2023 RAM 1500 CLASSIC
SPECIAL SERVICE SUPPLEMENT

RAM



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INTRODUCTION

Dear Customer,

This booklet is a supplement to the Owner's Manual prepared with the assistance of service and engineering specialists, and is intended to aid the operators of Special Service vehicles (used in severe-duty, high-mileage operations) in understanding the operation and required maintenance procedures for such vehicles. It covers maintenance procedures for vehicles equipped with heavy-duty packages. However, other vehicles operated under the conditions listed below are also considered "severe service" vehicles, and should be serviced and maintained as prescribed in this booklet. You are urged to read this publication and the Owner's Manual carefully.

This vehicle is equipped with a Vehicle Systems Interface Module (VSIM), a 24-way connector, and four additional connectors. The VSIM and connectors allow the vehicle to be upfitted with aftermarket equipment. For further information, please refer to the upfitters information.

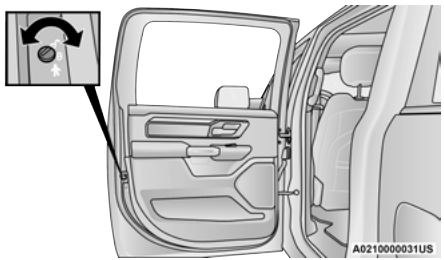
Following the instructions and recommendations provided herein will help ensure safe and reliable operation of your vehicle. After reading the booklet, it should be stored in the vehicle for convenient reference and remain with the vehicle when sold.

When it comes to service, remember that authorized dealers know your Ram best, have factory-trained technicians, genuine Mopar® parts, and care about your satisfaction.

DOORS

Protection Door Lock System — If Equipped

To provide a safer environment for riding in the rear seat, the rear doors of your vehicle have the Protection Door Lock system.



Protection Door Lock

To use the system, open each rear door, use a flat-blade screwdriver (or similar tool) and rotate the dial to engage and disengage the Protection Door Lock system. When the system is engaged on a door, that door can only be opened by using the outside door handle, even if the inside door lock is in the unlocked position.

WARNING!
Avoid trapping anyone in a vehicle in a collision. Remember that the rear doors can only be opened from the outside when the Protection Door Locks are engaged.

INTERIOR LIGHTS

Dome Light

The special service dome light switch has three positions. Position one (I) is used for white light and position two (II) is used for red light. Always remember to return the dome light switch to the center O (off) position when not in use to prevent depletion of the vehicle's battery.



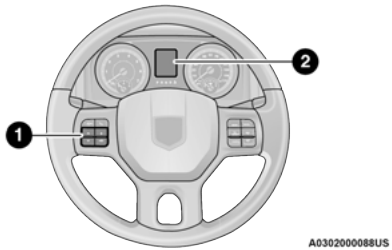
Dome Light Switch

NOTE:

If your vehicle is equipped with illuminated approach lights under the outside mirrors, they can be turned off through the instrument cluster display or the Uconnect system. Refer to "Instrument Cluster Display" in "Getting To Know Your Instrument Panel" and "Uconnect Settings" in "Multimedia" in the Owner's Manual for further information.

GETTING TO KNOW YOUR INSTRUMENT PANEL

INSTRUMENT CLUSTER DISPLAY LOCATION AND CONTROLS



Instrument Cluster Display — Base

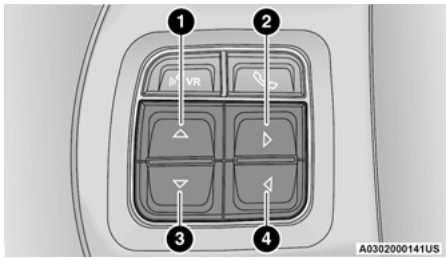
1 – Instrument Cluster Display Controls
2 – Instrument Cluster Display Screen

The instrument cluster display features a driver interactive display that is located in the instrument cluster.

This system allows the driver to select a variety of useful information by pushing the switches mounted on the steering wheel. The instrument cluster display may consist of the following:

- Digital Speedometer
- Vehicle Info
- Fuel Economy Info
- Trip A
- Trip B
- Stop/Start Info (If Equipped)
- Trailer Tow
- Audio
- Stored Messages
- Screen Setup
- Vehicle Settings
  (Not Equipped with a Uconnect 5-inch or 8.4-inch radio)
- Settings
- Turn Menu Off

The system allows the driver to select information by pushing the following buttons mounted on the steering wheel:



Instrument Cluster Display Control Buttons

1 – Up Arrow Button
2 – Right Arrow Button
3 – Down Arrow Button
4 – Left Arrow Button

- **UP** △ Arrow Button

  Push and release the **UP** △ arrow button to scroll upward through the main menu and submenus (Fuel Economy, Trip A, Trip B, Audio, Stored Messages, and Screen Set Up).

- **RIGHT** ▷ Arrow Button

  Push and release the **RIGHT** ▷ arrow button to access/select the information screens or submenu screens of a main menu item. Push and hold the **RIGHT** ▷ arrow button for two seconds to reset displayed/selected features that can be reset.

- **DOWN** ▽ Arrow Button

  Push and release the **DOWN** ▽ arrow button to scroll downward through the main menu and submenus (Fuel Economy, Trip A, Trip B, Audio, Stored Messages, and Screen Set Up).

- **LEFT** ◁ Arrow Button

  Push the **LEFT** ◁ arrow button to access/select the information screens or submenu screens of a main menu item or to return to the main menu from an info screen or submenu item.

VEHICLE INFO (CUSTOMER INFORMATION FEATURES)



Push and release the **UP** △ or **DOWN** ▽ arrow button until the Vehicle Info icon is highlighted in the instrument cluster display. Push and release the **RIGHT** ▷ arrow button and Coolant Temp will be displayed. Push the **RIGHT** ▷ arrow button to scroll to the Engine Hour information submenu:

Engine Hours

The Engine Hours submenu will display the following:

- Idle Hours
- Drive Hours

OCCUPANT RESTRAINTS

Driver and Passenger Advanced Front Air Bags, Supplemental Side Air Bag Inflatable Curtains (SABICs), and Supplemental Seat-Mounted Side Air Bags (SABs) affect the way special service equipment can be safely mounted in special service vehicles.

Any surface that could come into contact with an air bag, once it has been deployed, must not damage the air bag or alter its deployment path.

The addition of the supplemental equipment (such as radios, weapons, mounting brackets, cage, etc.) must be installed such that it will not interfere or come in contact with a deploying air bag. Sharp edges, corners or protrusions on supplemental equipment could damage the nylon air bag material and reduce the effectiveness of the air bag during a deployment.

WARNING!

- Vehicles equipped with left and right Supplemental Side Air Bag Inflatable Curtains (SABICs) must use police cages, which have been approved by the equipment manufacturer, for use in the vehicle.
- The area where the Supplemental Side Air Bag Inflatable Curtains (SABICs) are located should remain free from any obstructions.
- If your vehicle is equipped with left and right Supplemental Side Air Bag Inflatable Curtains (SABICs), care must be taken when installing any type of roof equipment. Drilling and installation of fasteners or other equipment that may interfere with the Supplemental Side Air Bag Inflatable Curtains (SABICs) and air bag wiring harness is not permitted. Furthermore, make sure no equipment or fasteners are located in the air bag deployment zone.

(Continued)

WARNING!

- Do not place objects or mount equipment in front of the air bag module cover, or in front of the seat areas that may come in contact with a deploying air bag.
- Dash, tunnel or console mounted equipment should not be placed outside of the specified zone.
- Failure to follow these instructions could result in personal injury.

AIR BAG DEPLOYMENT ZONES

There are four zones to be aware of:

1. Driver Air Bag Deployment Zone (Figure 1), and Driver Air Bag Lateral Deployment Zones (Figure 2)
2. Passenger Air Bag Deployment Zone (Figure 3) and (Figure 4)
3. Supplemental Side Air Bag Inflatable Curtain (SABIC) Deployment Zone (Figure 5)
4. Supplemental Seat-Mounted Side Air Bag (SAB) Deployment Zone (Figure 6)

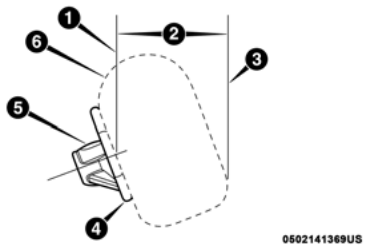


Figure 1 - Driver Air Bag Deployment Zone depicts the following:

1. Vertical Plane Passing Through Center of Steering Wheel
2. 13 inches (330 mm)
3. Vertical Plane Passing Through Maximum Rearward Point that the Driver Air Bag Cushion Reaches
4. Steering Wheel
5. Driver Air Bag Retainer/Housing
6. Driver Air Bag Cushion

DRIVER AIR BAG (DAB)/STEERING COLUMN SPECIFICATIONS

DRIVER AIR BAG (DAB) CUSHION POSITION	
DAB Diameter When Deployed (Full)	26 inches (661 mm)
DAB Depth When Deployed (Full)	12 inches (305 mm)
Maximum Rearward Displacement During Deployment (Full)	16 inches (407 mm)
STEERING COLUMN TILT POSITION RANGE	
+/- 2 Degrees from Steering Column Tilt Pivot Point	
22.9 Degrees from Vertical is the Nominal Position	

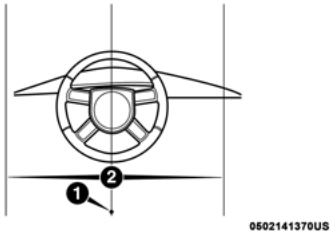


Figure 2 - Driver Air Bag Lateral Deployment Zone depicts the following:

1. Driver Seating Reference
2. Driver Air Bag Cushion Lateral Deployment Zone, 27 inches (686 mm)

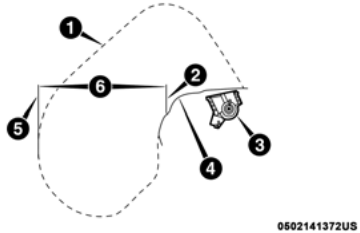


Figure 3- Passenger Air Bag Deployment Zone depicts the following:

1. Passenger Air Bag Cushion
2. Vertical Plane from Point of Instrument Panel
3. Passenger Air Bag Module
4. Instrument Panel
5. Vertical Plane Passing Through the Maximum Rearward Point that the Passenger Air Bag Cushion Reaches
6. 23 inches (584 mm)

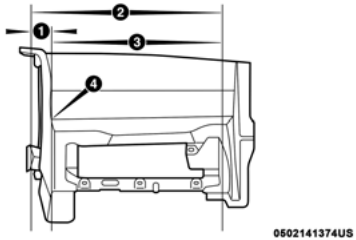


Figure 4 - Passenger Air Bag Lateral Deployment Zone depicts the following:

1. 4.7 inches (119 mm)
2. Passenger Air Bag Cushion Deployment Zone
3. 29.8 inches (756 mm)
4. Reference Point

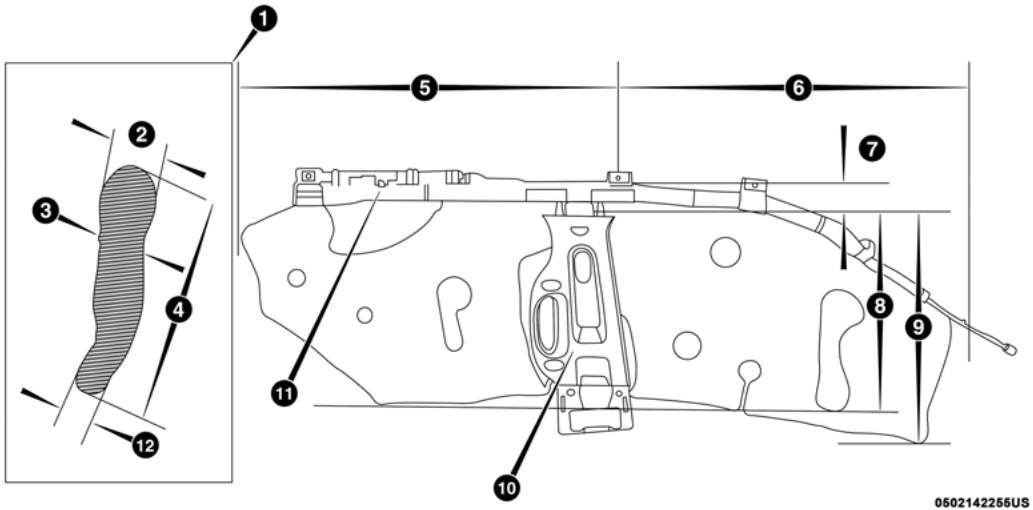


Figure 5 - Crew Cab Supplemental Side Air Bag Inflatable Curtain Air Bag Deployment Zone depicts the following:

1. Cross-Sectional Area Side View
2. 4.85 inches (123 mm)
3. 4.29 inches (109 mm)
4. 19.92 inches (506 mm)
5. 36.81 inches (935 mm)
6. 34.5 inches (877 mm)
7. 3.3 inches (84 mm)
8. 16.92 inches (430 mm)
9. 22.2 inches (564 mm)
10. B-pillar Trim
11. Side-Curtain Air Bag Inflator Module
12. 2.83 inches (72 mm)

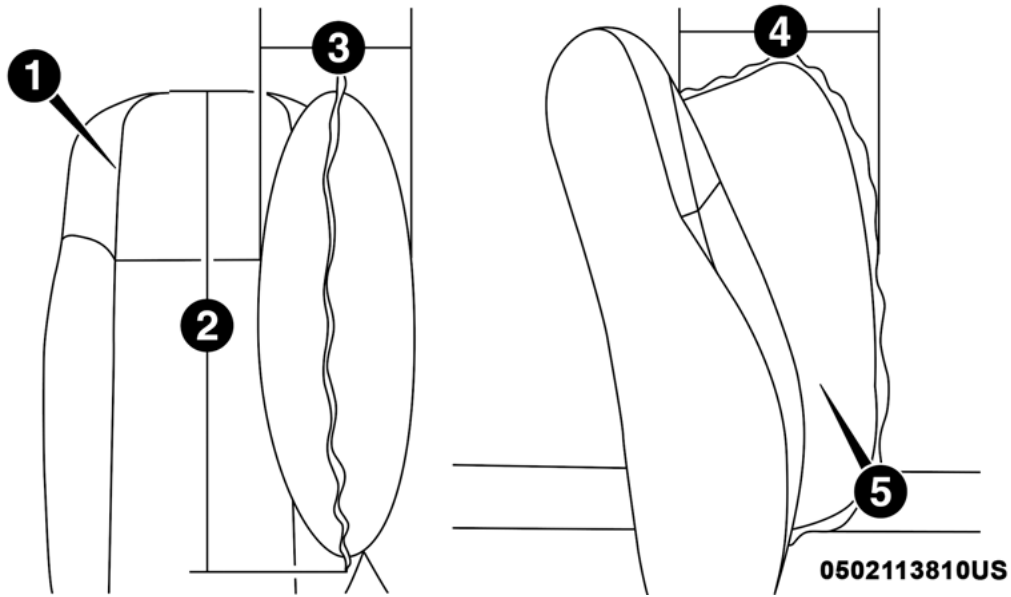


Figure 6 - Supplemental Seat Mounted Side Air Bag Deployment Zone depicts the following:

1. Front Driver's Seat
2. 18.5 inches (470 mm)
3. 6.3 inches (160 mm)
4. 11.8 inches (300 mm)
5. Seat-Mounted Air Bag

SERVICING AND MAINTENANCE

VEHICLE MAINTENANCE

Special Service vehicles are equipped with heavy-duty parts that are designed specifically for the varying demands and unique requirements under which they are operated. This booklet illustrates and describes the operation of unique features and equipment that are either standard or optional on this vehicle. A description of features and equipment no longer available, or not ordered on this vehicle, may also be included.
Please disregard any features and equipment described in this manual that are not on this vehicle.

Failure to maintain your vehicle properly may reduce vehicle performance and operational capabilities, adversely affect the safety of you and your passengers, as well as restrict your warranty coverage. Refer to "Scheduled Servicing" in "Servicing And Maintenance" in the Owner's Manual for the proper maintenance intervals.

The manufacturer reserves the right to make changes in design and specifications, and/or make additions to or improvements to its products, without imposing any obligation upon itself to install them on products previously manufactured.

FUSES

General Information

WARNING!

- When replacing a blown fuse, always use an appropriate replacement fuse with the same amp rating as the original fuse. Never replace a fuse with another fuse of higher amp rating. The use of a fuse with a rating other than indicated may result in a dangerous electrical system overload. If a properly rated fuse continues to blow, it indicates a problem in the circuit that must be corrected. Never replace a blown fuse with metal wires or any other material. Do not place a fuse inside a circuit breaker cavity or vice versa. Failure to use proper fuses may result in serious personal injury, fire and/or property damage.
- Before replacing a fuse, make sure that the ignition is off and that all the other services are switched off and/or disengaged.
- If the replaced fuse blows again, contact an authorized dealer.
- If a general protection fuse for safety systems (air bag system, braking system), power unit systems (engine system, transmission system) or steering system blows, contact an authorized dealer.

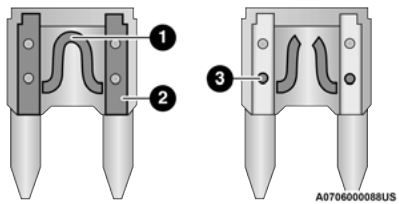
CAUTION!

If it is necessary to wash the engine compartment, take care not to directly hit the fuse box, and the windshield wiper motor with water.

The fuses protect electrical systems against excessive current.

When a device does not work, you must check the fuse element inside the blade fuse for a break/melt.

Also, please be aware that using power outlets for extended periods of time with the engine off may result in vehicle battery discharge.



Blade Fuses

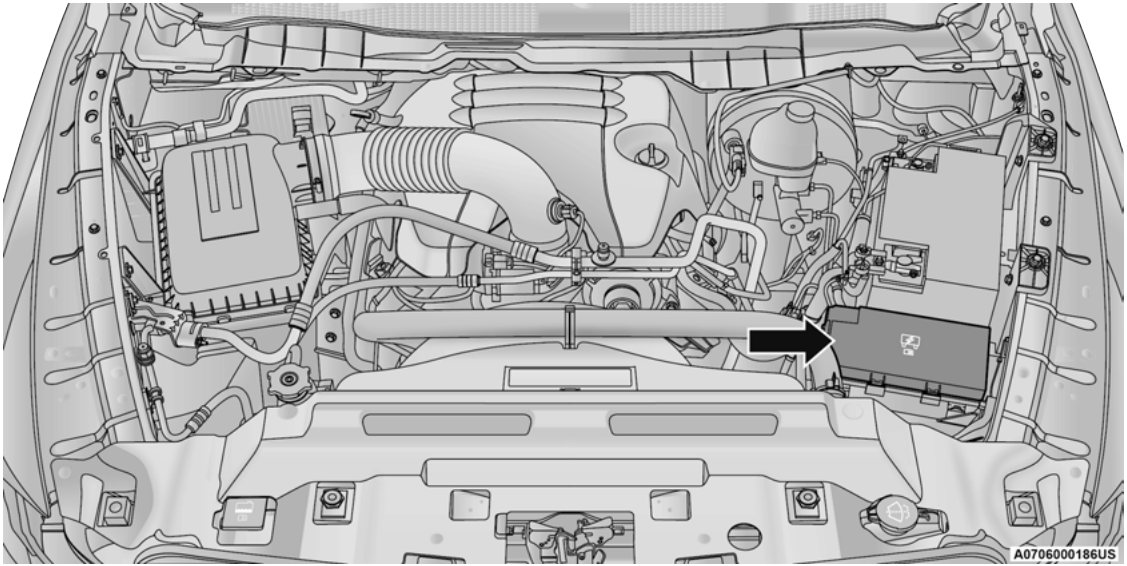
1 — Fuse Element
2 — Blade Fuse with a good/functional fuse element
3 — Blade Fuse with a bad/not functional fuse element (blown fuse)

Power Distribution Center

The Power Distribution Center is located in the engine compartment near the battery. This center contains cartridge fuses, micro fuses, relays, and circuit breakers. A description of each fuse and component may be stamped on the inside cover, otherwise the cavity number of each fuse is stamped on the inside cover that corresponds to the following chart.

CAUTION!

When installing the power distribution center cover, it is important to ensure the cover is properly positioned and fully latched. Failure to do so may allow water to get into the power distribution center and possibly result in an electrical system failure.



Power Distribution Center Location

Cavity	Cartridge Fuse	Micro Fuse	Description
*If Equipped			
F01	–	–	Spare
F02	–	–	Spare
F03	60 Amp Yellow	–	Rad Fan HI / LO *
F04	–	–	Spare
F05	50 Amp Red	–	AUX Relay 1
F06	50 Amp Red	–	ABS Pump Mtr
F07	40 Amp Green	–	Starter Solenoid
F08	40 Amp Green	–	AUX Relay Output 4
F09	40 Amp Green	–	AUX Relay Output 3
F10	40 Amp Green	–	CBC #2 (EXT Lighting)
F11	30 Amp Pink	–	Power - TRLR Tow Electric Brake Batt Feed
F12	40 Amp Green	–	CBC #3
F13	40 Amp Green	–	HVAC BLWR MTR
F14	40 Amp Green	–	CBC #4
F15	40 Amp Green	–	Spare
F16	–	–	Spare
F17	–	–	Spare
F18	–	–	Spare
F19	–	–	Spare

Cavity	Cartridge Fuse	Micro Fuse	Description
		*If Equipped	
F20	30 Amp Pink	–	Pass Door Mod
F21	30 Amp Pink	–	DTCM
F22	20 Amp Blue	–	ECM - GPEC / Heavy Duty / Other
F23	30 Amp Pink	–	CBC #1
F24	30 Amp Pink	–	Driver Door Mod
F25	30 Amp Pink	–	FT Wiper
F26	30 Amp Pink	–	BSM - ECU & Valves
F27	25 Amp Clear	–	Spare
F28	20 Amp Blue	–	TRLR Tow B/U
F29	20 Amp Blue	–	TRLR Tow Park
F30	30 Amp Pink	–	TRLR Tow
F31	20 Amp Blue	–	AUX App
F32	20 Amp Blue	–	AUX Feed
F33	20 Amp Blue	–	AUX Feed
F34	30 Amp Pink	–	VSIM#2 *
F35	30 Amp Pink	–	Sunroof *
F36	30 Amp Pink	–	EBL *
F37	30 Amp Pink	–	AUX Relay 2
F38	30 Amp Pink	–	Power Inverter *

Cavity	Cartridge Fuse	Micro Fuse	Description
		***If Equipped**	
F39	20 Amp Blue	–	Rear Power Outlet
F40	–	–	Spare
F41	–	10 Amp Red	Spare
F42	–	20 Amp Yellow	Horn
F43	–	–	Snow Plow LT
F44	–	10 Amp Red	Diagnostic Port
F45	–	–	Spare
F46	–	10 Amp Red	Spare
F47	–	–	Snow Plow RT
F48	–	–	Spare
F49	–	10 Amp Red	Instrument Cluster
F50	–	20 Amp Yellow	Spare
F51	–	10 Amp Red	Ign Mod / KIN MOD / RF HUB / Electric Steering Column Lock
F52	–	5 Amp Tan	Batt Snsr
F53	–	20 Amp Yellow	TRLR Tow– Lt Turn / Stop *
F54	–	20 Amp Yellow	Adj Pedals *
F55	–	25 Amp Clear	Spotlight
F56	–	–	Spare
F57	–	20 Amp Yellow	Transmission
F58	–	20 Amp Yellow	Spare

Cavity	Cartridge Fuse	Micro Fuse	Description
*If Equipped			
F59	–	–	Spare
F60	–	–	Spare
F61	–	–	Spare
F62	–	10 Amp Red	A/C Clutch
F63	–	20 Amp Yellow	Ignition Coils / Ignition Coil Capacitors / Short Runner Valve Actuator
F64	–	25 Amp Clear	Fuel Injectors / PCM
F65	–	10 Amp Red	Spare
F66	–	10 Amp Red	Sunroof / LRSM / R/A Relay #2 Coil Feed
F67	–	10 Amp Red	Bluetooth® / CDM *
F68	–	10 Amp Red	AEB RACAM Heater
F69	–	–	Spare
F70	–	30 Amp Green	Fuel Pump MTR
F71	–	25 Amp Clear	Spare
F72	–	–	Spare
F73	–	–	Spare
F74	–	–	Spare
F75	–	10 Amp Red	Cool Temp Valve
F76	–	10 Amp Red	BSM / STP LP SW / EPB / ESC *

Cavity	Cartridge Fuse	Micro Fuse	Description
		***If Equipped**	
F77	–	10 Amp Red	DTCM / ELSD / FAD / PTU / RDM / EGS53 TRNS RLY CNTRL
F78	–	10 Amp Red	ECM / PCM / EPS
F79	–	–	Spare
F80	–	10 Amp Red	UGDO / COMP / ITM
F81	–	20 Amp Yellow	TRLR Tow RT Turn / Stop *
F82	–	10 Amp Red	SCCM / Cruise Control
F83	–	–	Spare
F84	–	15 Amp Blue	HVAC / ICS
F85	–	10 Amp Red	ORC (AIRBAG)
F86	–	10 Amp Red	ORC (AIRBAG)
F87	–	10 Amp Red	Air Suspension Mod / Trailer Tow / DC/DC Converter / SCCM / Occupant Snsr
F88	–	15 Amp Blue	IPC
F89	–	–	Spare
F90	–	–	Power Outlet (RR seats)
F91	–	20 Amp Yellow	Power Outlet (RR seats)
F92	–	10 Amp Red	Rear Console Lamp

Cavity	Cartridge Fuse	Micro Fuse	Description
***If Equipped**			
F93	–	20 Amp Yellow	Cigar Lighter *
F94	–	10 Amp Red	4X4
F95	–	10 Amp Red	RR Cam / Park Assist / Blind Spot Sensor / Compass
F96	–	10 Amp Red	RR Seat Heater SW / Trunk Lamp / Truck Lamp
F97	–	–	Spare
F98	–	25 Amp Clear	Spare
F99	–	10 Amp Red	HVAC / DASM
F100	–	–	Spare
F101	–	15 Amp Blue	Spare
F102	–	–	Spare
F103	–	–	Spare
F104	–	20 Amp Yellow	Power Outlets IP / Cnter Console / Trunk

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FIRST EDITION
23_DS_SS_SU_EN_USC