

WIRING HARNESS GUIDE



JOHN DEERE

COMMON ISG WIRING HARNESS PARTS AND ATTACHMENTS

The purpose of this guide is to list common AMS /ISG Wiring Harness Parts and related information. This is not a complete list of parts, for questions on compatibility please reference the Value Selling Navigator or PartsADVISOR.



4640 UNIVERSAL DISPLAY HARNESS

GREENSTAR 2 AND GREENSTAR 3

PART NUMBER: PF90687

Description
John Deere 4640 Universal Display Harness, GreenStar 2, and GreenStar 3 displays 19-way to 26- way Connector
Enables connection of a GreenStar3 or GreenStar2 Display to GreenStar3 or GreenStar2 machine harnesses either independently or in tandem with a secondary Original GreenStar Display. No video inputs available.
Compatibility
When used with a 4640 Universal Display: machine compatibility is limited to the compatibility of the display in the specific machine model.
When used with a GreenStar2 or GreenStar3 Display: compatible with 7020 Tractors (PIN045001 and above), 8030 Wheel and Track Tractors, 9020 Wheel Tractors (PIN040001 and above), and 9020 Track Tractors (PIN906001 and above).

**** It does not support video, and does support System (vehicle) and Auxiliary (implement) CAN, along with CCD inputs. It does include implement switch and frequency input (typically for radar). It also includes OGSD and UIM (universal input module) connectors.**



POWER HARNESS

PART NUMBER: BPF10403

Description
GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWaterPro, iGrade, Active Implement Guidance or Implement Detection.
Requires a GreenStarReady machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.
Power harness for the footswitch; foot switch not included.
Used to extend master switch and convenience outlet functionality from inside of cab to rear of tractor.
Install instruction is PFP18491
Compatibility
This kit is intended for rowcrop tractors only.
See Ag Sales Manual for compatibility.



POWER HARNESS

PART NUMBER: BPF10404

Description
Greenstar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.
Power harness for the foot switch; foot switch not included.
Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.
Used to extend master switch and convenience outlet functionality from inside of cab to rear of tractor.
Compatibility
This kit is intended for 4WD tractors only.
Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.
See Ag Sales Manual for compatibility.



4640 UNIVERSAL DISPLAY HARNESS GREENSTAR 3 OR GREENSTAR 2 DISPLAY TO ORIGINAL GREENSTAR MACHINE CONNECTOR

PART NUMBER: PF90688

Description
Enables connection of a GreenStar3 or GreenStar2 Display to Original GreenStar machine harnesses either independently or in tandem with a secondary Original GreenStar Display.
Compatibility
Compatible with all GreenStar Ready vehicles EXCEPT 7020 Tractors (PIN045001 and above), 8030 Wheel and Track Tractors, 9020 Wheel Tractors (PIN040001 and above), and 9020 Track Tractors (PIN906001 and above).
4640 Universal Display not compatible with original GreenStar Display.



****This is the harness adapter kit that allows a vehicle equipped with OGSD and MP connectors to connect directly to a GS2 or newer display. It supports Auxiliary (implement) CAN and CCD inputs, along with implement switch and frequency input (typically for radar). It also includes UIM connector.**



HARNESS

ORIGINAL GREENSTAR DISPLAY AND MOBILE PROCESSOR TO GREENSTAR 3 OR GREENSTAR 2 (ROUND) CORNERPOST

PART NUMBER: PF90686

Description

Enables connection of an Original GreenStar Display and Mobile Processor to a GreenStar3 or GreenStar2 machine connector either independently or in tandem with a secondary Original GreenStar Display



IMPLEMENT RECEIVER HARNESS

PART NUMBER: PF90538

Description

GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.

For extending harnessing from controller to ISO connector on tractor.

Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.

Connects to ISO 9-pin implement connector and 3-pin master switch connector at rear of tractor. Routes to main application harness on implement.

Compatibility

See Ag Sales Manual for compatibility.

Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.



FRONT EXTENSION HARNESS (3M)

PART NUMBER: BPF11285

Description

GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection. See Ag Sales Manual for compatibility. Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.

For extending harnessing from controller to ISO connector on tractor.

Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.

Connects to ISO 9-pin implement connector and 3-pin master switch connector at rear of tractor. Routes to main application harness on implement.

Length is 3m.



FRONT EXTENSION HARNESS (10M)

PART NUMBER: BPF11284

Description

GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.

For extending harnessing from controller to ISO connector on tractor.

Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.

Connects to ISO 9-pin implement connector and 3-pin master switch connector at rear of tractor. Routes to main application harness on implement.

Length is 10m.

Compatibility

Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.

See Ag Sales Manual for compatibility.



CENTER EXTENSION HARNESS (2M)

PART NUMBER: PF90588

Description

GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.

Use in conjunction with front extension harness when additional length is needed.

Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.

Use to provide extra length between front extension harness and main application harness.

Install instruction is PFP18490.

Compatibility

See Ag Sales Manual for compatibility.

Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.



CENTER EXTENSION HARNESS (8M)

PART NUMBER: PF90589

Description

GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, Surface Water Pro, iGrade, Active Implement Guidance or Implement Detection.

Use in conjunction with front extension harness when additional length is needed.

Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.

Use to provide extra length between front extension harness and main application harness.

Install instruction is PFP18490.

Compatibility

See Ag Sales Manual for compatibility.

Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.



REAR EXTENSION HARNESS (2M)

PART NUMBER: PF90591

Description
GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWaterPro, iGrade, Active Implement Guidance
Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.
Used when ISO connection is located behind tractor, such as when connecting a towbehind air cart.
Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.
Connects to front extension harness to provide a secondary ISO 9-pin connector at rear of an implement.
Install instruction is PC21225
Compatibility
See Ag Sales Manual for compatibility.



POWER EXTENSION HARNESS (11M)

PART NUMBER: PF90592

Description
Power harness for the footswitch; foot switch not included.
GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.
Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.
Used to extend master switch and constant power extension harness.
Typical usage is on a tow-between air cart with tool connected at rear.
Install instruction is PC20852
Compatibility
See Ag Sales Manual for compatibility.
Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.



STARFIRE ROOFTOP BULKHEAD HARNESS

PART NUMBER: PF80722

Description

Includes mounting bracket for StarFire Receiver, bulkhead connector and PF80722 harness.

May be required to connect StarFire iTC or earlier Position Receivers to the cab roof bulkhead connector in 8030 Wheel and Track Tractors, 9020 Wheel Tractors (PIN 040001 and above) and 9020 Track Tractors (PIN 906001 and above), or 60 Series STS Combines (Model Year 2006). Physical verification of this requirement is recommended before ordering. A StarFire iTC Position Receiver specification change is planned in 2006 to eliminate the need for this harness.

If your StarFire Receiver has dual connectors, this attachment is not necessary.

Compatibility

This kit is commonly used on John Deere 7200-7800 SPFH's, 7460 Cotton Strippers and John Deere Windrowers.



STARFIRE POSITION RECEIVER RADAR ADAPTER HARNESS

PART NUMBER: PF90350

Description

This attachment is required for an output radar signal from the StarFire Receiver.

Tractors ordered without radar options require adapter harness RE52645.

Compatibility

Additional parts may be required for 6000 Series Tractors.

Not required for machines with radar convenience plug on cornerpost — See Ag Sales Manual.



STARFIRE POSITION RECEIVER EXTENSION HARNESS (30CM)

PART NUMBER: BPF10200

Description

This harness adds length to the receiver harness when mounting the deluxe shroud on the cab roof.

Not required to complete system.



STARFIRE BASE STATION MANAGER WIRING HARNESS

PART NUMBER: BPF11014

Description

Allows MTG to be connected to existing StarFire Base Station



ACTIVE IMPLEMENT GUIDANCE IMPLEMENT FEEDBACK HARNESS (9M)

PART NUMBER: BPF10019

Description

GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.

Not required on all implements - depends on implement length and routing of harness to Potentiometer.

Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.

Used to provide extension for active implement guidance implement feedback harness.

Compatibility

See Ag Sales Manual for compatibility.

Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.



WIRING HARNESS GREENSTAR3 CORNERPOST

PART NUMBER: PFP12435

Description

This harness is used to connect a 2630 display to a 19-pin connector that also includes video signals. If the 19-pin connector does not include video signals, recommendation is to use PF90687 instead.



MAIN RATE CONTROL WIRING HARNESS

PART NUMBER: PFA10901

Description

Main rate controller harness on a GS2 rate control system

16b in image below



JDLINK OEM T3 ENGINE HARNESS KIT

PART NUMBER: BPF10576

Description

Provides JDLink Ultimate and Service ADVISOR Remote functionality with electronically controlled John Deere T3, IT4 and FT4 engines.

These kits enable JDLink for older John Deere, non-John Deere Machines, and John Deere OEM Engines.

Each kit includes wiring harness and mounting hardware. MTG, antenna, and subscription sold separately.

Provides JDLink Ultimate and Service ADVISOR Remote functionality with electronically controlled John Deere T3, IT4 and FT4 engines. Compatible machine display required for remote reprogramming functionality.

Compatibility

Compatible with JDLink Ultimate (JDPS) and JDLink Connect Subscriptions.

Compatible machine display required for remote reprogramming functionality.

Compatible with JDLink Ultimate (JDPS) and JDLink Connect Subscriptions.



RATE CONTROLLER LIQUID FERTILIZER ADAPTOR HARNESS

PART NUMBER: PF90576

Description

Rate Controller Liquid Fertilizer Adapter Harness Connects the Rate Controller to Raven Liquid Fertilizer System.

GreenStar Rate Controller enables rate control of many implements through the Gen 4 4640, GreenStar3 2630 or GreenStar 2 2100 and 2600 Display.

Compatibility

See Ag Sales Manual for compatibility.

Requires a GreenStar Ready machine with ISO Implement Connector and GreenStar3 2630 or GreenStar2 2100 and 2600 Display.



RATE CONTROLLER PLANTER CLUTCH HALF-WIDTH ADAPTER HARNESS

PART NUMBER: PF90598

Description

Greenstar Rate Controller enables rate control of many implements through the Gen 4 4640, GreenStar3 2630 or GreenStar 2 2100 and 2600 Display.

For connecting the Rate Controller to existing planter half or third-width disconnects on John Deere Planters.

Compatibility

See Ag Sales Manual for compatibility.

Requires a GreenStar Ready machine with ISO Implement Connector and GreenStar3 2630 or GreenStar2 2100 and 2600 Display.



RATE CONTROLLER IN-CAB FRONT EXTENSION HARNESS INSTALLATION KIT

PART NUMBER: BPF10044

Description

Greenstar Rate Controller enables rate control of many implements through the Gen 4 4640, GreenStar3 2630 or GreenStar 2 2100 and 2600 Display.

The kit is used to install the Rate Controller inside the cab of the machine. It is typically used with the GreenStar Ready Universal Guidance Kit BPF10139 in non-Deere applications.

The kit can eliminate the need for the Power Harness (BPF10403 and BPF10404), Front Extension Harness (BPF11285 or BPF11284), and the ISO Implement Connector Harness (part number RE174725).

The kit is used to install the Rate Controller inside the cab of the machine. It is typically used with the GreenStar Ready Universal Guidance Kit BPF10139 in non-Deere applications. The kit can eliminate the need for the Power Harness (BPF10403 and BPF10404), Front Extension Harness (BPF11285 or BPF11284), and the ISO Implement Connector Harness (part number RE174725).

Compatibility

See Ag Sales Manual for compatibility.

Requires a GreenStar Ready machine with ISO Implement Connector and GreenStar3 2630 or GreenStar2 2100 and 2600 Display.



RATE CONTROLLER ANHYDROUS AMMONIA (NH3) ADAPTER HARNESS

PART NUMBER: PF90575

Description
Connects the Rate Controller to the Raven Accuflow to control NH3.
GreenStar Rate Controller enables rate control of many implements through the Gen 4 4640, GreenStar3 2630 or GreenStar 2 2100 and 2600 Display.
Compatibility
See Ag Sales Manual for compatibility.
Requires a GreenStar Ready machine with ISO Implement Connector and GreenStar3 2630 or GreenStar2 2100 and 2600 Display.



CAN FRONT EXTENSION HARNESS (12M)

PART NUMBER: PF90553

Description
GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.
For extending harnessing from controller to ISO connector on tractor.
Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.
Required when ISO 9-pin connector at tractor rear is not available for plugging in a front harness extension due to prior installation of SeedStar, Seed Blockage, or other implement controller.
Install instruction is PC20794
Compatibility
See Ag Sales Manual for compatibility.
Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.



RTK RADIO EXTENSION HARNESS (15.24M/50FT)

PART NUMBER: PF90450

Description

Includes grounding rod.

Compatibility

Compatible with either the John Deere RTK Radio 900 or John Deere RTK Radio 450.



RTK RADIO EXTENSION HARNESS (91.44M/300FT)

PART NUMBER: PF90401

Description

Includes grounding rod.

Compatibility

Compatible with either the John Deere RTK Radio 900 or John Deere RTK Radio 450.



RTK BASE STATION EXTENSION HARNESS (6.06M/20FT)

PART NUMBER: PF90884

Description

Compatible with either the John Deere RTK Radio 900 or John Deere RTK Radio 450.



FINAL TIER 4 GREENSTAR HARNESS

PART NUMBER: BPF11129

Description

Includes power supply harness kit and GreenStar harness for non-GreenStar Ready machines.



GREENSTAR MOBILE GUIDANCE HARNESS

PART NUMBER: PFA10288

Description

Used within BPF10302 GreenStar Mobile Guidance Kit.

Not compatible with ISO implement harness.



HIGH CURRENT POWER ADAPTER HARNESS FOR 4WD TRACTOR

PART NUMBER: PF90822

Description
GreenStar Implement Control Kits are used to complete a system for GreenStar Rate Controller, SurfaceWater Pro, iGrade, Active Implement Guidance or Implement Detection.
Required when current draw exceeds 30 amps at the ISO Implement Connector.
Requires High Current Power Extension Harness.
Associated with "GreenStar Implement Control Kits" in "AMS Attachments" price pages.
Install instruction is PFP14293
Compatibility
This kit is intended for 4WD tractors only.
See Ag Sales Manual for compatibility.
Requires a GreenStar Ready machine with ISO Implement Connector and Gen 4 Display (4100, 4600, 4640), GreenStar3 2630 or GreenStar2 2600 Display.



HIGH CURRENT POWER HARNESS 8000, 8010, OR 8020 SERIES TRACTORS

PART NUMBER: BPF10933

Description
GreenStar Ready Tractor Kits:
1. Include cab harness, mounting bracket(s) for a GreenStar Display, machine side quickcoupler bracket for position receiver, and ISO implement harness.
2. Kit compatible with 4640 Display. Bracket is not compatible and will require 4640 compatible bracket for use.
3. If components of these kits are needed separately, order the needed items through Parts.
4. If connecting to the GreenStar3 or GreenStar2 Display, order a PF90688 harness.
Compatibility
For use on wheeled and track tractors equipped with the GreenStar Ready Tractor Kit PF90252.
For use on wheeled and track tractors equipped with the GreenStar Ready Tractor Kit PF90252.
Not for use with BPF10937.





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