



This instruction used for the following Pkgs:

6358-03-73 AMK ISO UPGD TO X35
6362-40-10 PKG X35 IN-CAB CMPNT
6362-41-10 PKG X35 IN-CAB CMPNT W/O MON

X35 CONSOLE IN-CAB COMPONENTS INSTALLATION

SERVICE INSTRUCTIONS

6000/ 7000 Series Air Seeders

It is recommended to carefully follow the detailed steps of the instructions. Please check crate packing list against contents to be sure all parts have been received.

On all Bourgault equipment, left and right are determined by standing behind the machine and looking forward. For this manual the drawings and instructions are given for the assembly.

For safety, maintenance, warranty policy, and operating instruction of the unit, refer to the operators manual.

All information, illustrations and specifications in this manual are based on the latest product information. Bourgault updates products continually to improve quality. We reserve the right to make changes at any time.

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INSTRUCTIONS

1 COMPONENTS

1.1 X35 CONSOLE

The X35 console is a Linux based computer system contained within an ABS housing. The console has no internal moving parts and the housing is designed to ensure long life in even the toughest conditions. The console has a 12" LCD touch screen display. Connection ports located on the console's back panel, refer to *Figure 1*.

- Two CAN ports are used for harness connections.
- Ethernet port allows connection to the internet, computer.
- Two USB port can be used to connect thumbdrive or any other USB devices.

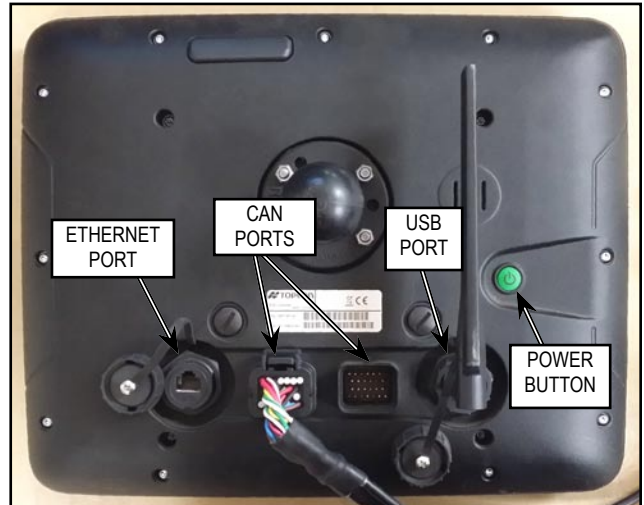


Figure 1 - X35 Console

X35_MONITOR.JPG
X35_BACK.JPG

1.2 IN-CAB SWITCHBOX

In-cab switchbox connects into the tractor cab.

- will control up to 8 tanks;
- alternate means of controlling the air seeder to the console touch screen;
- in-cab switchbox can be placed near tractor controls for easy access;
- functions include: master on/off, tank on/off, and customizable buttons;
- must be enabled through the X35 console.



Figure 2 - In-Cab Switchbox

SWITCHBOX_313226.JPG

1.3 HARNESSSES

1.3.1 X35 MAIN HARNESS (3151-45)

Refer to *Figure 3*. This harness connects X35 console to power source, ISOBUS, and GPS signal.

1.3.2 ISOBUS HARNESS (3151-78)

The ISOBUS harness connects the implement BUS into the X35 harness.

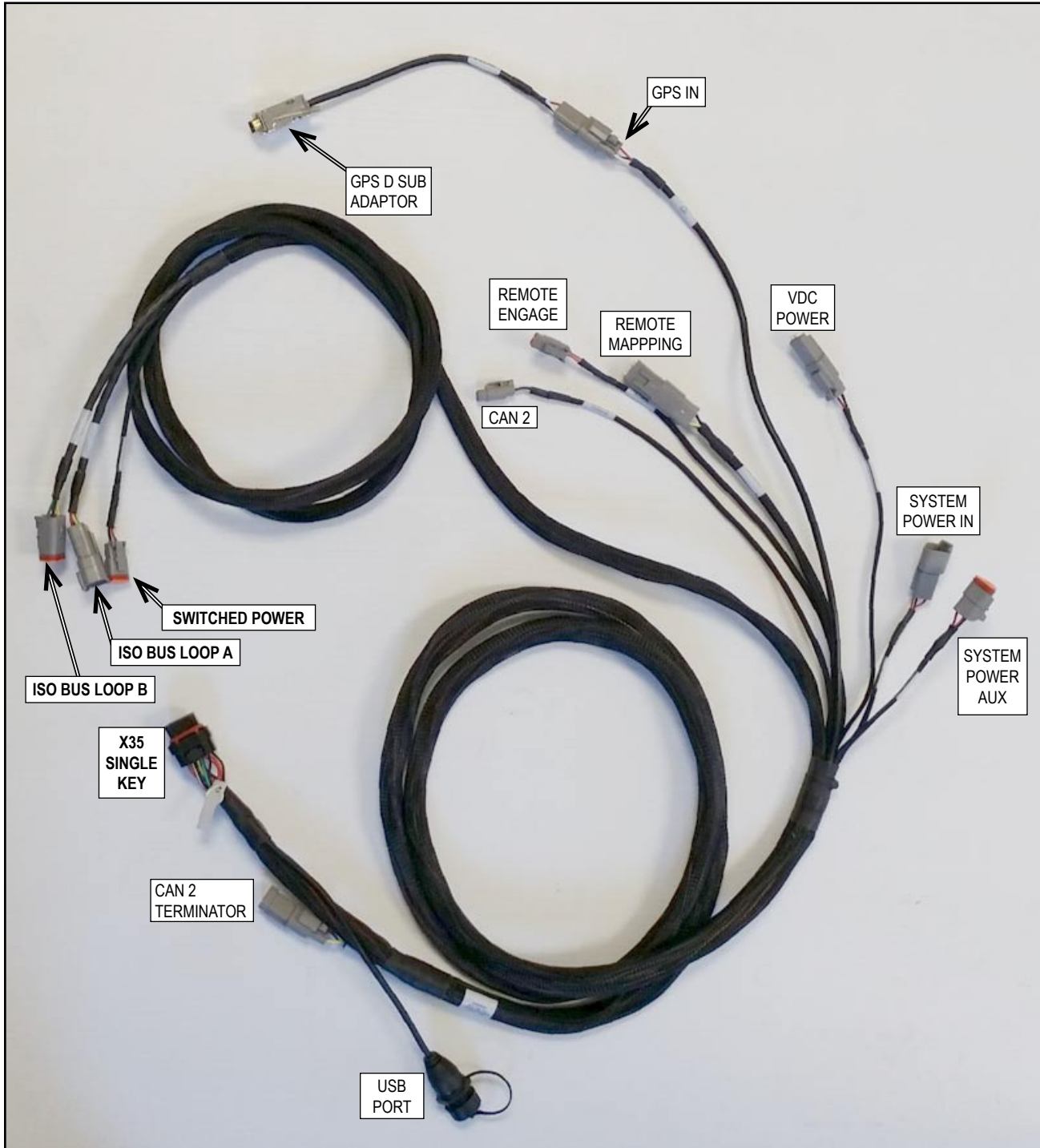


Figure 3 - X35 Main Harness (3151-45)

X35_AS_HARNESS_101915401.JPG



Figure 4 - Bourgault ISOBUS X35 Harness (3151-78)

1.3.3 IN-CAB SWITCHBOX HARNESS (3132-41)

Refer to *Figure 6*. This harness connects in-cab switchbox to 9-pin AMP ISOBUS connection in the tractor cab.

If the 9-pin AMP ISOBUS connection does not exist in the tractor cab, use switchbox ISOBUS adapter harness (3132-42) to connect into the ISOBUS in the same location as the X35 console. Also use the switchbox power harness (3132-76) to power up the switchbox from the X35 harness.

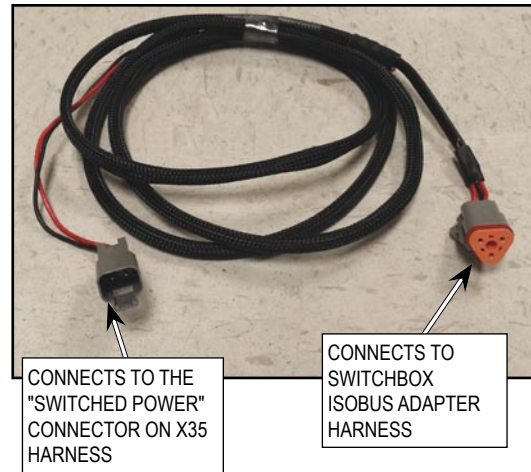


Figure 7 - SwitchBox Power Extension Harness (3132-76)

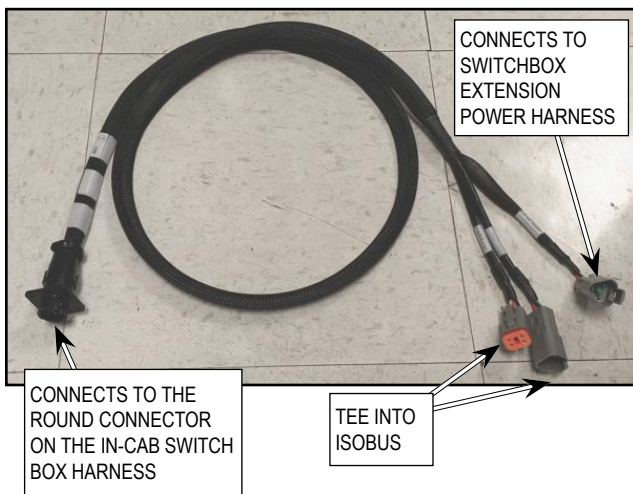


Figure 5- SwitchBox ISOBUS Adapter Harness (3132-42)

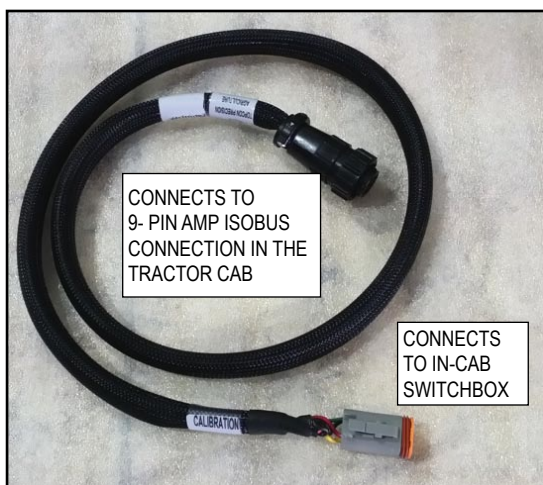


Figure 6- In-Cab SwitchBox Harness (3132-41)

SWBOX_IN-CAB_HARNESS_313241.JPG

INSTRUCTIONS

1.3.4 POWER EXTENSION HARNESS (3151-68 OR 3151-69)

Power extension harness connects X35 console to the power source. There are two power extension harnesses available:

- with the auxiliary connector to connect in the cab (3151-69, refer to *Figure 8*).
- with leads to connect to the battery and switched power source (3151-68, refer to *Figure 9*).

1.3.5 MAIN POWER TO THE X35 SYSTEM COMPONENTS ON THE AIR SEEDER TANK

Following components are used to supply main power to the X35 system components located on the air seeder tank and tillage implement:

- High Current Power Relay Harness (3132-87)
- High Current Power Tractor Harness (3132-88)
- Relay (3132-89)



Figure 10 - High Current Power Relay Harness (3132-87)



Figure 11 - Relay (3132-89)

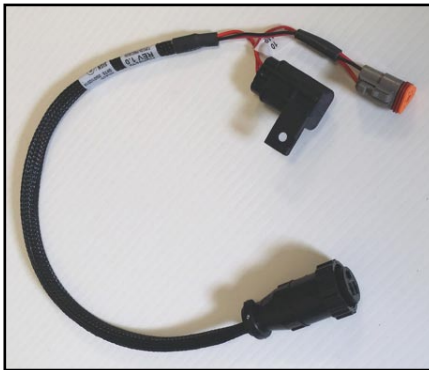


Figure 8 - Power Extension Harness (3151-69)



Figure 12 - High Current Power Tractor Harness (3132-88)

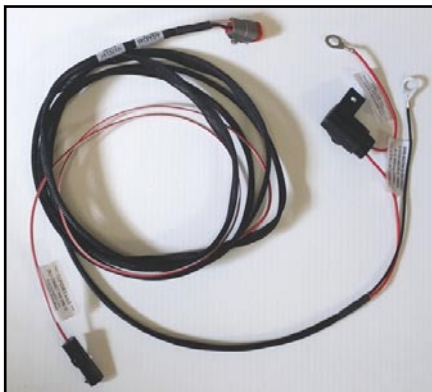


Figure 9 - Power Extension Harness (3151-68)



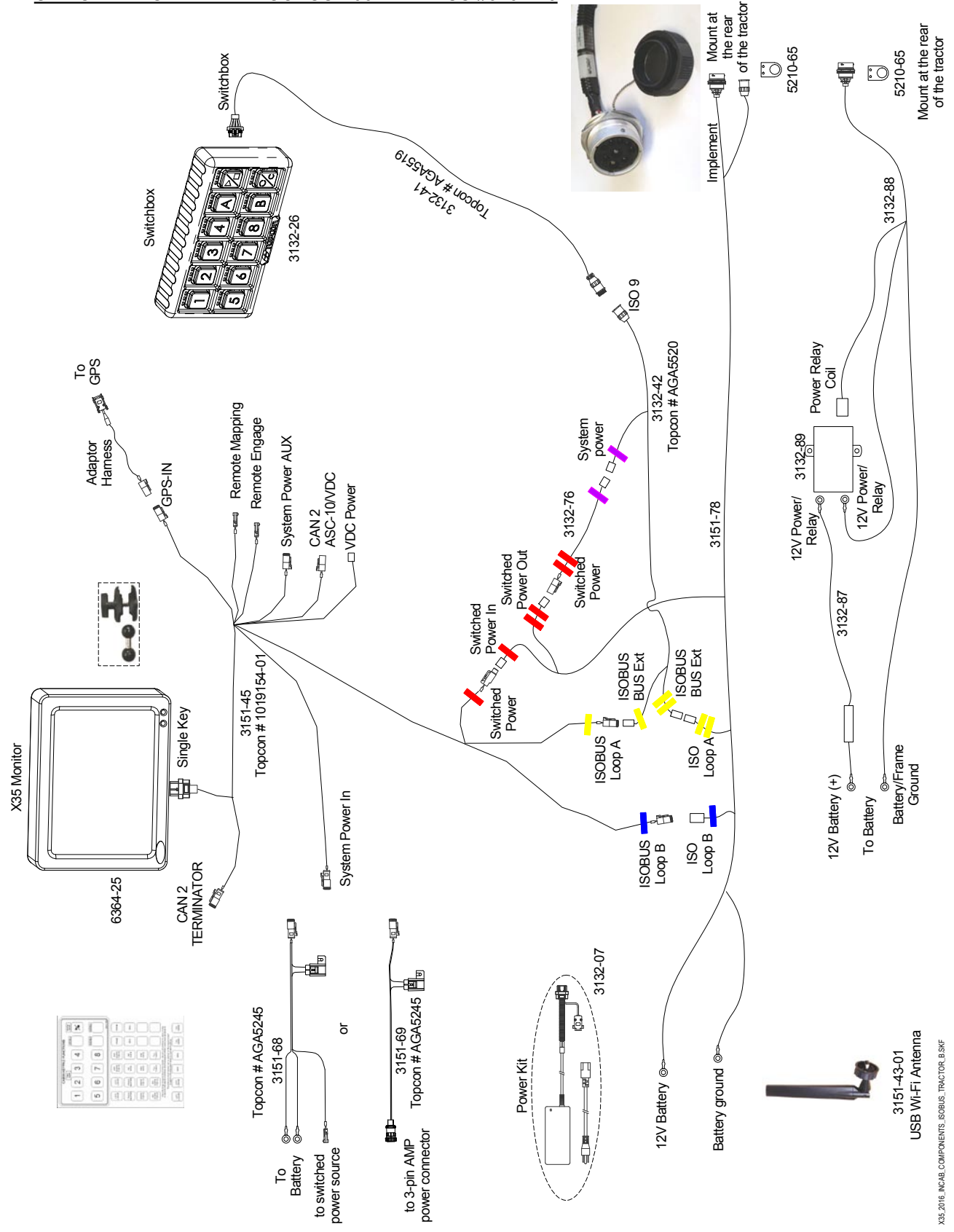
Figure 13 - Heat Shrink over exposed wires/posts

2 INSTALLATION

1. Select location for the console and switch-box that is in easy access and in clear view of the operator. Ensure that the console and switch-box will be free of moisture, direct sun, and excessive vibration.
2. Use the provided large ball and socket to mount the X35 console.
3. Use the provided small ball and socket to mount the in-cab keypad.
4. Make the following harness connections:
 - a. Connect **X35 harness** (3151-45) to the back of the X35 monitor, refer to *Figure ??*.
 - b. Connect **Power** connector on X35 main harness (3151-45) to power auxiliary adapter (3151-69) and connect to 3-pin AMP auxiliary power connection in the cab (if exists).
 - c. If the auxiliary power connection does not exist in the cab, connect **Power** connector on X35 main harness (3151-45) to power battery adapter (3151-68) and route to battery and switched power source.
 - d. Connect **RS232-D** connector on X35 main harness (3151-45) to GPS receiver using appropriate adapter harness.
 - e. Connect in-cab switchbox harness (3132-41) into the back of in-cab switch box. Connect other end to switchbox ISOBUS adapter harness (3132-42).
 - f. Connect ISO extension on switchbox ISOBUS adapter harness (3132-42) to ISO loop A on X35 harness (3151-45). Connect other ISO extension on switchbox ISOBUS adapter harness (3132-42) to ISO loop A on ISOBUS X35 harness (3151-78).
 - g. Connect ISO loop B connectors together on ISOBUS X35 harness (3151-78) and the X35 harness (3151-45).
 - h. Connect the switched power lead on ISOBUS X35 harness (3151-78) to connector on X35 harness (3151-45). Connect other lead from ISOBUS X35 harness (3151-78) to SwitchBox power extension harness (3132-76), then connect that to switchbox harness (3132-42).
 - i. Connect the ends labelled "12V Power/Relay" from 3132-87 & 3132-88 to the relay 3132-89. Also connect the end "Power Relay Coil" from 3132-88 to the 3132-89 relay. Install the heat shrink over the area to protect the exposed wires/posts, refer to *Figure 13*.
 - j. Mount the relay near the battery where it will be protected and the contacts will not be shorted.
 - k. Connect the end labelled 12V Battery "+" from 3132-87 to positive battery terminal.
 - l. Connect the end labelled Battery/Frame Ground from 3132-88 to the negative battery terminal. Route the other end to the hitch point and mount using mount plate (5210-65).
 - m. Connect ends of ISOBUS X35 harness (3151-78) to battery. Route other end to hitch point and mount using plate #5210-65.

3 SCHEMATIC - IN-CAB COMPONENTS CONNECTION

UNITS WITH SIMPLIFIED ISOBUS X35 HARNESS #3151-78



NOTE

FOR ADDITIONAL INFORMATION AND QUESTIONS REGARDING X35 CONSOLE AND GPS SIGNAL REFER TO SERVICE & PARTS SECTION ON OUR WEB SITE WWW.BOURGAULT.COM

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