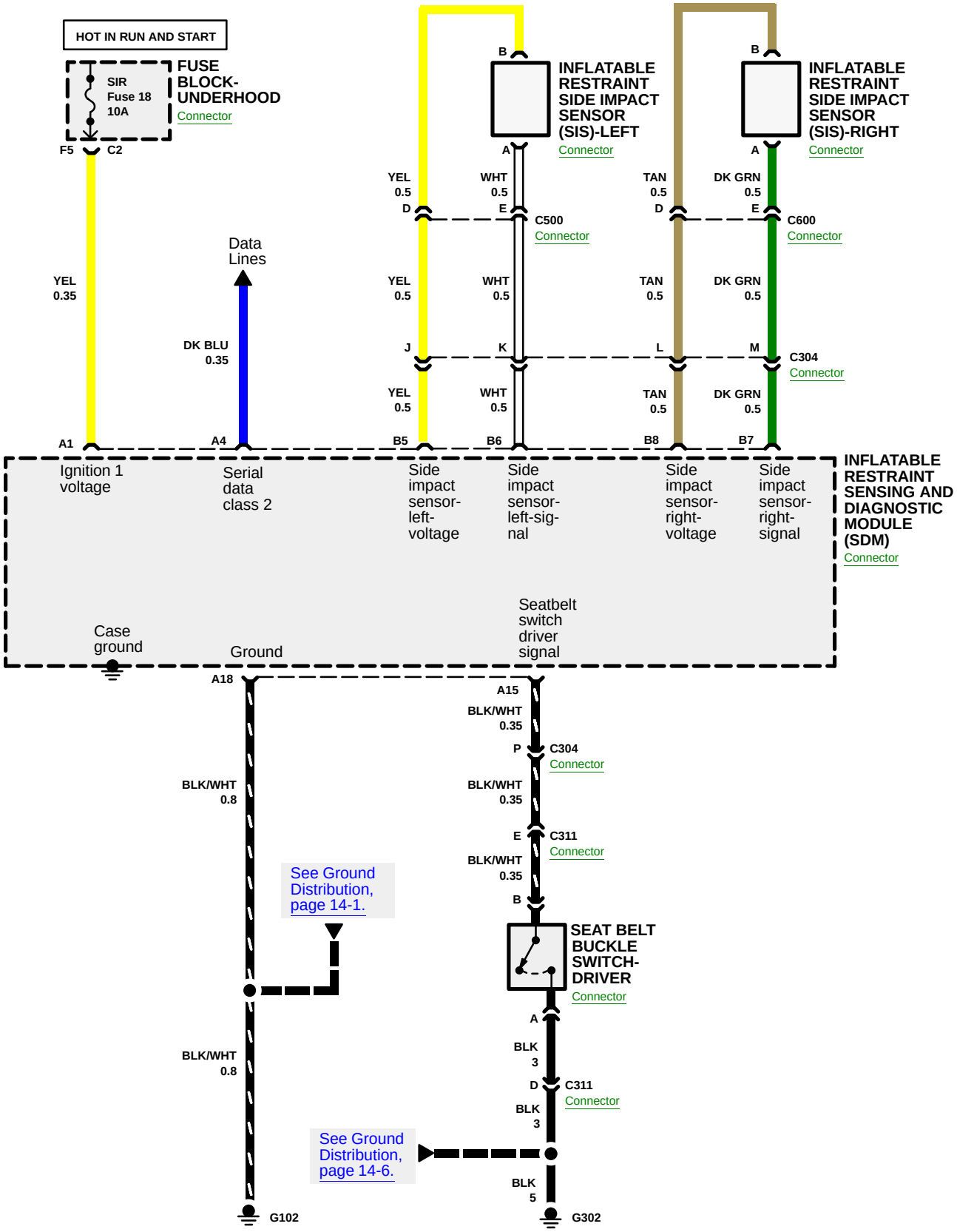
SUPPLEMENTAL RESTRAINT (SRS)

Component Index

Electronic Frontal Sensor (EFS)-Left
Electronic Frontal Sensor (EFS)-Right
Fuse Block-Underhood
Inflatable Restraint I/P Module
Inflatable Restraint Sensing and Diagnostic Module (SDM)
Inflatable Restraint Side Impact Module-LF
Inflatable Restraint Side Impact Module-RF
Inflatable Restraint Side Impact Sensor (SIS)-Left
Inflatable Restraint Side Impact Sensor (SIS)-Right
Inflatable Restraint Steering Wheel Module
Inflatable Restraint Steering Wheel Module Coil
Seat Belt Buckle Switch-Driver

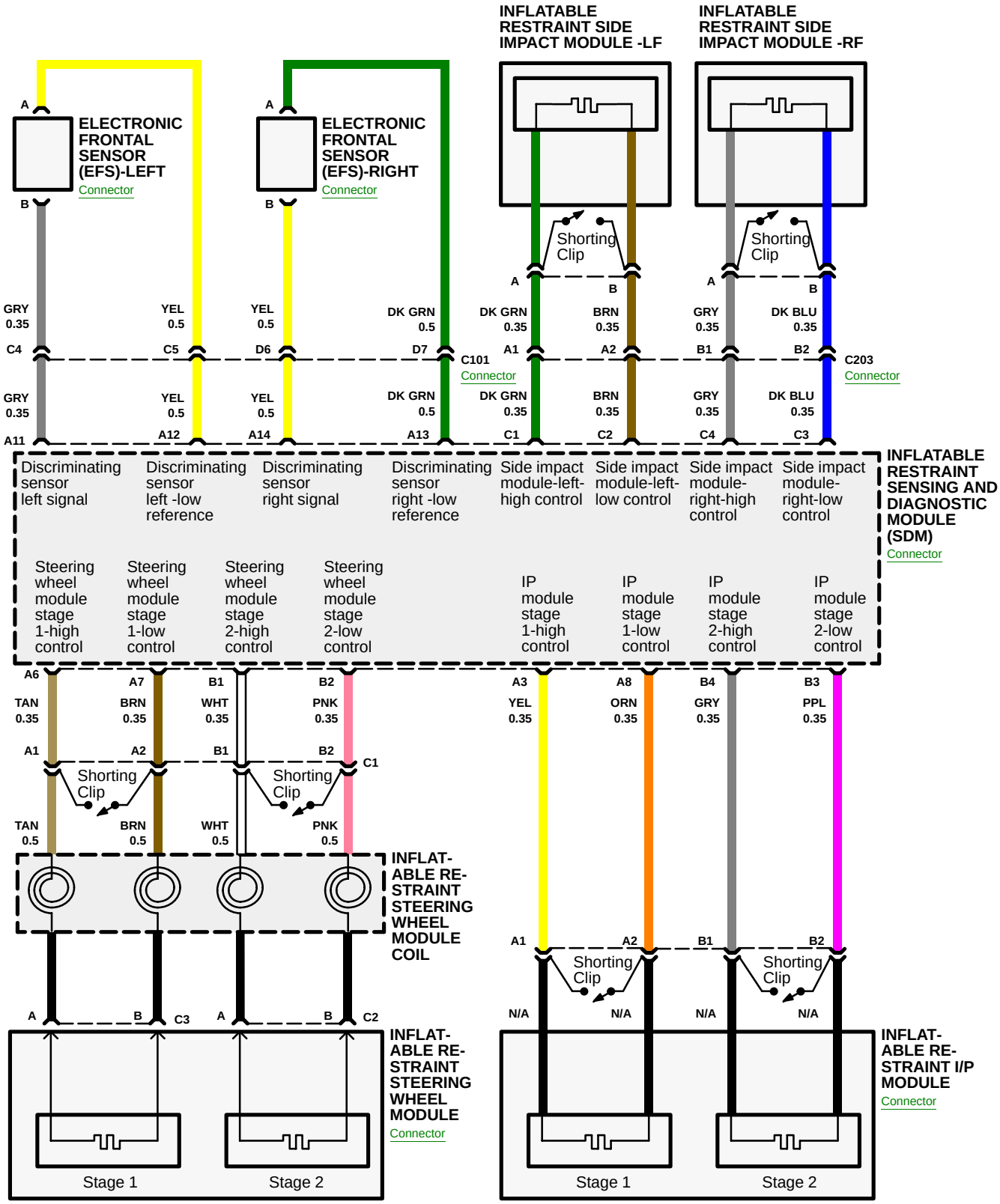
SUPPLEMENTAL RESTRAINT (SRS)

Circuit Schematic



SUPPLEMENTAL RESTRAINT (SRS)

Circuit Schematic



SUPPLEMENTAL RESTRAINT (SRS)

Circuit Operation

The supplemental inflatable restraint (SIR) system supplements the protection offered by the occupant's seat belt system. The SIR system may contain several inflator modules located throughout the vehicle, i.e. steering wheel module, instrument panel (IP) module, side impact modules, or roof rail modules. In addition to inflator modules, the vehicle may contain seat belt pretensioners that tighten the seat belt in the event of a collision, thus reducing the distance between the occupant and the seat belt when an inflator module is deployed. Each inflator module has a deployment loop that is controlled by the sensing and diagnostic module (SDM) mounted inside the vehicle. The SDM determines the severity of a collision with the assistance of various sensor inputs located at strategic points on the vehicle. When the SDM detects a collision of sufficient force it will process the information provided by the sensors to further support air bag deployment. The SDM performs continuous diagnostic monitoring of the SIR system electrical components. Upon detection of a circuit malfunction, the SDM will set a DTC and inform the driver by turning the AIR BAG indicator ON. The steering column and knee bolsters are designed to absorb energy and compress during frontal collisions in order to limit leg movement and decrease the chance of injury to the driver and passenger.

After an Air Bag deployment, the SDM will send out a post-air message to the Rear Integration Module (RIM) through the class 2 serial data circuit. The RIM will unlock the doors and turn ON the interior lights 15 seconds after receipt of this message.

SUPPLEMENTAL RESTRAINT (SRS)

Component Location Index

(Refer to Section 201 for photographs.)

Component		Photo No.
Electronic Frontal Sensor (EFS)-Left	Left side of front frame	
Electronic Frontal Sensor (EFS)-Right	Right side of front frame	
Fuse Block-Underhood	Left side of engine compartment	3
Inflatable Restraint I/P Module	Above I/P compartment	77
Inflatable Restraint Sensing and Diagnostic Module (SDM)	Beneath the lower console	87
Inflatable Restraint Side Impact Module-LF	In the left front seat back	117
Inflatable Restraint Side Impact Module-RF	In the right front seat back	117
Inflatable Restraint Side Impact Sensor (SIS)-Left	In the left front door	97
Inflatable Restraint Side Impact Sensor (SIS)-Right	In the right front door	97
Inflatable Restraint Steering Wheel Module	In center hub of steering wheel	68
Inflatable Restraint Steering Wheel Module Coil	In center hub of steering wheel	
Seat Belt Buckle Switch-Driver	In the seat buckle assembly	119
Connector		
C101 (38-BLK)	Left side of engine compartment	3
C203 (4-YEL)	Lower right side of I/P	77
C304 (16-BLK)	Under carpet, rear floor area	103
C311 (10-BLK)	Lower front of driver's sea	117
C500 (12-BLK)	Midpoint of leading edge of left front door	93
C600 (12-BLK)	Midpoint of leading edge of right front door	93
Ground		
G102	Left side of engine compartment	4
G302	On the lower left B-pillar	105