

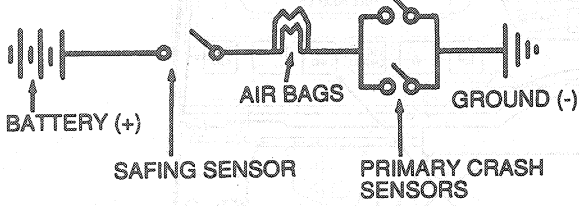
DESCRIPTION (Continued)

01-20B-7 (Continued)

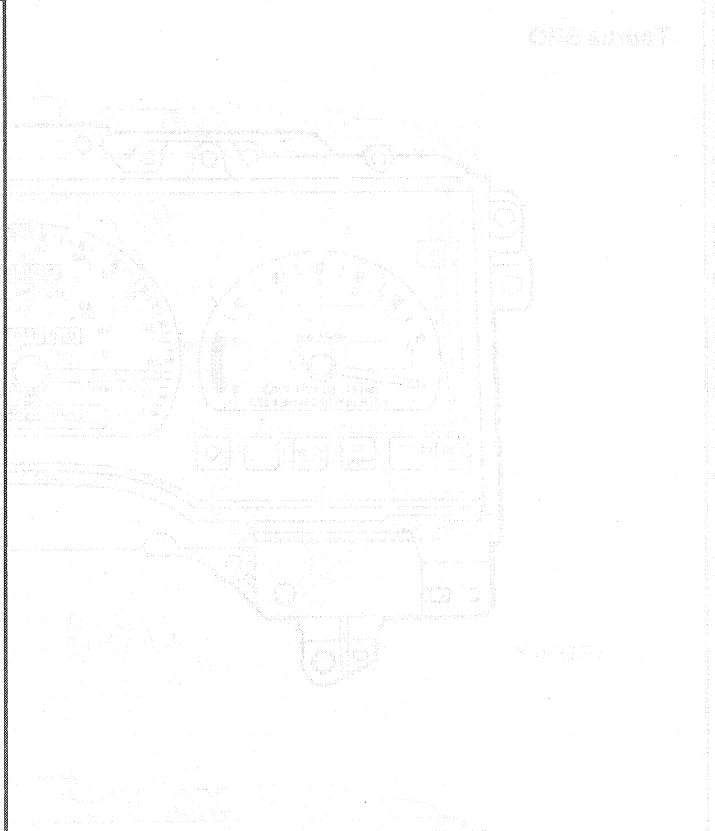
2. When a primary and safing sensor are closed at the same time, electrical current will flow, igniting the air bag(s).

The primary sensors measure the crash severity, while the safing sensor confirms the crash and is used to prevent inadvertent deployments possibly caused by a malfunction in the primary crash sensor circuits or crash sensors.

AIR BAG FIRING CIRCUIT DIAGRAM



R7111-C



The primary crash sensor assembly is an electrical unit which reacts to impact. According to direction and force of impact, the sensor sends a signal to the air bag control module. When an impact occurs that requires air bag inflation, the sensor control circuit completes the electrical circuit necessary for system operation.

The air bag system is designed to operate in front or front and side collisions. The air bag(s) should activate in a crash with severe frontal overpressure. The severity of a crash is measured by the change in velocity of the vehicle. The system senses the severity of the crash either from vehicle speed, or the forward deceleration of the vehicle. The sensors in the vehicle determine if air bag inflation is required in the following manner:

1. During severe frontal deceleration caused by an impact that decelerates the vehicle in the forward direction, both a primary crash sensor and a safing sensor will activate.

The steering wheel has a closed, four-spoke design to accommodate the air bag inflator assembly. The steering column has a blocking assembly to carry electrical signals from the steering column through the steering wheel to the driver air bag inflator and speed control. The steering wheel has a closed, four-spoke design to accommodate the air bag inflator assembly.

- Electrical System
- The air bag system is powered directly from the battery. The system can function with the ignition switch in any position, including OFF and LOCK. The system can also function when the driver's keys are unattached. The electrical system has two main functions:
 - Detects an impact
 - Switches electrical power to the inflator
 - Monitors the system to determine readiness
- The electrical system components include:
- Electrical diagnostic monitor with integrated backup power supply
 - Air bag system readiness indicator