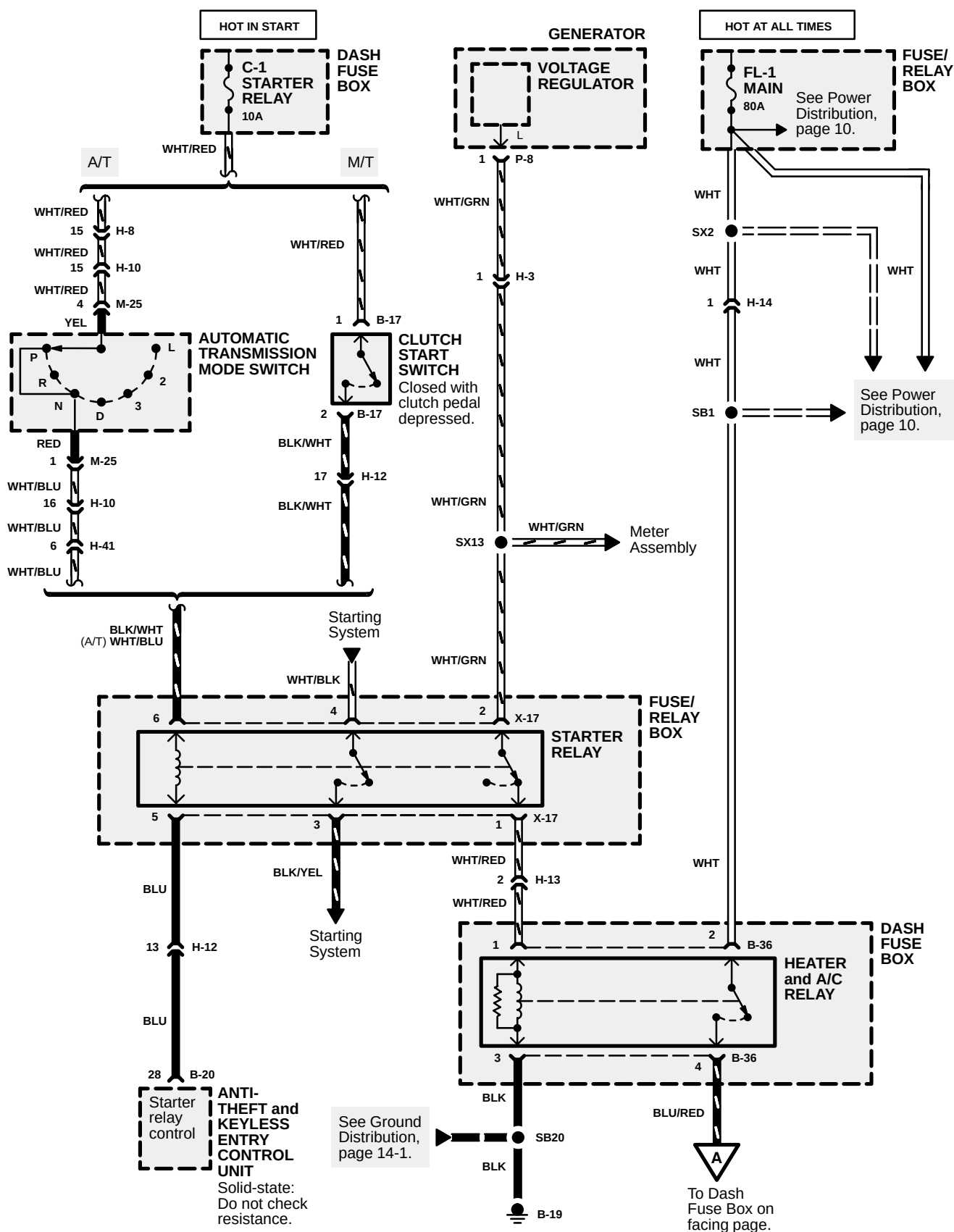
# AUTOMATIC A/C CONTROLS

## Component Index

- A/C Compressor Clutch
- A/C Compressor Relay
- A/C Pressure Switch
- A/C Thermostat Relay
- Automatic Heater-A/C Control Unit
- Blower Motor
- Dash Fuse Box
- Fuse/Relay Box
- Heater and A/C Relay
- In-car Temperature Sensor
- Intake Actuator
- Max Hi Relay
- Mix Actuator
- Mode Actuator
- Power Transistor

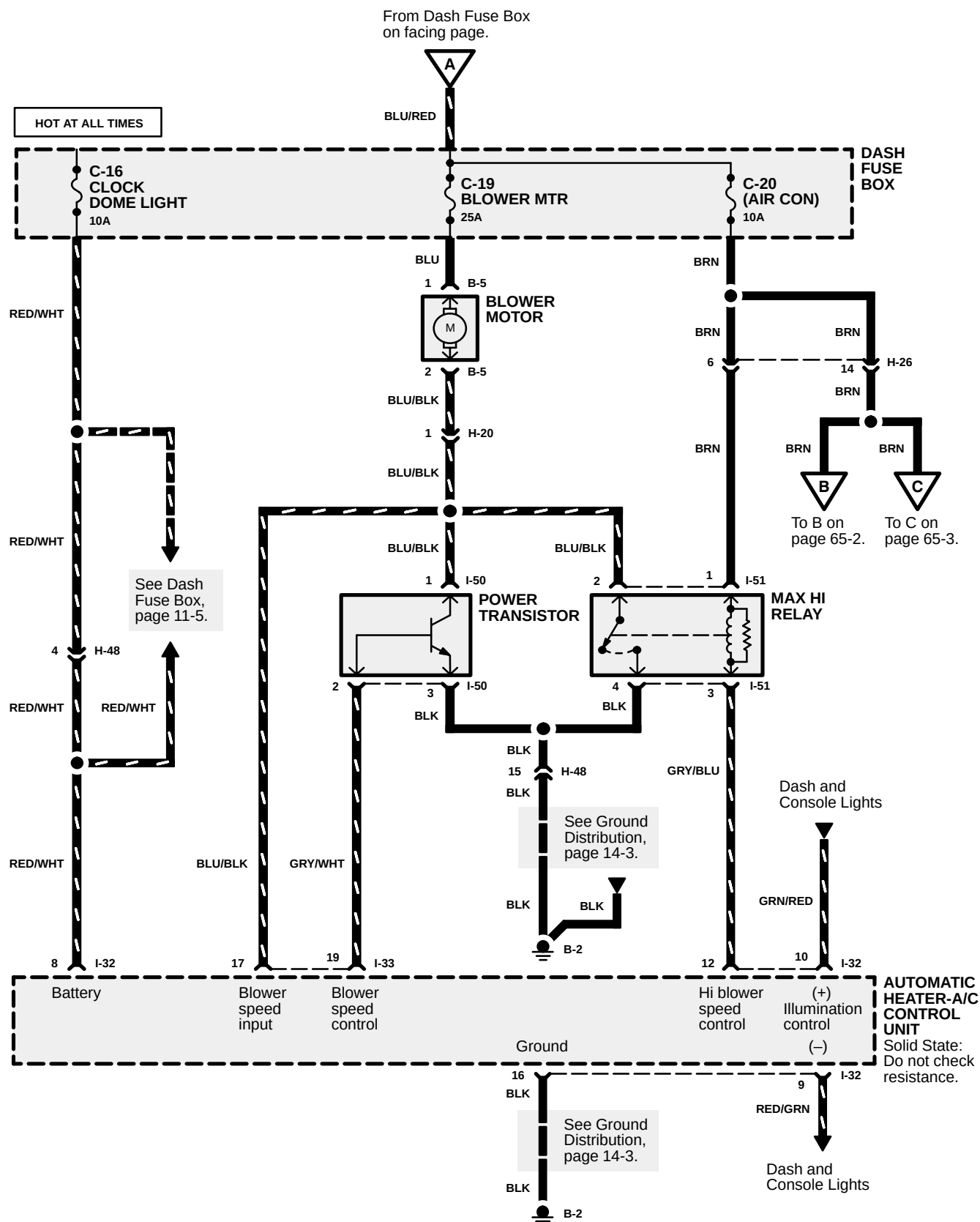
## AUTOMATIC A/C (BLOWER CONTROLS)

### Circuit Schematic



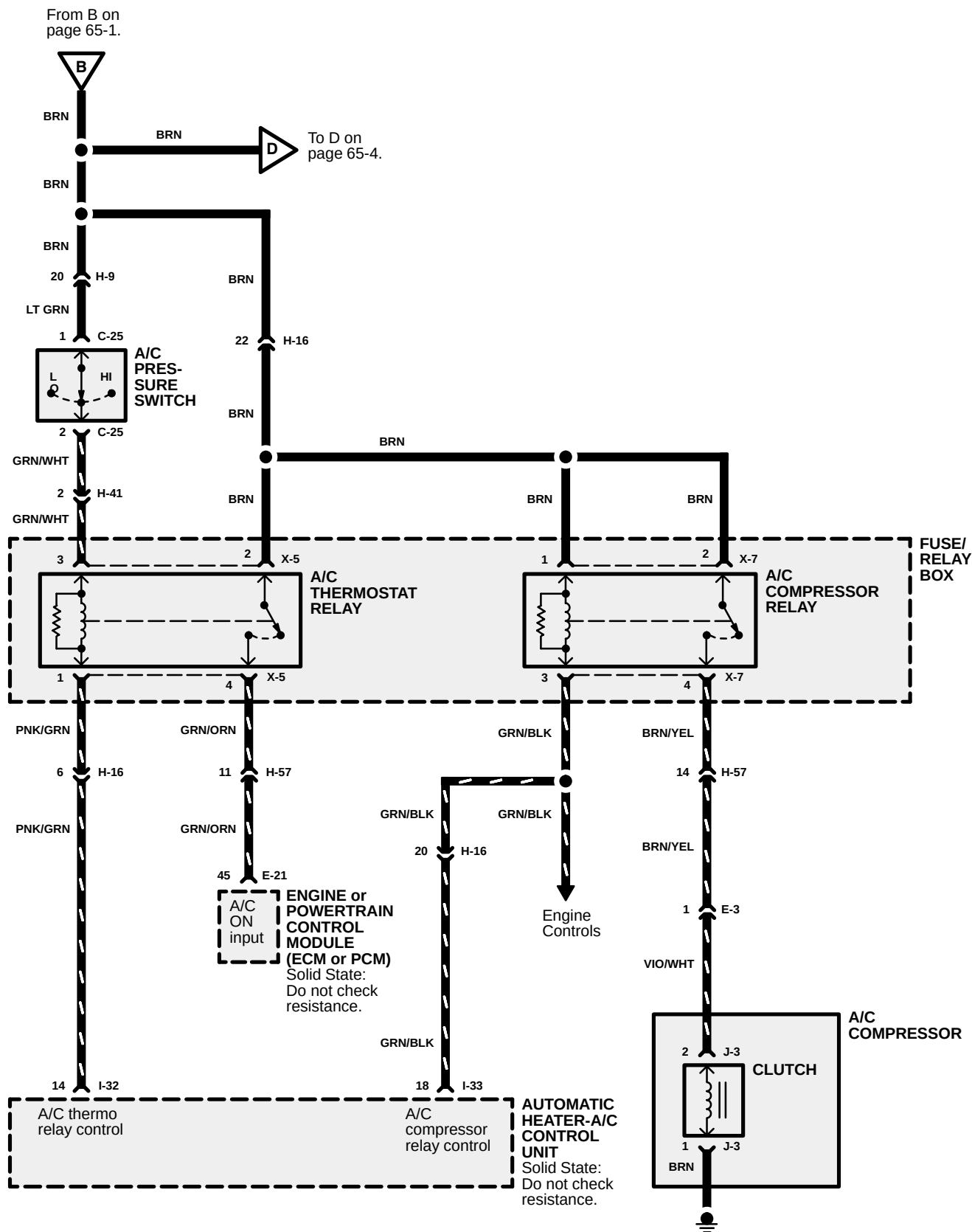
## AUTOMATIC A/C (BLOWER CONTROLS)

### Circuit Schematic



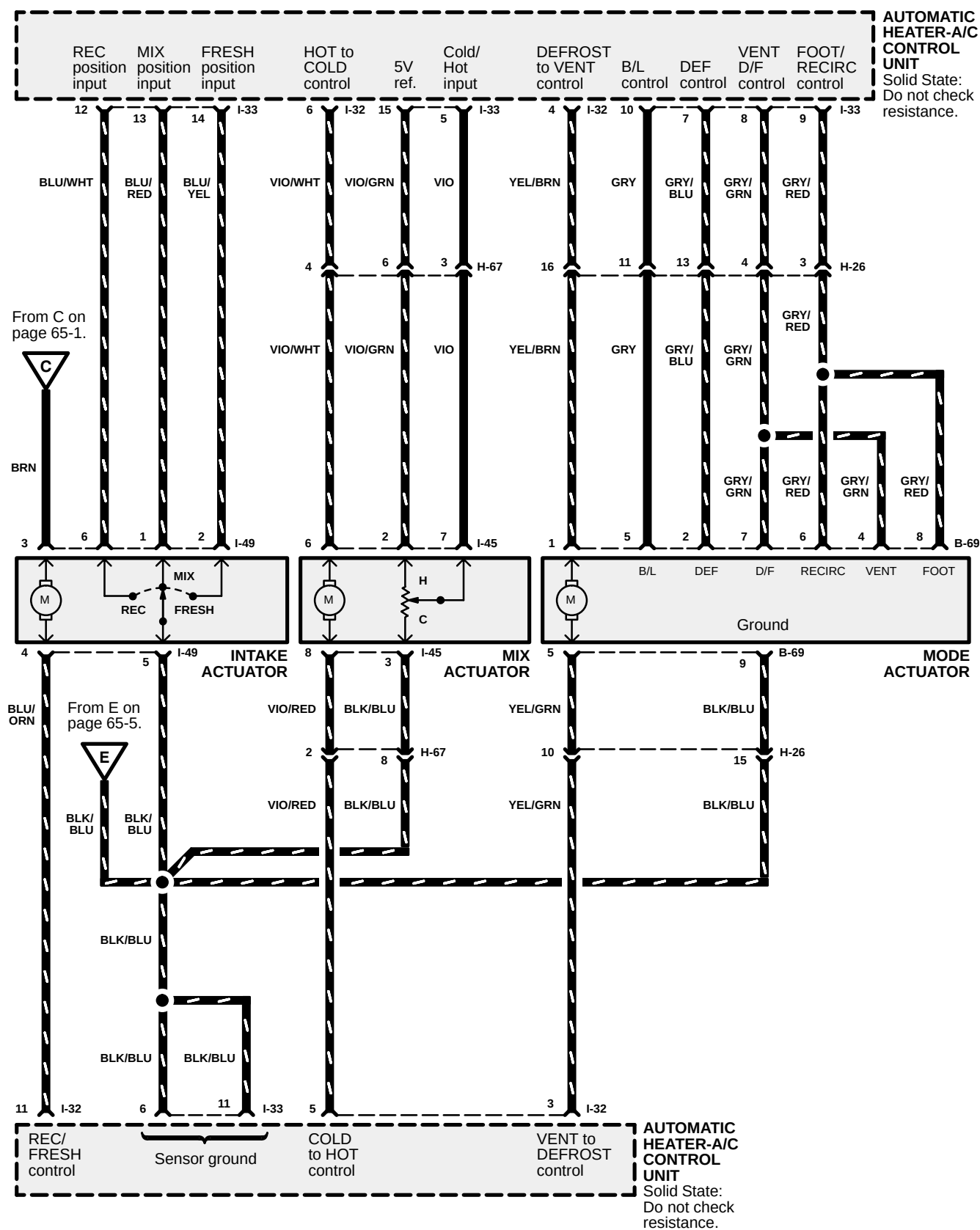
# AUTOMATIC A/C CONTROLS (COMPRESSOR CONTROLS)

## Circuit Schematic



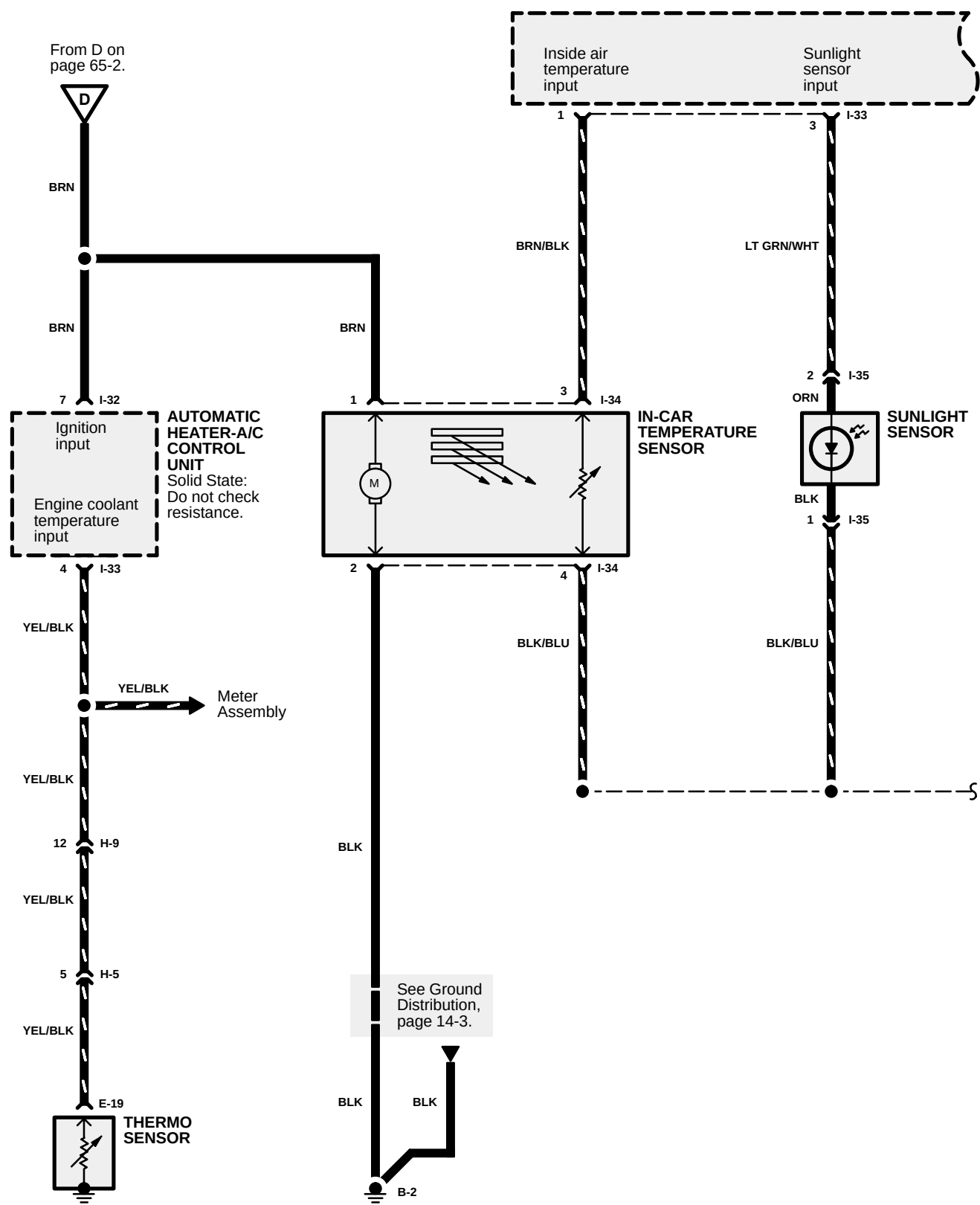
## AUTOMATIC A/C CONTROLS (AIR DELIVERY CONTROLS)

### Circuit Schematic



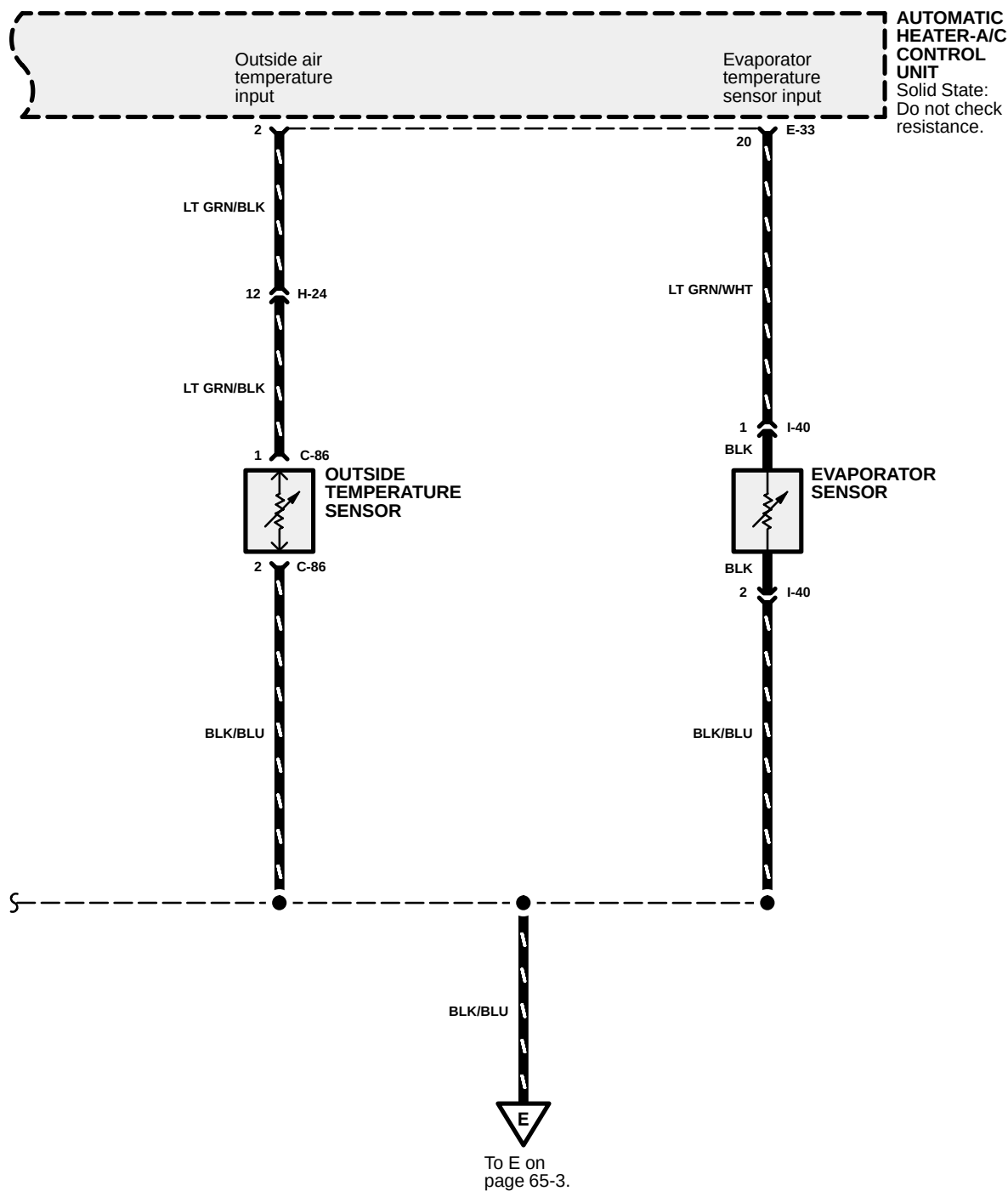
# AUTOMATIC A/C CONTROLS (SENSORS)

## Circuit Schematic



# AUTOMATIC A/C CONTROLS (SENSORS)

## Circuit Schematic



# AUTOMATIC A/C CONTROLS

## Component Location Index

(Refer to Section 201 for photographs.)

| <b>Component</b>                    | <b>Photo No.</b>                                                     |
|-------------------------------------|----------------------------------------------------------------------|
| A/C Compressor Clutch . . . . .     | Lower left front corner of engine . . . . . 44                       |
| A/C Compressor Relay . . . . .      | In fuse/relay box . . . . . 36                                       |
| A/C Pressure Switch . . . . .       | Behind left side of radiator grille . . . . . 2                      |
| A/C Thermostat Relay . . . . .      | In fuse/relay box . . . . . 36                                       |
| Ambient Sensor . . . . .            | Behind left side of radiator grille . . . . . 2                      |
| Automatic Heater-A/C                |                                                                      |
| Control Unit . . . . .              | Center of I/P . . . . . 64                                           |
| Blower Motor . . . . .              | Right side of I/P, behind glove box . . . . . 116                    |
| Dash Fuse Box . . . . .             | Behind left dash side trim panel . . . . . 55                        |
| Duct Sensor . . . . .               | Right side of I/P, behind glove box . . . . . 72                     |
| Engine Coolant Temperature          |                                                                      |
| (ECT) Sensor . . . . .              | Top front of engine . . . . . 10                                     |
| Fuse/Relay Box . . . . .            | Right side of engine compartment, on inner fender panel . . . . . 41 |
| Heater and A/C Relay . . . . .      | In fuse/relay box . . . . . 56                                       |
| In-car Temperature Sensor . . . . . | Center of I/P . . . . . 64                                           |
| Intake Actuator . . . . .           | Right side of I/P, behind glove box . . . . . 133                    |
| Max Hi Relay . . . . .              | Right side of I/P, behind glove box . . . . . 72                     |
| Mix Actuator . . . . .              | Behind anti-theft and keyless entry control unit . . . . . 136       |
| Mode Actuator . . . . .             | Below I/P, above left dash side trim panel . . . . . 123             |
| Power Transistor . . . . .          | Right side of I/P, behind glove box . . . . . 72                     |
| <b>Connector</b>                    |                                                                      |
| E-3 (1-BLK) . . . . .               | Lower left front corner of engine . . . . . 44                       |
| H-5 (16-GRN) . . . . .              | Left side of engine compartment . . . . . 33                         |
| H-9 (20-BLK) . . . . .              | Below I/P, above left dash side trim panel, on bracket . . . . . 70  |
| H-14 (2-RED) . . . . .              |                                                                      |
| H-16 (22-WHT) . . . . .             | Behind right dash side trim panel . . . . . 120                      |
| H-20 (4-WHT) . . . . .              | Behind right dash side trim panel . . . . . 120                      |
| H-24 (18-YEL) . . . . .             | Below I/P, above left dash side trim panel, on bracket . . . . . 70  |
| H-26 (20-WHT) . . . . .             | Below I/P, above left dash side trim panel, on bracket . . . . . 71  |
| H-41 (16-BLK) . . . . .             | Right front of engine compartment . . . . . 31                       |
| H-48 (16-BLK) . . . . .             | Behind right dash side trim panel . . . . . 120                      |
| H-57 (16-BLK) . . . . .             | Right side of engine compartment . . . . . 59                        |
| H-67 (8-BLK) . . . . .              | Below I/P, above left dash side trim panel . . . . . 137             |
| <b>Ground</b>                       |                                                                      |
| B-2 . . . . .                       | Above right dash side trim panel . . . . . 116                       |
| B-19 . . . . .                      | Behind top of left dash side trim panel . . . . . 71                 |

# AUTOMATIC A/C CONTROLS

## Circuit Operation

The automatic A/C system consists of the following components:

Blower Controls:

- Blower Motor
- Max Hi Relay
- Power Transistor

Compressor Controls:

- A/C Compressor Clutch
- A/C Compressor Relay
- A/C Pressure Switch
- A/C Thermostat Relay

Air Delivery Controls:

- Intake Actuator
- Mix Actuator
- Mode Actuator

Sensor Inputs:

- Evaporator Sensor
- In-Car Temperature sensor
- Outside Temperature Sensor
- Sunlight Sensor
- Thermo Sensor

The Automatic Heater-A/C Control Unit is powered at all times through fuse C-16 and with the engine running through fuse C-20, and is grounded at all times at B-2.

Refer to Section 1A of the Workshop Manual for further diagnosis.