Question:
How Do I Install a Back of Cab Remote Power Module Kit and Switch Pack?
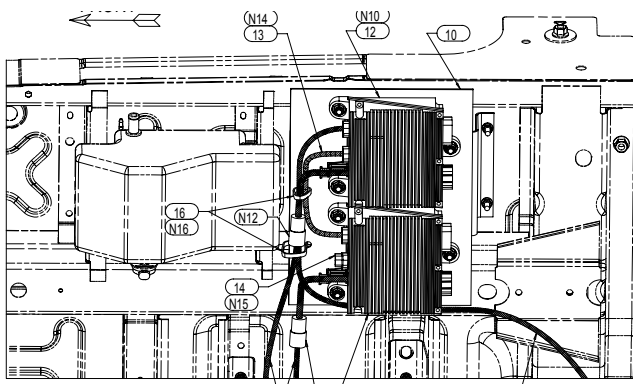
Answer:
- Purchase a remote power module and switch pack kit, Part Number 2506408C92 from International Service Parts.

- Place all parts on a convenient workspace to locate and identify all piece parts. Read all of these instructions before beginning the installation.

- This Kit is for left mounted battery box for 4000s' and under cab for 7000's. If truck has right mounted battery box, add 3558936C91. If adding two RPM's use jumper harness 3558937C91 from first to second RPM and add 3558934C91 cable for the battery feed.

- If RPM brackets are needed, the following part numbers will need to be ordered
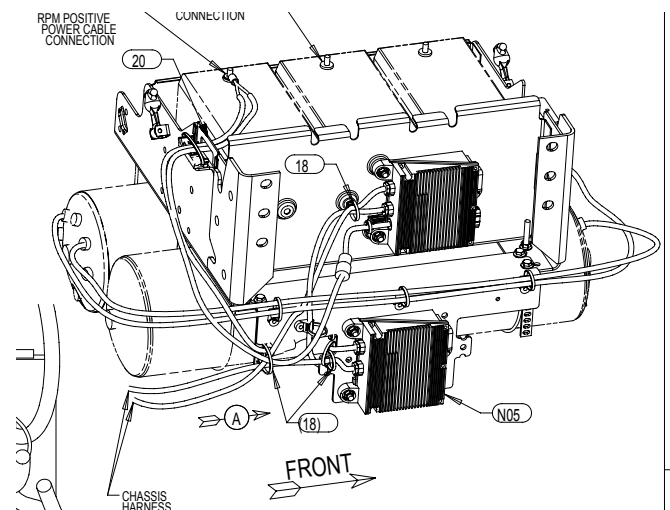 4000 models: RPM Bracket for second Back of Cab RPM – 3558794C1

  7000 models (1 or 2 RPM's):
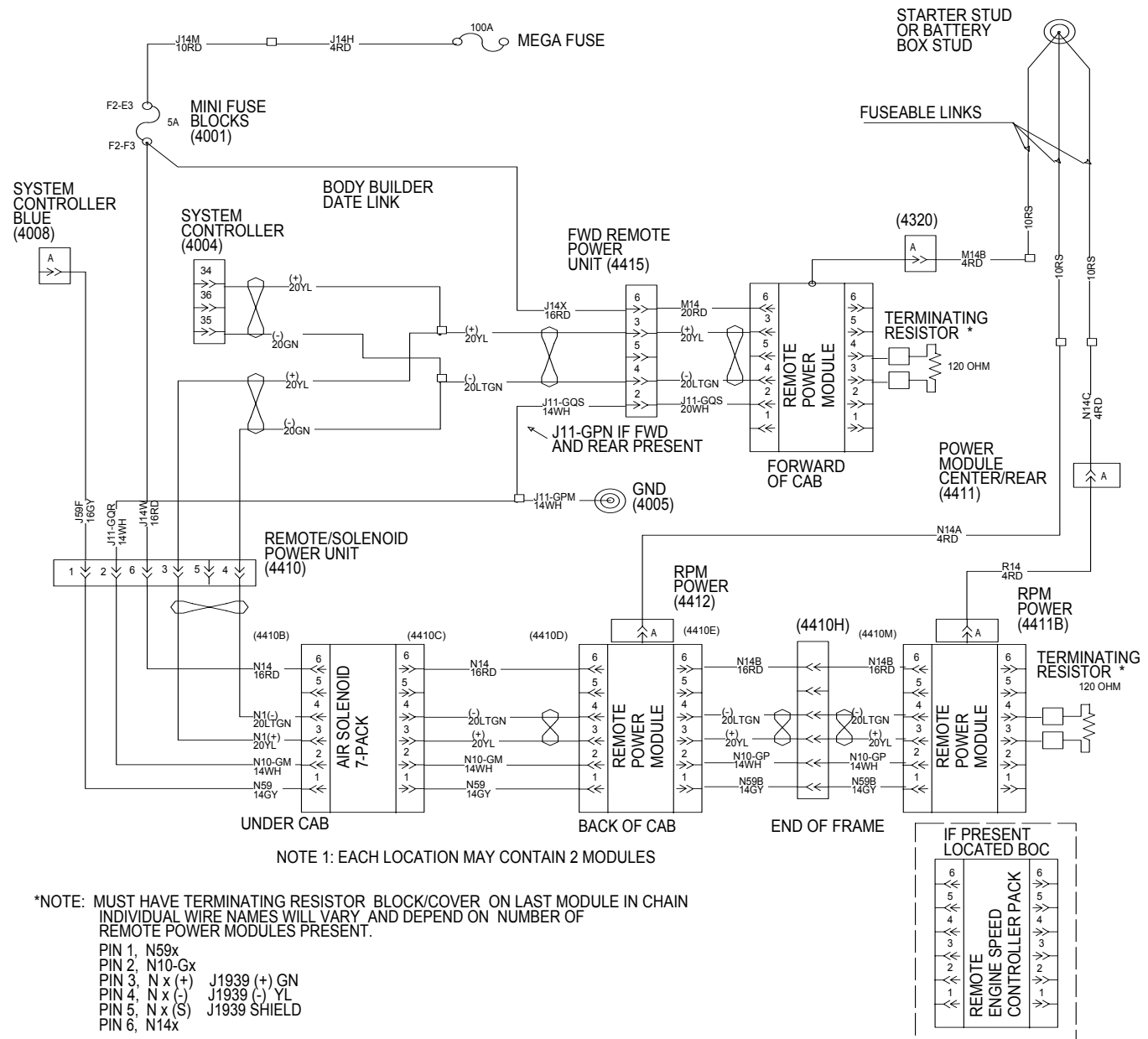 Day Cab – 3582976C1
  Crew/Extended Cab – 3582983C1

Mounted under driver side of cab for 7000 Models
  3582976C1 - Day Cab Mounting Bracket
  3582983C1 - Crew/Extended Cab Mounting Bracket

Mounted under battery box for 4000 Model
3558794C1 - Mounting Bracket.

- Attach the mounting bracket the underside of the vehicle cab on 7000 models (driver's side) and the back of the battery box if a second RPM is mounted on a 4000 series. See figures above.
- Attach the remote power module to the vehicle-mounting bracket and securely tighten the fasteners.
- Install dash harness and center chassis harness as per the following instructions. The schematic diagram is provided for your assistance in the installation.
- Wrap the add-on harnesses to respective dash and center chassis harnesses with electrical tape or other harness wrap after the installation. Ensure harnesses are routed away from sharp edges and properly clipped for good wire harness support.

MEGA FUSE 100A

MINI FUSE BLOCKS (4001) 5A

BODY BUILDER DATE LINK

STARTER STUD OR BATTERY BOX STUD

FUSEABLE LINKS

SYSTEM CONTROLLER BLUE (4008)

SYSTEM CONTROLLER (4004)

FWD REMOTE POWER UNIT (4415)

(4320)

REMOTE POWER MODULE

FORWARD OF CAB

TERMINATING RESISTOR *
120 OHM

POWER MODULE CENTER/REAR (4411)

J11-GPN IF FWD AND REAR PRESENT

GND (4005)

REMOTE/SOLENOID POWER UNIT (4410)

RPM POWER (4412)

RPM POWER (4411B)

AIR SOLENOID 7-PACK

REMOTE POWER MODULE

REMOTE POWER MODULE

TERMINATING RESISTOR *
120 OHM

UNDER CAB

BACK OF CAB

END OF FRAME

NOTE 1: EACH LOCATION MAY CONTAIN 2 MODULES

IF PRESENT LOCATED BOC

REMOTE ENGINE SPEED CONTROLLER PACK

*NOTE: MUST HAVE TERMINATING RESISTOR BLOCK/COVER ON LAST MODULE IN CHAIN
INDIVIDUAL WIRE NAMES WILL VARY AND DEPEND ON NUMBER OF REMOTE POWER MODULES PRESENT.
PIN 1, N59x
PIN 2, N10-Gx
PIN 3, N x (+)   J1939 (+) GN
PIN 4, N x (-)   J1939 (-) YL
PIN 5, N x (S)   J1939 SHIELD
PIN 6, N14x

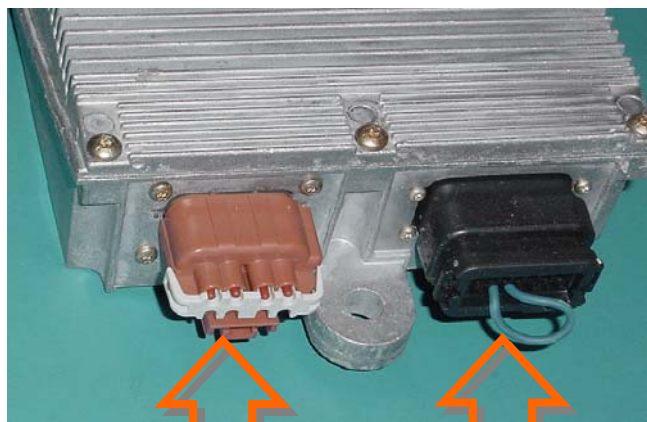| CHK	DATE	CHANGE	REV	REFERENCE	DRAWN U00JXP9	NAME 42/43/44/85/8600 & 73/74/7500 CIRC DIAGRAMS		
CNA	22AUG02	REMOVED SHLD WIRES; MEGAFUSE WAS MAXI.	D	56507K	RELEASE NO. P52778H	DATE 10AUG00	PART NO. AE08-52373	SHEET 15

Installation Instructions

1. Install J11-GPN and J11-GQR to ground stud 4005 near Power Distribution Panel.
2. Insert J14W & J14X {Red} into the Power Distribution Panel (4001) cavity F2-F3.
3. Insert J5M (+) {Yellow} into Electronic System Controller (4004) cavity 34.
4. Insert J5M (-) {Green} into Electronic System Controller (4004) cavity 35.
5. Insert the Terminating Resister into connector (4415) if not using a Forward of Cab RPM or in Forward RPM if using the Forward RPM.
6. Insert J59F {gray} into Electronic System Controller (4008) cavity A.
7. Insert 5 amp fuse in cavity F2-F3 of the Power Distribution Panel.

NOTE: If an Air Solenoid 7-Pack is not present, plug connector into first RPM at Back of Cab.
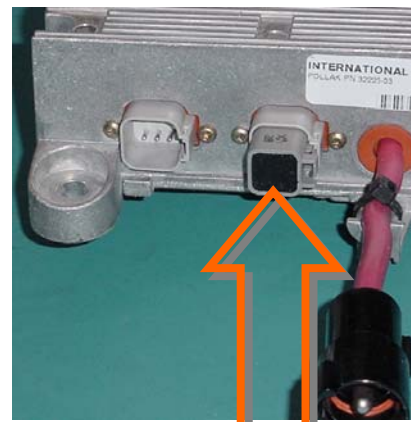
How do I hook it up?

- The RPM has 2 pins in the black 23-pin signal connector that must be jumpered correctly to properly address the module. The first RPM should be addressed as #1 (pins 1 and 2 jumpered together) The second RPM should be addressed as #2 (pins 3 and 4 jumpered together) The RPM is available from International Service Parts with pre-installed address jumpers by separate part numbers.
- No two modules can have the same address on the same vehicle.
- The two identical 6 pin connectors located on the power input side of the module are the data link connectors. They are pass thru connectors that allow for the daisy chaining of modules. Only one connector plugs into the chassis harness.
- The last module in the chain must have a 120-ohm terminating resistor in the data link connector.
- Connect the heavy gauge battery cable to the one way connector on the remote power module and the other end to the vehicle batteries.

Power Output Circuits

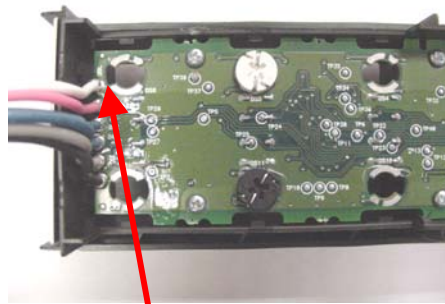**Switched Input Connector**

Terminating Resistor

Installation of Switch Packs

White Base: Indication of ON Lamps
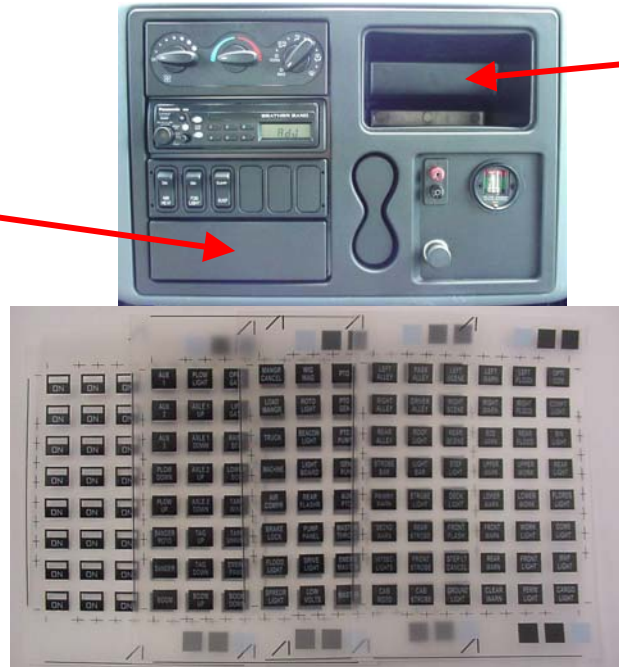
Base: Night Time Panel Lamp

Black

White Wire indicates the TOPside of switch pack

- Install 2 position-latched switches into each position of the switch housing. Push each switch in to the switch pack until it snaps into place. There is a keying feature so it cannot be installed upside down.
- Remove the rear cover of the switch pack. It is attached with a snap fit. See the attached pictures to determine which end is up on the switch pack. Install the LED lamps with the white base in the upper section of each switch on the switch pack housing. These are the indication of ON lamps and will glow green when activated. Note that the LED lamps have a keying feature as they are installed in the switch pack circuit board. If the lamps are forced in against the proper orientation, they will not illuminate.
- Install the LED lamps with the black base in the lower section of each switch on the switch pack housing. These are the back light lamps and will glow amber when the panel lights are on. Re-attach the rear cover and secure the wire harnesses under the cover hooks.
- Locate a free switch pack opening in the central instrument panel.
- If no switch packs are present in the vehicle, remove the switch blank below the radio space and locate the 6-pin cab harness for the switch packs. Connect the cab switch harness to the left side switch pack harness (as viewed from the front). Connectors are keyed to ensure proper connection. Ensure that the switch pack is installed in the proper orientation. The green indication of ON lamps must be on top when viewing the front of the switch pack.
- If one 6-switch pack is already present, locate the new switch pack in the lower left switch pack area.
- Connect the second harness of the first switch pack to the input cable harness of the second switch pack.
- Install the second switch pack into center instrument panel. It is secured with a snap action.
- Determine the function of each of the newly added rocker switches. Locate the set of switch labels in the parts kit. Place the labels named "ON" in the upper section of each windowed rocker switch. Place the switch name in the lower portion of the rocker switch.

12 Pack of Switches go here

Next Available free switch pack slot in center panel.

Graphic Label Kit for Windowed Rocker Switches

Programming The System

- The remote power module and switch pack system is now installed.
- The electrical system must now be programmed to recognize these new components.
- If you own either the ICAP or Diamond Logic Builder Program, enable the appropriate 595xxx software feature code as follows:
  - 595032 Remote Power Module 1, one to one mapping between switch pack and power module
  - 595121 Remote Power Module 2, one to one mapping between switch pack and power module
  - 595119 Remote Power Module 4, one to one mapping between switch pack and power module
  - 595120 Remote Power Module 7, one to one mapping between switch pack and power module
  - For body integration features, make selections from entire list of 595 software codes.
- The system may also be programmed at your nearest International Dealer Contact your dealer for details if you want to purchase either of these programs.
- When other Body Integration Features are used, please refer to the **Body Integration Feature** section for further directions on installing these features.

Testing the Remote Power Module System
- Turn the ignition key to the accessory position.
- If a "one to one" mapping software feature was installed, turn on the first switch.
- The green indicator should illuminate and the first channel output of the remote power module should be at battery volts.
- Each respective switch and power module output should operate in a similar fashion.
- If a body integration feature was installed, refer to the electrical Body Builder Book for a functional description of each feature.