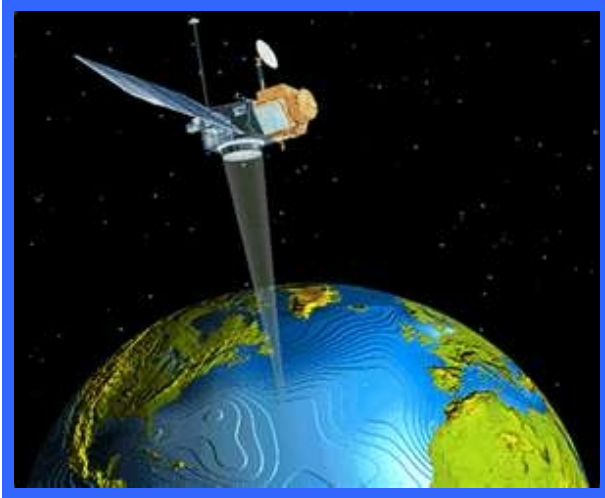# AG·EXPRESS® ELECTRONICS

Service and Products for Precision Agriculture

Providing Electronic Service, Applications, Harnessing & Interfacing for Precision Products by: Trimble® • John Deere® • Case New Holland® • AutoFarm® • Raven™ • Others | *What do you need?*

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2014

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Providing Services and Support for Agricultural Electronics

- Repair/Rebuild Ag Electronics
- Sell Parts related to Ag Electronics
- Experts in Harnessing and Interfacing/Adapting
- Sell Systems Specific to the Industry
- Troubleshoot the Customer's Problems
- Offers Expert Advice and Assistance

If You Have a Unit That Needs Service, Calibration, or You Would Simply Like to Have it Checked Out Ag Express Can Help You!

- Planter & Drill Monitors
- Tractor & Combine Tachs
- Moisture Testers
- Electronic Farm Scales
- Baler Controls
- Radar Guns
- Digital Tractor Clusters
- Digital Combine Clusters
- Spray & NH$_3$ Consoles

www.agexpress.com

Agriculture Feeds the World

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AG·EXPRESS®
ELECTRONICS

QUICK TURNAROUND ON SEASONAL PRODUCTS!

- We are the Harness Experts
- Standard Planter and Drill Harnesses
- Custom Planter and Drill Harnesses 1 Row to ???
- Adapters, Extensions, Radar Y's, Interfaces
- We Stock Most Agricultural Connectors
- Seed Sensors for Planters and Drills
- Spray Control Parts
- Lamps, Switches, Alarms, Wire, Fuses, Etc.

At Ag Express we believe the customer should get exactly what they want. Let us work with you to design a service program that's right for you. **After all - YOU are the customer!**

Visit us on the web at:

www.agexpress.com

or

Like us on Facebook

No Affiliation – **Ag Express Electronics is NOT affiliated with the owners of the listed trademarks in this catalog.** See additional information on Back Cover.

GreenStar® Repairs

GreenStar® 2630 Display

Description	List Price
Touch Screen Replacement	1000.00

GreenStar® 2600 Display

Description	List Price
Audio Alarm Repair	150.00
Connector Replacement (on back of unit)	225.00
Card Reader Repair	380.00
Backlight Repair	400.00
Touch Screen Replacement	695.00

GreenStar® 1800 Display

Description	List Price
Display Glass Replacement	250.00
Audio Alarm Repair	150.00

Original GreenStar® Display Note ⇒Originals are repaired at our Sulphur Springs location only

Description	List Price
Audio Alarm, Keypad, Backlight, LCD Vertical Line Repair	160.00

Receivers Note ⇒Receivers are repaired at our Sulphur Springs location only

Description	List Price
StarFire® Generation 2 Receiver Repair	500.00
StarFire® iTC® Receiver Repair	500.00
StarFire® 3000 Receiver Repair	500.00

RTK Radios Note ⇒RTK Radios are repaired at our Sulphur Springs location only

Description	List Price
900 MHz Radio Repair	250.00
450 MHz Radio Repair	Call

Note:
We repair the unit you send us. For you, this means no hassle to change Software, Activations or Subscriptions. *Our normal repair turnaround time is 24 to 48 hours from receiving the unit.*

Raven™ Repairs

- **Field Computers**
- **Flow Controllers**
- **Guidance Displays and Lightbars**
- **Receivers**

www.agexpress.com

Field Computers and Controllers

Description	Typical Repair Price
Viper Pro™ Display	150.00 – 695.00
Viper II™ Display	150.00 – 695.00
Envizio Pro™ Display	150.00 – 695.00
Envizio Plus™ Display	75.00 – 695.00

Guidance Displays and Lightbars

Description	Typical Repair Price
Cruizer™	75.00 – 695.00
Cruizer II™	75.00 – 695.00
Cruizer II™ Weather Resistant	75.00 – 695.00
RGL 500™ Lightbar	235.00 – 600.00
RGL 600™ Lightbar	235.00 – 600.00

Receivers and Antennas

Description	Typical Repair Price
Phoenix 200™ and Phoenix 300™ Receivers	85.00 – 285.00
Invicta™ 110/115/210/310 Receivers	85.00 – 285.00
RPR 100G/100S/218/400/410 Receivers	85.00 – 285.00
SmarTrax™ Controller (Update S/W and Configure Only)	370.00 – 845.00

Repair prices shown are for reference only. Prices will vary, depending on actual work performed. Contact any Ag Express office with specific questions concerning repair pricing.

In addition to these Raven™ Precision products – Ag Express Repairs and Calibrates all Raven™ control system products:

⬇   ⬇   ⬇

Flow Meters ● Servo Valves ● Liquid Control Consoles ● NH3 Consoles

Trimble® Repairs

Ag Express is an Authorized Trimble® Repair Service Center for Warranty and Non-Warranty repairs. Trimble products are <u>only</u> repaired at our Des Moines Iowa location.

- FMX® and FieldManager™ Displays
- EZ-Guide® Series Lightbars
- Autopilot™ Components
- EZ-Steer® Controllers and Motors
- Rawson® Drives and Processors

  www.agexpress.com

Displays and Lightbars

Description	Typical Repair Price
FieldManager™ Display (FMD)	300.00 – 600.00
FMX® Display	800.00 – 1000.00
CFX-750™ Display	400.00 – 600.00
EZ-Guide® Plus	200.00 - 300.00
EZ-Guide® 250	200.00 – 300.00
EZ-Guide® 500	200.00 – 400.00
EZ-Boom® Controller	75.00 – 250.00

Steering Controllers and Components

Description	Typical Repair Price
NavController™	200.00 – 600.00
NavController™ II	300.00 – 600.00
EZ-Steer® Controller	200.00 – 300.00
EZ-Steer® Motor Assembly	370.00 – 845.00

Receivers and RTK Radios

Description	Typical Repair Price
*Ag*GPS® 132 Receiver	150.00 – 350.00
*Ag*GPS® 252 Receiver	600.00 – 2300.00
*Ag*GPS® 262 Receiver	800.00 – 1000.00
*Ag*GPS® (110/114/120/124/214/332 /361/372/432/442) Receivers	Call> 515-289-2746
RTK Radios (*Ag*GPS® 900/SiteNet™ 450 and 900/SNB900/SNB900R/Base 450 and 900)	Call> 515-289-2746

Trimble® Repairs

Rawson® Controllers and Drives

Description	Typical Repair Price
PAR E Hydraulic Motor Assembly	750.00 – 1000.00
PAR 4 Hydraulic Motor Assembly	750.00 – 1000.00
PAR 2 Hydraulic Motor Assembly	750.00 – 1000.00
Mark III Input	335.00 – 385.00
Mark III Processor	295.00 – 395.00
AccuPlant™ Processor	295.00 – 395.00
Mark IV Processor	295.00
AccuRate™ Processor	295.00

Note: Repair prices are shown for reference only. All Trimble® repair customers are provided with a cost estimate prior to repair.

**Repair for Trimble® Navigation Equipment is offered _only_ ← at our Iowa location.
Please forward to:
⬇   ⬇   ⬇
Ag Express Electronics
6280 NE 14th Street
Des Moines, Iowa 50313**

**For Questions, please call: (515) 289-2746
Or email: dsm@agexpress.com**

Case New Holland® Repairs

- AFS® Universal Display Plus
- AFS® Pro600 and IntelliView™
- EZ-Guide® Series Lightbars
- Autopilot™ Components
- EZ-Steer® Controllers and Motors

www.agexpress.com

AFS® Pro 600 and New Holland® IntelliView™

Description	Typical Repair Price
Audio Alarm Repair	150.00
Backup Battery Replacement	150.00
Display Backlight Repair	150.00
Console Connector Replacement	225.00
Card Reader Repair	380.00
Touch Screen Replacement	600.00
LCD (and) Touch Screen Replacement (see note 1)	1200.00

AFS® Universal Display Plus

Description	Typical Repair Price
Audio Alarm Repair	150.00
Console Connector Replacement	200.00
Card Reader Repair	380.00
Touch Screen Replacement	800.00
LCD (and) Touch Screen Replacement (see note 1)	1600.00

Note 1: To replace defective LCD assemblies on these units, it is necessary to replace the Touch Screen assembly as well. The listed repair price reflects the price to replace both assemblies.

➔ *If you have customers that have the smaller size AFS® Universal Display – parts are no longer available.*

Case New Holland® Repairs

(Please see note at bottom of this page)

Displays and Lightbars

Description	Typical Repair Price
FieldManager™ Display (FMD)	300.00 – 600.00
FM1000™ Display	800.00 – 1000.00
FM750™ Display	400.00 – 600.00
EZ-Guide® Plus	200.00 - 300.00
EZ-Guide® 250	200.00 – 300.00
EZ-Guide® 500	200.00 – 400.00
EZ-Boom® Controller	75.00 – 250.00

Receivers and RTK Radios

Description	Typical Repair Price
*Ag*GPS® 132 Receiver	150.00 – 350.00
*Ag*GPS® 252 Receiver	600.00 – 2300.00
*Ag*GPS® 262 Receiver	800.00 – 1000.00
*Ag*GPS® (110/114/120/124/214/332 /361/372/432/442) Receivers	Call> 515-289-2746
RTK Radios (*Ag*GPS® 900/SiteNet™ 450 and 900/SNB900/SNB900R	Call> 515-289-2746

Steering Controllers and Components

Description	Typical Repair Price
NavController™	200.00 – 600.00
NavController™ II	300.00 – 600.00
EZ-Steer® Controller	200.00 – 300.00
EZ-Steer® Motor Assembly	370.00 – 845.00

The Products on this page(pg 6) are manufactured by Trimble®. These products are only repairable at our Des Moines, Iowa location.

AutoFarm® Repairs

Ag Express Electronics is authorized by Novariant™ to repair AutoFarm® Equipment at our Grand Island <u>Nebraska</u> <u>location</u> <u>only</u>. Products we repair include the following:

- A5 Displays
- Mobile/Permanent/Tower Base Units
- Duo/Quad Receivers
- SAM Steering Modules

  www.agexpress.com

Description	Typical Repair Price	Price Range
A5 Display	500.00	100.00 – 1200.00
Mobile/Permanent/Tower Base Units	500.00	100.00 – 2700.00
Duo/Quad Receivers	500.00	100.00 – 3000.00
SAM Steering Modules	350.00	100.00 – 350.00
External Radio Modules	100.00	Call> 308-381-2905
Antennas	Not Repairable	-
Cultiva™ Display	Not Repairable	-

Repair for AutoFarm® is offered <u>only</u> ⬅
at our Nebraska location.
Please forward to:
⬇   ⬇   ⬇
Ag Express Electronics
308 Claude Rd
Grand Island, NE 68803

For Questions, please call: (308) 381-2905
Or email: gitechs@agexpress.com

Virtual Terminal Desktop Power Harnesses

Overview:

- Allows the virtual terminal to be powered up in the office or home.
- Data can be easily transferred and updates installed without going to the machine.
- Training and demonstrations can be performed on virtual terminal functions.
- Each harness includes a 120V AC to 12V DC power supply that will plug right in to a wall outlet.
- A switch is also in the cable so that the display can be powered up and shut down properly.

Trimble®   **CNH®**

John Deere®   **Topcon™**   **Ag Leader®**

Description	Part Number	List Price
AFS® Pro 600/Pro 700 and IntelliView™ Desktop Power Harness	AE2851	125.00
John Deere® GS2/3 Desktop Power Harness	AE3031	125.00
Ag Leader® Integra™/Versa™/Insight™ Desktop Power Harness	AE25913	125.00
Trimble® FMX® Desktop Power Harness	AE2874	Call
TopCon™ X30 Desktop Power Harness	AE2897	125.00

AFS® Pro 600/Pro 700 and IntelliView™
Universal Mapping Harness

Overview:
- Allows you to do mapping with an ATV, UTV, Pickup, or any vehicle.
- Wired to connect to AFS®/Trimble® receivers with a 12 pin DTM Deutsch connector. **Built in CAN Bus compatibility for RTX applications.**
- Adapters are available for 3rd party receivers via RS232 communication. Call for details.
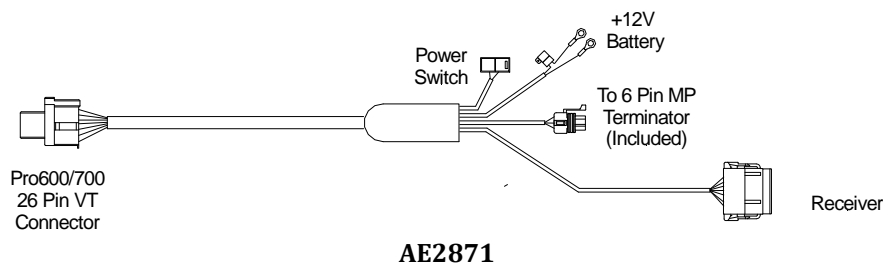
AE2871

Description	Part Number	List Price
AFS®Pro 600/Pro 700 and IntelliView™ Mapping Harness	AE2871	220.00

AFS®Pro 600/Pro 700 and IntelliView™
ISO Cab Harness

Overview:
- Allows you to use your CIH implement and AFS®Pro 600/Pro 700 on any tractor.
- This harness will work on any make or model of tractor that does **not** have an ISO connection.
- Includes the stainless steel SMV mounting bracket and dust cap for the ISO implement connector.
- CANBus compatible for use with AFS®/Trimble® receivers with the addition of AE2782RX harness.
- Terminator is included with the harness.
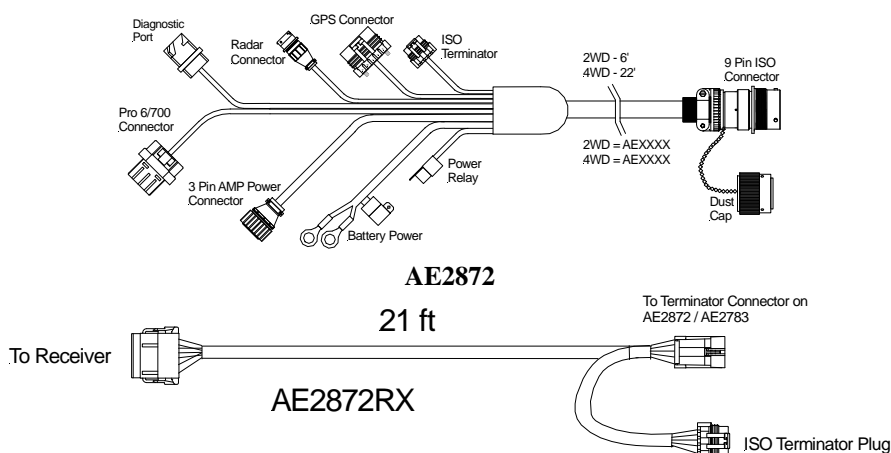
AE2872

Description	Part Number	List Price
2WD ISO Harness for Non ISO tractors AFS® Pro 600/Pro 700&IntelliView™	AE2872	605.00
4WD ISO Harness for Non ISO tractors AFS®Pro 600/Pro 700&IntelliView™	AE2873	665.00
CANBus Adapter for AFS® and Trimble® Receiver	AE2872RX	85.00

Universal Mobile Mapping Harnesses for GreenStar® Displays

Overview:

- Allows you to do mapping with an ATV, Gator®, pickup or any vehicle.
- AE3071 harness will work with the GreenStar® 2/3 displays.
- AE3071 hooks to any John Deere® receiver or you have the option of hooking to a 3rd party receiver via the included serial port.
- AE3069 harness allows the use of the original GreenStar® display and mobile processor.
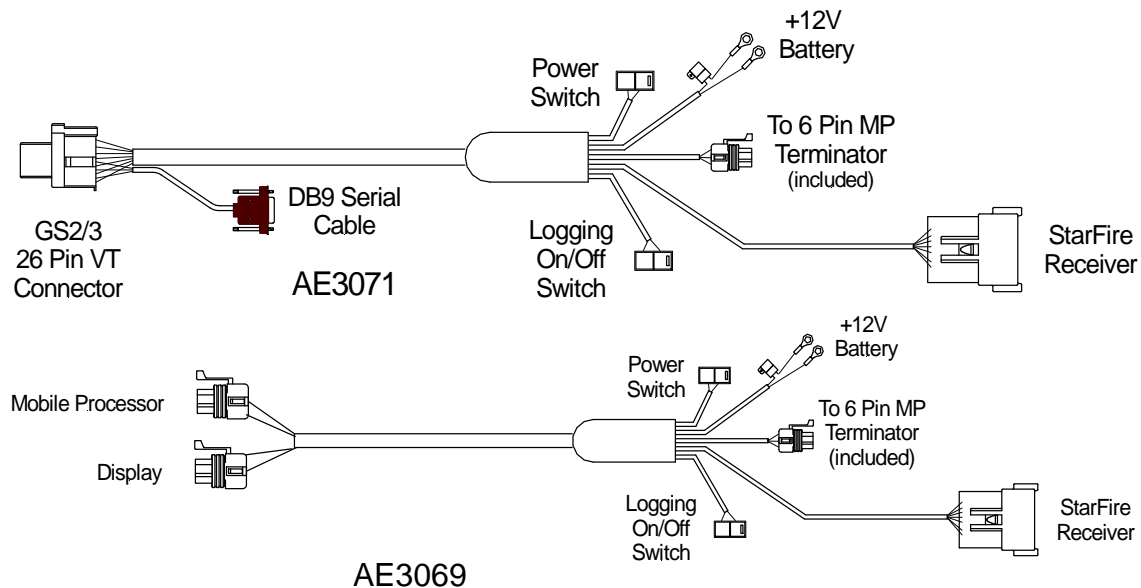
Description	Part Number	List Price
GreenStar® 2/3 Mobile Mapping Harness*	AE3071	220.00
Original GreenStar® Mapping Harness*	AE3069	220.00

*Includes the required 2.5V terminator.
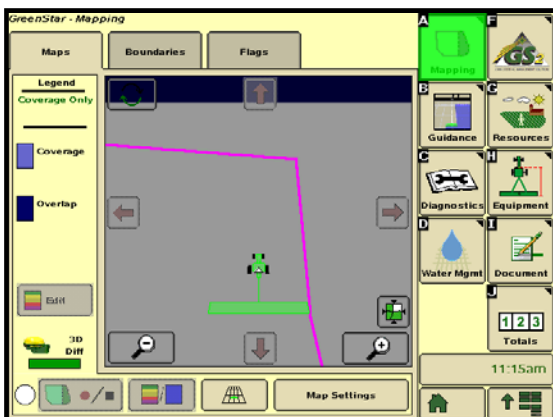
ISO Tractor Cab Harnesses for GreenStar® Displays

→**This harness is compatible with the GS2 & GS3 Display**
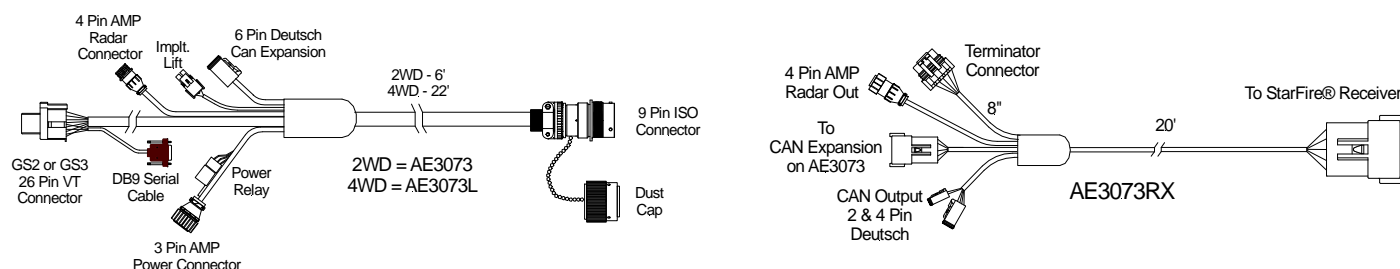
Overview:
With this robust harness, you can connect to an ISO compatible implement harness with minimal connections or hassle. As an example – you could use this harness to connect to an ISO compatible planter for seed monitoring.

- It will work on any make or model of tractor that does **not** have an ISO implement connection. (Harnesses are offered for both 2 wheel and 4 wheel drive tractors).
- Add the CAN expansion cable to allow hook up to the StarFire® receiver and ATU™ harnessing (AE30991).
- The harness has a serial port that will allow hooking to 3rd party GPS receivers (Trimble®, Raven™, etc) or rate controllers (Raven™, New Leader®, etc).
- Includes the stainless steel SMV mounting bracket and dust cap for the ISO implement connector shown on page 50.

Description	Part Number	List Price
2WD ISO Harness for Non ISO Ready Tractors GS2/3	AE3073	470.00
4WD ISO Harness for Non ISO Ready Tractors GS2/3	AE3073L	530.00
Expansion Cable for StarFire® Receiver w/ Terminator	AE3073RX	180.00
Expansion Cable for ATU™ 10'	AE30991	135.00

→**Need a harness compatible with the Original GreenStar® Display?**

⬇　　　　⬇　　　　⬇　　　　⬇

- The AE3067 is the same harness as our AE3073(above) but with a connector for the Original Display. (Does not have a connection for the Mobile Processor)
- This harness includes a 6 pin MP terminator.
- Includes the stainless steel SMV mounting bracket and dust cap for the ISO implement connector shown on page 50.

Description	Part Number	List Price
2WD Tractor Harness for Original Brown Display only	AE3067	520.00
4WD Tractor Harness for Original Brown Display only	AE3067L	580.00

Planter Frame Control Adapters

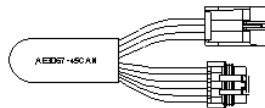## →AE3067 Harness Planter Frame Control Adapters (Optional)
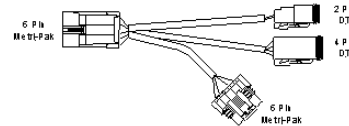

CAN Planter Frame Control Box

CAN L/R Clutch Disengage Box

- Used with the CAN Frame Control Box on JD® Front Fold Planters & AE3067 Cab Harness

Description	Part Number	List Price
4/5V Planter Frame Control Adapter w/built in 4/5V terminator	AE3067-45CAN	120.00
2.5V Planter Frame Control Adapter	AE3067-25CAN	70.00

AE3067-45CAN

AE3067-25CAN

4/5 V CAN Connectors

2.5V CAN Connectors

→AE3073 Harness Planter Frame Control Adapters (Optional)

- Used with the CAN Frame Control Box on JD® Front Fold Planters & AE3073 Cab Harness
  - *Only required if **NOT** using an AE3073RX cable and you need to hook up a CAN Planter Frame Control Box or CAN Clutch Disengage Box.

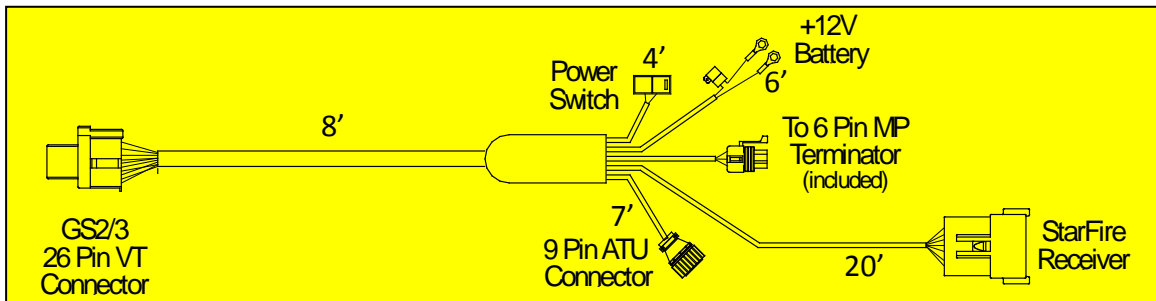| Description	Part Number	List Price
2.5V Planter Frame Control Adapter w/terminator*	AE3073-25CAN	120.00
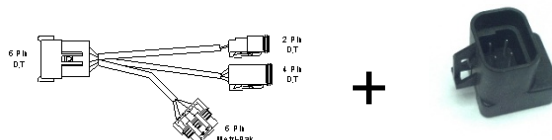
*AE3073-25CAN

➜Universal ATU™ Cab Harness for Any Vehicle

Overview:

▪ Harness is designed to simplify the task of installing the ATU™ in different vehicles by providing an all-in-one cabling solution.
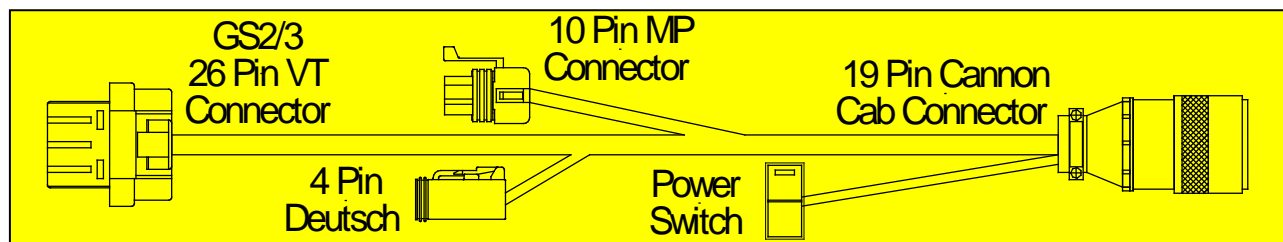

Description	Part Number	List Price
GS2/3 Universal ATU™ Cab Harness w/ Terminator	AE3183	315.00
GSD4 Universal ATU™ Cab Harness w/ Terminator	AE3192	335.00

➜Corner Post Cables to GS2/3 and CommandCenter™

Overview:

▪ AE3187, AE3181, and AE3027 harnesses allow the operator to turn off the GS2/3 without turning off the ignition switch. This makes it convenient to reboot the display without shutting off the engine, or to operate the tractor without the display running.

▪ AE3061 and AE30611 allow a touch screen CommandCenter™ to be used in place of a GS2/3 for auto steer or in an S Series combine.

▪ Stock cable lengths are shown. Custom lengths are available upon request.
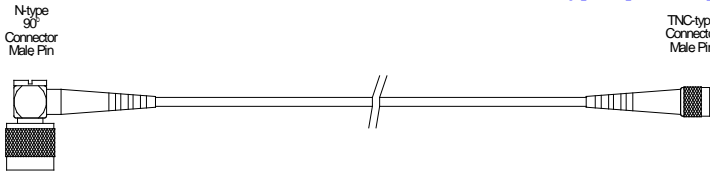
Description	Part Number	List Price
Corner Post Cable w/ Power Switch Only - 2'	AE3187	155.00
Corner Post Cable w/ Power Switch Only - 5'	AE3187-5	167.00
Corner Post Cable w/ all Connectors Shown – 2'	AE3181	195.00
Corner Post Cable w/ Power Switch and Video - 3'	AE3027	170.00
Round Corner Post Extension Cable 3'	AE2063	150.00
GS2/3 to CommandCenter™ Adapter* - 2'	AE3061	185.00
Round Corner Post to CommandCenter™ – 2'	AE30611	115.00

*Note: Adapts 26 pin connector for GS2/3 display harness to the CommandCenter™ 10 pin connector

GPS Receiver Extensions

➜ Coaxial Antenna Extensions
(Cable types = LMR195/RG58, LMR240 & LMR400)
Other cable size and connector types quoted upon request

N-type 90° Connector Male Pin

TNC-type Connector Male Pin

Example = AE2757-58-020

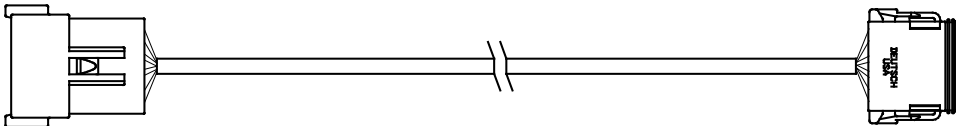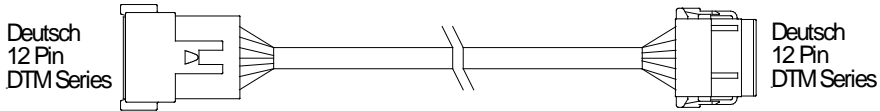| Description	Part Number	Minimum List Price		
Cable "type" = 58, 240 or 400 & xxx = length in feet		**RG58#**	**LMR240^**	**LMR400***
TNC to TNC, Straight	AE2750 -**"type"**-xxx	**75.00**	**80.00**	**90.00**
TNC 90° to TNC Straight	AE2751-**"type"**-xxx	**75.00**	**80.00**	**90.00**
TNC 90° to TNC 90°	AE2752-**"type"**-xxx	**75.00**	**80.00**	**90.00**
N-Type to N-Type, Straight	AE2753-**"type"**-xxx	**75.00**	**80.00**	**90.00**
N-Type 90° to N-Type Straight	AE2754-**"type"**-xxx	**75.00**	**80.00**	**90.00**
N-Type 90° to N-Type 90°	AE2755-**"type"**-xxx	**75.00**	**80.00**	**90.00**
N-Type Straight to TNC Straight	AE2756-**"type"**-xxx	**75.00**	**80.00**	**90.00**
N-Type 90° to TNC Straight	AE2757-**"type"**-xxx	**75.00**	**80.00**	**90.00**
N-Type Straight to TNC 90°	AE2758-**"type"**-xxx	**75.00**	**80.00**	**90.00**
N-Type 90° to TNC 90°	AE2759-**"type"**-xxx	**75.00**	**80.00**	**90.00**
# = Add 1.50/ft over 15' **Max = 50'**	**^ = Add 2.00/ft over 15'** **Max = 100'**		*** = Add 3.00/ft over 20'** **Max = 200'**	

➜ StarFire® Receiver Extensions
(For RTK Tower Extensions, see page 13)
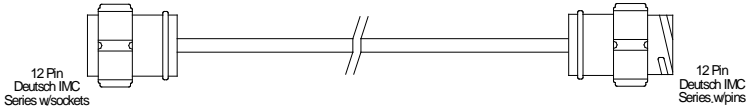
Description	Part Number	≤10' List Price
John Deere® StarFire® Receiver (Rover) Extension	AE3101-xx	95.00*
	xx = length in feet	*Add 2.50/ft over 10'

➜ CNH®/Trimble® 12 Pin Deutsch DTM Receiver Extensions

Deutsch 12 Pin DTM Series

Deutsch 12 Pin DTM Series

Description	Part Number	≤10' List Price
CNH®/Trimble® Receiver Extension	AE3102-xx	95.00*
	xx = length in feet	*Add 2.50/ft over 10'

➜ Raven™, Ag Leader® & TeeJet® Receiver Extensions

12 Pin Deutsch IMC Series w/sockets

12 Pin Deutsch IMC Series w/pins

Description	Part Number	≤10' List Price
DB9 Extension, Pinned Straight Through	AE2561-xx	85.00*
Reverser Adapter (Switches Pins 2 & 3 only)	AE7278	10.00
Gender Changer M/M (Pins, Pictured above)	AE7279	8.00
Gender Changer F/F (Sockets)	AE72791	8.00
12 pin Deutsch IMC Series Receiver Extension	AE2563-xx	210.00*
	xx = length in feet	*Add 2.50/ft over 10'

StarFire® RTK Tower Extension Cable

Overview:

Do you need an extension cable to complete an RTK tower site, but don't want to tie down a lot of excessive cable or piece several extensions together? Ag Express can fabricate RTK Receiver extensions to any custom length your project requires.

- AE3063 connects between StarFire® Receiver and harnessing at ground level.
- Heavy duty cable designed for use in rugged environments like ice, wind, and snow.
- Stock lengths available, or specify custom length up to 300'.
- AE3033 RTK radio extension includes protection diodes and ground strap.

12 Pin Deutsch Receptacle — AE3063-XXX — 12 Pin Deutsch Plug

4 Pin Deutsch Plug — AE3033-XXX — 4 Pin Deutsch Receptacle

Plugs directly into Receiver

AE3063-xxx

Receiver Harness moved to ground level

To display Harness
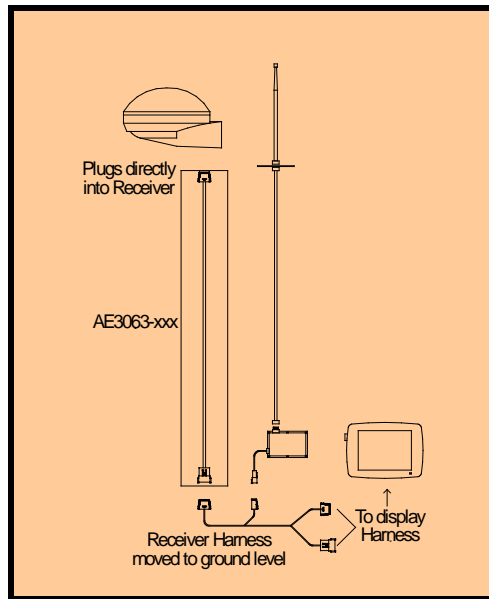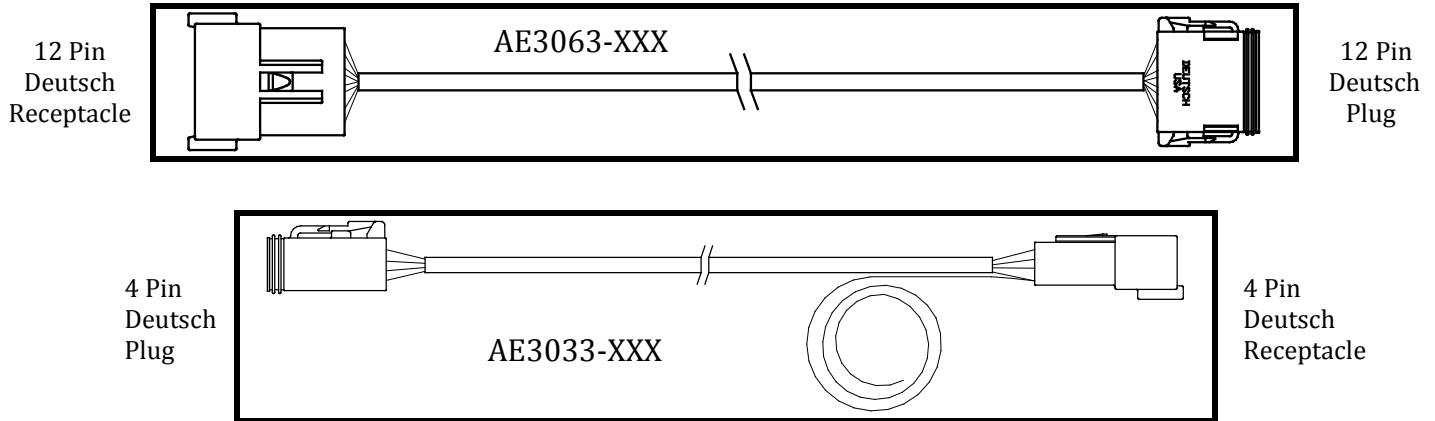
Description	Part Number	List Price
RTK StarFire® Receiver Extension 10'	AE3063-10	105.00
RTK StarFire® Receiver Extension 200'	AE3063-200	580.00
Custom Lengths – Add $2.50 per foot above 10' – Use part number AE3063-XXX where XXX equals length in feet up to 300' long. Minimum price is $105.00 for all cables under 10'.		
RTK Radio 4 Pin Deutsch Extension 10'	AE3033-10	150.00
Custom Lengths – Add $1.50 per foot above 10' – Use part number AE3033-XXX where XXX equals length in feet up to 300' long. Minimum price is $150.00 for all cables under 10'.		

StarFire® Receiver Output Cable for NMEA & Speed Signal

Overview:

Plug this cable in between your StarFire® Receiver & your StarFire® Receiver harness to provide NMEA/Speed to various monitors, controllers, and display units.
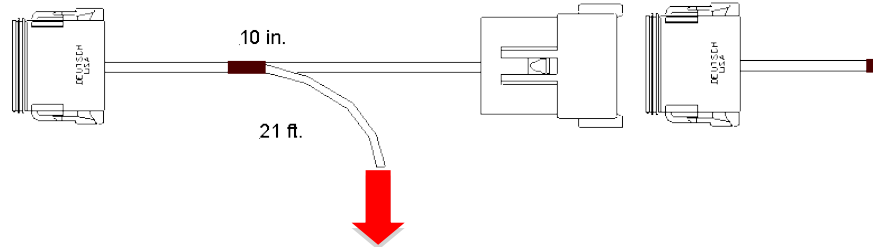
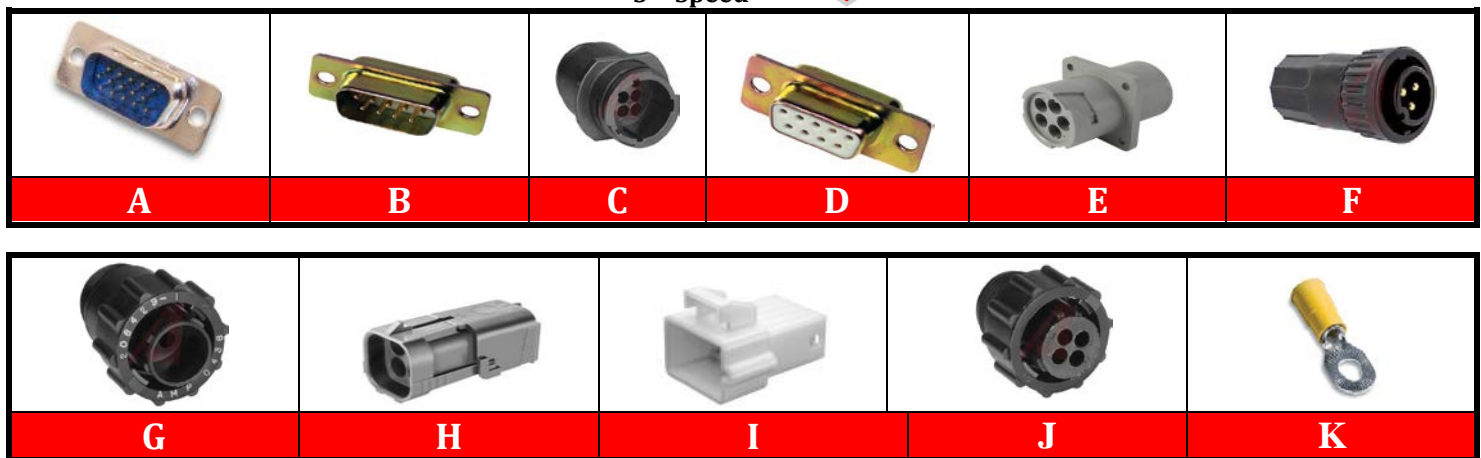| Description	Output	CON	Works with	Part #	List $
GPS RS232 CNH® Pro 600/700 & Raven™ V/E Pro	N	D	GenII, iTC® & 3000	AE3070	115.00
GPS to Ag Leader® Insight™2000/3000,Edge™, Integra™	N	B	GenII, iTC® & 3000	AE3070B	115.00
GPS to Ag Leader® PF Advantage™/PF 3000 Pro™	N	A	GenII, iTC® & 3000	AE3070C	115.00
GPS RS232 & AMP Speed out	N & S	D&G	iTC® & 3000	AE3070D	145.00
GPS RS232 for Flexi-Coil® TASC Controller	N	E	GenII, iTC® & 3000	AE3070E	115.00
GPS RS232 & 2 AMP speed output	N & (2)S	D&GG	iTC® & 3000	AE3070F	170.00
GPS RS232 & Raven™ Speed output	N & S	D&F	iTC® & 3000	AE3070G	145.00
GPS AMP Speed output only	S	G	iTC® & 3000	AE3070H	115.00
GPS Raven™ Speed output only	S	F	iTC ®& 3000	AE3070J	115.00
GPS to Ag Leader® Insight™ 2000/3000 w/AMP speed	N & S	B&G	iTC® & 3000	AE3070K	145.00
GPS to DJ IntelliAg®	N	D	GenII, iTC® & 3000	AE3070L	115.00
GPS with 4 pin Weather Pak Speed output only	S	H	iTC® & 3000	AE3070M	115.00
GPS to CNH® 7010/8010 Combine	N	I	GenII, iTC® & 3000	AE3070N	115.00
GPS Speed output only no connector	S		iTC® & 3000	AE3070Q	110.00
GPS to Precision® Planting 20/20 SeedSense™	N	J	GenII, iTC® & 3000	AE3070R	115.00
GPS to TopCon™	N	C	GenII, iTC® & 3000	AE3070S	115.00
GPS to Precision® Planting 20/20 SeedSense™RS232 & AMP Speed out	N & S	G&J	iTC® & 3000	AE3070T	145.00

CON = Connector

N = NMEA
S = Speed

A	B	C	D	E	F

G	H	I	J	K

Use your StarFire® as a standalone receiver to output NMEA signal to any standard Serial Port - or an Ag Leader® 15 Pin Serial Port

Description	Output	CON	Works with	Part #	List $
GPS to Serial Port Data Cable	N	D&KK	GenII, iTC® & 3000	AE3070P	145.00
GPS to Ag Leader® 15 pin serial Data Cable	N	A&KK	GenII, iTC® & 3000	AE3070A	145.00

GPS and Speed Output Adapter Cables

Overview:

These adapter cables are used to output a radar signal or GPS/NMEA data to a Third-party Guidance System, Planter Monitor, Spray Control, or anything needing a radar signal or GPS/NMEA data. *In addition to the harnesses shown, Ag Express can build custom adapters to suit most applications. Give us a call at any Ag Express location for more information.*

Trimble® and Case New Holland®

Description	Part Number	List Price
FMX®/FM1000™ and CFX-750™/FM750™ Serial GPS/NMEA Output (Pins)	AE3374	60.00
FMX®/FM1000™ and CFX-750™/FM750™ Serial GPS/NMEA Output (Sockets)	AE33741	60.00
FMX®/FM1000™ and CFX-750™/FM750™ Serial GPS/NMEA Output 'Y' (Pins)	AE3373	100.00
FMX®/FM1000™ and CFX-750™/FM750™ Serial GPS/NMEA Output 'Y' (Sockets)	AE33731	100.00
FMX®/FM1000™ and CFX-750™/FM750™ Speed Output 'Y' Adapter to DJ	AE3375	85.00
FMX®/FM1000™ and CFX-750™/FM750™ Speed Output Adapter to DJ	AE33751	45.00
FMX®/FM1000™ and CFX-750™/FM750™ Speed Output 'Y' Adapter to Raven™	AE3376	85.00
FMX®/FM1000™ and CFX-750™/FM750™ Speed Output Adapter to Raven™	AE33761	45.00
EZ-Guide® 500 Speed and GPS/NMEA Harness to DJ	AE2593	135.00
EZ-Guide® 500 Speed and GPS/NMEA Harness to Raven™	AE25931	135.00
EZ-Guide® 250 Speed Output Adapter to DJ	AE25933	30.00
EZ-Guide® 250 Speed Output Adapter to Raven™	AE25934	30.00
*Ag*GPS® 162/262/372 Receiver Speed Output 'Y' Adapter to DJ	AE3377	115.00
*Ag*GPS® 162/262/372 Receiver Speed Output 'Y' Adapter to Raven™	AE3378	115.00
*Ag*GPS® 162/262/372 Receiver Speed Output to Integra™	AE3381	85.00
NavController™ II GPS/NMEA Serial Output Adapter (Trimble® Model)	AE3379	60.00
NavController™ II GPS/NMEA Serial Output (Pins) (Case New Holland® Model)	AE3380	65.00
NavController™ II GPS/NMEA Serial Output (Sockets) (Case New Holland® Model)	AE33801	65.00
TopCon™ X45 System NMEA output to Pro600/Pro700 (DB9F)	AE3382	60.00

AE3374	AE33741	AE3373
AE33731	AE3375	AE33751
AE3376	AE33761	AE2593
AE25931	AE25933	AE25934
AE3377	AE3378	AE3379
AE3380	AE33801	AE3381	AE3382

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GPS and Speed Output Cables and Adapters

Continued…

Raven ™ Outback® Teejet® and Miscellaneous

Description	Part Number	List Price
Cruizer™ Speed Output Adapter to DJ	AE2565	65.00
Cruizer™ Speed Output "Y" Adapter to DJ	AE25651	105.00
Cruizer™ Speed Output Adapter to Raven™	AE2567	65.00
Cruizer™ Speed Output "Y" Adapter to Raven™	AE25671	105.00
Outback® STS, S_2, S_3 Speed Output Adapter to DJ	AE2571	85.00
Outback® STS, S_2, S_3 Speed Output Adapter to Raven™	AE2589	85.00
Outback® S-Lite Speed Output Adapter to DJ Ext.	AE2530	60.00
Outback® S-Lite Speed Output "Y" Adapter to DJ	AE2554	75.00
Outback® S-Lite Speed Output Adapter to Raven™	AE2504	45.00
Outback® S-Lite Speed Output "Y" Adapter to Raven™	AE3259	75.00
Teejet® CL220, CL230BP Speed Output "Y" Adapter to DJ	AE2554	75.00
Teejet® CL220, CL230BP Speed Output "Y" to Raven™	AE3259	75.00
RS232, 9 Pin "Y" Adapter, 1 DB9 w/Pins to 2 w/Sockets	AE3200	65.00
RS232, 9 pin "Y" Adapter, 1 DB9 w/Sockets to 2 w/Pins	AE3201	65.00

AE2565	AE25651	AE2567
AE25671	AE2571	AE2589
AE2530	AE2554	AE2504
AE3259	AE3200	AE3201

Please Note: If you need any kind of Adapter, Y Cable or Extension, give us a call – Ag Express can Help You!

Tractor Radar Adapters

Overview:

These adapter cables are used to output a ground speed signal to a Planter Monitor, a Spray Control or anything needing a ground speed signal.

Description	Part Number	List Price
JD® 55/60 Series tractor to AMP Y adapter*	AE2556	75.00
JD® 55/60 Series tractor to AMP & Raven™ Y adapter*	AE3502	95.00
JD® 7/8000 Series tractor to AMP adapter	AE2502	35.00
JD® 7/8000 Series tractor to Raven™ adapter	AE2578	35.00
JD® 7/8000 Series tractor to (2) AMP Y adapter	AE2582	65.00
JD® 7/8000 Series tractor to AMP & Raven™ Y adapter	AE3319	65.00
AMP Y cable	AE2554	75.00
AMP Double Y cable	AE3504	95.00
AMP to Raven™ adapter cable	AE2504	45.00
AMP to Raven™ Y adapter cable	AE3259	75.00
AMP to AMP to (2) Raven™ Y cable	AE3501	95.00
AMP to AMP to AMP & Raven™ Y cable	AE3503	95.00
JD® iTC®/3000 ground speed out to a Raven™ Connector	AE2519	40.00
JD® iTC®/3000 ground speed out to an AMP Connector	AE2521	40.00
JD® 30 Series to AMP Connector	AE2577	52.50
JD® 30 Series to Raven™ Connector	AE2579	52.50
JD® 30 Series Y Cable going to (2) Raven™ Connectors	AE2501	80.00
JD® 30 Series Y Cable going to (2) AMP Connectors	AE2581	80.00
JD® 30 Series Y Cable to Raven™ Connector & AMP Connector	AE2585	80.00

*Note: This Y cable can NOT be used with Case/IH® Instrumentation.

AE2501	AE2502	AE2504	AE2519
AE2521	AE2554	AE2556*	AE2577
AE2578	AE2579	AE2581	AE2582
AE2585	AE3259	AE3319	AE3501
AE3502	AE3503	AE3504	**Please Note:** If you need any kind of Adapter, Y cable or Extension, give Us a call – Ag Express can Help You!

Continues on next page…

Tractor Radar Adapters (Continued...)

Overview:

These adapter cables are used to output a ground speed signal to a Planter Monitor, a Spray Control or anything needing a ground speed signal.

Description	Part Number	List Price
AMP Y Cable	AE2554	75.00
AMP Double Y Cable	AE3504	95.00
AMP to Raven™ Y adapter cable	AE3259	75.00
AMP to (2) Raven™ Y cable	AE3501	95.00
AMP to AMP & Raven™ Y cable	AE3503	95.00
Raven™ Y cable (All Raven™ ends)	AE2517	75.00
Case STEIGER® 4x4 Y cable*	AE2570	75.00
MX tractor series (Britax) to AMP adapter	AE2640	40.00
MX tractor series (Britax) to Raven™ adapter	AE2641	40.00
MX tractor series (Britax) to (2) AMP Y cable	AE3321	75.00
MX tractor series (Britax) to AMP & Raven™	AE3320	75.00
MX tractor series (Britax) to Micro-Trak® New Gen Adapter	AE2643	40.00
PUMA®/Fendt® (7 pin ISO) to AMP adapter	AE2577	52.50
PUMA®/Fendt® (7 pin ISO) to Raven™ adapter	AE2579	52.50
AGCO®/White® Y cable (4 pin flat AMP connectors)	AE2523	80.00
Genesis® Series Y cable (Gray Connectors)	AE2564	80.00
CAT Challenger® to AMP adapter	AE2588	50.00

*Note: This Y cable can <u>NOT</u> be used with John Deere® Instrumentation.

**Please Note:** If you need any kind of Adapter, Y cable or Extension, give us a call – Ag Express® can Help You!

AFS® Pro 700/Trimble®/Ag Leader® Camera Cables

Overview:
These cables allow either CabCAM™ or AgCam™ cameras to be utilized with a AFS® Pro 700, Trimble® FMX®, Trimble® CFX-750™, Ag Leader® Integra™ or Versa™ display units.

- Designed for easy installation and minimum cab clutter.
- Cables are constructed to be very robust and use heavy gauge wire.

Description	Part Number	List Price
AFS® Pro 700 to AgCam™ Adapter Cable	AE5704	135.00
AFS® Pro 700 to CabCAM™ Adapter Cable	AE5705	115.00
Trimble® CFX-750™/FMX® to AgCam™	AE5676	50.00
Trimble® CFX-750™/FMX® to CabCAM™	AE5674	45.00
AgCam™ Harness to CabCAM™ Camera Adapter	AE5703	50.00

AgCam™ Connector

CabCAM™ Connector
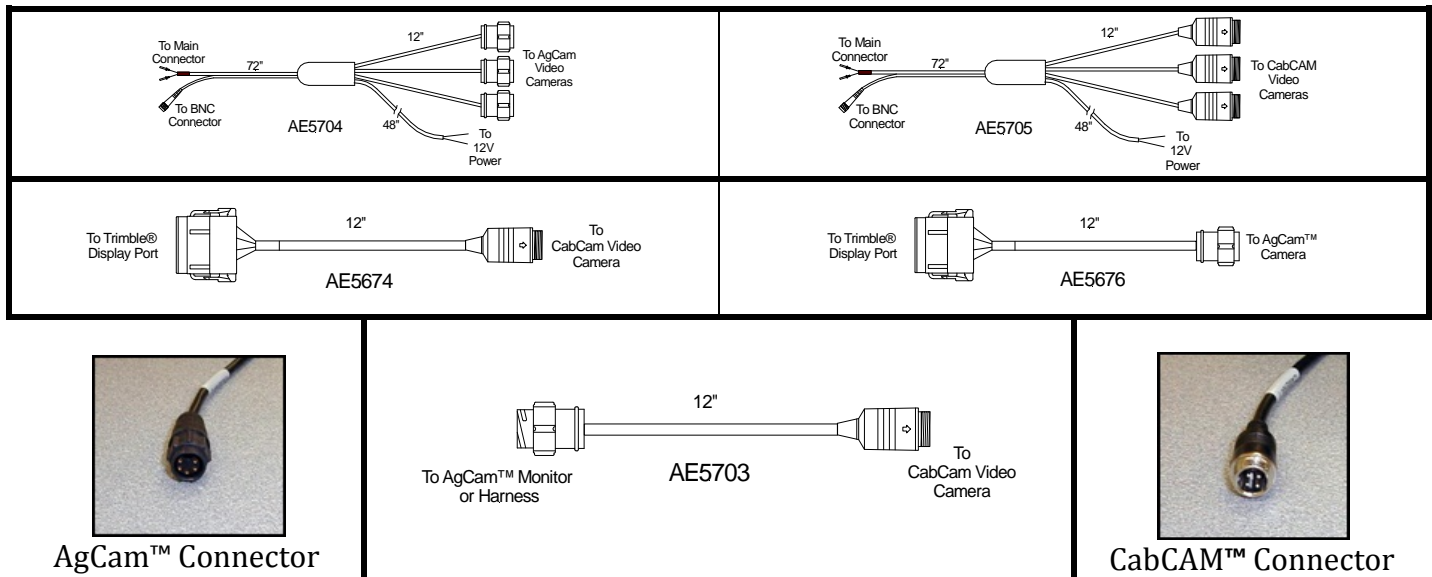
➔Ag Leader® Integra™/Versa™ Camera Cables

Overview:
These cables allow up to four CabCam™ or AgCam™ cameras to be utilized with an Ag Leader® Integra™ or Versa™ display.

Description	Part Number	List Price
Integra™/Versa™ to AgCam™ (4 Cameras)	AE5702	185.00
Integra™/Versa™ to CabCAM™ (4 Cameras)	AE5701	165.00

Note: If you need a complete camera system or part of a system, let us know. Ag Express can supply whatever you need. Voyager™ and RV Cam adapters are also available.

GreenStar® 2630 Display and 'S' Series
Combine & 'R' Series Tractor Camera Cables

Overview:
These cables allow either CabCAM™ or AgCam™ cameras to be utilized with a 2630 display, 'S' Series Combines or 'R' Series Tractors with a **Touch** **Screen** **CommandCenter**™ *(Lower section)*.

- Designed for easy installation and minimum cab clutter.
- Cables connect to the John Deere® terminal strip to power up to three cameras.
- Installation in combine cabs is kept clean with cables made specifically for the display and power strip being far away from one another.
- Cables are constructed to be very robust and use heavy gauge wire.

Description	Part Number	List Price
CabCAM™ Adapter Cable for Tractors	AE5697	115.00
CabCAM™ Adapter Cable for Combines	AE5697C	115.00
AgCam™ Adapter Cable for Tractors	AE5698	135.00
AgCam™ Adapter Cable for Combines	AE5698C	135.00

Tractor

To 2630 Video Connector — 120" — 12" — To Video Cameras — 48" — To Power Strip

AE5697 & AE5698

Combine

To 2630 Video Connector — 120" — 12" — To Video Cameras — 48" — To Power Strip

AE5697C & AE5698C

CabCAM™ Connector

AgCam™ Connector

Overview:
These adapters provide a quick and easy solution to use AgCam™ or CabCAM™ cameras with the **Touch Screen** **CommandCenter**™ armrest display on John Deere® 'R' Series Tractors and 'S' Series Combines.

Description	Part Number	List Price
6R Series CommandCenter™ to CabCAM™	AE5664	70.00
6R Series CommandCenter™ to AgCam™	AE5663	70.00
7-8-9R Series CommandCenter™ and 'S' Series Combine to CabCAM™	AE5670	45.00
7-8-9R Series CommandCenter™ and 'S' Series Combine to AgCam™	AE5672	50.00

120"

7 Pin AMP

12"

4 Pin AMP Rectangular

AE5663 & AE5664	AE5670 & AE5672

Note: If you need a complete camera system or part of a system, let us know. Ag Express can supply whatever you need. Voyager™ and RV Cam adapters are also available.

TopCon™ Adapter Cables

Overview:

Listed below, you will find the most common cables designed for TopCon's various controllers. Some of the features of these cables include:

- Designed for easy installation
- Cables are constructed to be robust and use heavy gauge wire
- Use the AE2893 to hook up the New TopCon™ X30 display to your existing tractor harness (see Notes *)
- The AE2894 adapter will allow you to hook up your TruCount™ Air controlled clutches to the ASC10 controller
- Remove more clutter from your cab by using our AE2895 adapter cable to replace a Raven™ 440 or 450 controller or our AE2896 adapter cable to replace a TeeJet™ 844E or 854 controller.

TopCon™ X30
AGCO® C3000 or
DICKEY-john® AI-120

Description	Part Number	List Price
TopCon™ New VT to old display harness Adapter *	AE2893	185.00
TopCon™ ASC10 to TruCount™ Adapter	AE2894	205.00
TopCon™ ASC10 to Raven™ 4xx Adapter	AE2895	230.00
TopCon™ ASC10 to TeeJet® 844E/854 Adapter	AE2896	195.00

AE2893

AE2894

AE2895

AE2896

Note: Video Camera cables and PAL cameras are available upon request.

Notes:

- ➢ ** The AE2893 will also work with an AGCO® C3000 & DICKEY-john® AI-120 display*
- ➢ *If there isn't an adapter listed that you require, please contact Ag Express and we will customize one for you.*

John Deere® Rate Controller Harnessing

Overview:

Ag Express can supply the harnessing needed to connect the John Deere® Rate Controller to the tractor or machine. These cables can be made to custom lengths to fit your exact application and placement of the controller. We stock normal lengths of these cables for immediate delivery during times of high demand.
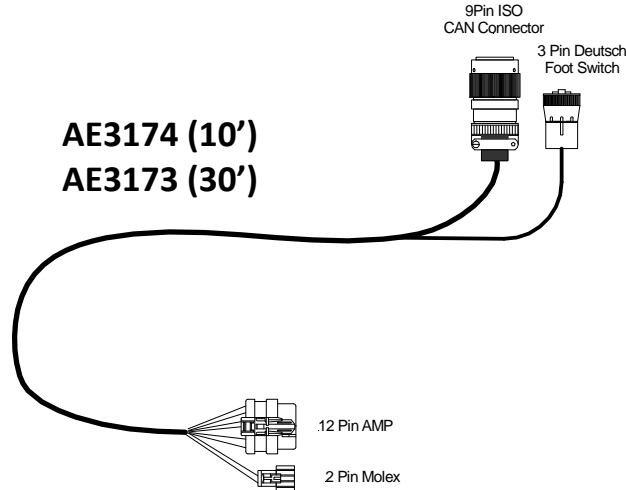
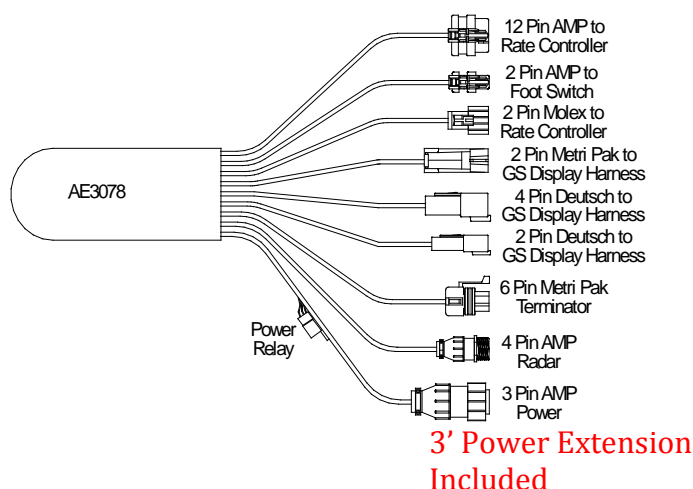| Description	Part Number	List Price
JDRC Front Extension Cable – 10' (Stock Length)	AE3174	295.00
JDRC Front Extension Cable – 30' (Stock Length)	AE3173	375.00
➔**Custom Lengths – Add $4.00 per foot above 10' – Use part number AE3174-XX where XX equals length in feet up to 90' long. Minimum price is $295.00 for all cables under 10'.**		
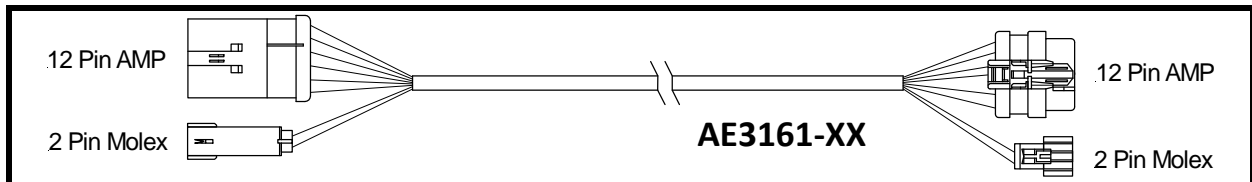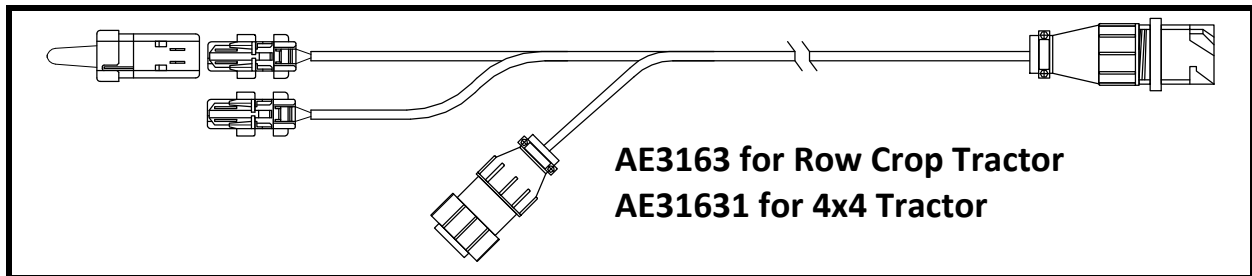
Description	Part Number	≤10' List Price
Center ISO Extension – 10'	AE3161-10	189.00
Foot Switch Power Harness Row Crop	AE3163	135.00
Foot Switch Power Harness 4x4	AE31631	165.00
JDRC 37 Pin Amp Extension Harness- 10'	AE3053	325.00
➔**Custom Lengths – Add $4.00 per foot above 10' – Use part number AE3161-XX where XX equals length in feet up to 90' long. Minimum price is $189.00 for all cables under 10'.**		

Rate Controller ISO Bypass Kit

Overview:

The ISO Bypass Cable is used in conjunction with a customer supplied GreenStar® 2/3 Display and Liquid or Dry Rate Controller. This enables you to install the rate controller harness (PF81113) directly to the customer's existing display harness (PF80802 or RE158190).

By using the Ag Express® ISO Bypass Kit(pictured), you can eliminate the following 3 harnesses:
#1 The ISO implement harness (RE174725) - #2 the ISO front extension harness (PF81130 or PF81131) - #3 the foot switch power cable (PF81073).

AE3078

12 Pin AMP to Rate Controller
2 Pin AMP to Foot Switch
2 Pin Molex to Rate Controller
2 Pin Metri Pak to GS Display Harness
4 Pin Deutsch to GS Display Harness
2 Pin Deutsch to GS Display Harness
6 Pin Metri Pak Terminator
Power Relay
4 Pin AMP Radar
3 Pin AMP Power

3' Power Extension Included

➢ *This custom 18" harness allows you to hook the rate controller harness **DIRECTLY** to the display harness or **9 pin AMP ISO connection in "R Series" tractor cabs.***
➢ *Eliminates 3 OEM harnesses to save space & expense.*

Description	Part Number	List Price
John Deere® Rate Controller ISO Bypass Kit	AE3078	450.00
The AE3078 ISO Bypass kit includes a 3' long adapter to plug in to the 9 pin AMP ISO connection inside the cab of "R Series" John Deere® tractors. It also comes with a 3ft. extension for the power connector so that this harness can be placed in a convenient location.		

Rate Controller Harness for Back Panel Installation

Overview:

The AE3065 harness allows the Rate Controller to be installed under the cab and provides an all-in-one cabling solution.
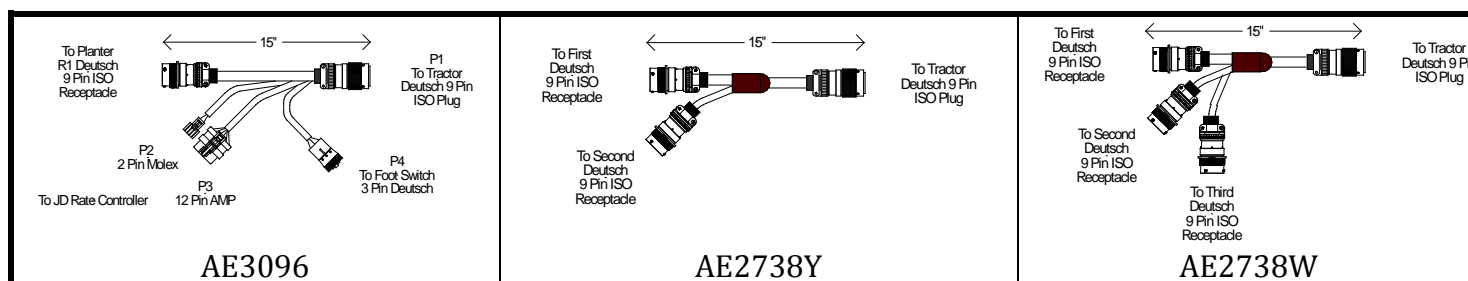
Description	Part Number	List Price
Rate Controller Back Panel Installation Harness	AE3065	395.00
10' CAN Splitter Extension for 4WD Tractor	AE3065SPLIT	85.00

AE3065

24" 12 Pin AMP to Rate Controller
24" 2 Pin AMP to Foot Switch
24" 2 Pin Molex to Rate Controller
CAN Splitter
30" 4 Pin Deutsch to GS Display Harness
Power Relay
66" 3 Pin AMP Power

- Allows for a clean & hidden installation of the Rate Controller and provides a connection for the foot switch.
- CAN Splitter connector Y's into the back side of the IBBC ISO Connector.
- Power connection supplies the Rate Controller and all connected components.

ISO Implement Connector ➔ Splitter Cables

Overview:

Need to run two or more ISO controllers into your ISO implement connector on the back of your tractor? Ag Express has the splitter cables you need.

Description	Part Number	List Price
ISO Y Cable for JD® Rate Controller	AE3096	345.00
ISO Y Cable	AE2738Y	500.00
ISO Double Y Cable	AE2738W	600.00

AE3096

AE2738Y

AE2738W

# ISO Implement Connector ➔ Extension Cables

Overview:

These ISO implement connector extension cables can be made to any length desired. They are made of high quality jacketed cable for a clean installation.

Description	Part Number	List Price
ISO Extension Cable – 10'	AE2738	315.00
ISO Extension Cable – 20'	AE2738-20	355.00
ISO Extension Cable – 30'	AE2738-30	395.00
Custom Lengths – Add $4.00 per foot above 10' – Use part number AE2738-XX where XX equals length in feet. Minimum price is $315.00 for all cables under 10'.		

Rate Controller Full Cab Harness to GreenStar®2/3

Overview:

The AE3099 harness is used in conjunction with a customer supplied GreenStar® 2 or 3 Display and John Deere® liquid or dry rate controller. This is a **Complete Cab Harness** which enables you to install either rate controller harness directly to your display without any additional harnessing. This cable is ideally suited for use in self-propelled sprayers or spreader trucks where no GreenStar® harnessing is present.
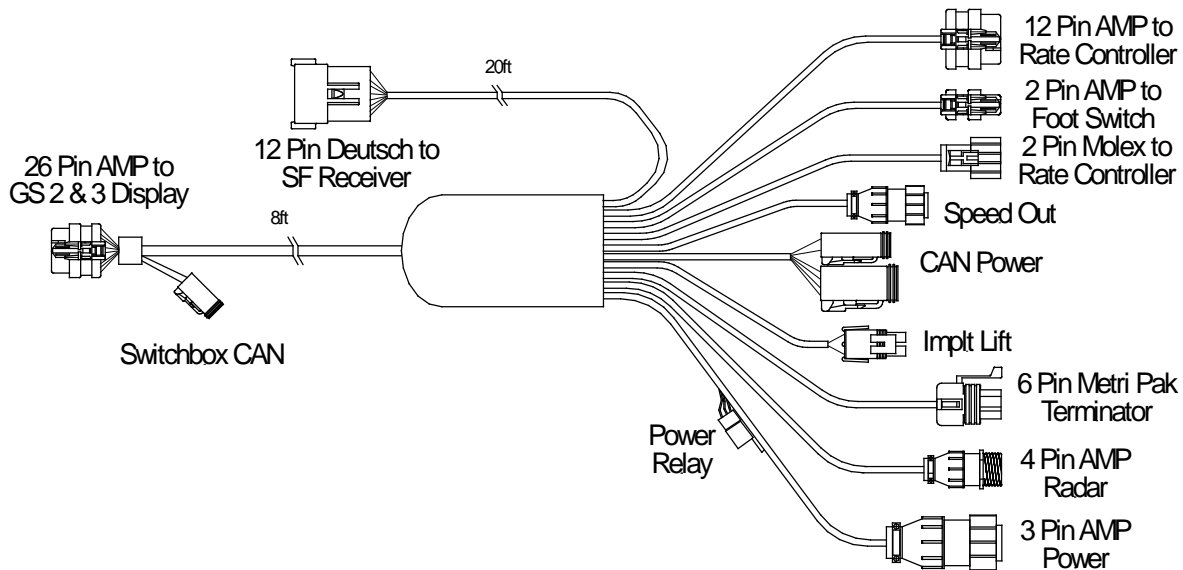
> *Use this custom harness to add your rate controller and display to any existing vehicle that does not have a display harness.*
> *Connection is available for easy ATU™ hookup with AE30991 cable.*

Description	Part Number	List Price
Rate Controller Full Cab Harness w/ Terminator	AE3099	765.00
ATU™ Adapter Cable 10'	AE30991	135.00

Installation Kits for Hagie™ STS Row Crop Sprayers

Overview:
When the simple and quick *(plug & play)* installation is complete, the Display will be able to provide Rate Control, Section Control and Mapping for applications with the Hagie™ sprayer. (Note)

➔ *Kit for customers WITH Existing Display Harness:*
This kit includes 3 wiring harnesses – An **ISO Bypass Cable**, a **Cab Control Interface Cable**, and a **Power Y Cable**.
- The **ISO Bypass Cable** was designed to interface the GreenStar® Universal Cab Harness to the GreenStar® Rate Controller Harness.
- The **Cab Control** harness interfaces the Rate Controller to the Sprayer's Flow Meter, Rate Control Valve and Boom Section valves.
- The **Power Y Cable** is designed to provide all power required to both the Cab harness and the Rate Controller via the power connection in the Hagie™ Arm Rest.

Description	Part Number	List Price
Kit for Hagie™ Model **STS.** (Year 2007 – 2009)	AE3068K	795.00
Kit for Hagie™ Model **STS.** (Year 2010 - 2013)	AE3069K	795.00

➔ *Kit for customers WITHOUT Existing Display Harness:*
This kit also includes the **Cab Control Interface Cable**, and the **Power Y Cable**, but if there is not an existing Display Harness, the **Rate Controller Full Cab Harness (page 25, AE3099)** integrates the Display Harness and ISO Harnessing into one cable.
- Cab Harness connects directly between the Display and the Rate Controller harness for easy setup.
- The Rate Controller Full Cab Harness eliminates the "nest" of excess cabling typical to conventional wiring of the system.

Description	Part Number	List Price
Kit for Hagie™ Model **STS** (Year 2007 – 2009) **w/ Display Harness**	AE3180K	1110.00
Kit for Hagie™ Model **STS** (Year 2010 - 2013) **w/ Display Harness**	AE3181K	1110.00

Note: Kit pricing does not include John Deere® Display or Rate Controller—these items should be purchased separately from an authorized dealer.

Rate Controller Adapters

Overview:

These adapter cables are used to adapt various brands of sprayers & NH3 systems to the John Deere® Rate Controller.

Change
these units to:

▶

With the following
adapter cables!!

(JDRC = John Deere® Rate Controller)

Description	Part Number	List Price
JDRC to DICKEY-john® CCS100 NH3 Implt Harness (14 Pin)	AE3080	140.00
JDRC to DICKEY-john® CCS100 Main or Truck Harness (16 Pin)	AE3084	140.00
JDRC to Raven™ 115-0159-405 Flow Cable Adapter	AE30801	140.00
JDRC to Raven™ New Style Flow Harness (16 Pin)	AE3170	140.00
JDRC to Raven™ 440/450 Console Harness (Reverse 16 Pin)	AE3171	140.00
JDRC to Raven™ 115-0171-195 Manure Harness (22 Pin)	AE3191	140.00
JDRC to TeeJet® 844 Classic (5 boom) Adapter Cable	AE3094	185.00
JDRC to TeeJet® 844E Adapter Cable (3 pin & 28 pin)	AE3098	185.00

AE3080	AE30801	AE3084
AE3191	AE3094	AE3098
AE3170		AE3171

Please Note: If you need any kind of Adapter, Y Cable or Extension, give us a call – Ag Express can Help You!

GreenStar® Rate Controller Harnesses

Overview:

These harnesses are designed to interface the John Deere® Rate Controller (JDRC) to Application Rate/Shutoff Control Components used on NH3 Applicators or Sprayers. These harnesses will have the correct connectors to fit the application without the use of adapter cables or other troublesome connector solutions. If you have a cabling issue that is not shown on this page, give Ag Express Electronics a call and we will discuss and design a cable that will fit and function properly for you!
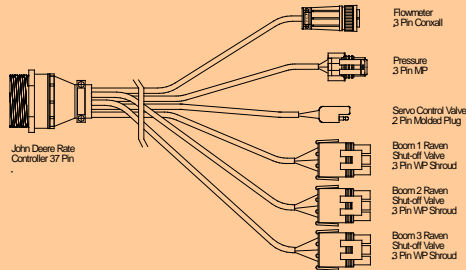
EXAMPLE: JDRC 3 Section Liquid

GreenStar®/Raven™ Liquid Components

Number of Sections	Part Number	List Price
1 – Section Liquid	AE30881	125.00
2 – Section Liquid	AE30882	165.00
3 – Section Liquid	AE30883	205.00
4 – Section Liquid	AE30884	245.00
5 – Section Liquid	AE30885	285.00
6 – Section Liquid	AE30886	325.00
7 – Section Liquid	AE30887	365.00
8 – Section Liquid	AE30888	405.00
9 – Section Liquid	AE30889	445.00
10 – Section Liquid	AE30890	485.00

Please Note: These rate controller harnesses show Raven™ components as an example. In addition, we can provide harnesses for DICKEY-john® and Hiniker™ for your GreenStar® systems. Give us a call for additional information or questions.
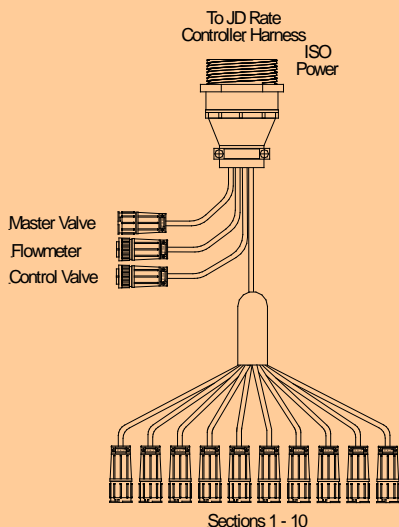
EXAMPLE: JDRC 10 Section NH3

GreenStar®/Raven™ NH3 Components
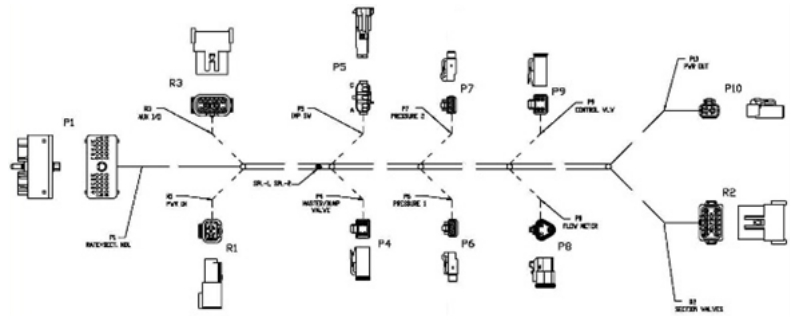
Number of Sections	Part Number	List Price
1 - Section NH3	AE3082	225.00
2 - Section NH3	AE30821	265.00
3 - Section NH3	AE30822	305.00
4 - Section NH3	AE30823	365.00
5 - Section NH3	AE30824	405.00
6 - Section NH3	AE30825	445.00
7 - Section NH3	AE30826	485.00
8 - Section NH3	AE30827	525.00
9 - Section NH3	AE30828	565.00
10 - Section NH3	AE30829	600.00

Please Note: These rate controller harnesses show Raven™ components as an example. In addition we can provide harnesses for DICKEY-john® and Hiniker™ for your GreenStar® systems. Give us a call for additional information or questions.

Trimble® Field-IQ™ (80540 Harness) Adapters

Overview:

These adapter cables are used to adapt the Trimble® Field-IQ™ module 80540 harness to various brands of sprayers & NH3 systems.


Adapt this unit: ▲

▼ To these units:

Description	Part Number	List Price
Field-IQ™ (80540 Harness) to DICKEY-john® CCS100 NH3 Imp Harness (14 Pin)	AE2931	140.00
Field-IQ™ (80540 Harness) to DICKEY-john® CCS100 Main Harness (16 Pin)	AE2932	140.00
Field-IQ™ (80540 Harness) to Raven™ 115-0159-405 Flow Cable Adapter	AE2933	140.00
Field-IQ™ (80540 Harness) to Raven™ New Style Flow Harness (16 Pin)	AE2934	140.00
Field-IQ™ (80540 Harness) to Raven™ 440/450 Console Harness (Reverse 16 Pin)	AE2935	140.00
Field-IQ™ (80540 Harness) to Raven™ 115-0171-195 Manure Harness (22 Pin)	AE2936	140.00
Field-IQ™ (80540 Harness) to TeeJet® 844 Classic (5 Boom) Adapter Cable	AE2937	185.00
Field-IQ™ (80540 Harness) to TeeJet® 844E Adapter Cable (3 Pin & 28 Pin)	AE2938	185.00

Please Note: If you need any kind of Adapter, Y Cable or Extension, give us a call – Ag Express® can Help You!

Trimble® Field-IQ™ (80540 Harness) Adapters Continued...
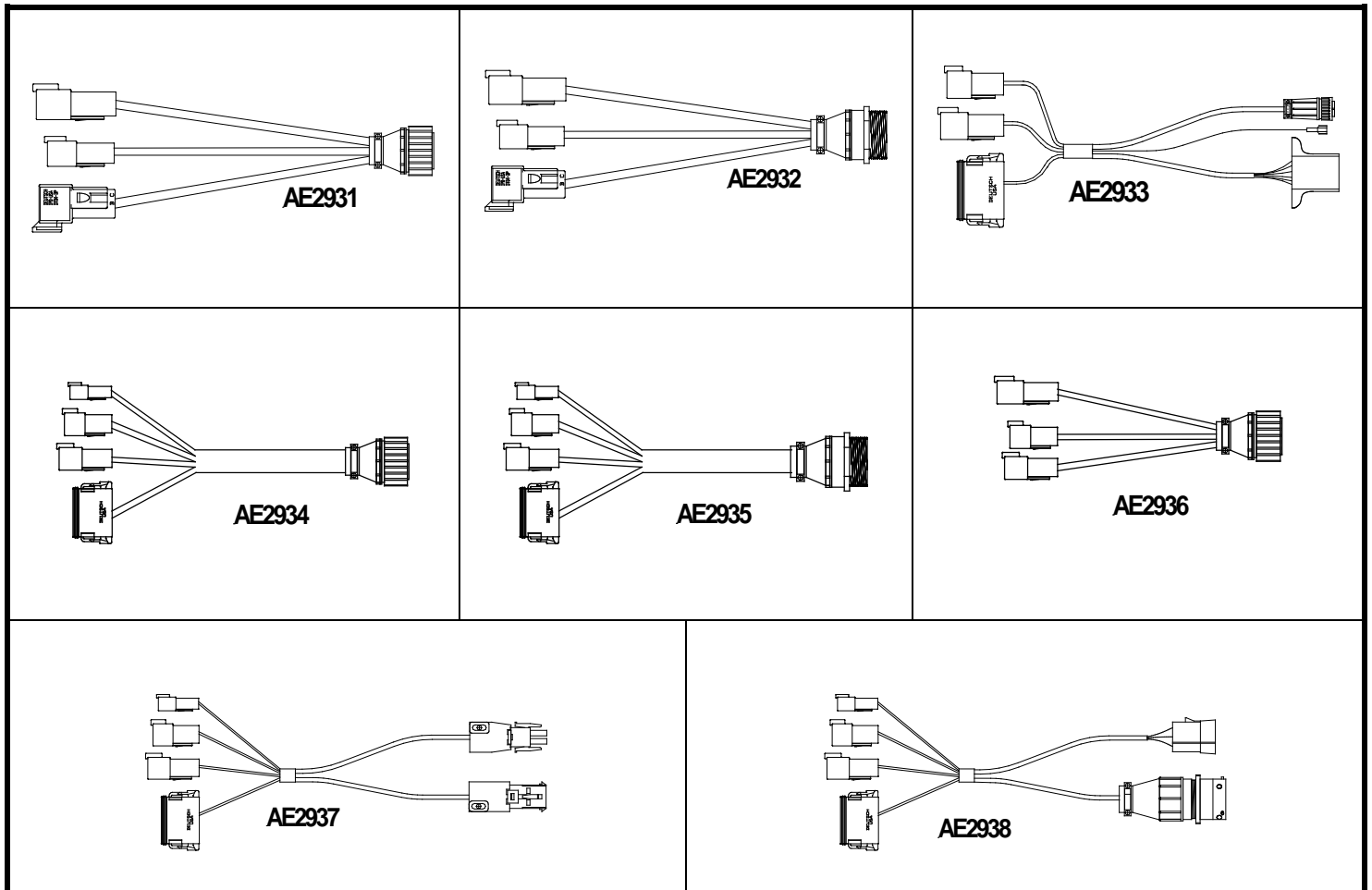
AE2931	AE2932	AE2933
AE2934	AE2935	AE2936
AE2937		AE2938

<u>Please Note:</u> If you need any kind of Adapter, Y Cable or Extension, give us a call – Ag Express® can Help You!

Trimble® Field-IQ™ Adapters

Overview:

These adapter cables are used to adapt various brands of sprayers & NH3 systems to the Trimble® Field-IQ™ module.

Change
these units to:

▶

With the following
adapter cables!!

Description	Part Number	List Price
Field-IQ™ to DICKEY-john® CCS100 NH3 Implt Harness (14 Pin)	AE2920	155.00
Field-IQ™ to DICKEY-john® CCS100 Main or Truck Harness (16 Pin)	AE2921	155.00
Field-IQ™ to Raven™ 115-0159-405 Flow Cable Adapter	AE2922	155.00
Field-IQ™ to Raven™ New Style Flow Harness (16 Pin)	AE2923	155.00
Field-IQ™ to Raven™ 440/450 Console Harness (Reverse 16 Pin)	AE2924	155.00
Field-IQ™ to Raven™ 115-0171-195 Manure Harness (22 Pin)	AE2925	200.00
Field-IQ™ to TeeJet® 844 Classic (5 boom) Adapter Cable	AE2926	200.00
Field-IQ™ to TeeJet® 844E Adapter Cable (3 pin & 28 pin)	AE2927	200.00

AE2920	AE2921	AE2922
AE2923	AE2924	AE2925

AE2926	AE2927

Please Note: ***If you need any kind of Adapter, Y Cable or Extension, give us a call – Ag Express can Help You!***

Trimble Field-IQ™ Component Adapters

Overview:
These adapter cables are used to adapt the Trimble Field-IQ™ module (80540 Harness) to various Raven™ NH3 components.

Adapt
this unit to:

▶

With the following
adapter cables!!
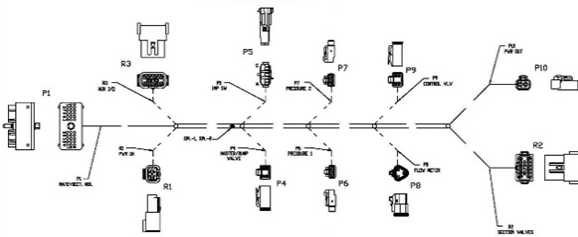
Description	Part Number	List Price
Field-IQ™ (80540 Harness) to Raven™ Master Valve	AE27264	71.00
Field-IQ™ (80540 Harness) to Raven™ Flowmeter	AE27265	55.00
Field-IQ™ (80540 Harness) to Raven™ Fast Valve (Old Style)	AE27266	71.00
Field-IQ™ (80540 Harness) to Raven™ Control Valve (New Style)	AE27267	71.00
Field-IQ™ (80540 Harness) to Raven™ PSI Sensor	AE27268	55.00

AE27264
To Field IQ
Master Connector — To Raven Master Valve

AE27265
To Field IQ Flowmeter Connection — To Raven Flowmeter

AE27266
To Field IQ Servo Connection — To Raven "Old Style" Fast Valve

AE27267
To Field IQ Servo Connection — To Raven Servo Valve

AE27268
To Field IQ PSI Connection — To Raven PSI Sensor

Please Note: If you need any kind of Adapter, Y Cable or Extension, give us a call – Ag Express® can Help You!

Miscellaneous Pressure Sensor & Flow Controller Extensions/Adapters

➔ Various Liquid Pressure Sensor Extensions

3 Pin
MetriPak Shroud
Pressure Sensor

3 Pin
MetriPak Tower
Pressure Sensor
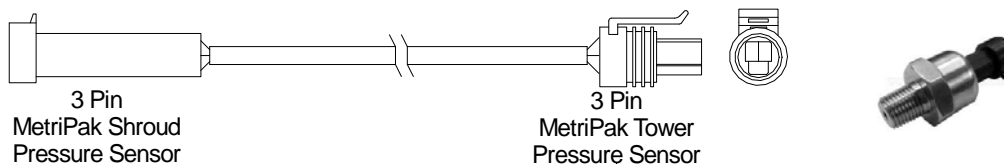
Description	Part Number	≤10' List Price
Pressure Sensor Extension cable	AE2737-xx	30.00*
	xx = length in feet	*Add 1.75/ft over 10'

## ➔ Raven™ Flow, Speed & NH3 Valve Extensions

3 or 4 Pin Conxall
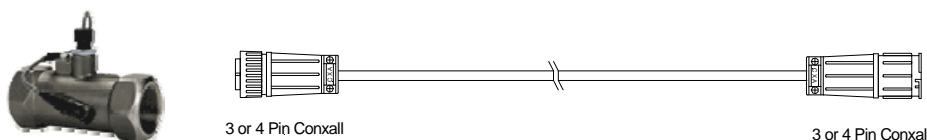
3 or 4 Pin Conxall

Description	Part Number	≤10' List Price
Flowmeter Extension Cable (3 pin Conxall)	AE2730-xx	50.00*
Speed Extension Cable (3 pin Conxall)	AE2732-xx	50.00*
Servo Valve Extension Cable (4 pin Conxall)	AE2728-xx	50.00*
Shutoff Valve Extension Cable (4 pin Conxall)	AE2727-xx	50.00*
	xx = length in feet	*Add 1.75/ft over 10'

➔ Raven™ NH3 Valve Adapters

Male Spade Terminals

4 Pin Conxall
to New Style
On/Off Valve

Description	Part Number	List Price
Old NH3 Servo to New Harness (115-0171-836) Adapter	AE2726	71.00
Old Harness (115-0159-859) to New NH3 Servo Valve Adapter	AE27261	61.00
Old On/Off Valve to New Harness (115-0171-836) Adapter	AE27262	65.00
Old Harness (115-0159-859) to New On/Off Valve Adapter (Pictured)	AE27263	61.00
Raven™ to DICKEY-john® Harness Adapter	AE2662	45.00

➔ Raven™ Flowmeter to DICKEY-john® Control Adapter

3 Conxall

3 WP Tower
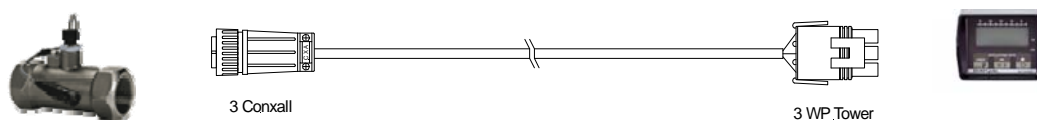
Description	Part Number	List Price
Raven™ Flowmeter (4.5 to 16V only) to DICKEY-john® Controller adapter	AE2733	45.00
Raven™ Flowmeter to DICKEY-john® Controller adapter with 5 Volt regulator	AE2733-5V	65.00

➔ Shutoff Valves *for* *Spray Applications*

Overview:
Get individual section control via on/off manifold valves. These valves can be used for brand new setups, or as a reliable replacement for solenoid type shutoffs. In addition - with response times of 1 second, they are ideal for use with automatic section control applications!

Features:

- End fed manifolds for easy plumbing
- Hairpin design for ease of output change
- Choose hose barb size to fit your needs
- Valves use std. 3 pin weather pack connector
- Valves require 12vdc & ground and they only draw power when closing or opening

Description	Part Number	List Price
5 Stack Manifold Assembly with ¾" & 90° hose barbs	AE3931-C5EL	1375.00
3 Stack Manifold Assembly with ¾" & 90° hose barbs	AE3931-C3EL	750.00
1 Single Manifold Assembly with ¾" & 90° hose barbs	AE3931-C1EL	343.00
Other stack manifold combinations are available, call for pricing.	CALL	CALL

Additional information:

Available hose barb sizes are ½" – ¾" – 1" just specify what size you need for your application.
In addition, hose barbs are available in either 90° or straight versions, just specify your preference.

➔Regulating Valves for *Spray Applications*

Overview:
Ag Express also offers regulating valves for sprayer applications from several different manufacturers such as: **KZCO®, RAVEN™, TeeJet®, MICRO-TRAK®, DICKEY-john®,** and many others.
Shown below are just a few examples, so if you don't see what you need, please give your nearest Ag Express location a call!

Standard Raven™ butterfly valves operate with original Raven™ controls and also with ISO rate controllers.
1" Part# RV0630172125 $256.00
1 ½" Part # RV0630171896 $286.00

1" (3 way) diverter fast valve allows for smooth regulation while returning bypass directly to the tank.
Part # KZF3F2310D20-P01 $385.00

This valve actuator works with DICKEY-john® CCS 100 controller and replaces the original 1" actuator or large butterfly actuator.
Part # DJ467095060 $515.00

➔Regulating & Shutoff Valves *for NH3*

Overview:

These valves can be used for new setups or as replacements. They come complete with the power head assembly and stainless steel ball valve. Available in a variety of sizes, the regulating valves range from ¾" to 1½" and shutoff valves come in sizes from ¼" to 1½". This allows for the proper sizing of the valve to match the NH3 application.
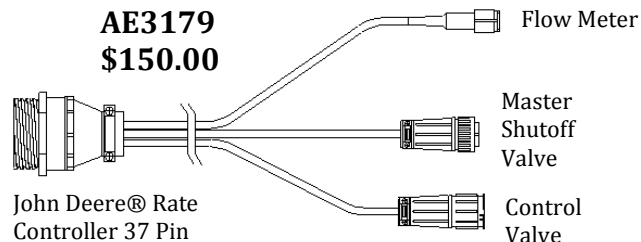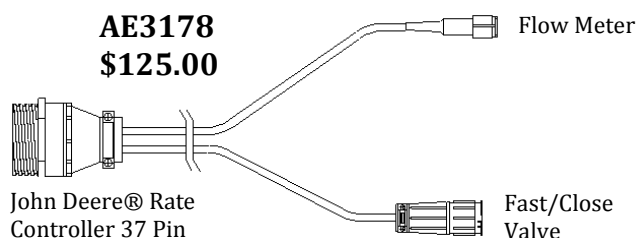
Features:

- All stainless steel valve construction & hardware
- Quick **1.5** second on/off for shutoff valves
- Available in a wide variety of sizes for NH3
- NH3 ball is vented for safety

Shutoff Valves	Part Number	List Price
¼ " On/Off Valve (shutoff of vapor lines)	AE3933M-B67	450.00
1" On/Off Valve (individual section shutoff)	AE3923Y-F67	563.00
1 ¼ " On/Off Valve (total applicator shutoff)	AE3923Y-G67	612.00
1 ½" On/Off Valve (total applicator shutoff)	AE3923Y-H67	671.00
Fast Response Regulating Valves		
¾" Ball Valve with Power Head	AE3924Y-E67	570.00
1" Ball Valve with Power Head	AE3924Y-F67	580.00
1 ¼" Ball Valve with Power Head	AE3924Y-G67	629.00
1 ½" Ball Valve with Power Head	AE3924Y-H67	689.00
Standard Response Regulating Valves		
¾" Ball Valve with Power Head	AE3924U-E67	588.00
1" Ball Valve with Power Head	AE3924U-F67	598.00
1 ¼" Ball Valve with Power Head	AE3924U-G67	646.00
1 ½" Ball Valve with Power Head	AE3924U-H67	695.00

➔ Convert Hiniker™ Anhydrous Controllers to the GreenStar® Rate Controller

Overview:

For your customers who want to convert their Hiniker™ anhydrous systems to a John Deere GreenStar® Rate Controller - Ag Express has a solution for you. By replacing the servo valve with a suitable replacement from Ag Express and using one of the harnesses pictured below, you have a simple answer to using the GreenStar® rate controller. Please call for assistance.

AE3178
$125.00

Flow Meter

John Deere® Rate Controller 37 Pin

Fast/Close Valve

AE3179
$150.00

Flow Meter

Master Shutoff Valve

John Deere® Rate Controller 37 Pin

Control Valve

Custom Harnesses for the GreenStar® Rate Controller Dry

Overview:

Ag Express would welcome the chance to work with you on your specific applications for the GreenStar® *Rate Controller Dry.* We possess a broad base of knowledge in working and interfacing with Control Systems companies such as DICKEY-john®, New Leader®, Raven™ and TeeJet®. In addition, we have experience building Rate Controller Dry harnessing for spreaders manufactured by BBI™- Chandler™ – New Leader® - Montag™ – Newton Crouch® and many others.
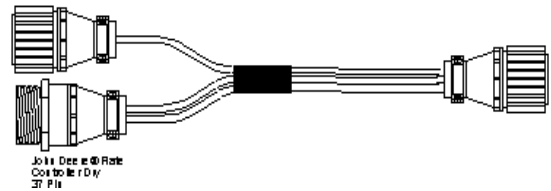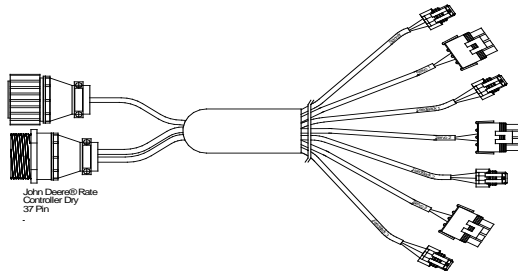
AE3190

Description	Part Number	List Price
# JDRC Dry, Single Bin	AE31881	185.00 #
# JDRC Dry, Dual Bin	AE31882	230.00 #
# JDRC Dry, Single Bin – Montag™ 10'	AE3189	185.00 #
# JDRC Dry, Raven™ 660, 22 PIN 3'	AE3190	185.00 #
^ JDRC Dry, 3 Bin	AE31883	275.00 ^
^ JDRC Dry, 4 Bin	AE31884	320.00 ^
* JDRC Dry, Dual Bin, TR1000	AE31882-TR	245.00 *

Key for table above:

Cabling prices are standard up to 10', longer lengths are $1.00/ft.

^ Cabling prices are standard up to 10', longer lengths are $2.50/ft.

* Specific harness for the New leader® L3030/L3220 John Deere® post spreader mounted on to the TR1000 Trailer. *

Helpful Information When Ordering:

- Make & Model of Spreader
- Make & Model of existing controller (if applicable)
- Part numbers of any existing harnessing
- Brand & Type of Hydraulic Valve(s)

- Brand & Type of conveyor feedback sensor
- Any Bin Level & Fan RPM sensors, etc.
- Pictures of connectors (if available)
- Cable lengths required to reach components
- Number of Product Bins

Note: All Ag Express locations can design and build the harnessing for your specific application.
Custom Adapter cables to existing granular control systems can also be built.

ISO Granular Spreader Control
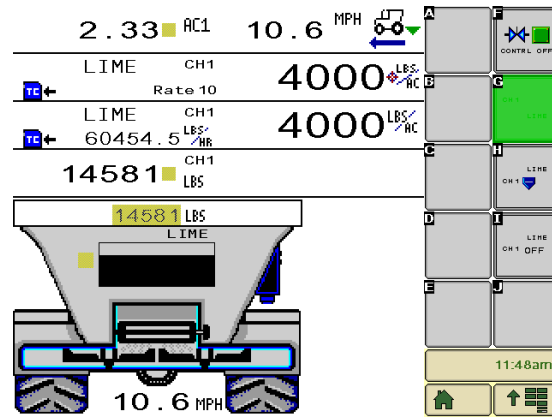
Accurate precision control for Fertilizer, Lime or Litter

Overview:

This controller can be used with ISO compatible virtual terminals. It can utilize most existing hydraulic valves and chain sensors when retrofitting your current systems, or we can supply a complete system when starting with a new spreader. For pull type spreaders simply attach the controller to the Tractor ISO Implement Connector - or for self propelled spreaders attach the system directly to a cab harness. **Dual product control is also available.**

Features:

▪ **Variable Rate Spreading (Rx)** ▪ **Rate and Coverage Mapping** ▪ **Store up to 16 Material Calibrations** ▪ **Program up to 10 Manual Rates** ▪ **Total Applied**	▪ **Displays Rate Control** ▪ **User selected Screen Configuration** ▪ **Ground Speed** ▪ **Spreader Conveyor RPM** ▪ **Optional - (hopper level & spinner control)**

(This harness is for a pull type spreader)
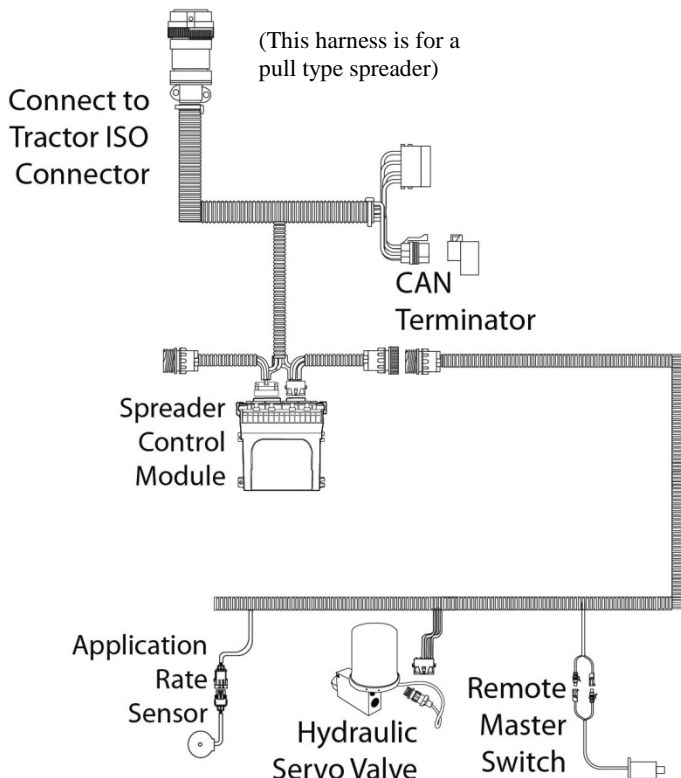
Kit Description	Base List Price
Kit for existing PWM Valve	1750.00
Kit for existing Servo Valve	2100.00
Includes: module, terminator, **amplifier***, and all harnessing (price may change if additional components are needed)	

* required for a servo valve only

39

Strip Till Granular Application

Overview:

Would you like to utilize your ISO compatible virtual terminal for strip tilling granular fertilizer?   Ag Express has a solution that not only controls the application rate but also monitors the flow in each run. We can interface with most existing hydraulic valves and rate sensors. If you do not have a hydraulic valve/motor or rate sensor, we can provide these as well.

This simple system hooks to the tractor ISO – it communicates with a module that controls your pounds per acre, while simultaneously monitoring the flow of fertilizer to each row. You can control your rate either by prescription or by a preset rate from the display. The flow blockage sensors are designed to work with granular fertilizer, and they have a stainless steel insert to protect the electronic sensor. The sensor is typically mounted after the air release so that any blockage is detected quickly. This prevents the whole run from filling with fertilizer and preventing downtime cleaning out the run.

Features:

- Application rate readout
- 10 preset rate choices
- Ground speed readout
- Acre counters
- User selected screen configuration
- Fertilizer flow monitoring
- Row failure alarm
- Dual box control available

Description	List Price
12 Row Strip Till System	3950.00*
16 Row Strip Till System	4350.00*
24 Row Strip Till System	5900.00*
Includes: Control module, flow sensors, application rate sensor, amplifier, terminator, and all required harnessing. (DOES NOT – include Hydraulic Valve. Valves available at extra cost).	

* These prices are approximate. Call for more information.

Air Seeder, Fertilizer & NH3 Application

Overview:

Would you like to utilize your ISO Virtual Terminal to control your air seeder, granular fertilizer & NH3 system?   Ag Express has a solution that not only controls up to four different product applications but also monitors the flow in each run. We can interface with most existing hydraulic valves, rate sensors and NH3 systems. If you do not have a hydraulic valve/motor, rate sensor or NH3 controller, we can provide these as well.

This simple system hooks to the tractor ISO – it communicates with a module that controls your pounds per acre, while simultaneously monitoring the flow of fertilizer to each row. You can control your rate either by prescription or by a preset rate from the display. The flow blockage sensors are designed to work with granular fertilizer, and they have a stainless steel insert to protect the electronic sensor. The sensor is typically mounted after the air release so that any blockage is detected quickly. This prevents the whole run from filling with fertilizer and preventing downtime cleaning out the run.

Features:

- Application rate readout
- 10 preset rate choices
- Ground speed readout
- Acre counters
- User selected screen configuration
- Fertilizer flow monitoring
- Row failure alarm
- Hopper, Air Pressure & RPM Inputs

Description	List Price
32 Row Air Seeder Monitoring System	6750.00*
48 Row Air Seeder Monitoring System	8900.00*
Easily converts the John Deere® SM500 System to an ISO Setup	2500.00*
Includes: Control module, flow sensors, terminator, and all required harnessing. **(DOES NOT – include Hydraulic Valve. Valves available at extra cost)**	

* These prices are approximate. Call for more information.

**DICKEY-john®
Vigilense® Stainless Steel
Insert Fertilizer Sensor**

Convert an Older Planter Monitor System to Work on an ISO Virtual Terminal Display!

Overview:

If you have a planter that uses a John Deere®, CNH®, Kinze® KM series, AGCO®, or DICKEY-john® planter monitor, you can retro fit these planters to your ISO VT Display. Utilize your existing planter harness & seed sensors, with *no modification* to your planter. Once you have completed the simple installation of our kit, just attach the connector to your tractor's **ISO** Connector. Your display will be instantaneously transformed into a high end planter monitor with *Mapping Capabilities* (average planter populations can be mapped with the addition of a feedback sensor). Variable rate capability can be added even if the planter has never been equipped with these components. It is also capable of running current Orthman® ADJUST-A-RATE™ II proportional valves.

Features:

- Automatic row scanning for seed population or seed spacing
- Population average/Spacing average
- Min/Max Population spacing
- Ground Speed
- Total area/Field area/Area per hour
- Planter row bar graphs
- Hi/Lo Population alarms
- User configurable screen layout

Kit Description	List Price
Up to 16 rows	1700.00
17-34 rows	2300.00
35-52 rows	2900.00

Add Variable Rate Capability:

Hydraulic valve/motor kit	See page 43
This Kit Includes: HD4180 motor /PWM hydraulic valve, planter mounting hardware, application rate sensor and harnessing.	

👓 Look!

Connect to Tractor ISO

CAN
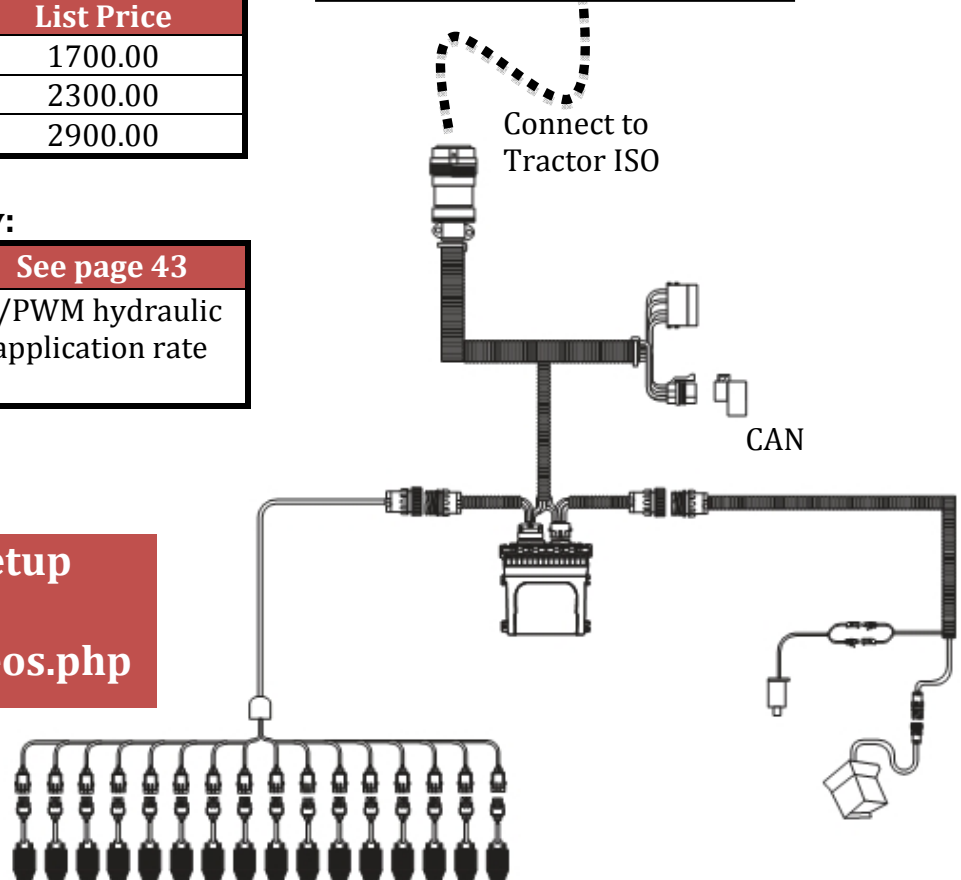
Planter and Drill Seed Sensor Wiring Harnesses

Overview:

Are you upgrading an older planter with a new ISO monitoring system or utilizing a Planter/Drill Control kit from Ag Express to get rid of an outdated monitor? Are you setting up a new planter for delivery, but the factory harness and sensors will not work with your customer's existing system? Call us and we will build you a wiring harness designed to work with your exact set-up. It doesn't matter if you're working with a 4 row planter that has been around for 30 years or a brand new 48 row planter.

Ag Express can "Hook You Up"!

Trimble® Field-IQ™•Ag Leader® Integra™•Kinze® •John Deere® SeedStar™ Precision 20/20™•Agco® Systems • DICKEY-john® IntelliAg® • and Many Others!

Planter Manufacturers	Fold Type	# of Rows	List Price
Agco White® **Black Machine®** **Case®** **Great Plains®** **John Deere®** **Kinze®** **Monosem®** **Orthman®** **New Holland®** ...and Many More	Rigid	4	145.00
		10	315.00
		13	485.00
	3pt Mounted	6 w/ Interplant (11 Rows)	180.00 480.00 – 560.00
	Lift and Rotate	8 w/Interplant (15 Rows)	220.00 605.00 - 830.00
	Vertical	12 w/ Interplant (23 Rows)	460.00 1250.00 - 1340.00
	Wing	16 w/ Interplant (31 Rows)	560.00 1590.00 - 1625.00
	Front Rear Twin-Line Twin-Row Econo	8	305.00
		12	565.00
		16	680.00
		24	1250.00
		32	1590.00
		36	1750.00
		48	2200.00
	Stack	8	390.00
		10	490.00
		12	520.00
		15	605.00
		16	680.00
		24	1250.00

Note: When ordering, please specify make and model of planter; fold type, monitor system and wiring configuration (ex. JD® CT or DJ), number of rows and spacing, sensor connections and where the controller will be mounted.

We stock Seed Sensors!

Planter and Drill Harness Adapters

Overview:
Is the harness on the planter you are setting up still in good shape? Using one of the adapters below will add significant cost savings when compared to replacing an entire harness. Ag Express offers several adapters to interface existing harnessing to a new monitor system. This allows quick and easy installation for you and a reduced cost for your customer. If you don't see what you need or if you have any questions, please give us a call!

Description	Connectors Used		Part Number xx = # Of Rows	List Price
	TO MONITOR	TO HARNESS		
DICKEY-john® Monitor to John Deere® CT Harness	A	B	AE2540D-J xxR	95.00
John Deere® Monitor to DICKEY-john® Harness	A	B	AE2540J-D xxR	95.00
37 pin AMP to 10pin Beau Harness up to 8 Rows	A	G	AE2510	55.00
37pin AMP to 12pin Beau Harness up to 8 Rows	A	E	AE2524	55.00
37 pin AMP to 35 pin Deutsch Case Early Riser® Harness up to 24 Rows	A	C	AE2827	160.00
37 pin AMP 'Y' to (2) 10 pin Beau Harness (12R)	A	G and G	AE4102	110.00
37 pin AMP 'Y' to (2) 10 pin Beau Harness (16R)	A	G and G	AE4104	110.00
37 pin AMP 'Y' to (2) 12 pin Beau Harness (12R)	A	E and E	AE3111	110.00
37 pin AMP 'Y' to (2) 12 pin Beau Harness (16R)	A	E and E	AE3113	110.00
37 pin AMP 'Y' to (2) 37 pin AMP Harness 12 Rows	A	B and B	AE4108	135.00
37 pin AMP 'Y' to (2) 37 pin AMP Harness 16 Rows	A	B and B	AE4110	165.00
37 pin AMP 'Y' to (2) 37 pin AMP Harness 24 Rows	A	B and B	AE4112	190.00
37 pin AMP 'Y' to (2) 37 pin AMP Harness 32 Rows	A	B and B	AE4114	225.00
37 pin AMP "Reverse Y" for Ag Leader® and Field-IQ™Modules to 32 Row Harness	B and B	A	AE4115	225.00
Custom Adapter or 'Y'	Specify	Specify	CALL	CALL

A
(Specify JD® CT or DJ PM)

B
(Specify JD®CT or DJ PM)

C

D

E

F

G

H

Planter Section Clutch Harnesses and Adapters

Overview:

These harnesses are designed to interface *Implement Section Controllers* from different manufacturers with your customer's third-party planter clutches for automatic swath control. ***These cables can be designed to retrofit any planter with air or electric clutches****.*   If you do not see the harness that you need here, give us a call and Ag Express will design a custom harness for your application.

These complete harnesses would be compatible with controllers manufactured by:
John Deere® • Trimble® • Raven™ • Outback® • Ag Leader® • Rinex® • Others
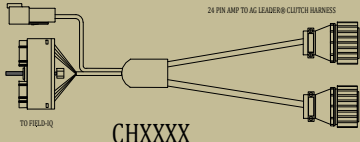
Planter Manufacturers	Fold Type	# of Rows	List Price
Agco White® **Black Machine®** **Case®** **Great Plains®** **John Deere®** **Kinze®** **Monosem®** **Orthman®** **New Holland®** …And More	Rigid	4	145.00
		10	315.00
	3pt Mounted	13	485.00
		6 w/ Interplant (11 Rows)	180.00 480.00
	Lift and Rotate	8 w/Interplant (15 Rows)	220.00 830.00
	Vertical	12 w/ Interplant (23 Rows)	460.00 1340.00
	Wing	16 w/ Interplant (31 Rows)	560.00 1625.00
	Front Rear Twin-Line Twin-Row Econo	8	305.00
		12	565.00
		16	680.00
		24	1250.00
		32	1590.00
		36	1750.00
	Stack	8	390.00
		10	490.00
		12	520.00
		15	605.00
		16	680.00
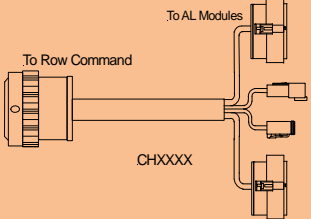
Note: When ordering, please specify Controller Make and Model, Type and Manufacturer of Row Clutches, Number of Sections, Make and Model of Planter, Fold Type, and where the Controller will be mounted.
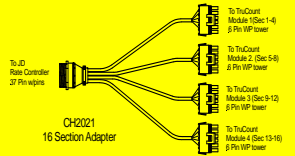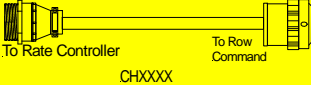
➔ *Does your customer already have Clutches and Control Harnesses installed?*

Make an existing system compatible with an Implement Section Controller by utilizing one of these adapters. **If you don't see what you need here, give Ag Express a call and we will design a custom solution for you** (please see note below before ordering).

Trimble® and Case New Holland®			
Description	**Part Number**	**List Price**	
Field-IQ™ to Ag Leader® Clutch Harness 12 Rows	CH2050	270.00	
Field-IQ™ to Ag Leader® Clutch Harness 16 Rows	CH2051	320.00	
Field-IQ™ to Ag Leader® Clutch Harness 24 Rows	CH2052	375.00	
Field-IQ™ to John Deere® RowCommand™ Harness 35 pin Deutsch	CALL	225.00-360.00	
Field-IQ™ to John Deere® RowCommand™ Harness 47 pin Deutsch	CALL	225.00-360.00	
EZ-Boom® Adapter to Existing Harness	CALL	CALL	

Ag Leader®			
Description	**Part Number**	**List Price**	
Ag Leader® Module Adapter to John Deere® RowCommand™ 12/23	CH2075	225.00	
Ag Leader® Module Adapter to John Deere® RowCommand™ 12/24	CH2076	225.00	
Ag Leader® Module Adapter to John Deere® RowCommand™ 16/31	CH2078	360.00	

John Deere®			
Description (JDRC = John Deere® Rate Controller)	**Part Number**	**List Price**	
JDRC to TruCount™ Air Module 8 Section	CH2020	135.00	
JDRC to TruCount™ Air Module 16 Section	CH2021	165.00	
JDRC to Ag Leader® Clutch Harness 12 Rows	CH2001	250.00	
JDRC to Ag Leader® Clutch Harness 16 Rows	CH2002	295.00	
JDRC to Ag Leader® Clutch Harness 24 Rows	CH2003	350.00	
JDRC to AA56670 Cable for 3 Drive Disconnect	AE3184	140.00	
JDRC to AA58927 Cable 'Y' for 2 Drive Disconnect	AE3185	195.00	

Note: When ordering these adapters, please specify Controller Make and Model, Type and Manufacturer of Row Clutches, Number of Sections, and where the Controller will be mounted.

Hydraulic PWM Valve/Motor Assembly for Planters or Seeders

Overview:

Do you need to add Hydraulic Control to your planter for Variable Rate Planting or Seeding? With the addition of an HD4180 HydraDrive, you can control your planter seeding rate with any controller that uses PWM Control.

- 0-4 gpm hydraulic flow, delivers 4 – 180 rpm at 1,400 inch pounds of torque.
- 1" motor shaft
- Uses PWM valve for universal fit
- **Available Mounting bracket kit for easy mounting on 7x7 bar
- Very dependable operation and high quality motor
- Manual override capability

- Already own Hydraulic Motors or need to control a hydraulic Pump? Use one of these Proportional valves to control oil flow for excellent rate control.

- Proportional Valve Assemblies
- 4 gpm rating
- 8 gpm rating

Description	Part Number	Price
HD4180 HydraDrive	DJ46709-2200S1	1706.25
HydraDrive Bracket & Hardware Kit**	DJ46709-2219S1	393.75
4 gpm PWM Valve	DJ46709-2004S1	440.18
8 gpm PWM Valve	DJ46709-2008S1	486.68
360 pulse Application Rate Sensor 1' cable	DJ46436-0178S1	224.70

**Bracket Kit is designed for easy installation of the HD4180 HydraValve. It consists of a Mounting Bracket, 1 – 7x7 U Bolt, 18 tooth #40 Drive Sprocket, idler sprocket, coupler for Application Rate Sensor (encoder) and misc. hardware.

Note: Other size, dual and servo hydraulic valves available...Please call for more information.
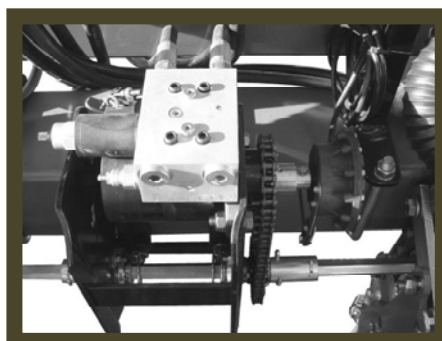
Inexpensive Receiver Kits for Yield Mapping
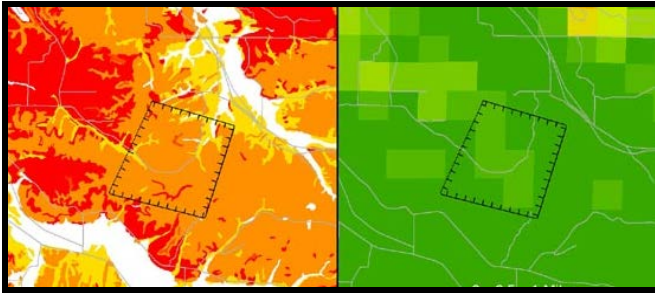
➔ *These Receiver Kits will allow you to do Mapping with your Yield Monitor*

Overview:
If you have a Yield Monitor in your combine, but no Receiver – you can add a low priced Receiver Kit to add mapping capabilities to almost any Brand or Model of Combine Yield Monitor.

- The kit comes with a 16 Channel Receiver that provides the same maps that receivers costing several thousand dollars provide.

- Each receiver kit is programmed to the specific yield monitor and combine.

- The kit includes:
    → Programmed 16 Channel High Accuracy Receiver with mounting plate.
    → Any required harness adapters or interface cable.

Here are some Examples: We have a kit for most brands and models of Yield Monitors & Combines.

Description	Part Number	List Price
JD® Combine w/Original Display & Mobile Processor(connector not pictured)	AE5640-K3	425.00
JD® 10 Series Combine (Silver or Gold Processor) (connector not pictured)	AE5640-K4	400.00
JD® Combine w/GS2 or GS3 (connector not pictured)	AE5640-K14	450.00*
GS2 or GS3 Add on Serial Cable	AE3168	50.00
Ag Leader® PF 3000 Pro™ & PF Advantage™	AE5640-K2	350.00
Ag Leader® 2000, 3000 & Insight™, Edge™ & Integra™	AE5640-K9	350.00
Case® 21/2300 Series Combine (connector not pictured)	AE5640-K8	400.00
Case® 2500 Series, 2577 & 2588 Combine (connector not pictured)	AE5640-K11	400.00
Case® 7010, 8010, 7120, 8120 & 9120 Combine	AE5640-K10	400.00
Case® 50-60-7088 & 51-61-71-81-72-82-9230 Combine	AE5640-K16	400.00
Case®PRO600/700 RS232 Serial Port	AE5640-K17	400.00
NH® CR9040, 9050 & 9060 Combine	AE5640-K15	400.00
CLAAS-LEXION® Combine	AE5640-K12	400.00
CLASS-LEXION® 470 Combine (connector not pictured)	AE5640-K20	400.00
AGCO® FieldStar® Legacy Connection	AE5640-K19	400.00
AGCO® FieldStar® II Connection (9 Pin AMP)	AE5640-K18	400.00

* Price Includes AE3168 Cable

AE5640-K18	**AE5640-K19**	**AE5640-K10 AE5640-K15 AE5640-K16**	**AE5640-K9**	**AE5640-K2**	**AE5640-K17 & AE5640-K12**

Accessories and Specialized Products

Hydraulic Switch	This ***Hydraulic Switch*** can be used as a replacement for a variety of implement status switches. It has a female ¼" NPT hydraulic hookup and a 2 pin Weather Pack shroud electrical connection. The switch can be adjusted to activate at different pressures if desired. It can also be wired to operate in a normally closed or normally open configuration. **AE6615 - $120.00**
Whisker Lift Switch Kit	Our universal ***Whisker Lift Switch Kit*** offers a reliable implement lift indicator that is very easy to mount and adjust. The whisker switch can be wired either normally open or normally closed. It mounts with a strong 3" magnet and has a 2 pin Weather Pack shroud connector. **AE6613K - $85.00**
Clutch Indicator Light	The ***Clutch Status Indicator Light*** provides a simple, low cost solution for knowing when planter row clutches are activated. It aids in the setup of section control times. The light features highly visible LEDs and plugs in – line with the row clutch. (Please specify row clutch brand when ordering) **AE6619 - $95.00**
TBC Terminator	This ***Terminator*** is used by John Deere®, DICKEY-john®, and in all ISO applications. It is made for use with standard 2.5V CAN systems. **AE2327 - $50.00**
Radar Simulator	The ***Radar Simulator*** aids in the troubleshooting of radars or other speed sensor problems. It can also be used to calibrate and test all types of rate controllers and monitors while stationary. The simulator comes standard with a four pin round AMP connector. Now features a built in Voltmeter to test incoming voltage. **AE6608 - $125.00**
Flow Meter Simulator	The ***Flow Meter Simulator*** makes troubleshooting flow meter problems a much simpler task. One person can now be in front of the spray controller and watch for flow meter input during a test. It takes the guesswork out of troubleshooting a flow meter and will quickly identify the problem. **AE6608F - $125.00**

Accessories and Specialized Products

Power Bar	The ***Power Bar*** provides multiple power hookups in a slender, mountable package. It features three standard AMP power connectors as well as two cigarette lighter receptacles. The power bar has an on/off switch for switched power and is fused to 30 amps. **AE6601 - $160.00**
Power Y & Pigtail Cables	***Power Y Cables*** use three pin AMP power connectors and are available in single Y, and double Y, configurations. Power pigtails are also available for installing on monitor power cables. Ag Express also offers a pigtail for the John Deere® power strip. These pigtails are available in 1-4ft lengths. **AE2528 - $70.00 (single Y cable)** **AE25281 - $90.00 (double Y cable)** **AE3007K - $10.00 (John Deere® power pigtail)**
GreenStar® Power Remote	The ***GPR*** acts as a power switch allowing GreenStar® displays to be turned on or off without using the key switch on the machine. It also allows displays to be turned off during transport or any other time it is desired. The unit needed depends on the connectors that are on the corner post of the machine. ⬇ **AE6685 - $210.00 (19 pin round Amphenol connector)** **AE6686 - $210.00 (10 pin rectangular gry/blk connectors)**
GVS	The ***Ag Express® GVS*** is a GPS based velocity sensor that produces true ground speed pulses for equipment designed to interface with radar or wheel speed sensors. The GVS can be quickly transferred from vehicle to vehicle, provides high accuracy, and is easy to install and use. It features a 7Hz update frequency, magnetic base, LED indication of GPS lock, and 0.1 mph accuracy from 2-50 mph. **AE5633 - $398.00**
SMV Mount Connector Bracket	The ***SMV Mount Connector Bracket*** is designed to hold 37 pin panel mount AMP connectors or Deutsch ISO implement connectors. This bracket allows these connectors to be mounted in a sturdy and convenient place on the back of a tractor. It is made of stainless steel, so it will never rust or corrode. **AE6623 - $10.00**

Other Products Available at www.agexpress.com

Notes:

Notes:

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$$Prices$$

Errors & Inaccuracies