Chassis Connections

Installation Guide sections reference this Chassis section for CAN and Power locations.

All Installation Guide sections can be found at commandalkon.com or scan the QR code for a direct link to the Command Alkon Documentation page.

Chassis CAN and Power Connections

This section shows the typical Chassis CAN (Mixer CAN, if applicable) and Power connection locations for the truck types listed in the table below.

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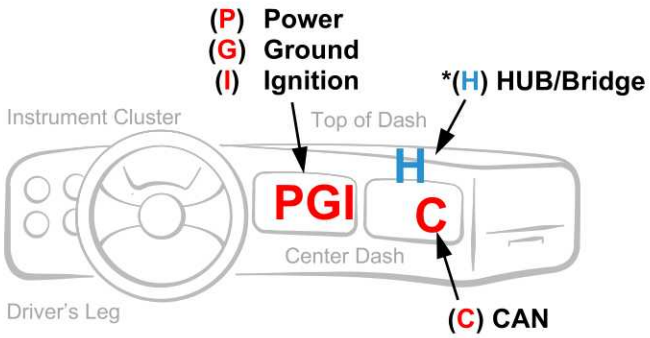
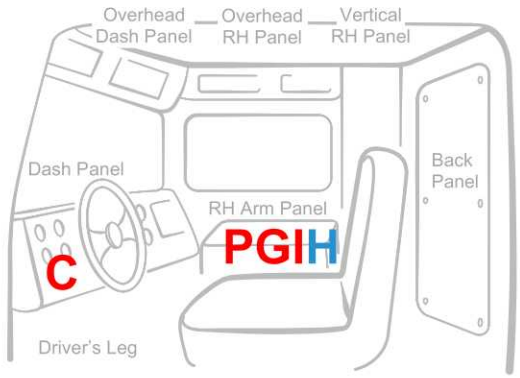
Diagram Reference

Each truck type shows a quick reference diagram indicating connector locations.

***(H) HUB/Bridge** recommended mounting location—choosing a location drastically different may require additional parts or custom harnessing.



Rear Discharge Dash View



Front Discharge Cab View

Rear Discharge Mixers

Peterbilt – 2016 or newer

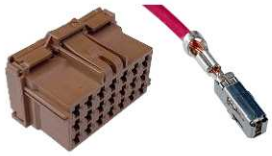
(H) Hub/Bridge typical mounting location.

Chassis CAN and Power Connections:

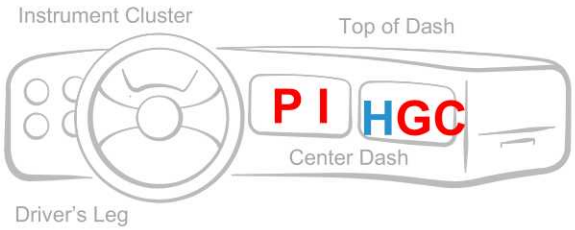
(C) CAN: KCAN (250K)
AmpSeal Connector

Check wire colors when plugged into Chassis CAN—if wire colors do not match up, see note below.

(P) Power, (G) Ground, (I) Ignition
Splice Block, Terminal

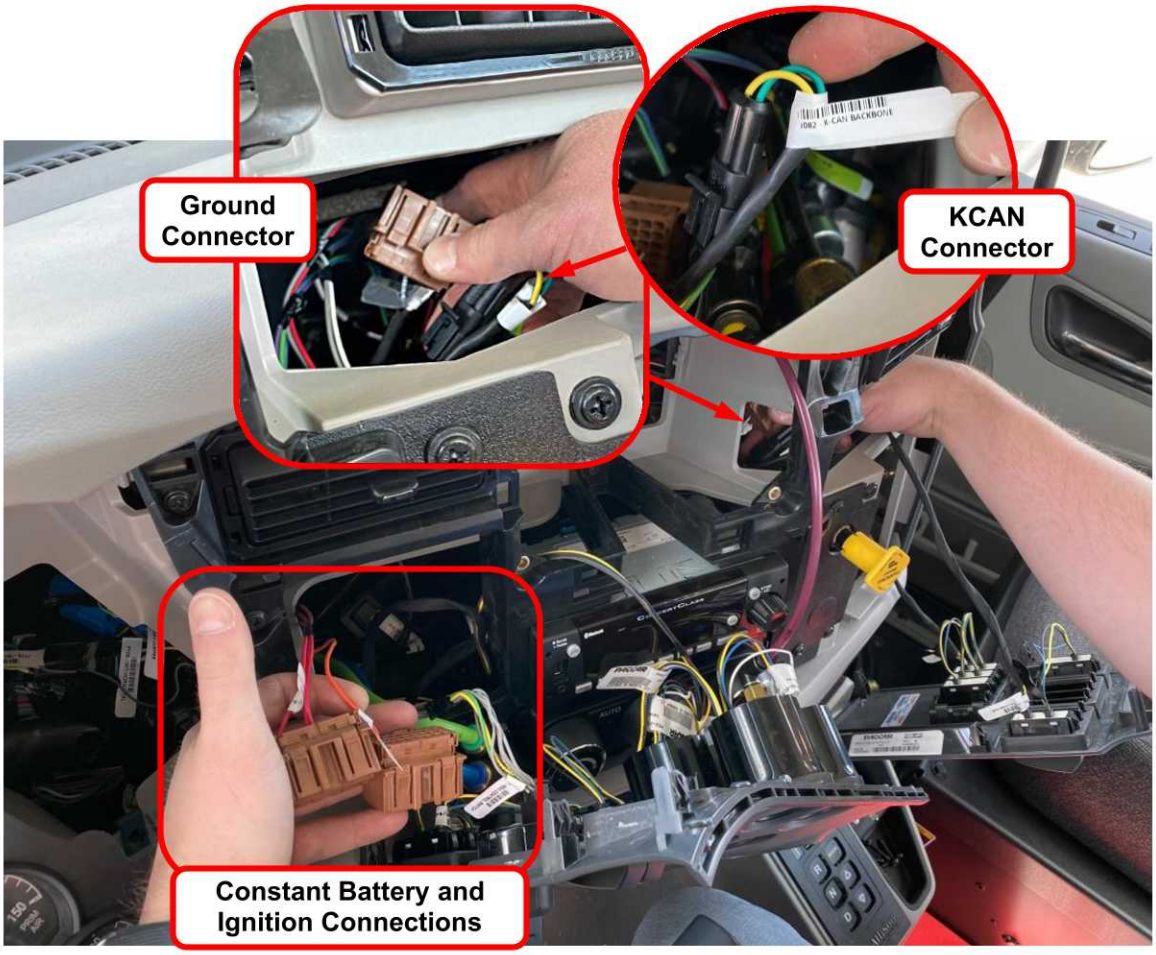


Typical Connection Locations



See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).



Note: Some Kenworth and Peterbilt Chassis (Paccar trucks) have switched the green and yellow wires in the CAN connector. For this scenario, swap the green and yellow wires at the Hub (the N2-3 and N2-4 positions).

Kenworth – 2016 or newer

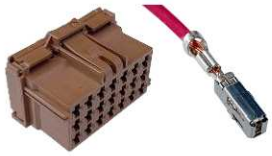
(H) Hub/Bridge typical mounting location.

Chassis CAN and Power Connections:

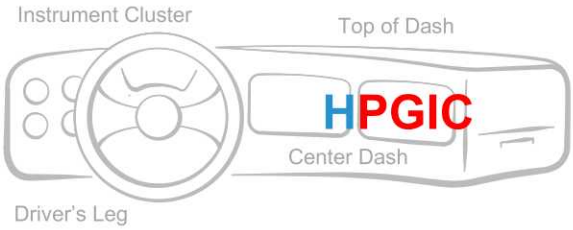
(C) CAN: KCAN (250K)
AmpSeal Connector

Check wire colors when plugged into Chassis CAN—if wire colors do not match up, see note below.

(P) Power, (G) Ground, (I) Ignition
Splice Block, Terminal



Typical Connection Locations



See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

Note: Some Kenworth and Peterbilt Chassis (Paccar trucks) have switched the green and yellow wires in the CAN connector. For this scenario, swap the green and yellow wires at the Hub (the N2-3 and N2-4 positions).

Kenworth or Peterbilt – 2008–2015

(H) Hub/Bridge typical mounting location.

Chassis CAN and Power Connections:

(C) CAN: VCAN (250K or 500K)
AmpSeal Connector

Check wire colors when plugged into Chassis CAN—if wire colors do not match up, see note.

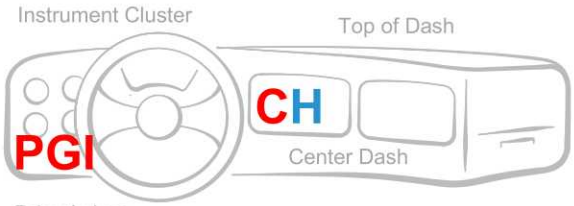
(P) Power, (G) Ground, (I) Ignition
Possible Connector Types:

Bullet Connector

Splice Block and Terminal

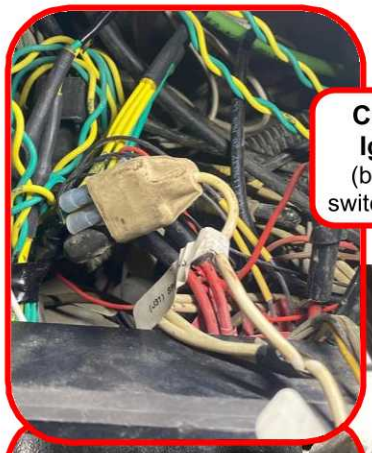
Note: Some Kenworth and Peterbilt Chassis (Paccar trucks) have switched the green and yellow wires in the CAN connector. For this scenario, swap the green and yellow wires at the Hub (the N2-3 and N2-4 positions).

Typical Connection Locations



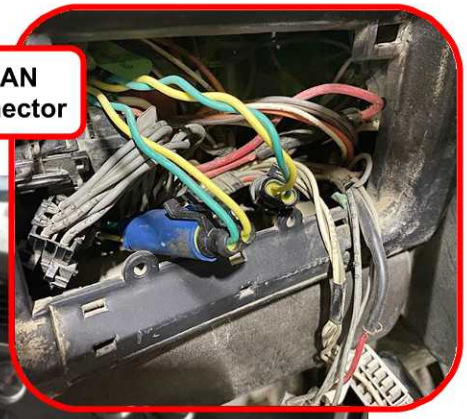
See image references below.

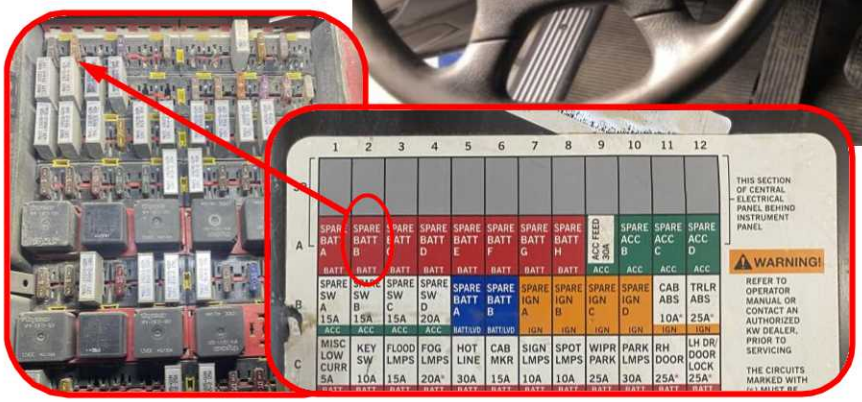
Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).



Constant Battery, Ignition, Ground
(behind or above key switch; check wire labels)

VCAN Connector





To use a bullet terminal, add a 5-amp fuse to the wire's matching slot in the fuse box.

Fuse Box located by driver's leg.

i.e.: If power wire label shows Spare Batt B; use fuse box label to find Spare Batt B fuse slot—install a 5-amp fuse.

Mack Granite – 2023 or newer

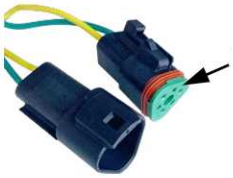
(H) Hub/Bridge typical mounting location.

Chassis CAN and Power Connections:

(C) CAN: VCAN (250K); Possible Connector Types:

Delphi/Aptiv (2 position)

DTM Series (2 position) (has an orange or black wedgelock)



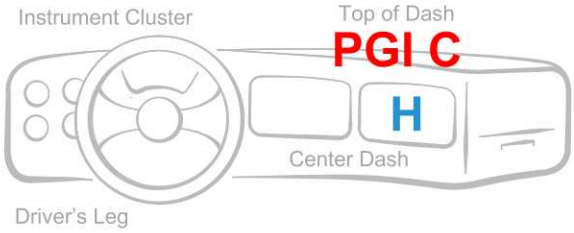
DT Series (3 position) (has a blue or green wedgelock)

Wedgelock—for DT or DTM Series, see color note below.

(P) Power, (I) Ignition
GEN-101

(G) Ground,
GEN-110

Typical Connection Locations

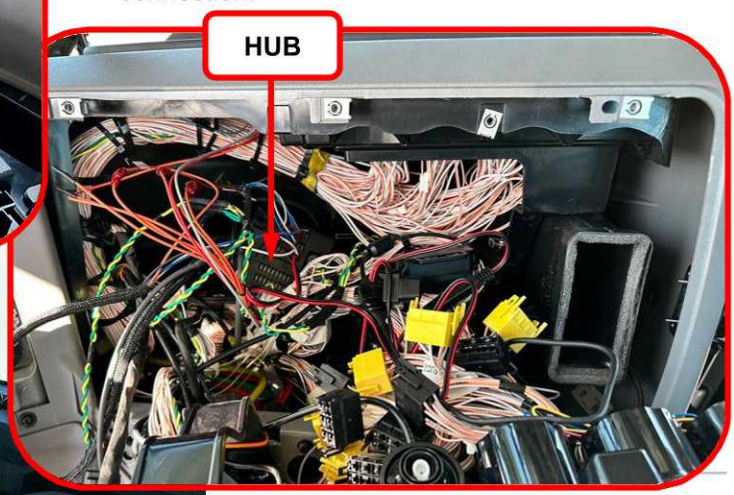


See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

Note: Locate **PWR**, **IGN**, **GND** wires—cut heat shrink or connectors off wire ends; strip the ends and crimp on appropriate terminals (female on PWR, IGN; male on GND).

Install opposite terminal ends on the matching Command Alkon harness wires to make each connection.



Note: Wedgelock colors must match to connect. **If colors do not match**—remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis CAN harness, then matching colors will connect.

Mack Granite – 2022 or older

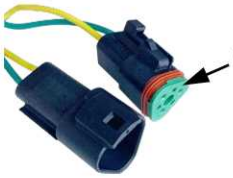
(H) Hub/Bridge typical mounting location.

Chassis CAN and Power Connections:

(C) CAN: VCAN (250K); Possible Connector Types:

Delphi/Aptiv (2 position)

DTM Series (2 position) (has an orange or black wedgelock)



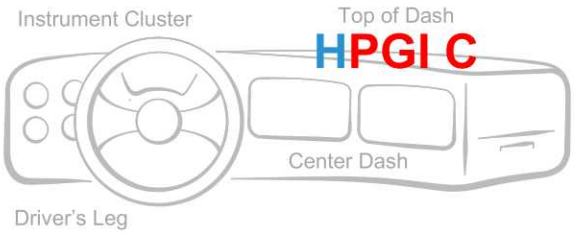
DT Series (3 position) (has a blue or green wedgelock)

Wedgelock—for DT or DTM Series, see color note below.

(P) Power, (G) Ground, (I) Ignition

#10 Ring Terminal/Stud

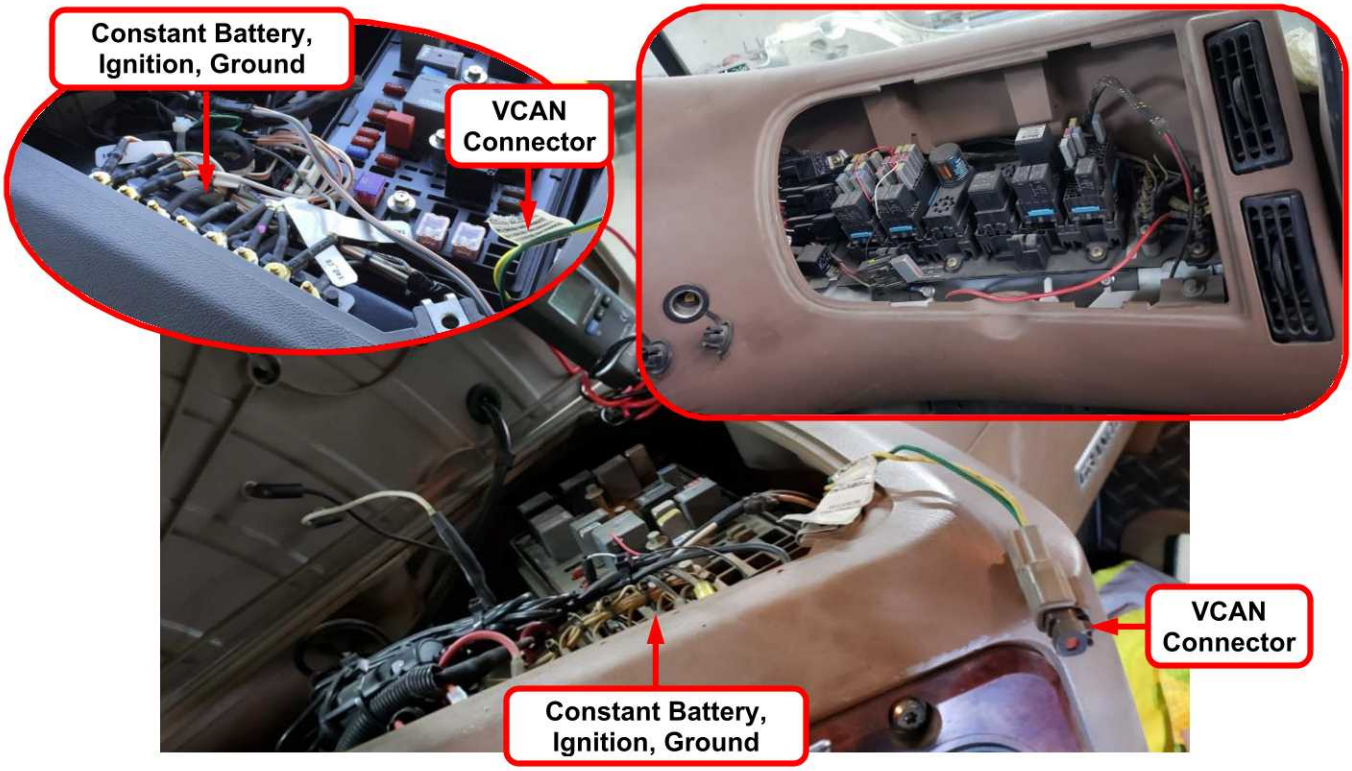
Typical Connection Locations



See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

Various Model Years shown in examples below.



Note: Wedgelock colors must match to connect. **If colors do not match**—remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis CAN harness, then matching colors will connect.

Beck – Chassis/Mixer CAN Connection

Power, **Ground**, **Ignition:** Connections are based on truck model, reference the applicable chassis page (Mack, Kenworth, Freightliner, etc.)

For Chassis/Mixer CAN, plug into the Beck connection:

1. Locate the CAN connection on or in the Beck control box (see image).
2. Depending on the Beck configuration in your truck, use **one of connection scenarios** shown below (A, B, or C).

   You may have both connector types shown, *but one will not provide the necessary drum information—use the verification to test the data stream.*
3. If drum data is not available in the diagnostic tool on the tablet or when going through verification, then make sure the controller software version is at least v1.14. If needed, contact Beck to have your IQAN software version updated.

Possible CAN Connections (look carefully, connection may be hidden)

Connection will be located at the top, side, or inside the Beck box (see example views below).

A

Most typical connection found.

A 3-way connector with a hole plug (see image)

If both positions are filled, see scenario B.

a. Remove the hole plug.

b. Plug the HARN-BECK-001 into the open connector.

B

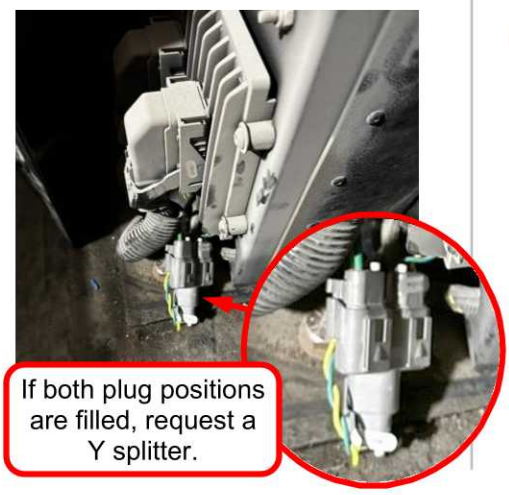
A 3-way connector with BOTH positions already filled (see image):

a. Request a HARN-CAN-003, Y splitter, from Command Alkon Support *(use splitter in place of Beck harness).*

b. Unplug a connector from the 3-way and plug it into the Y splitter.

c. Plug remaining splitter harness connector into the 3-way.

d. Connect female terminal ends of splitter to HUB: Yellow to N2-3; Green to N2-4.



C

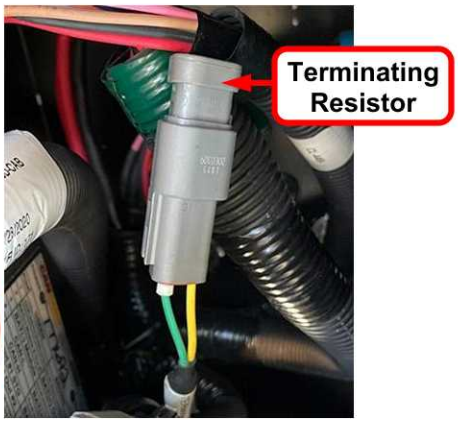
A single connector with a terminating resistor (see image):

a. Request HARN-CAN-003, Y splitter, from Command Alkon Support *(use splitter in place of Beck harness).*

b. Remove the terminating resistor and plug in the splitter.

c. Plug a terminating resistor into the remaining splitter harness connector.

d. Connect female terminal ends of splitter to HUB: Yellow to N2-3; Green to N2-4.



Western Star – 2022 or older

(H) Hub/Bridge typical mounting location

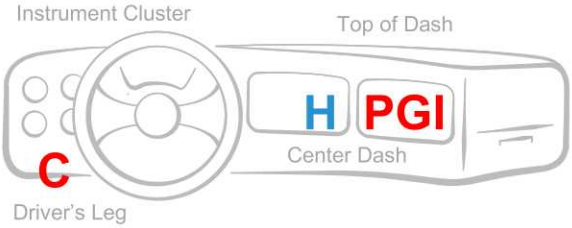
Chassis CAN and Power Connections:

(C) CAN: VCAN (250K or 500K)
DTM Series (2 position)
(has an orange or black wedgelock)
Remove panel to access connector.

Wedgelock—see color note below.

(P) Power, (G) Ground, (I) Ignition

Typical Connection Locations



See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

Note: Wedgelock colors must match to connect. **If colors do not match**—remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis CAN harness, then matching colors will connect.

Freightliner – 2020–2022 (M2 114)

(H) Hub/Bridge typical mounting location

Chassis CAN and Power Connections:

(C) CAN: J1939 (250K)
DTM04-2P/DTM06-2S Connector

Wedgelock—see color note below.

(P) Power, (G) Ground, (I) Ignition
Splice Block, possible Terminals (if needed, replace existing terminal with appropriate terminal shown)

12110844-L
IGN and GND

12191818-L BATT

Typical Connection Locations

See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

CAN Connector

Constant Battery Connector

Ignition and Ground Connections

Note: Wedgelock colors must match to connect. **If colors do not match**—remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis CAN harness, then matching colors will connect.

Freightliner/Western Star – 2023 or newer

(H) Hub/Bridge typical mounting location

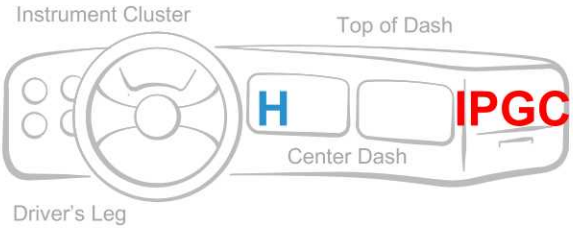
Chassis CAN and Power Connections:

(C) CAN: SCAN (500K)
RP1226 Connector

(P) Power, (G) Ground, (I) Ignition

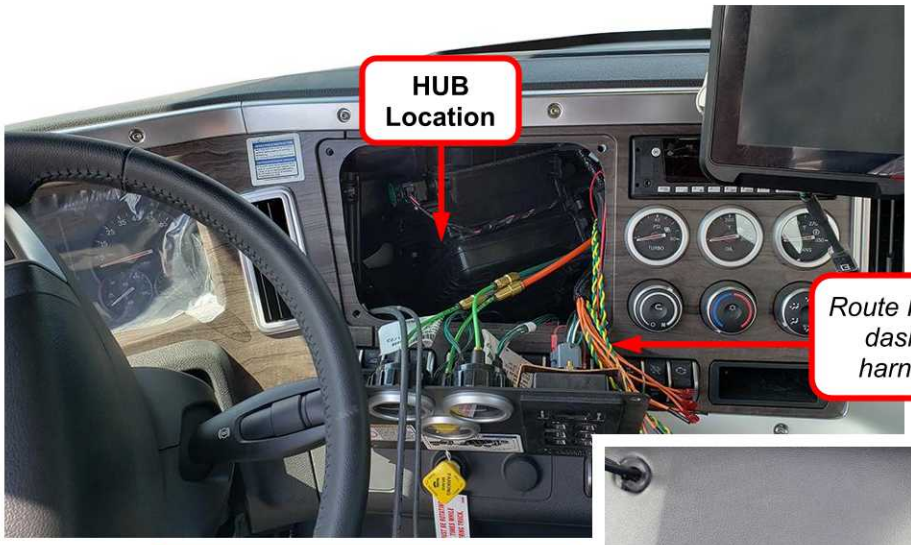
APTIV 10757692
Terminal

Typical Connection Locations



See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).



Route HARN-PWR-003 wires through dash to HUB, see below to plug harness into chassis connection.

Constant Battery, Ignition, Ground and CAN Connector
*Unplug chassis connector then plug **both** ends into HARN-PWR-003.*

International HX – 2022 or newer

(H) Hub/Bridge typical mounting location

Chassis CAN and Power Connections:

(C) CAN: VCAN (500K)

Delphi/Aptiv
(2 position)

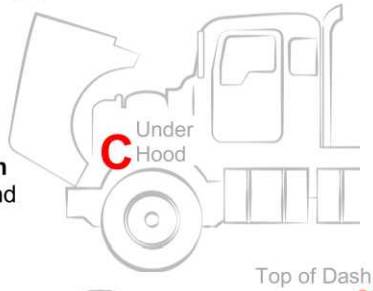
(P) Power, (G) Ground, (I) Ignition
Splice Block, possible Terminals (if needed, replace existing terminal with appropriate terminal shown)

Female Terminal
(GEN-101)
BATT and IGN

Terminal to
Splice Block
GND

Typical Connection Locations

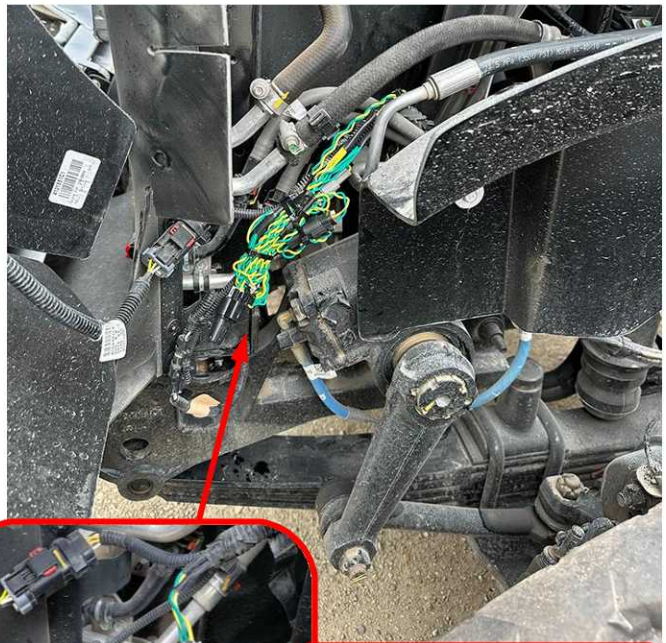
On this Model,
CAN Connection
is commonly found
under the hood.



See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

CAN Connection – Open hood to engine; look for CAN on driver's side near the front of the truck.



*Unplug terminating resistor from **Chassis CAN connector**, then plug **both** ends into HARN-CAN-001.*

*Plug remaining **non-used** harness pairs together to prevent water intrusion.*

Ignition, Power, and Ground – Connections found in dash; open dash panel indicated below.

Ignition and Power
*Lift fuse panel to locate wires labeled **IGN** and **PWR.***

Ground Connection
Splice block located under fuse panel.

IMPORTANT: After installing the **CAN Harness**, wire tie the harness wires and ends together for protection.

Front Discharge Mixer

Terex Advance – 2019 or newer

Confirm you have correct truck view, see note below.

(H) Hub/Bridge typical mounting location.

Chassis and Mixer CAN and Power Connections:

(C_C) Chassis CAN: C74/75 (500K, CAN1)

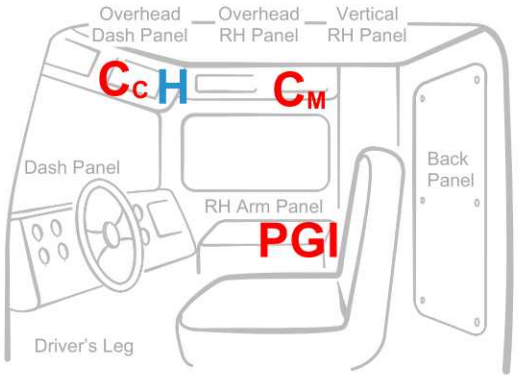
(C_M) Mixer CAN: C39/40 (250K, CAN2)

Wedgelock, see color note below.

DT04-3P/DT06-3S Connectors
(has a blue or green wedgelock)

(P) Power, (G) Ground, (I) Ignition
Terminal/Stud
(uses 3/8" ring and 1/4" ring)

Typical Connection Locations



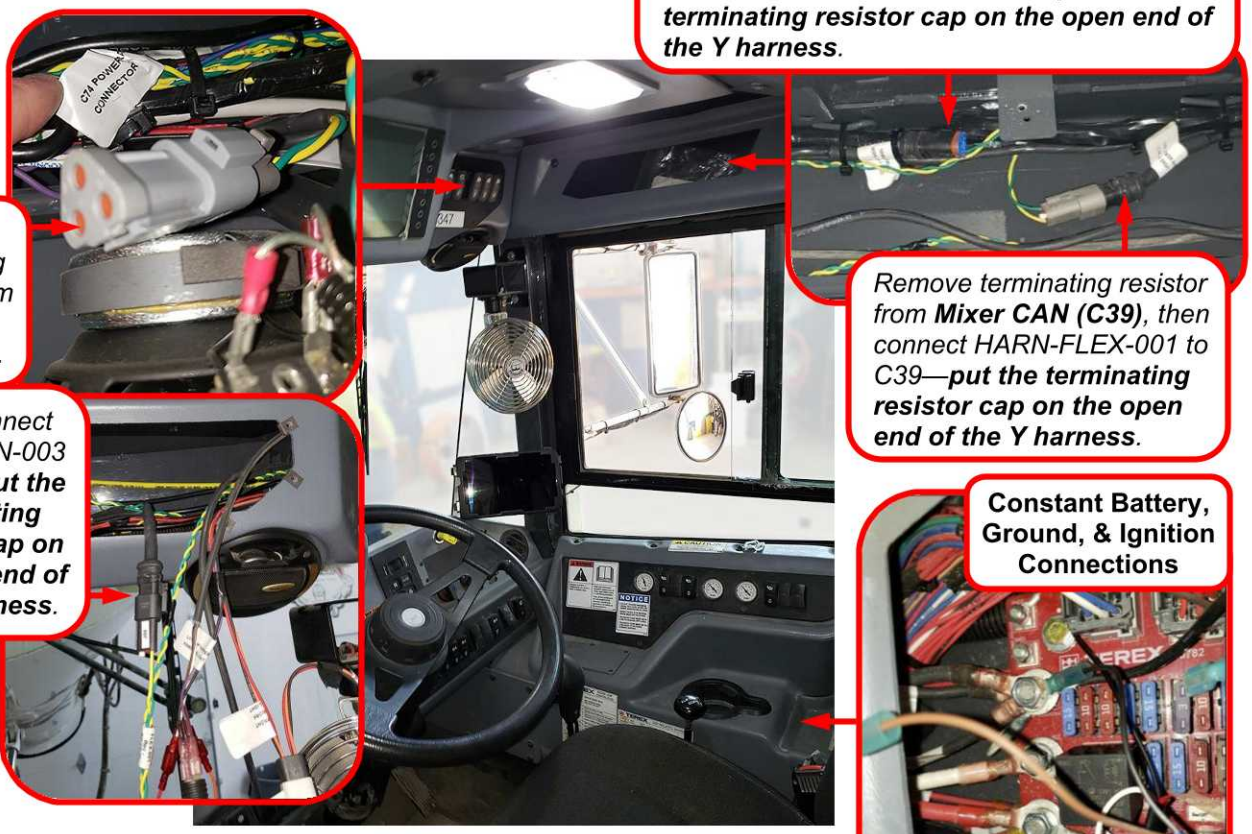
See image references below.

Important Note: If truck does not have a built-in screen to show drum speed and direction, refer to Terex 2016–2019, or Terex 2016 or older.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

*There can be an alternate location for **Chassis CAN, C74** (in overhead side panel, see below).*

*In this case—remove terminating resistor, then connect HARN-CAN-003 to C74, **put the terminating resistor cap on the open end of the Y harness**.*



*Remove terminating resistor from **Chassis CAN, C74**.*

*Then, connect HARN-CAN-003 to C74—**put the terminating resistor cap on the open end of the Y harness**.*

*Remove terminating resistor from **Mixer CAN (C39)**, then connect HARN-FLEX-001 to C39—**put the terminating resistor cap on the open end of the Y harness**.*

Constant Battery, Ground, & Ignition Connections

Note: Wedgelock colors must match to connect. **If colors do not match**—remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis CAN harness, then matching colors will connect.

Terex Advance – 2016–2019 (no Mixer CAN)

Confirm you have correct truck view, see below.

(H) Hub/Bridge typical mounting location.

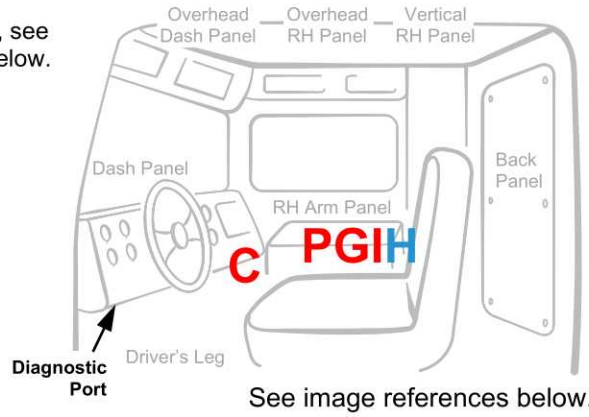
Chassis CAN and Power Connections:

(C) CAN: C64/65
(J1939 Backbone)
DT04-3P/DT06-3S Connectors
(has a blue or green wedgelock)

Wedgelock, see color note below.

(P) Power, (G) Ground, (I) Ignition
Terminal/Stud (uses 3/8" ring and 1/4" ring)

Typical Connection Locations

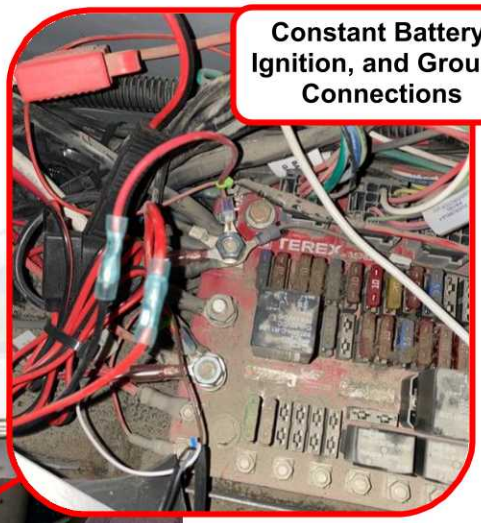


See image references below.

Confirm this is Correct Truck View:

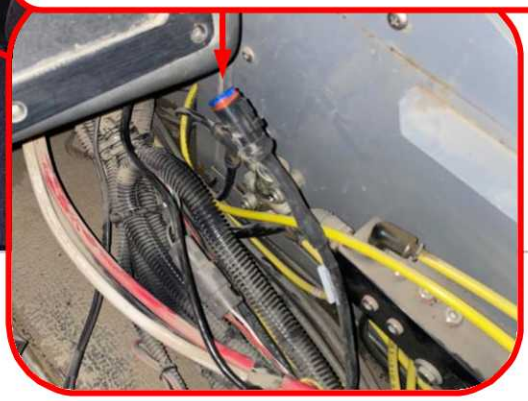
1. Does truck have a built-in screen?
   Yes – See Terex, 2019 or newer
   No – Go to next step.
2. Is diagnostic port located under dash at driver's left leg?
   Yes – Go to next step.
   No – See Terex, 2016 or older
3. Is the diagnostic port green?
   (Remove any port cover or splitter to check the actual port color.)
   Yes – This is the correct truck view, look for a blue CAN connector, see images below.
   No – See Terex, 2016 or older

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).



Constant Battery, Ignition, and Ground Connections

*Remove terminating resistor from **Chassis CAN (C64)**, then connect HARN-CAN-003 to C64—**put the terminating resistor cap on the open end of the Y harness**.*



Note: Wedgelock colors must match to connect. **If colors do not match**—remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis CAN harness, then matching colors will connect.

Terex Advance – 2016 or older (no Mixer CAN)

Confirm you have correct truck view, see below.

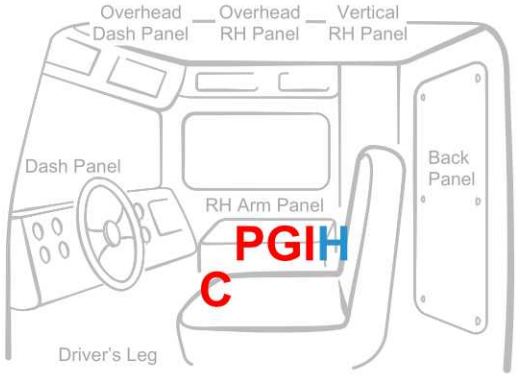
(H) Hub/Bridge typical mounting location.

Chassis CAN and Power Connections:

(C) CAN: use **Diagnostic Port**
(use HARN-BLK-OBD-J1939 to connect to diagnostic port)

(P) Power, (G) Ground, (I) Ignition
Terminal/Stud (uses 3/8" ring and 1/4" ring)

Typical Connection Locations



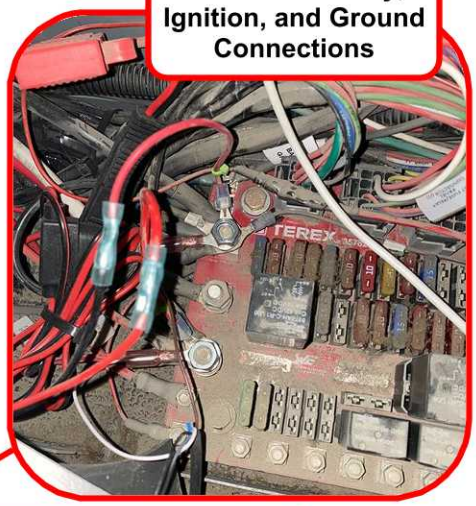
See image references below.

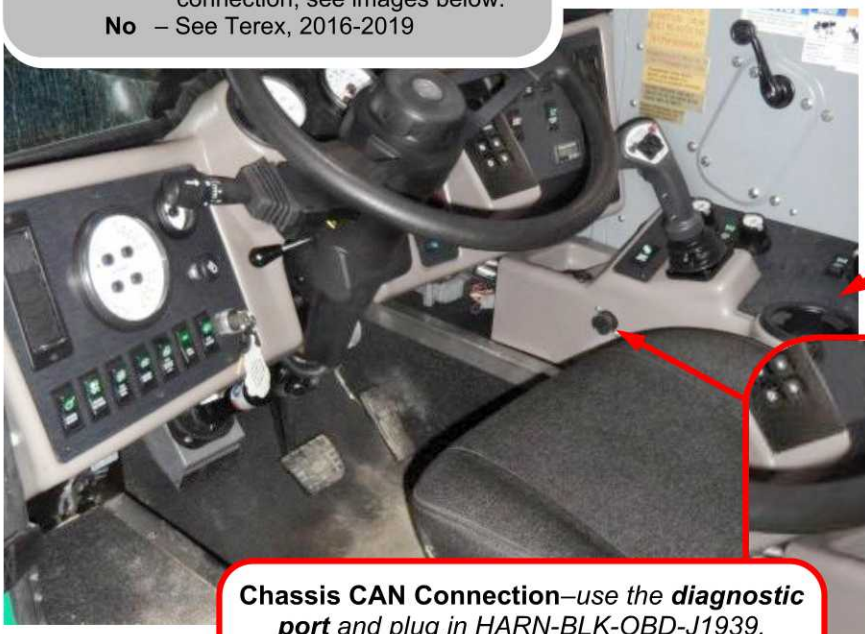
Confirm this is Correct Truck View:

1. Does truck have a built-in screen?
   Yes – See Terex, 2019 or newer
   No – Go to next step.
2. Is diagnostic port located on side panel at driver's right leg?
   Yes – Go to next step.
   No – See Terex, 2016-2019
3. Is the diagnostic port black?
   (Remove any port cover or splitter to check the actual port color.)
   Yes – This is the correct truck view, use the diagnostic port for CAN connection, see images below.
   No – See Terex, 2016-2019

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

Constant Battery, Ignition, and Ground Connections





Chassis CAN Connection–*use the **diagnostic port** and plug in HARN-BLK-OBD-J1939.*

***If port is in use** (or used by service technicians) request splitter (DF-INV-030) to keep the port available when the OBD harness is plugged in.*

Oshkosh S Series Flex 2.0

Confirm you have correct truck view, see note below.

(H) Hub/Bridge typical mounting location

Chassis and Mixer CAN and Power Connections:

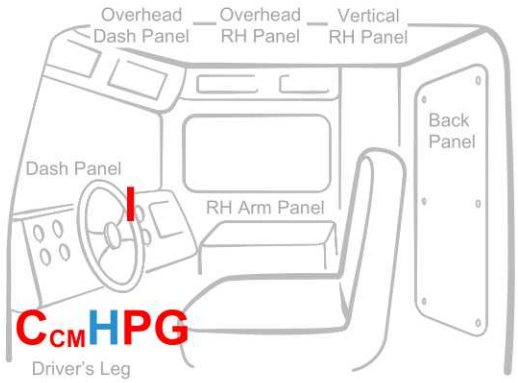
(C_{CM}) CAN: C14F/C14M (Chassis/Mixer, 500k)
DT06-3S/DT04-3P Connectors
(has a blue or green wedgelock)

Wedgelock, see color note below.

(P) Power, (G) Ground, (I) *Ignition

*Female Terminal
(GEN-101)

Typical Connection Locations



See image references below.

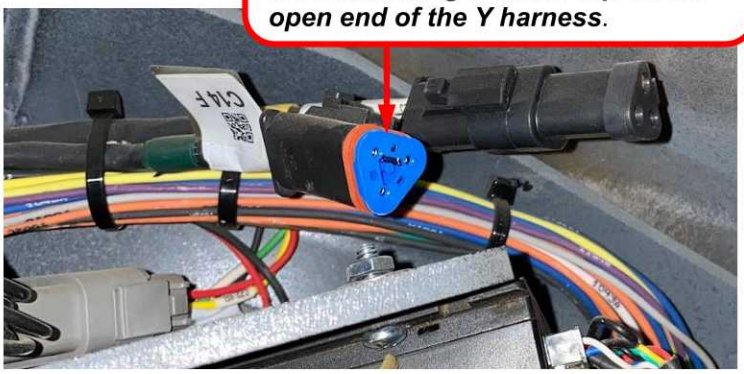
Important Note: If truck does not have a built-in screen to show drum speed and direction, refer to Oshkosh S Series Non Flex or Glider (no Chassis/Mixer CAN).

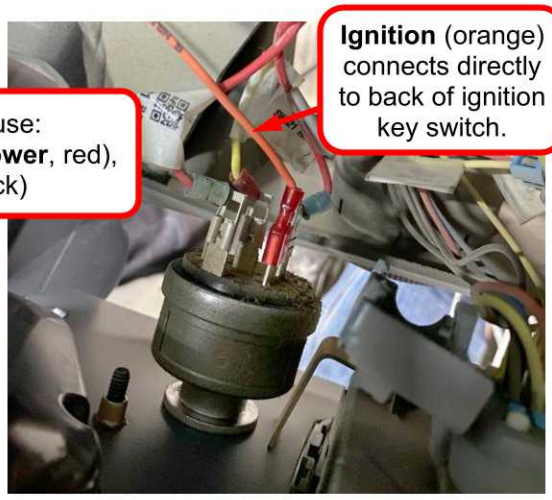
Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

***CAN Bus** can provide Washout, Water Add, Slump, and Drum connections.*

CAN Bus Connector–use:
pos. 6 (**Constant Power**, red),
pos. 3 (**Ground**, black)

*Remove terminating resistor from **Chassis/Mixer CAN (C14F)**, then connect HARN-CAN-003 to C14F—**put the terminating resistor cap on the open end of the Y harness**.*





Ignition (orange) connects directly to back of ignition key switch.

Note: Wedgelock colors must match to connect. **If colors do not match—**remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis harness, then matching colors will connect.

Oshkosh S Series Non Flex – (no Mixer CAN)

Confirm you have correct truck view, see note below.

(H) Hub/Bridge typical mounting location

Chassis CAN (250K or 500K) **and Power Connections:**

(C) CAN: (250K) – generally Model years 2008–2013
(500K) – generally Model years 2014–2019

DT06-3S Connectors (has a blue or green wedgelock)

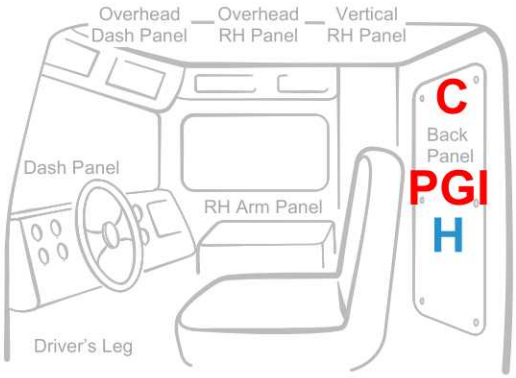
Wedgelock

Note: Wedgelock colors must match to connect. **If colors do not match**—remove one wedgelock from the kit harness and switch it with the wedgelock on the chassis harness, then matching colors will connect.

(P) Power, (G) Ground, (I) Ignition

Terminal/Stud (uses 3/8" ring and 1/4" ring)

Typical Connection Locations



See image references below.

Important Note: If truck has a built-in screen to show drum speed and direction, refer to Oshkosh S Series Flex 2.0.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).

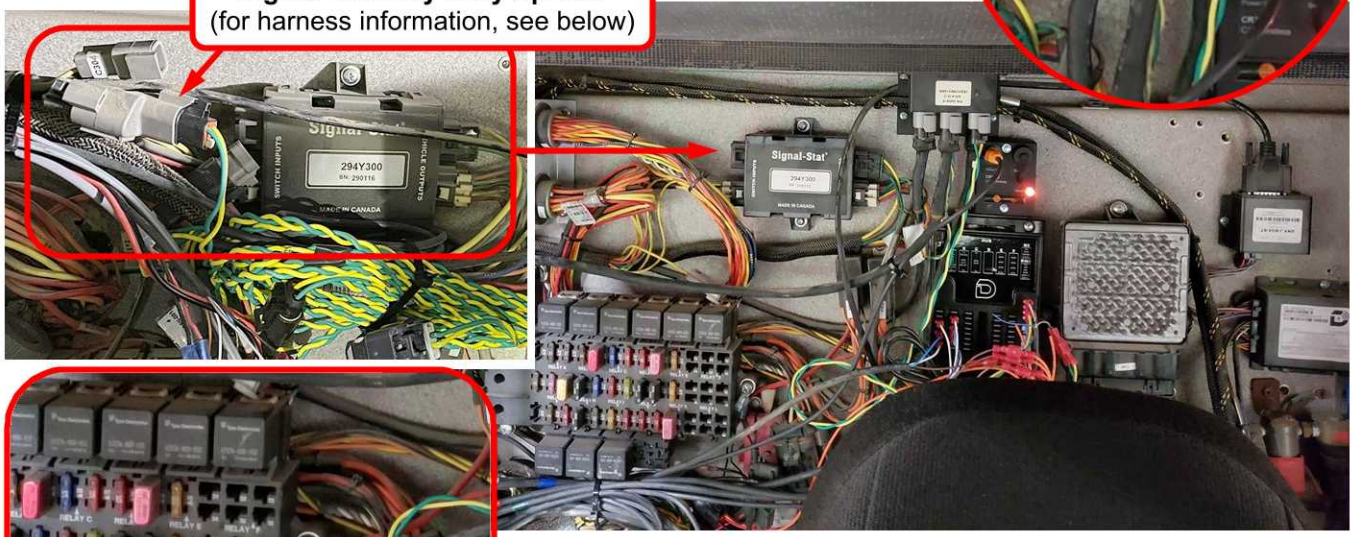
Locate the Chassis CAN Connection:

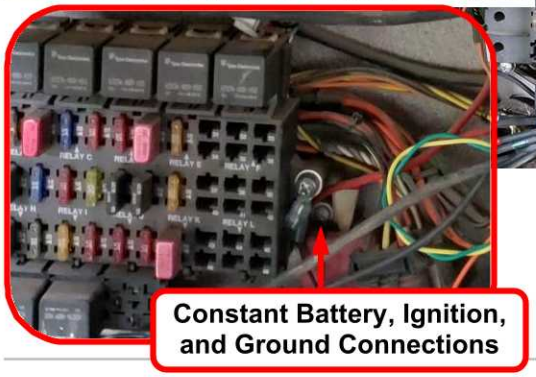
Truck has **either** a 6-way or 3-way (order your harness kit accordingly).

1. Find the CAN connection—see Figure A for typical location.
2. If CAN connection not seen at the typical location, see Figure B.
3. If CAN connector is **NOT plugged in** at all, refer to next page for Glider (no Chassis CAN).

Figure A: 6-way Chassis CAN Connector—If 6-way bus not plugged in here, see Figure B for 3-way Gray Splitter.

Figure B: 3-way Gray Splitter
(for harness information, see below)





Constant Battery, Ignition, and Ground Connections

Trucks using a 3-way Gray Splitter:
Sometimes, the S Series Non Flex has a 3-way gray splitter instead of the 6-way. In this case, request the HARN-CAN-003 harness to make the connection.

For harness request, please call Command Alkon Support at 614-799-6650.

Oshkosh S Series Non Flex – Glider (no Chassis/Mixer CAN)

Confirm your truck view, see note below.

Glider Information:

Glider is a truck with mismatched years of components, parts may be rebuilds and system communication (J1708/CAN) may be limited or non-existent.

1. This page is for a Glider **without** chassis CAN, see images and instructions below.
2. For a Glider **with** chassis CAN connected (either a 6-way or 3-way connection), see previous page Oshkosh S Series Non Flex for instructions.
3. If you believe your truck is a glider and you need further information, contact Command Alkon Support at 614-799-6650.

(H) Hub/Bridge typical mounting location

CAN: This page covers a Glider **without** Chassis/Mixer CAN

Power Connections:

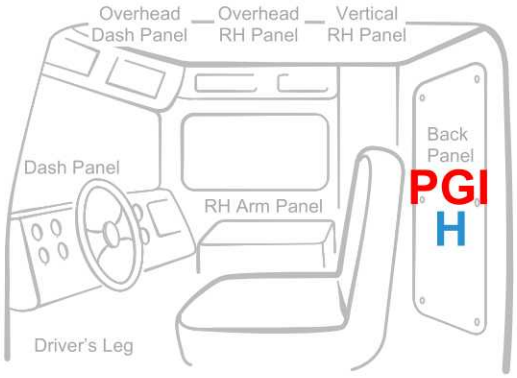
(P) Power, (G) Ground, (I) Ignition

Terminal/Stud (uses 3/8" ring and 1/4" ring)

Important Note:

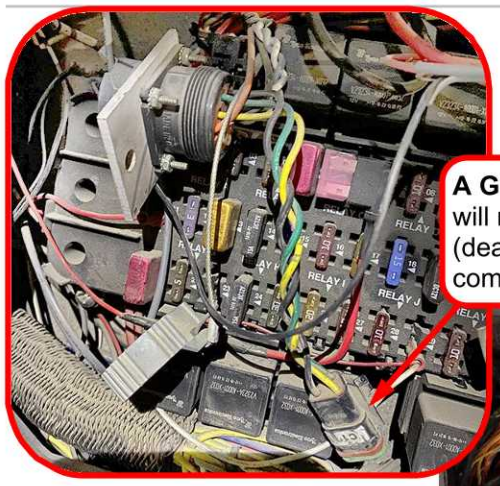
- If truck has a built-in screen to show drum speed and direction, refer to Oshkosh S Series Flex 2.0.
- If truck has a chassis CAN connection plugged in, refer to previous page, Oshkosh S Series Non Flex.

Typical Connection Locations



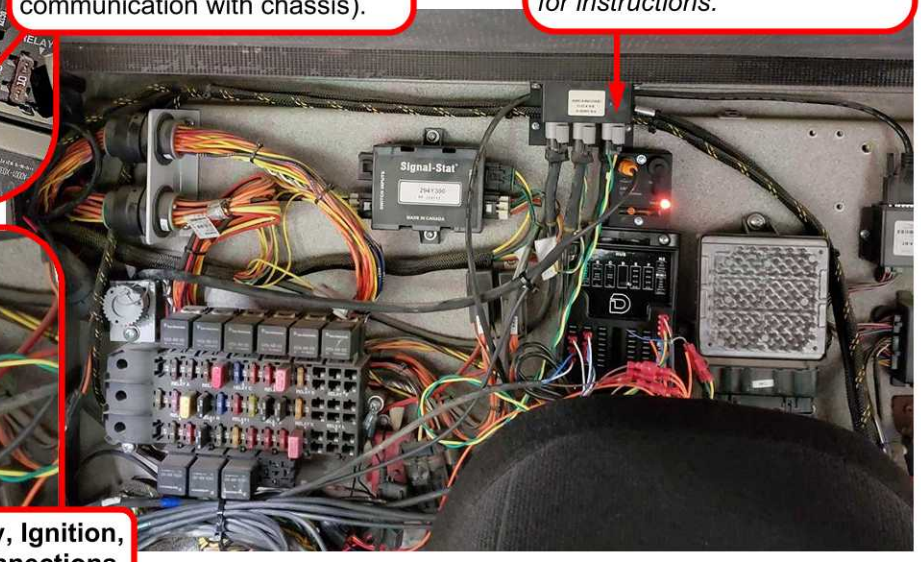
See image references below.

Look carefully—connectors may be hidden or wrapped in a group of wires (connectors are labeled).



A Glider without Chassis CAN will **not** have CAN connected (dead end connector, no communication with chassis).

*If the Glider **has chassis CAN connected** (example shown below), refer to previous page, Oshkosh S Series Non Flex, for instructions.*



Constant Battery, Ignition, and Ground Connections