



GreenStar™ Rate Controller Ordering Guide



NOTE

Configurations shown in this document are based upon a John Deere tractor that is GreenStar™ ready or a competitive machine that is equipped with an Universal GreenStar™ ready harness kit.



JOHN DEERE

Ordering Guide Instructions

It's important to keep these keyboard commands in mind when navigating through the Ordering Guide. There will also be a button located on each page that will link you back to this page.



Ordering Guide Instructions



Home Button



Navigate Backwards



Navigate Forward



Represents a harness or component that is NOT available through AMS Prices Pages. These harnesses or components either already exists on the implement/machine or is available via 3rd party manufacturer



Represents a harness or component that available through AMS Prices Pages

CONTINUE



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Forward

Ordering Guide Feedback

In a means to maintain an accurate and consistent ordering guide, please provide feedback via a Report Only DTAC case if mistakes are found or if links are not functioning properly. This will ensure that we have a dependable resource available for the dealer channel in order to support our end users.

CONTINUE

Choose Your Application Configuration

Seeding Applications

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John Deere
CCS Seeder

Nutrient Applications

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Ammonia
(NH₃)
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Sprayers

Liquid Fertilizer
Applicators

Multi-Product Applications

Multi-Products
(Multiple Rate
Controllers)

Controller Update Kit

Upgrading 31-pin
Controller
to 37-pin





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Choose Your Planter Configuration



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Row Command™

1/2 or 1/3 Width
Disconnects

TruCount Row
Clutches

Non SeedStar™
or Gen I
SeedStar™

TruCount Row
Clutches

Gen II
SeedStar™

1/2 or 1/3 Width
Disconnects

TruCount Row
Clutches

Kinze

1/2 or 1/4 Width
Disconnects





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Choose Your Planter Configuration



Forward

SeedStar™ 2

+

1/2 or 1/3 Width Disconnects

All 1710, All 1730, All Other Planter Models Less Than 12 Rows
(MY09 – Newer)

1720 12R and 16R, 1760 12R, 1770 12R Flex 1730,
All 1770NT, All 1790 (MY09 – Newer) and All Deere-Bauer
(MY09 – MY11)

All Deere-Bauer
(MY12 – Newer)

*DTAC Solution 95058





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Choose Your Planter Configuration



Forward

SeedStar™ 2

+

Tu Count Row Clutches

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(MY09 – MY11)

All Deere-Bauer
(MY12 – Newer)

*DTAC Solution 95058





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Choose Your CCS Seeder Configuration



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SeedStar™ 2

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Choose Your Anhydrous Ammonia (NH₃) Configuration



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Choose Your Anhydrous Ammonia (NH₃) Configuration



Raven

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Choose Your Sprayer Delivery System

John Deere Self Propelled

Raven

Hardi

Other





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Choose Your Liquid Fertilizer Configuration



Forward

Raven

Other





SeedStar™2 + RowCommand



NO GREENSTAR™ RATE CONTROLLER REQUIRED – SEEDSTAR™ 2 ENABLES SEED RATE AND FULL SECTION CONTROL CAPABILITY



BACK TO PLANTERS CONFIGURATION



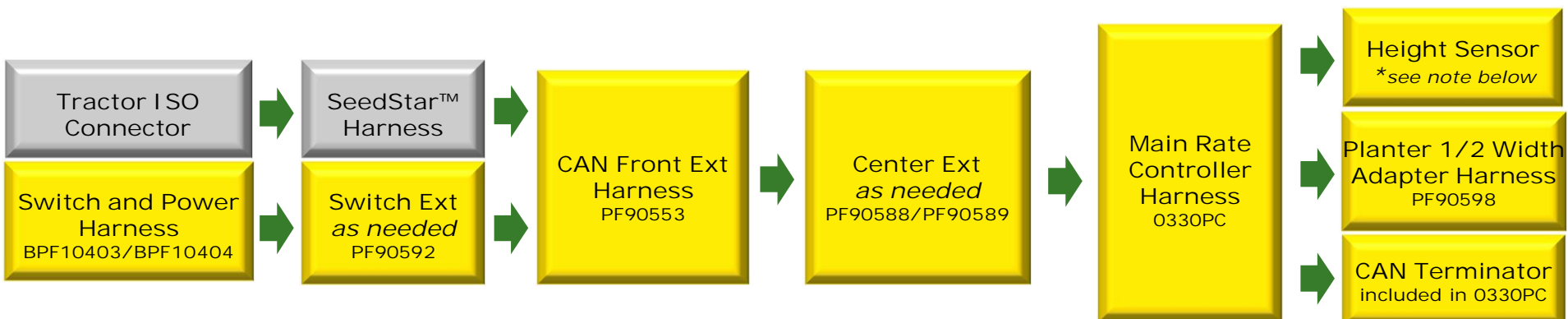
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SeedStar™2 + 1/2 or 1/3 Width Disconnects



Forward

All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)



NOTES

HEIGHT SWITCHES FOR PLANTERS

PURCHASING:

THE GREENSTAR SYSTEM REQUIRES A DEDICATED HEIGHT INDICATOR. THERE ARE TWO OPTIONS FOR PLANTERS:

❑ PARTS:

PLANTER HEIGHT SWITCH – REGULAR PARALLEL ARMS

PLANTER HEIGHT SWITCH – LONG PARALLEL ARMS

❑ AMS PRICE PAGES:

IMPLEMENT HEIGHT SENSOR

INSTALLATION:

FOR MULTI-PRODUCT APPLICATIONS, THE HEIGHT INDICATOR MAY BE INSTALLED ON ANY RATE CONTROLLER, NOT NECESSARILY THE FIRST CONTROLLER IN THE CHAIN. THE CONTROLLER THAT HAS THE HEIGHT INDICATOR WILL NEED TO BE SETUP TO SEND THE HEIGHT SIGNAL AND ALL OTHER RATE CONTROLLER(S) IN THE CHAIN WILL NEED TO BE SETUP TO RECEIVE THE SIGNAL. REFER TO THE OPERATOR'S MANUAL FOR MORE INFORMATION.

EXAMPLE





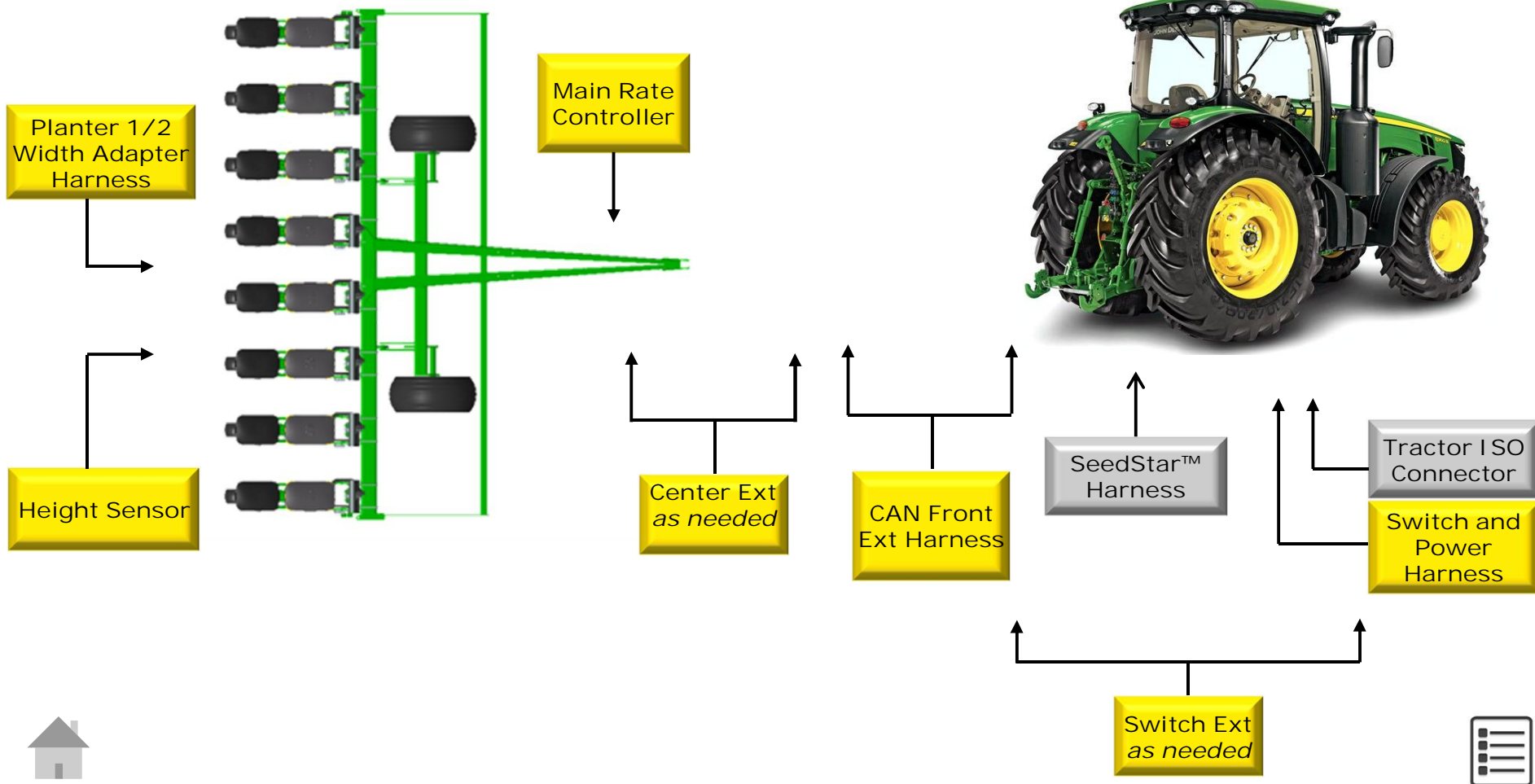
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SeedStar™2 + 1/2 or 1/3 Width Disconnects



Forward

All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)





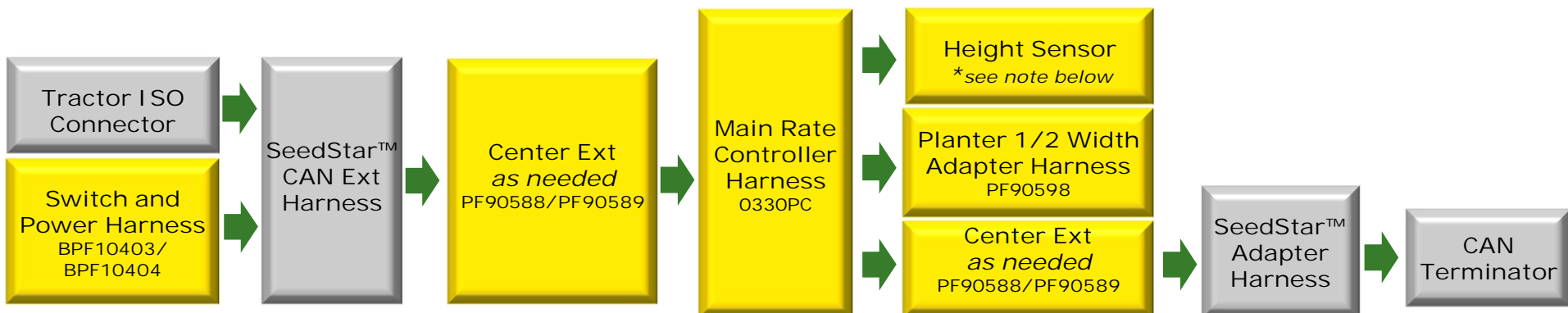
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SeedStar™ 2 + 1/2 or 1/3 Width Disconnects



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1720 12R and 16R, 1760 12R, 1770 12R Flex 1730, All 1770NT, All 1790, All Deere-Bauer (MY09 – Newer)



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EXAMPLE





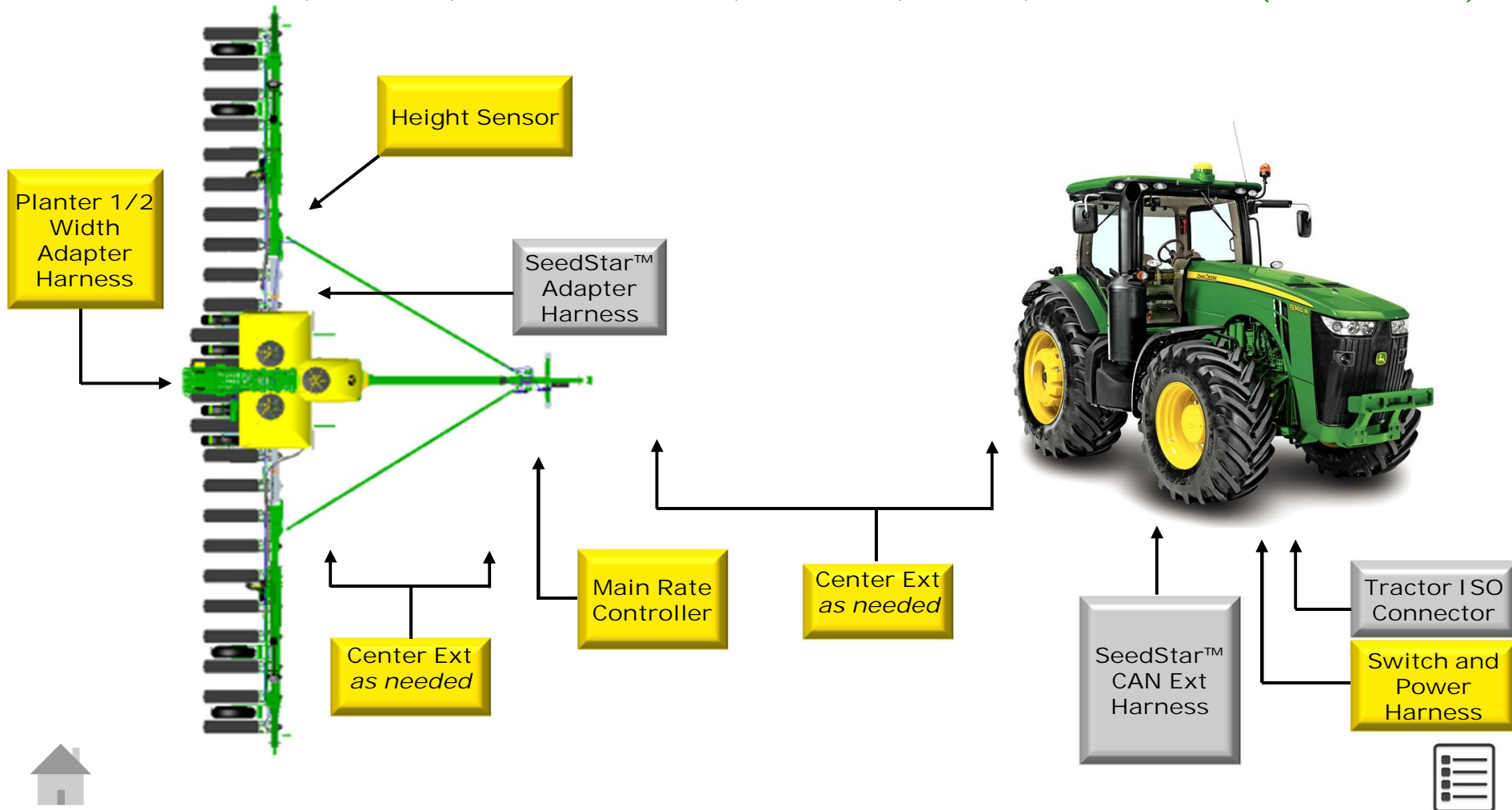
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SeedStar™ 2 + 1/2 or 1/3 Width Disconnects



Forward

1720 12R and 16R, 1760 12R, 1770 12R Flex 1730, All 1770NT, All 1790, All Deere-Bauer (MY09 – Newer)





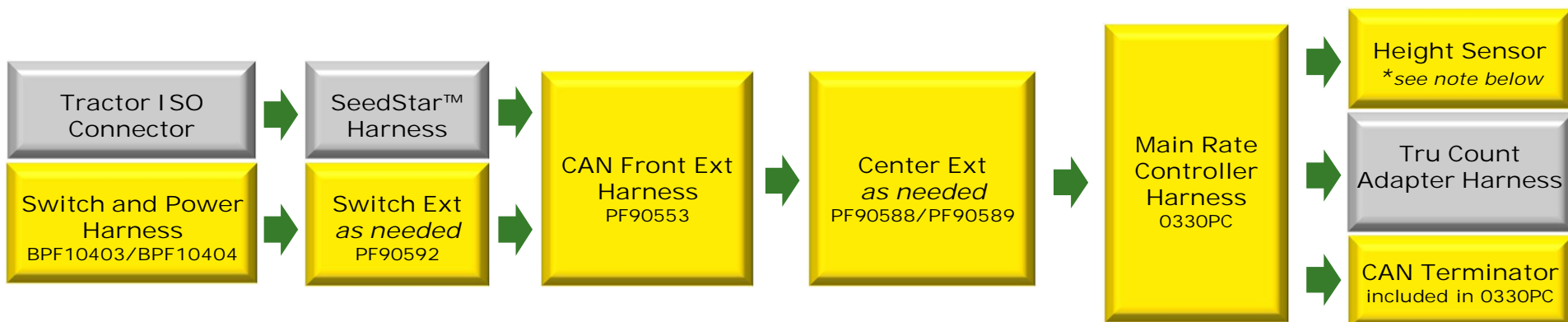
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SeedStar™2 + Tru Count Clutches

All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)



Forward



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EXAMPLE





Back

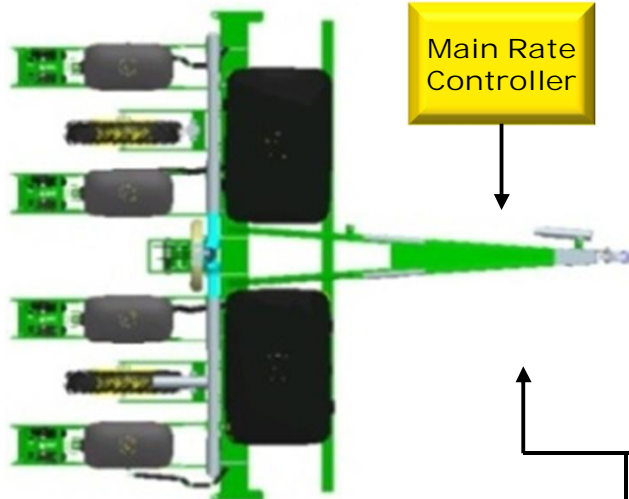
SeedStar™2 + Tru Count Clutches

All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)



Forward

Tru Count
Adapter
Harness



Main Rate
Controller



Height Sensor

Center Ext
as needed

CAN Front
Ext Harness

SeedStar™
Harness

Tractor ISO
Connector

Switch and
Power
Harness

Switch Ext
as needed





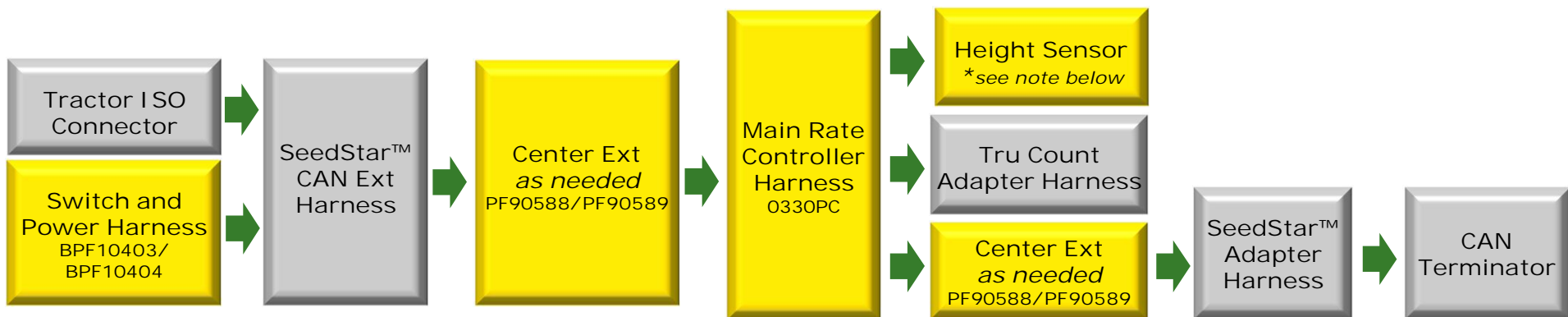
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SeedStar™2 + Tru Count Clutches



Forward

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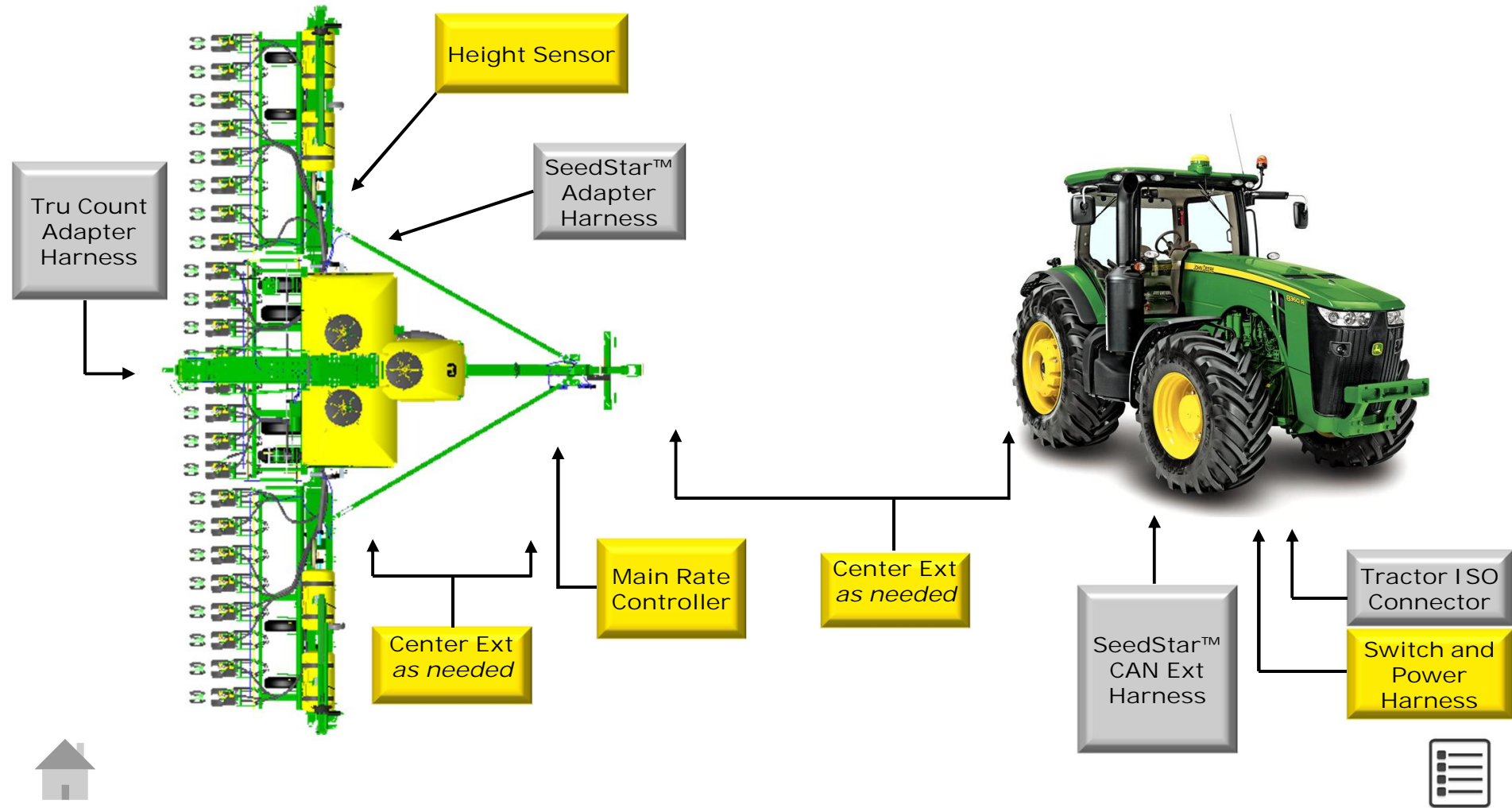
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SeedStar™2 + Tru Count Clutches



Forward

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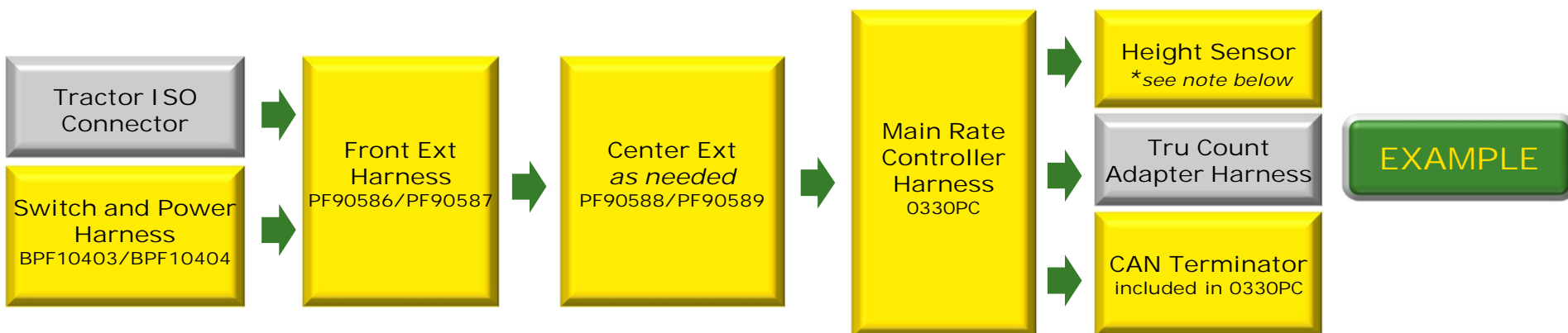


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Forward

Non SeedStar™ or Gen I SeedStar™ with separate CAN Bus + Tru Count Clutches



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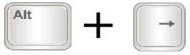
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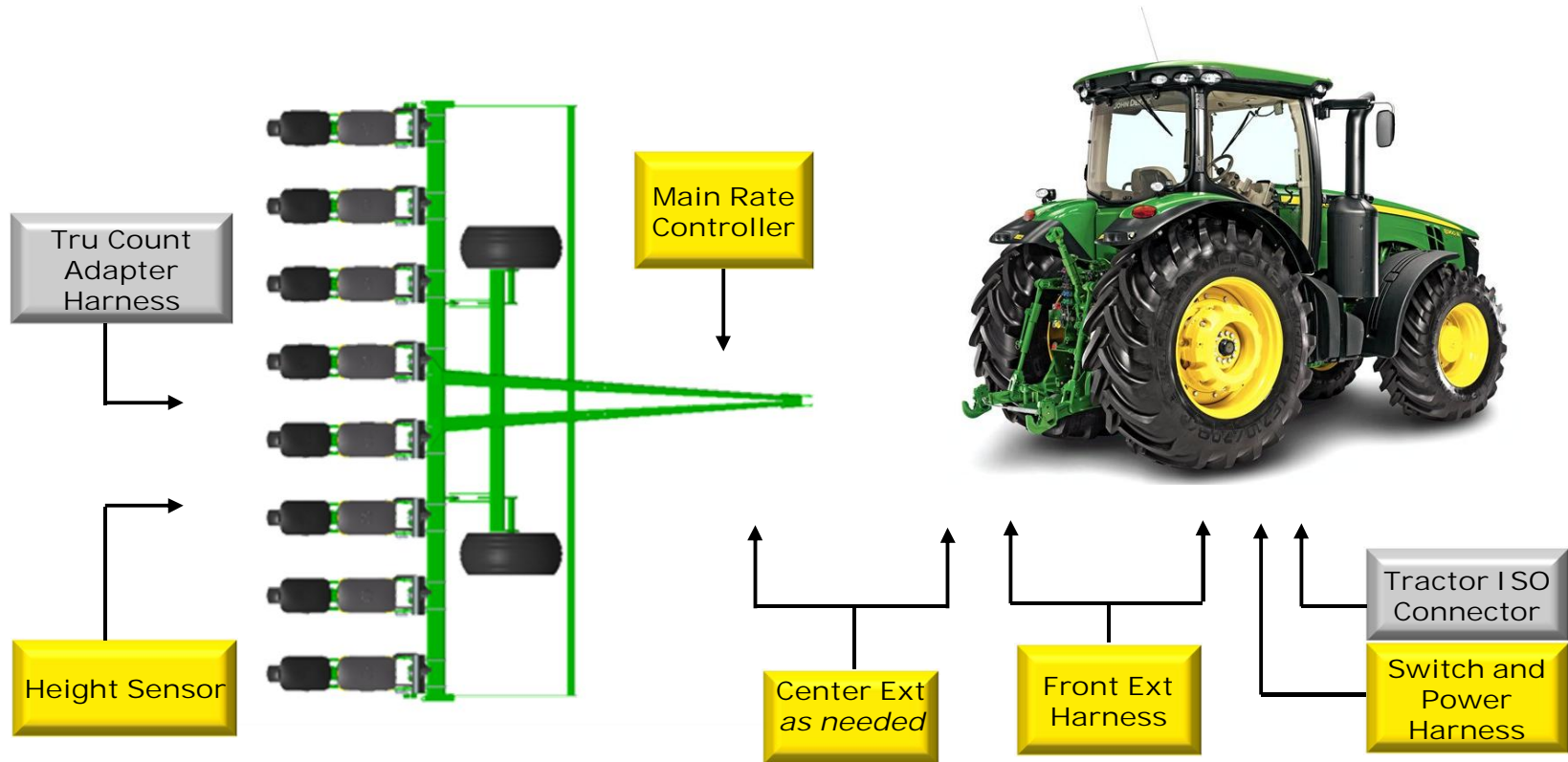


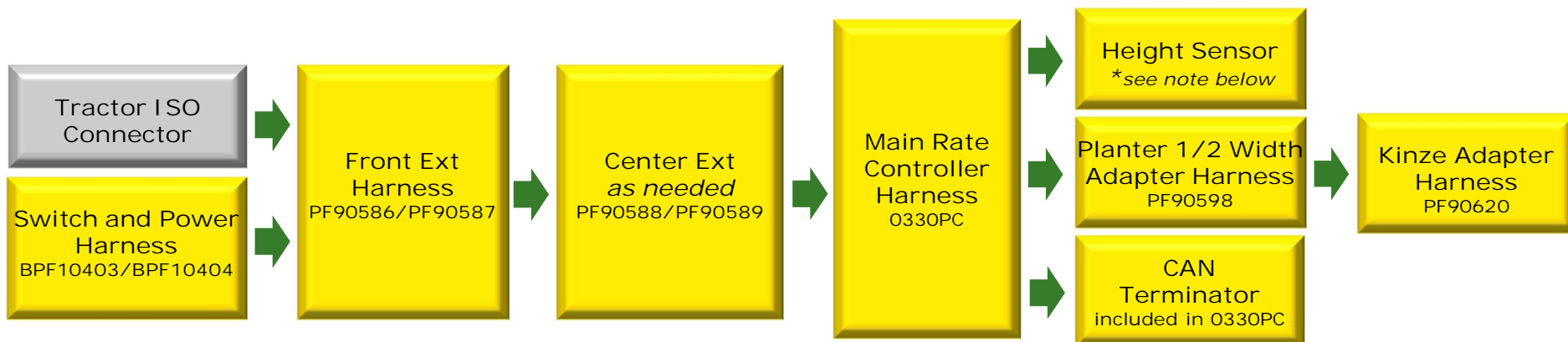
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Non SeedStar™ or Gen I SeedStar™ with separate CAN Bus + Tru Count Clutches





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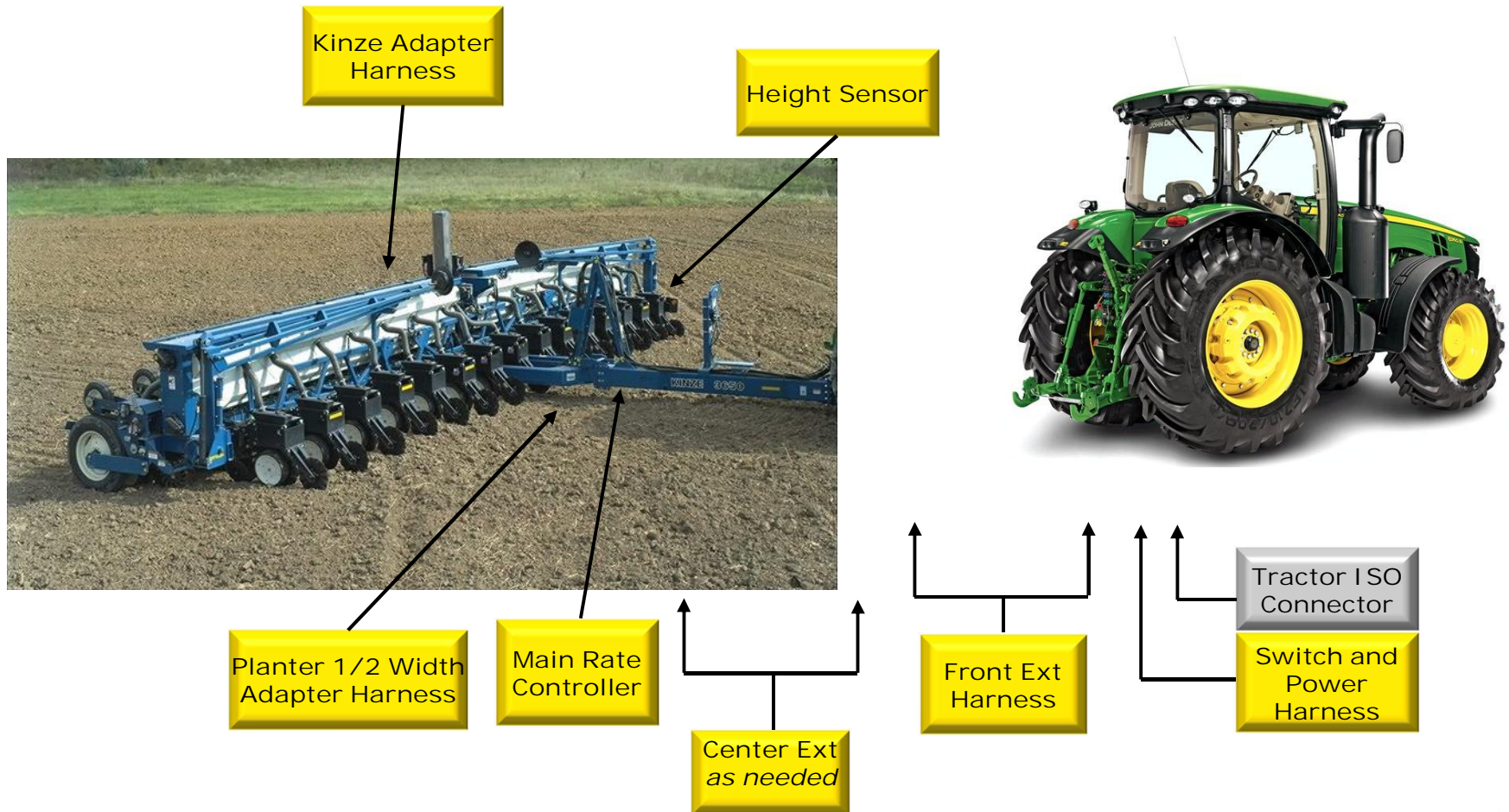
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EXAMPLE



Kinze Planter + 1/2 or 1/4 Disconnects



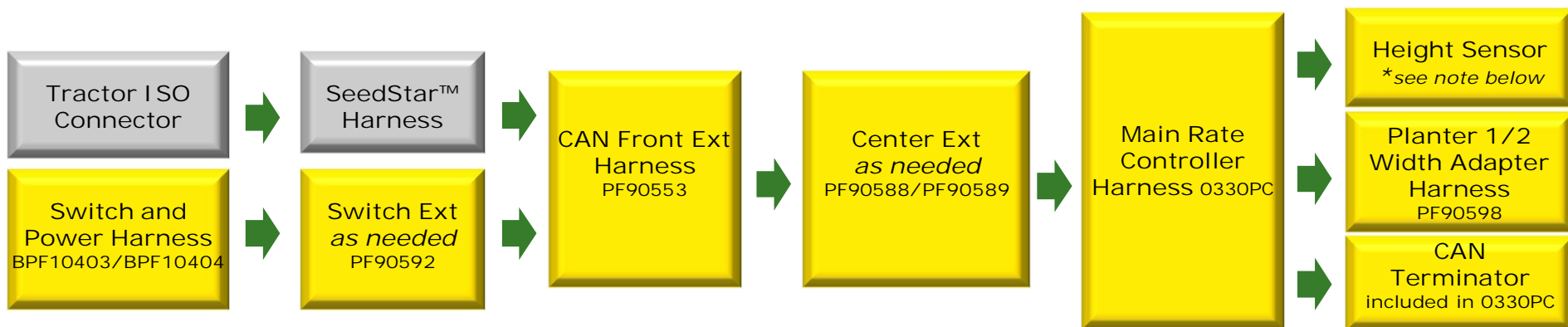


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Gen II SeedStar™ + 1/2 or 1/3 Disconnects



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IMPLEMENT HEIGHT SENSOR

INSTALLATION:

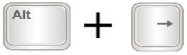
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EXAMPLE



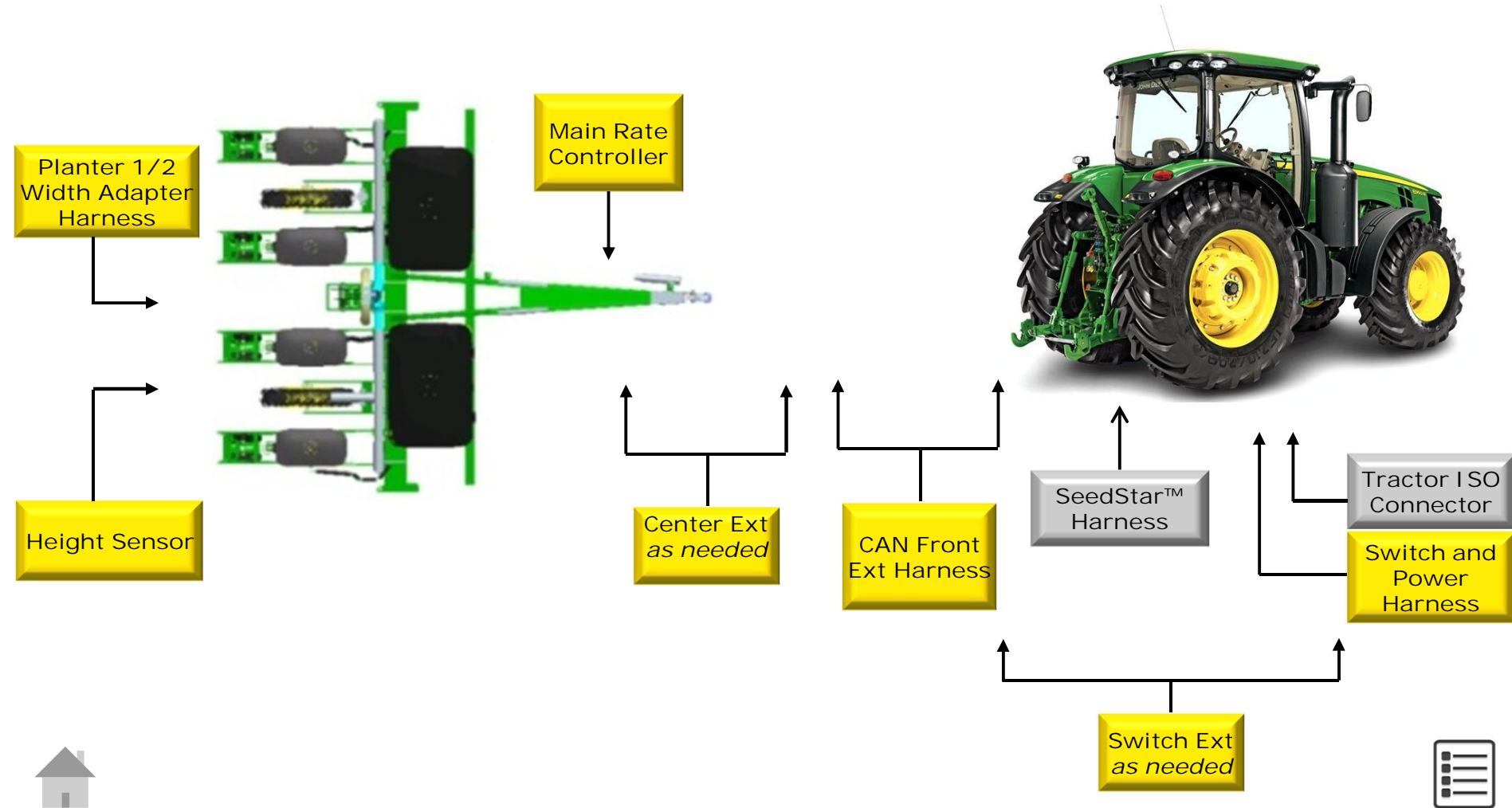


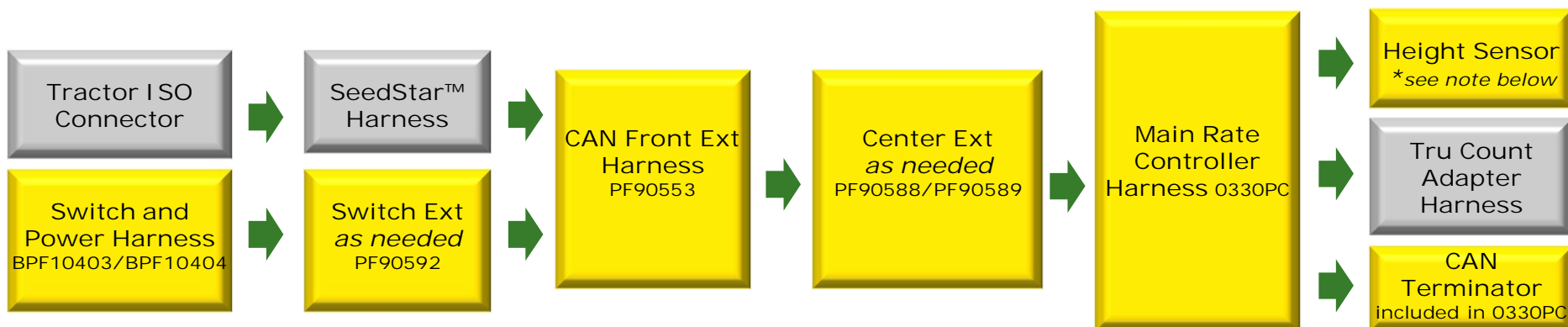
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Gen II SeedStar™ + 1/2 or 1/3 Disconnects





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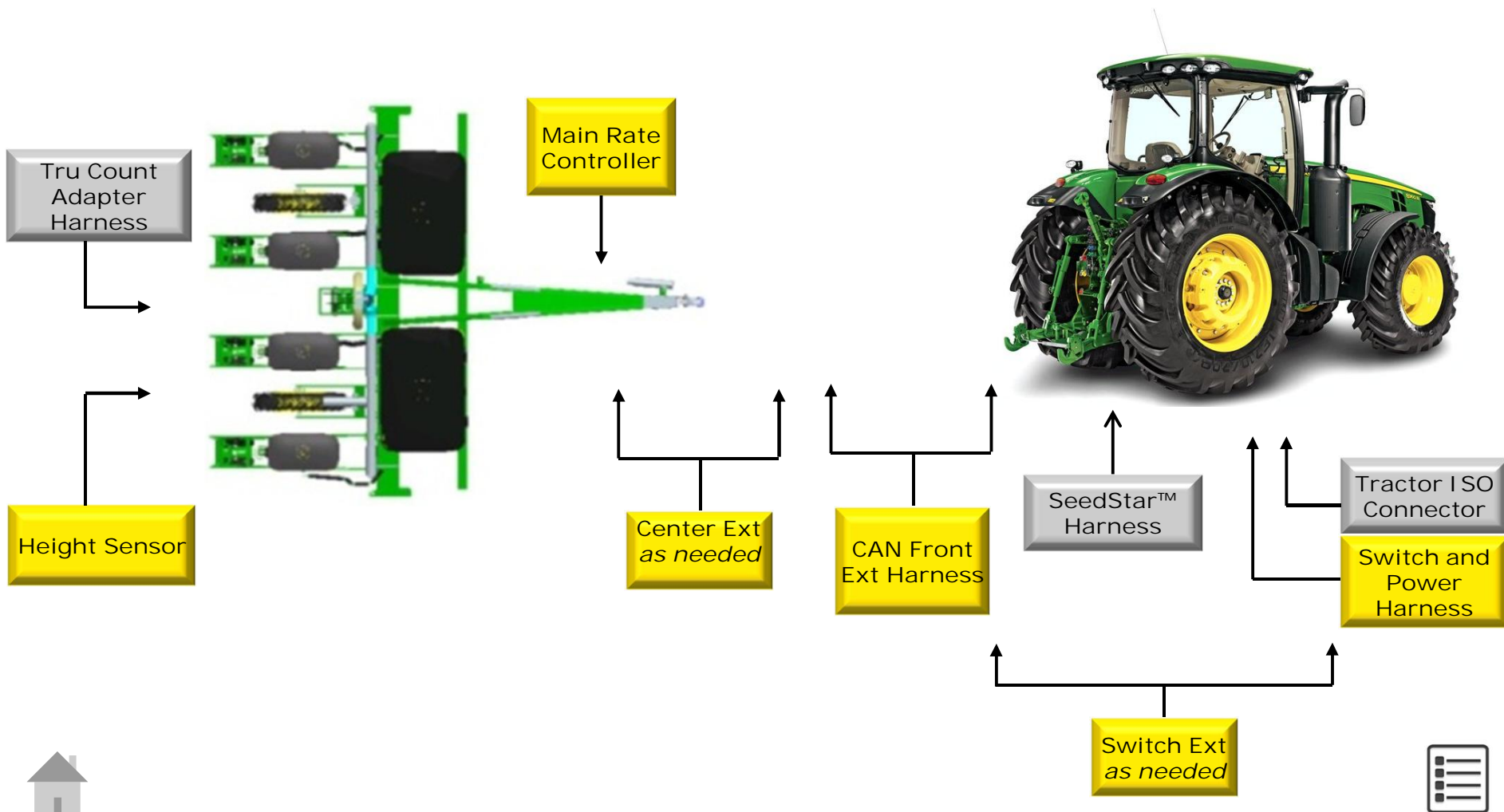
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EXAMPLE



Gen II SeedStar™ + Tru Count Clutches





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SeedStar™2 + RowCommand



Forward

NO GREENSTAR™ RATE CONTROLLER REQUIRED – SEEDSTAR™ 2 ENABLES SEED RATE AND FULL SECTION CONTROL CAPABILITY

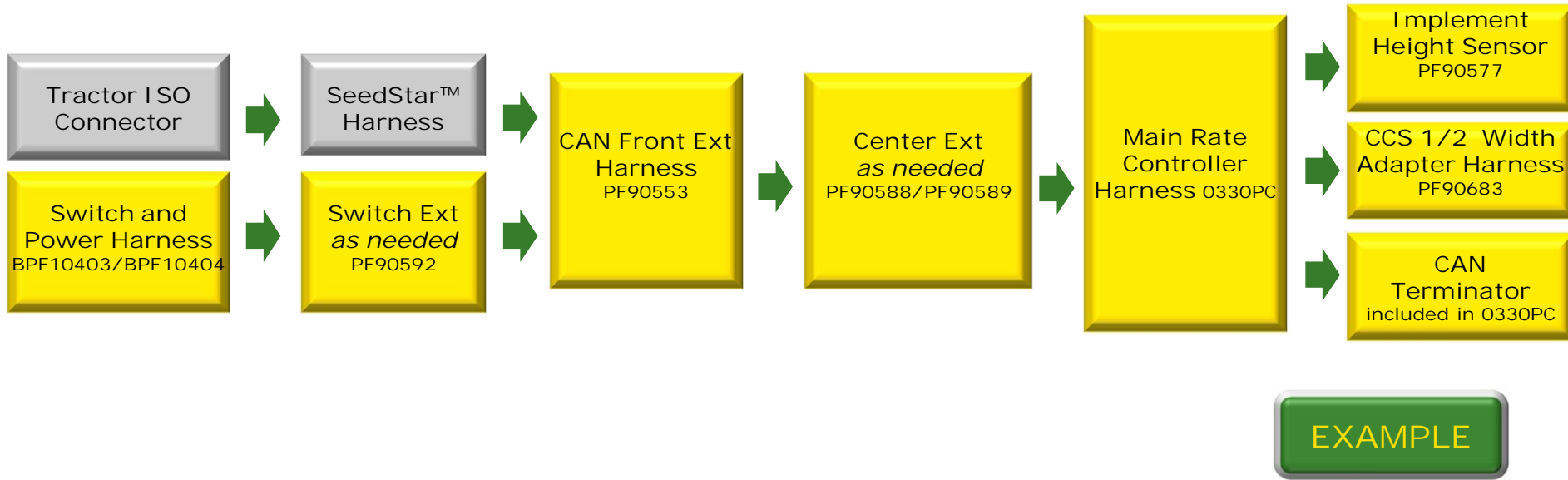


BACK TO CCS SEEDER CONFIGURATION

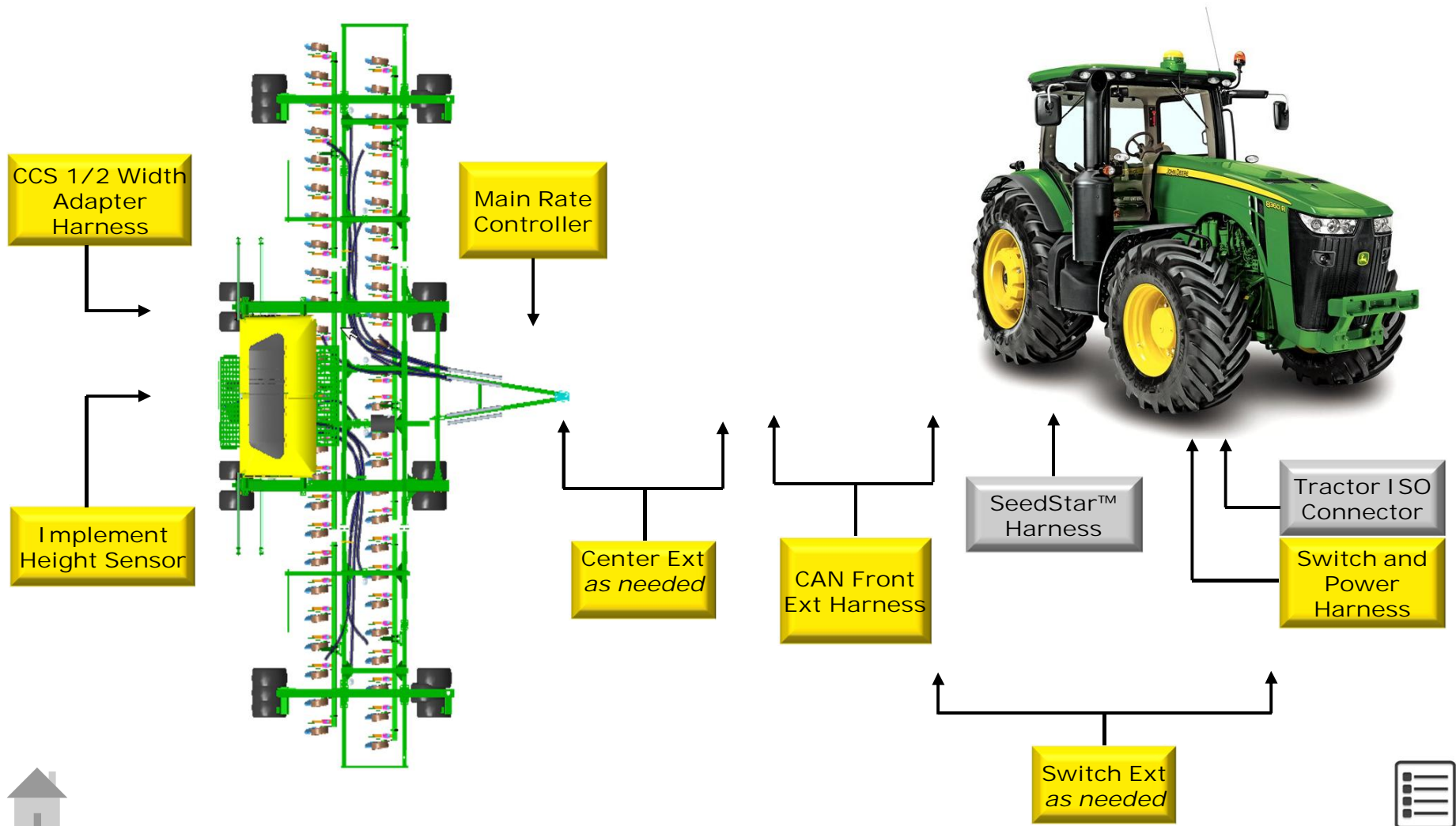




Gen II SeedStar™ + 1/2 Disconnects



Gen II SeedStar™ + 1/2 Disconnects



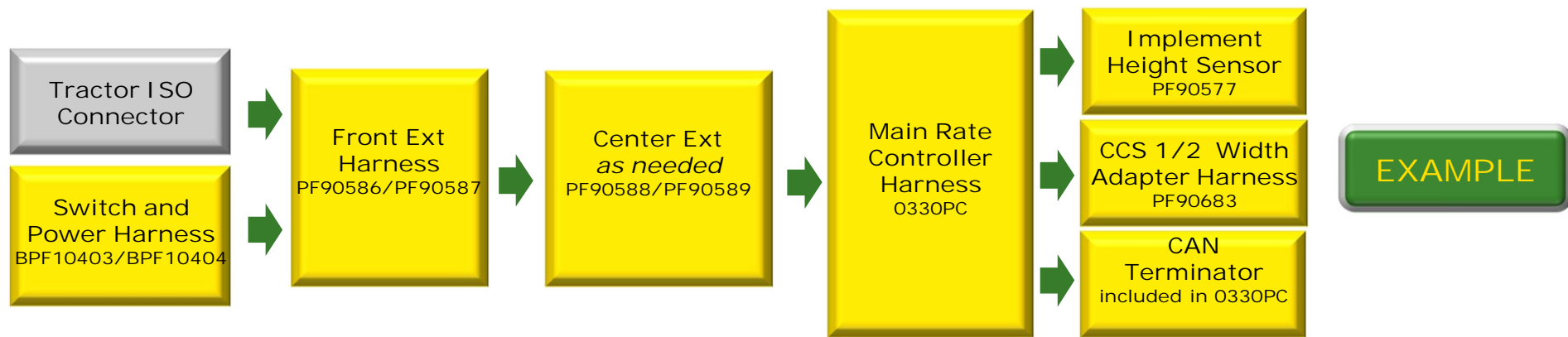


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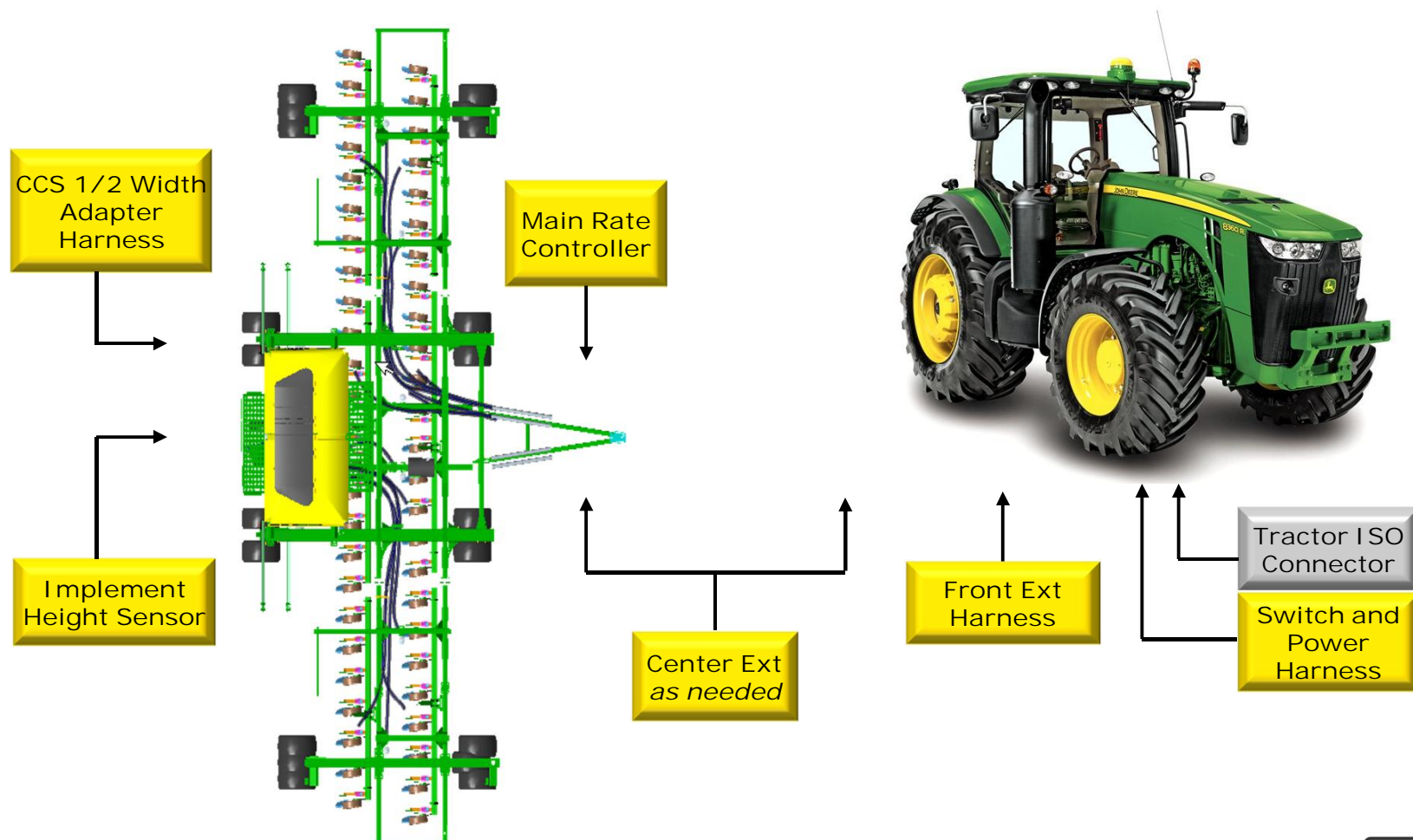


Forward

Non SeedStar™ or Gen I SeedStar™ with separate CAN Bus + 1/2 Width Disconnects



Gen II SeedStar™ + 1/2 Disconnects





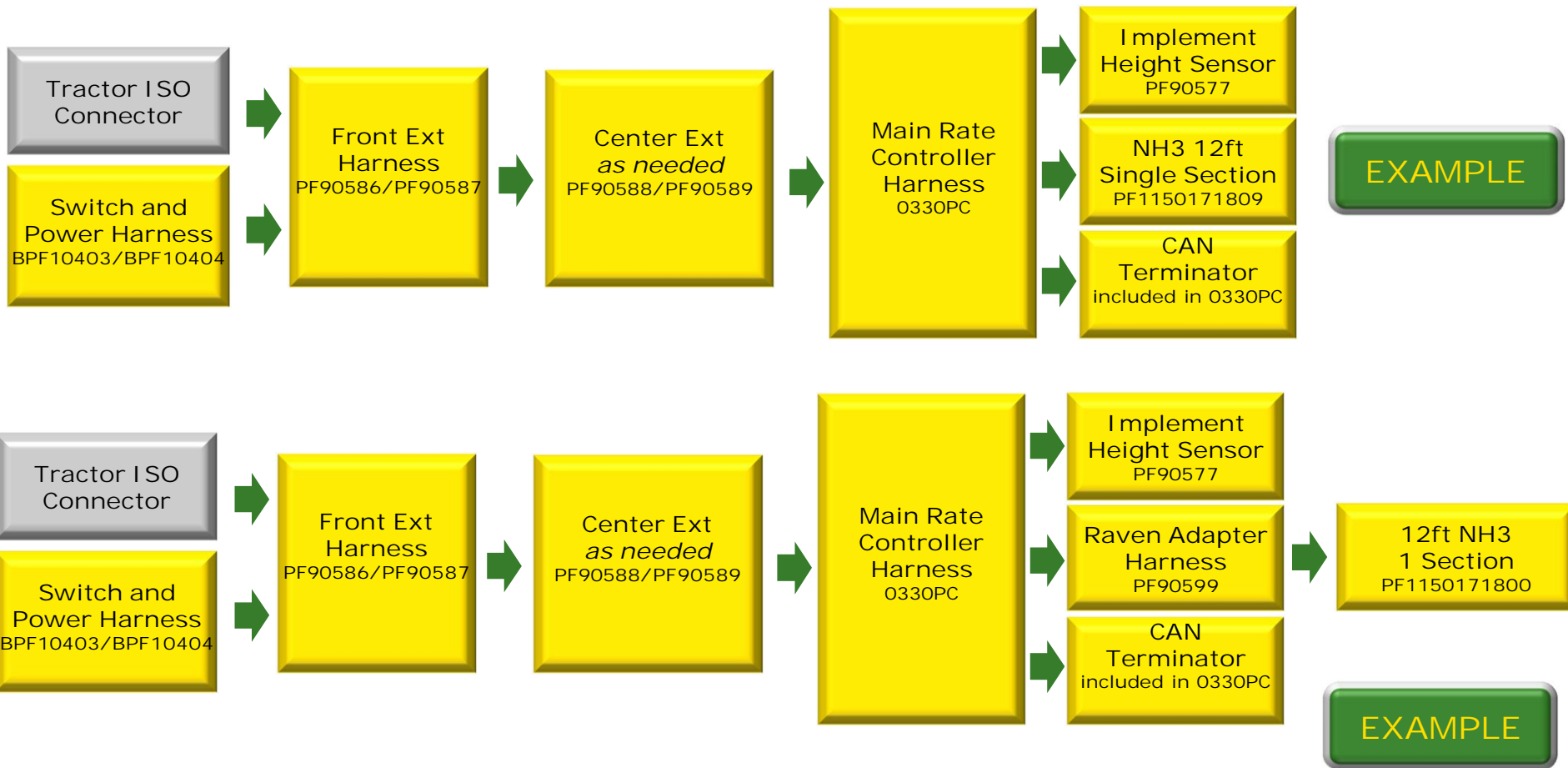
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Raven AccuFlow™ Anhydrous Ammonia System



Forward

Single Section





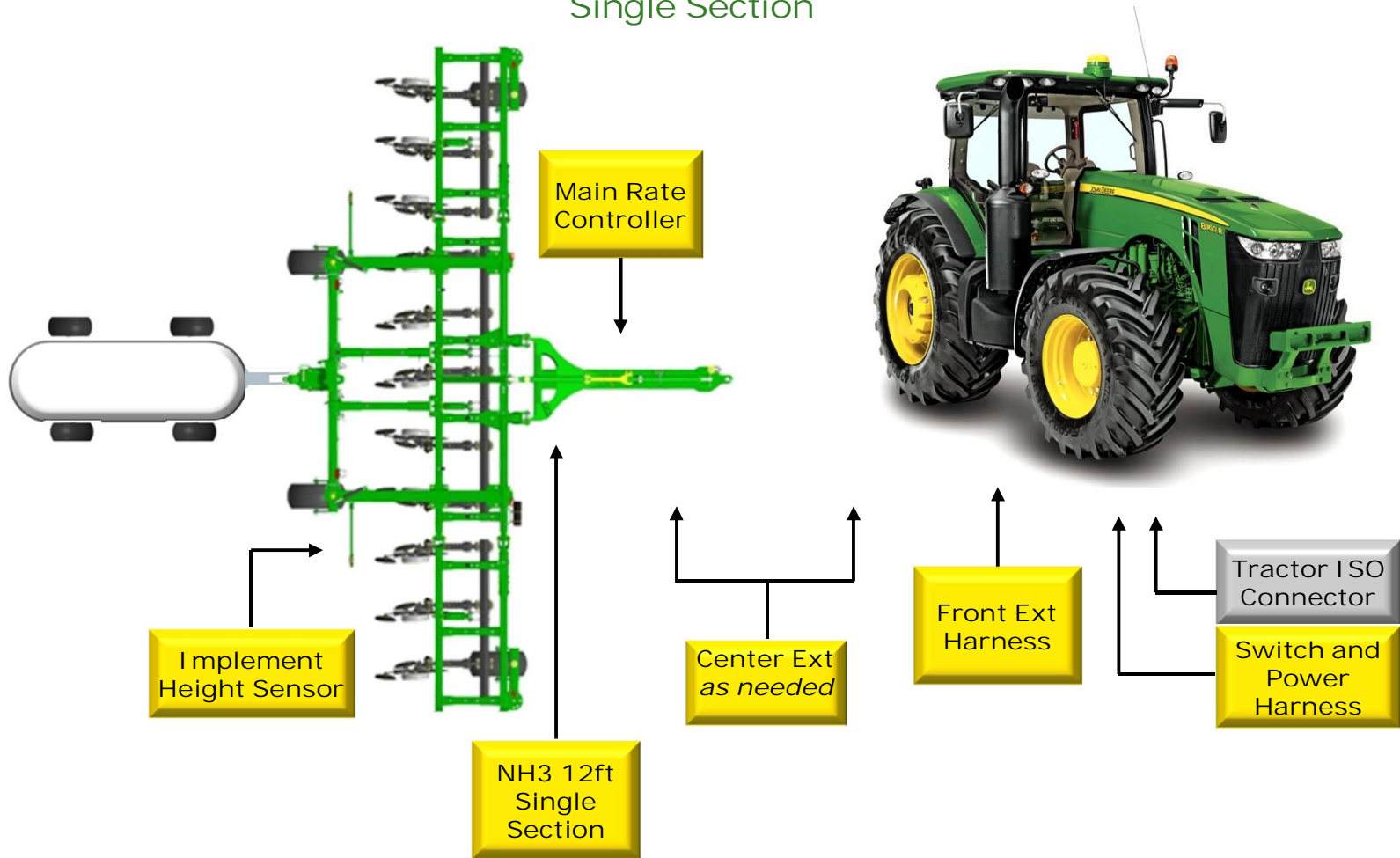
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Raven AccuFlow™ Anhydrous Ammonia System

Single Section





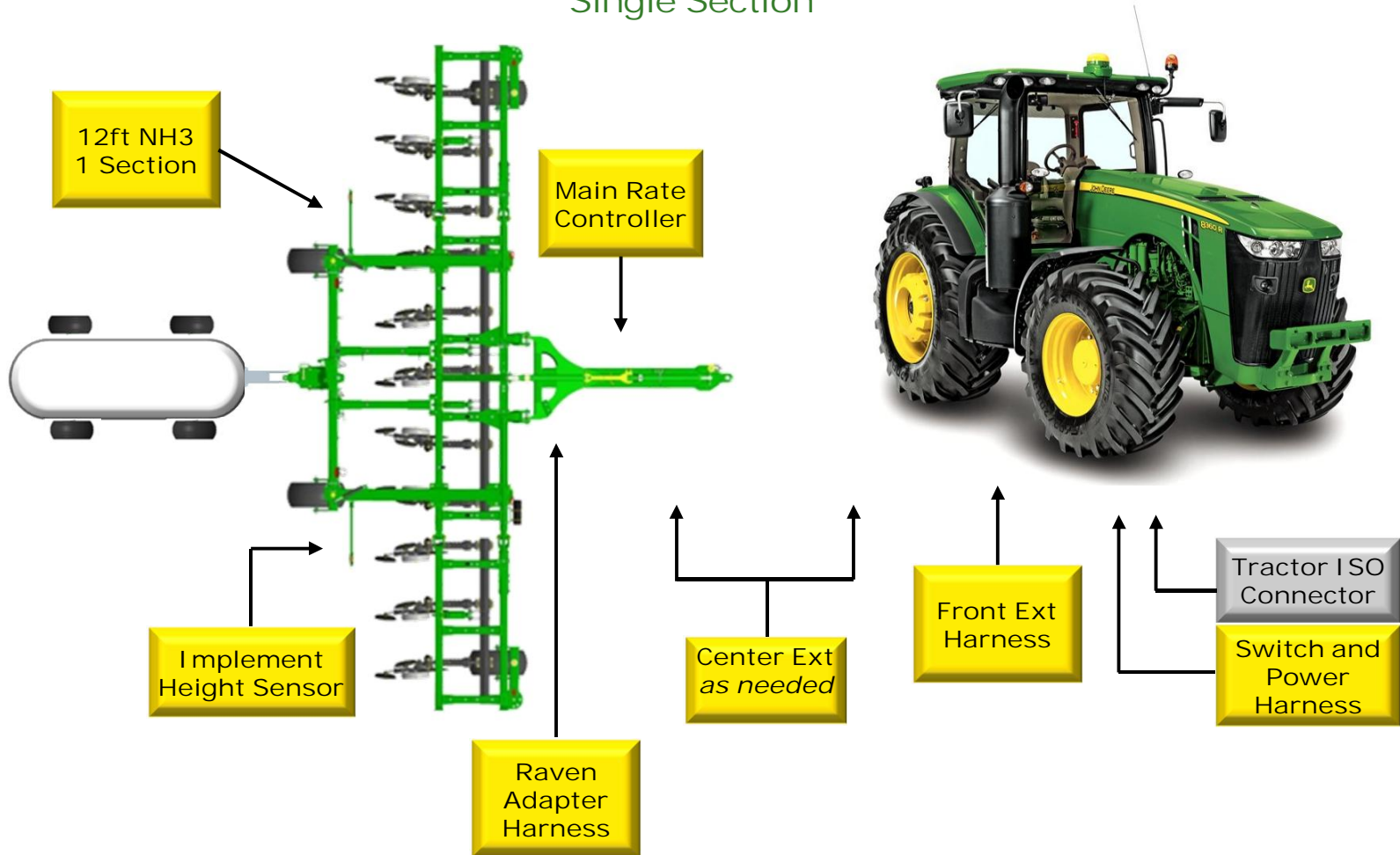
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Forward

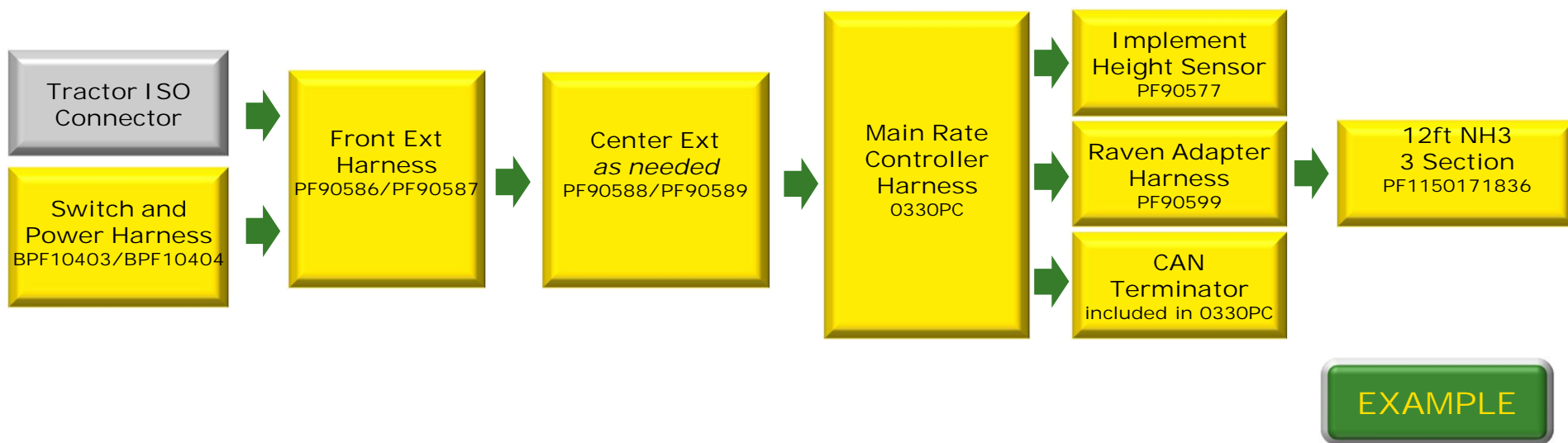
Raven AccuFlow™ Anhydrous Ammonia System

Single Section



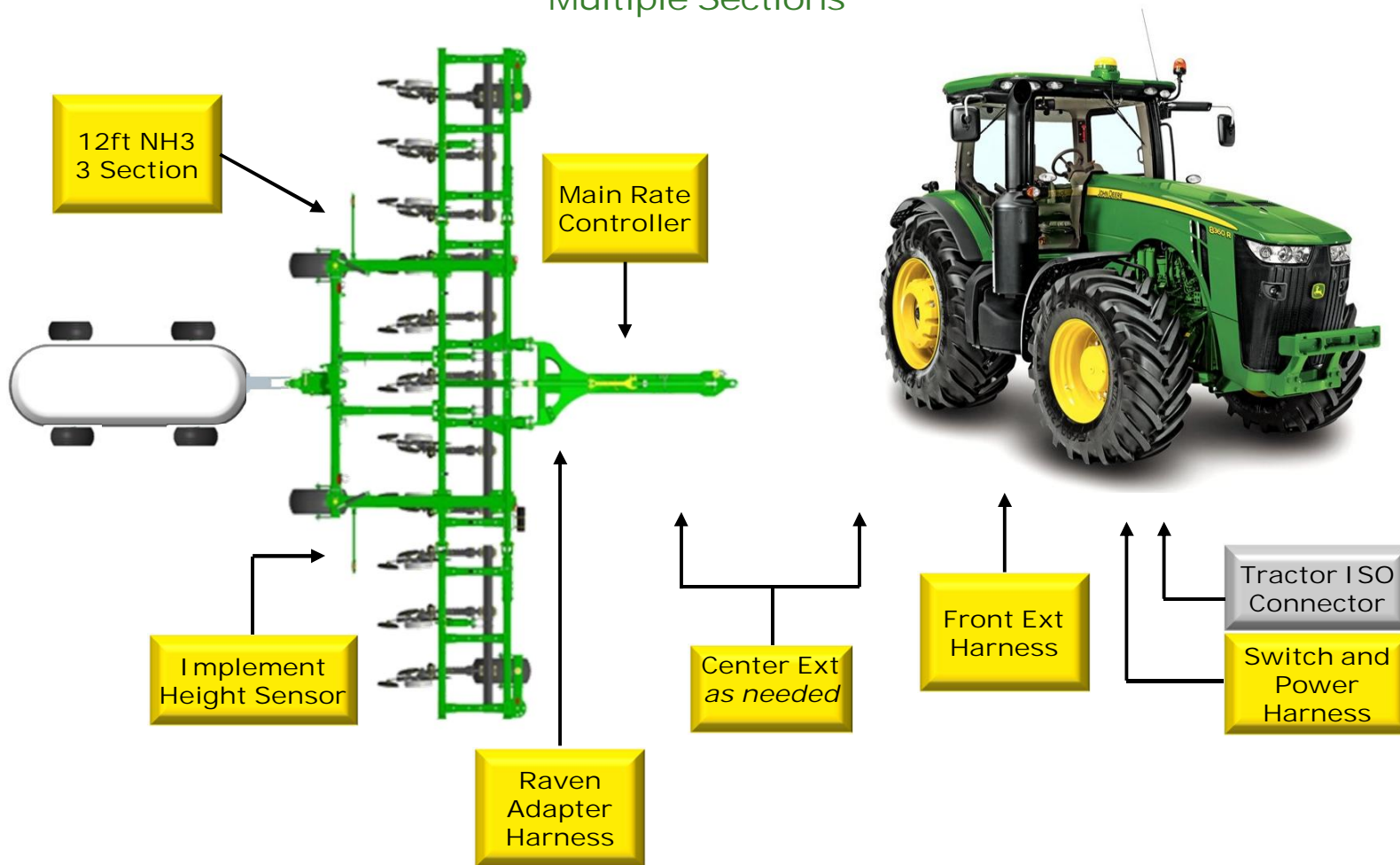
Raven AccuFlow™ Anhydrous Ammonia System

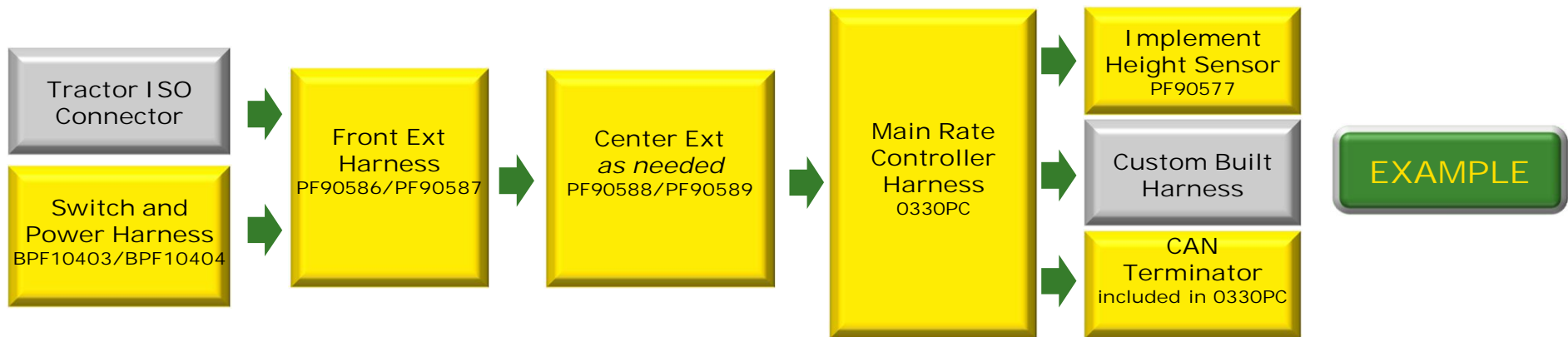
Multiple Sections



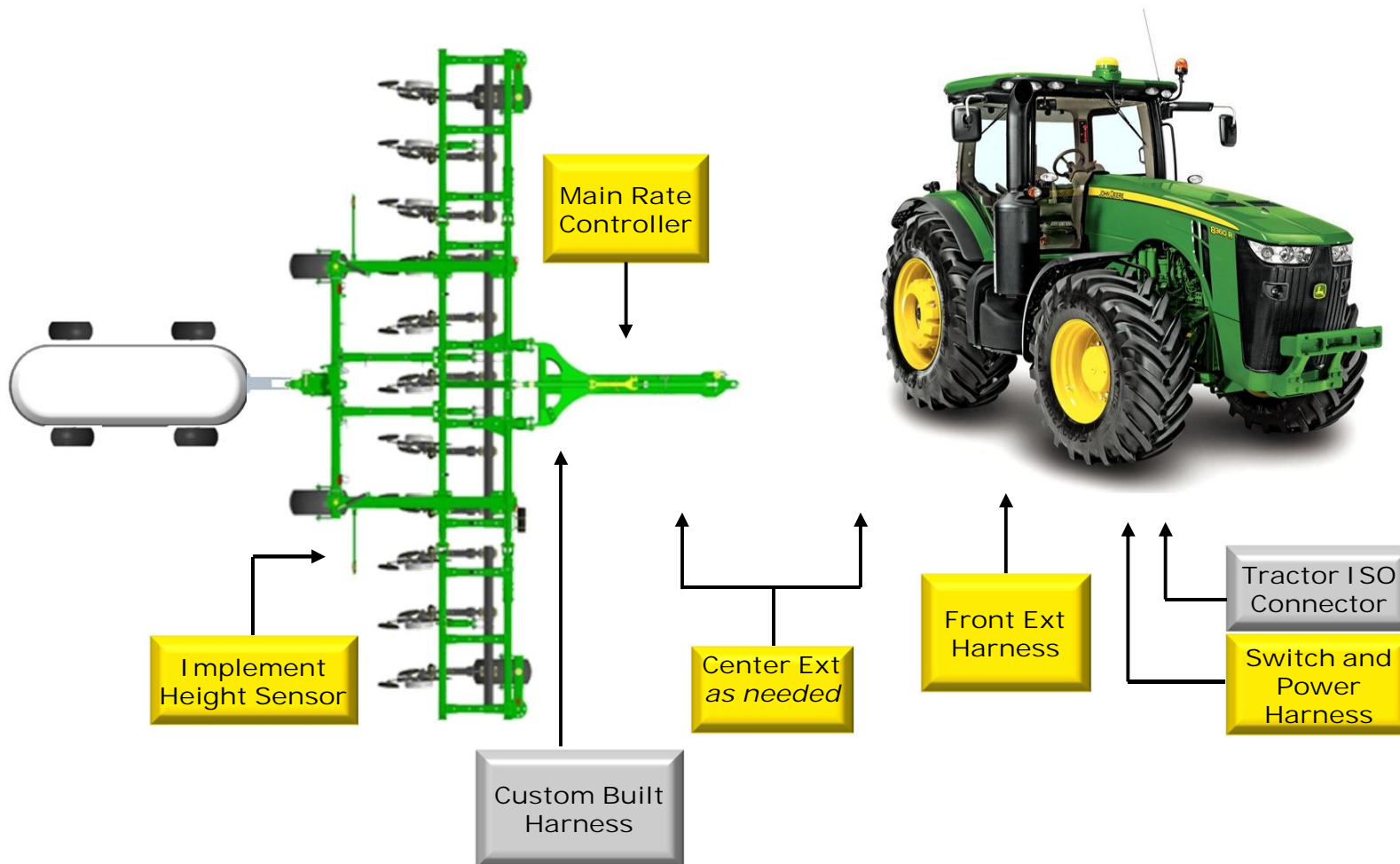
Raven AccuFlow™ Anhydrous Ammonia System

Multiple Sections





Other Anhydrous Ammonia Systems



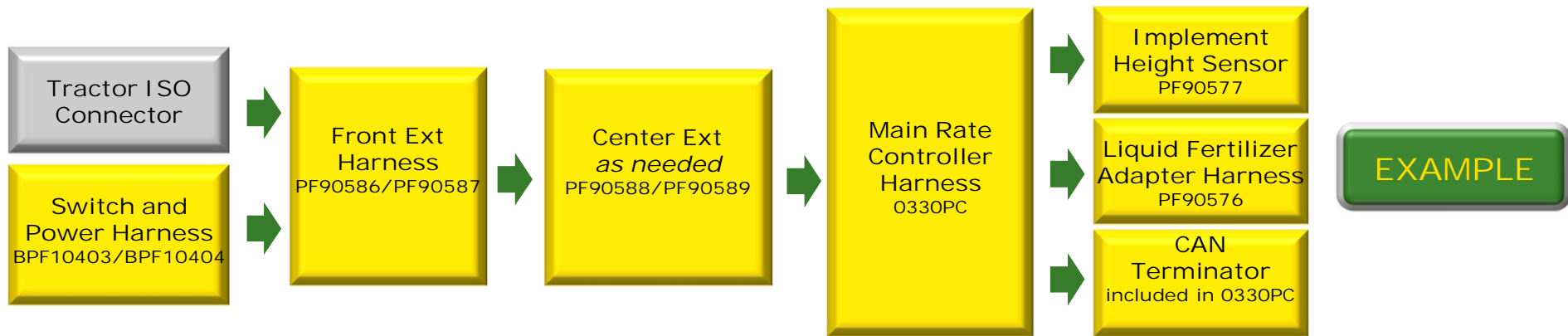


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Raven Delivery Systems

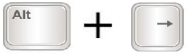


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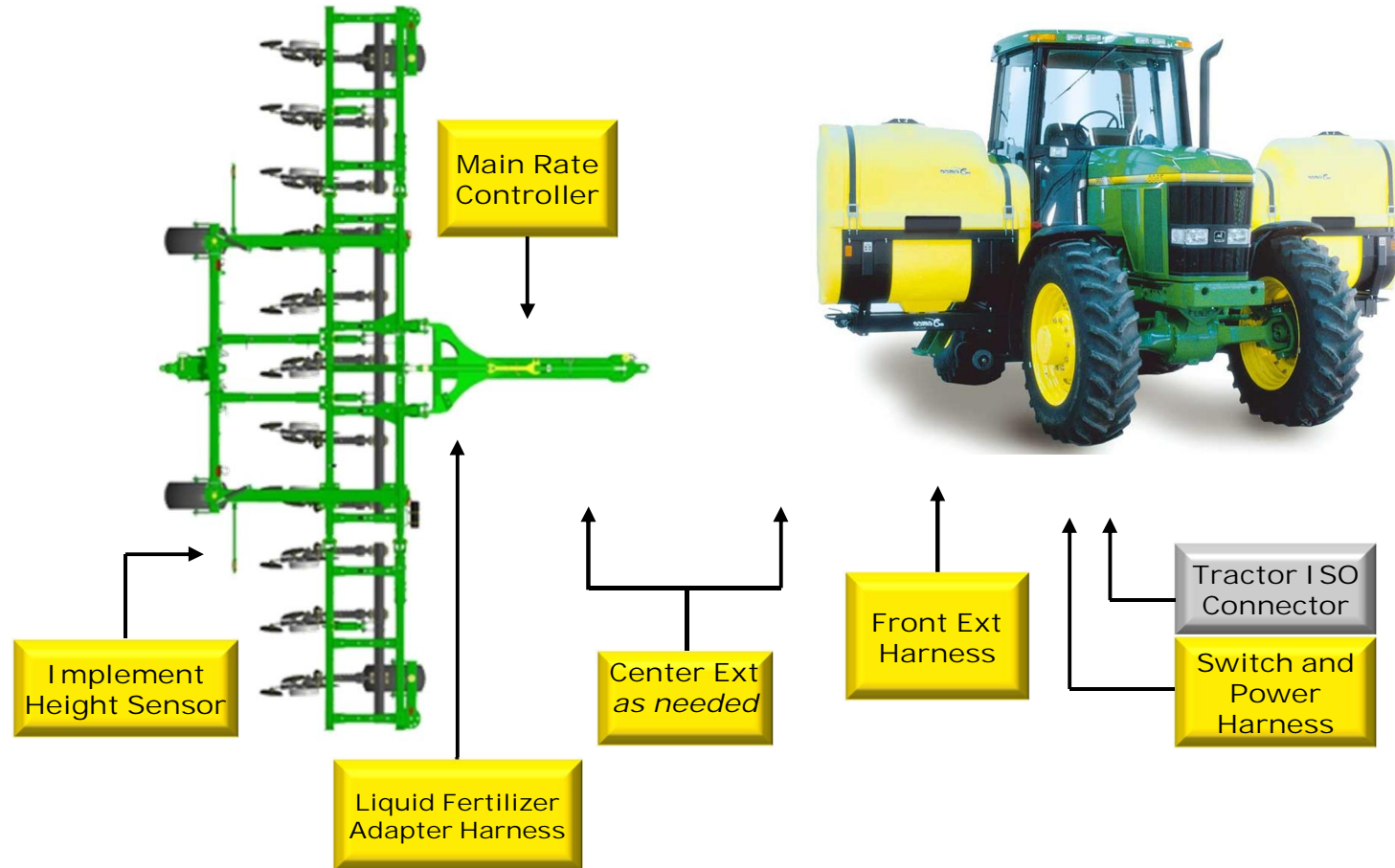


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Raven Delivery Systems



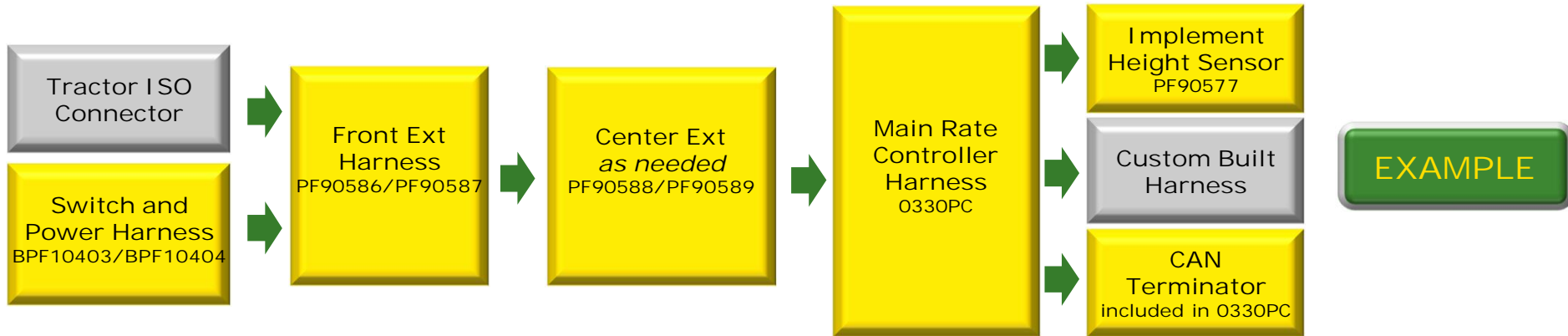


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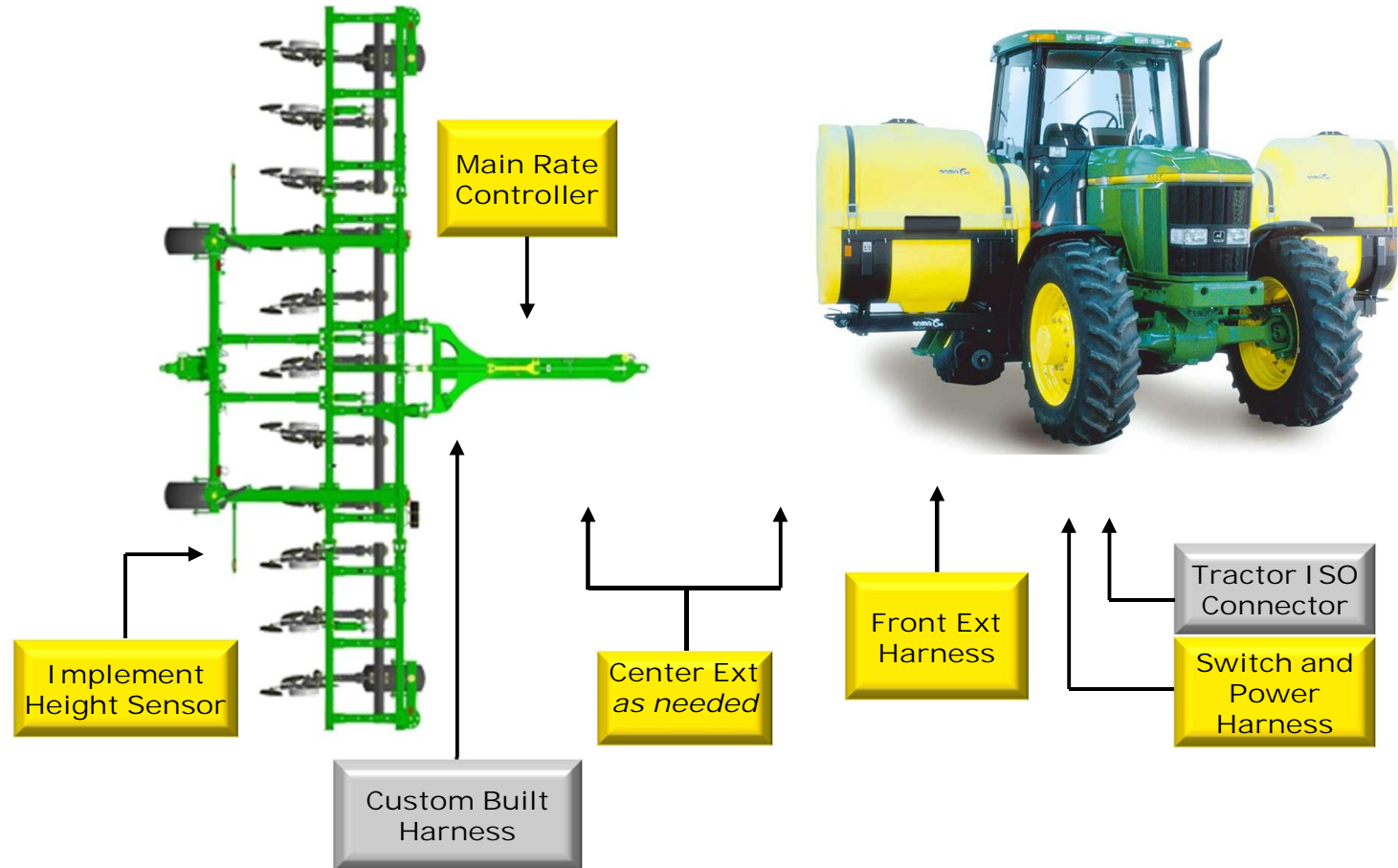
Other Liquid Fertilizer Systems



Forward



Other Liquid Fertilizer Systems





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John Deere Self-Propelled Sprayers



Forward

NO GREENSTAR™ RATE CONTROLLER REQUIRED – SPRAYSTAR™ ENABLES
SPRAY RATE CONTROL AND FULL SECTION CONTROL CAPABILITY



BACK TO SPRAYER CONFIGURATION



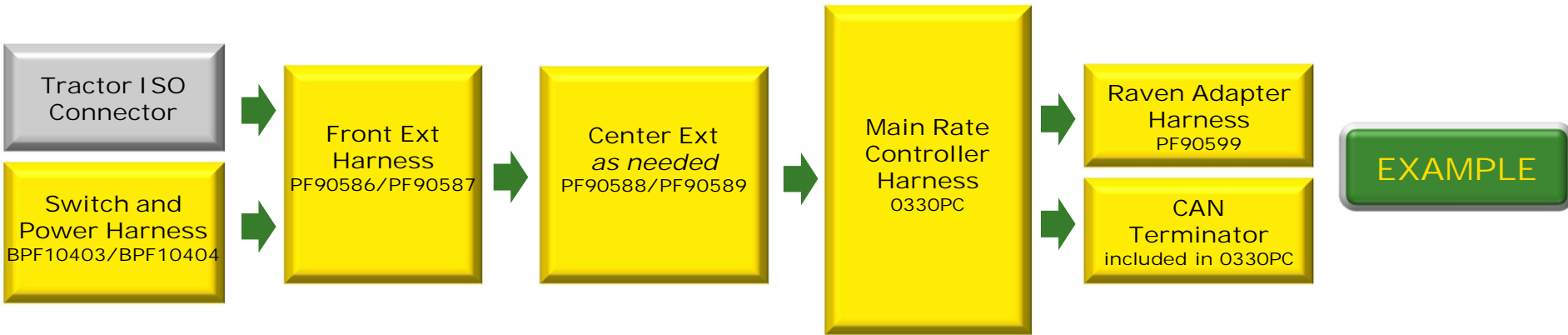


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Raven Delivery System



Forward



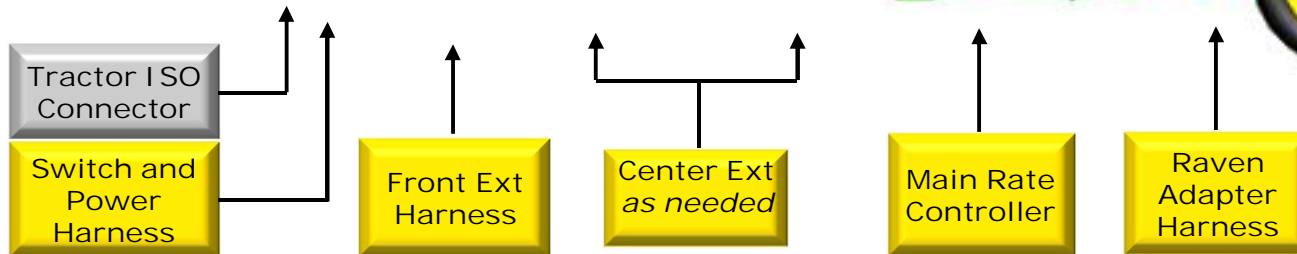
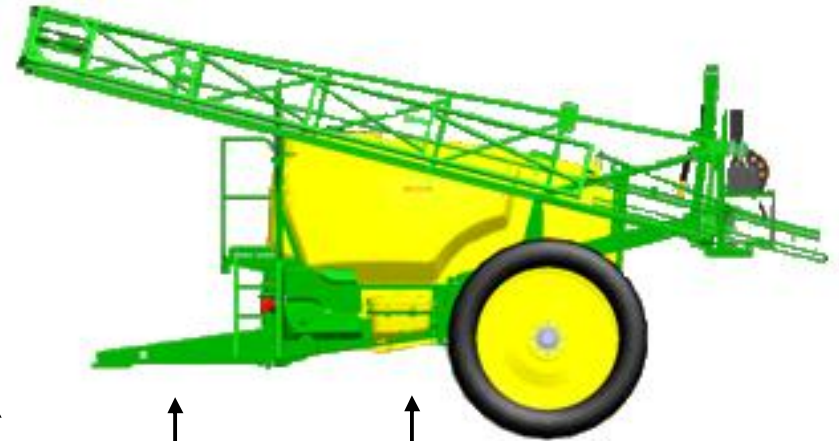


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Forward

Raven Delivery System



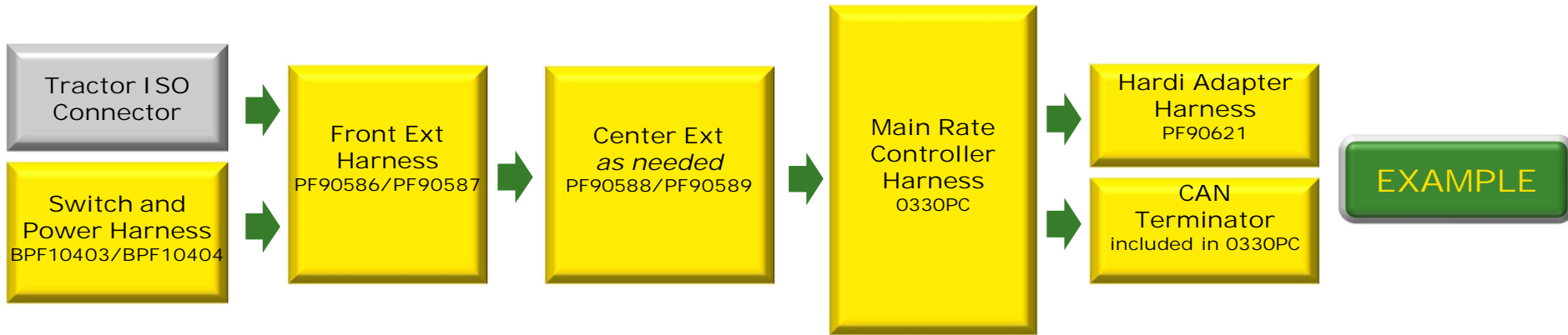


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Hardi Delivery System



Forward



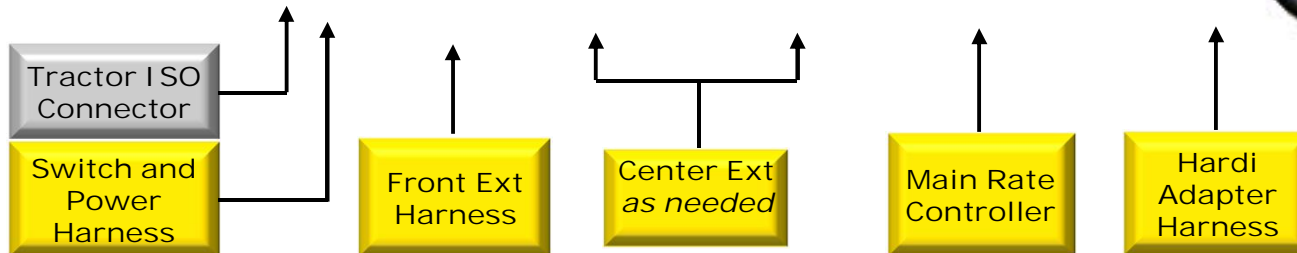


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Forward

Hardi Delivery System



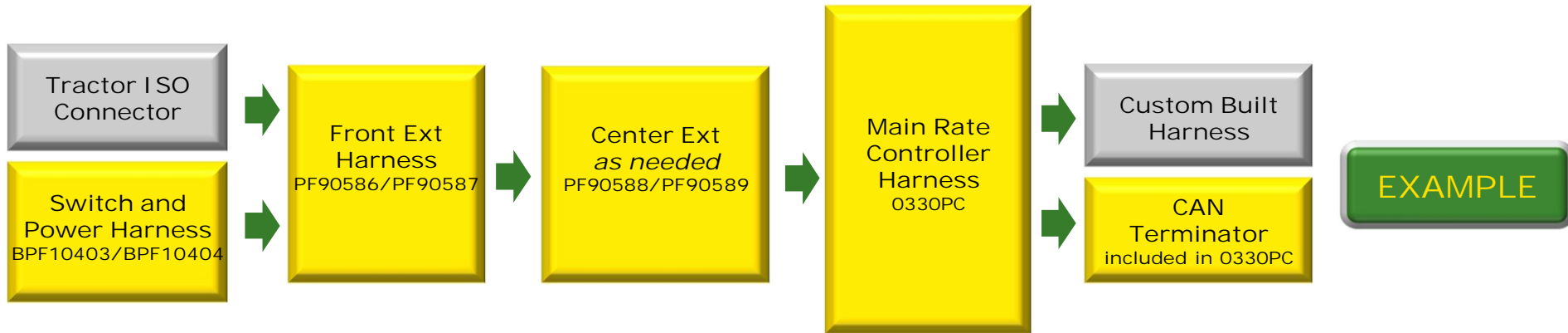


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Other Delivery Systems



Forward



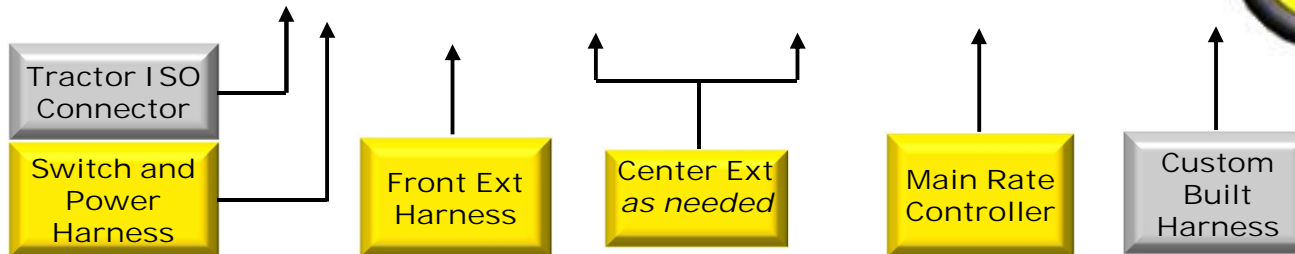
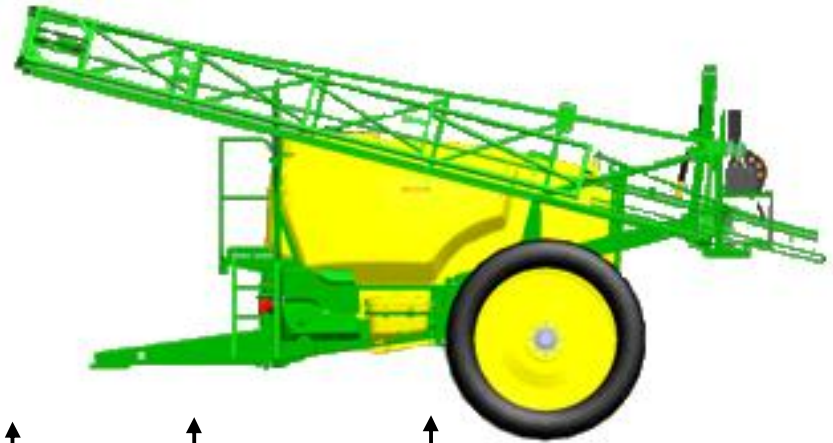


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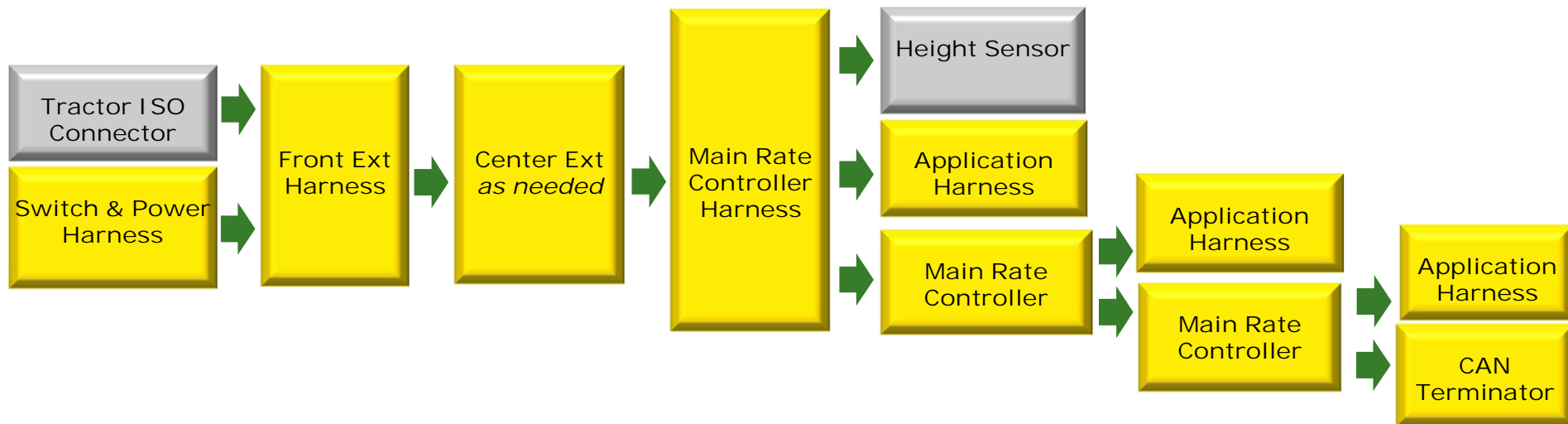
Forward

Other Delivery Systems



Multiple Rate Controllers

Up to four GreenStar™ Rate Controllers can be connected on one CAN Bus. The Rate Controllers are connected using the Main Rate Controller Harness.



NOTES

HEIGHT SWITCHES

WHEN CONNECTING MULTIPLE RATE CONTROLLERS TO ONE CAN BUS, ONLY ONE IMPLEMENT HEIGHT SWITCH IS REQUIRED. THE HEIGHT INDICATOR MAY BE INSTALLED ON ANY RATE CONTROLLER, NOT NECESSARILY THE FIRST CONTROLLER IN THE CHAIN. THE CONTROLLER THAT HAS THE HEIGHT INDICATOR WILL NEED TO BE SETUP TO SEND THE HEIGHT SIGNAL AND ALL OTHER RATE CONTROLLER(S) IN THE CHAIN WILL NEED TO BE SETUP TO RECEIVE THE SIGNAL. REFER TO THE OPERATOR'S MANUAL FOR MORE INFORMATION.

HIGH CURRENT APPLICATIONS

WHEN USING MULTIPLE RATE CONTROLLERS WITH A LARGER NUMBER OF SECTIONS, AN ADDITIONAL SOURCE OF HIGH CURRENT POWER MAY BE REQUIRED. CLICK [HERE](#) FOR MORE INFORMATION.

MULTI PRODUCT EXAMPLES





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Choose Your Multi Product Configuration



Forward

Planter
(Seed + 1 Liquid)

SeedStar™ 2

Non SeedStar™ or GenI
SeedStar™

GenII SeedStar™

Kinze

Air Cart
(Seed/Dry + NH₃)

Tow-Behind Carts

Tow-Between Carts

CCS Air Seeders
(Seed + NH₃)

SeedStar™ 2

Non SeedStar™ or GenI
SeedStar™

GenII SeedStar™





Back

Choose Your Planter Configuration



Forward

SeedStar™ 2

Row Command™

1/2 or 1/3 Width Disconnects

Tru Count Row Clutches





Back



Forward

Choose Your Planter Configuration

SeedStar™ 2

+

1/2 or 1/3 Width Disconnects

All 1710, All 1730, All Other Planter Models Less Than 12 Rows
(MY09 – Newer)

1720 12R and 16R, 1760 12R, 1770 12R Flex 1730,
All 1770NT, All 1790, All Deere-Bauer
(MY09 – Newer)





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Forward

Choose Your Planter Configuration

SeedStar™ 2

+

Tru Count Row Clutches

All 1710, All 1730, All Other Planter Models Less Than 12 Rows
(MY09 – Newer)

1720 12R and 16R, 1760 12R, 1770 12R Flex 1730,
All 1770NT, All 1790, All Deere-Bauer
(MY09 – Newer)





Back

Choose Your Planter Configuration



Forward

GenII SeedStar™

1/2 or 1/3 Width Disconnects

TruCount Row Clutches



Choose Your Air Cart Configuration

Tow-Behind Carts

SeedStar™

SeedStar™ + Blockage

SeedStar™ + AccuDepth™

SeedStar™ + AccuDepth™ and Blockage



Choose Your Air Cart Configuration

Tow-Between Carts

SeedStar™

SeedStar™ + Blockage

SeedStar™ + AccuDepth™

SeedStar™ + AccuDepth™ and Blockage



Multiple Rate Controllers

The tractor and implement harnesses are only capable of supporting a maximum 30 amp current load. By adding up the current draw required by each valve, the total usage can be determined. The AMPS PER CLUTCH/VALVE table includes examples of peak current draw. The HIGH CURRENT EXAMPLE table shows when a High Current Adapter Kit would be required. View manufacturer's information for additional details on amps per clutch/valve.

Amps Per Clutch/Valve

Clutch/Valve	Amps
Tru Count Section	0.44
Deere Electric Half-Width Clutch	1.44
TeeJet® Section Valve	3.83
Raven® Section Valve	5.73
Hardi® Section Valve	0.60
KZCO® Section Valve	1.00
Raven® 894 Control Valve	1.39

High Current Example

Rate Controller	Product Controlled	Clutch/Valve Details	Approximate Amperage
1	Liquid Fertilizer	6 TeeJet® Valves 1 Raven® Control Valve	25
2	NH ₃	1 Raven® Section Valve 1 Raven® Control Valve	7
3	Seed	12 Tru Count Sections	5

[CLICK HERE FOR AN VIEW OF A HIGH CURRENT EXAMPLE](#)

If you determine the implement's electrical current demand will exceed 30 amps, divide the implement electrical circuits into two power circuits and install the appropriate High Current Power Adapter Harness Kits below:

One Required

HIGH CURRENT POWER ADAPTER –
ROW CROP TRACTORS

HIGH CURRENT POWER ADAPTER –
4WD TRACTORS

One Required

HIGH CURRENT POWER EXTENSION – 3m

HIGH CURRENT POWER EXTENSION – 10m



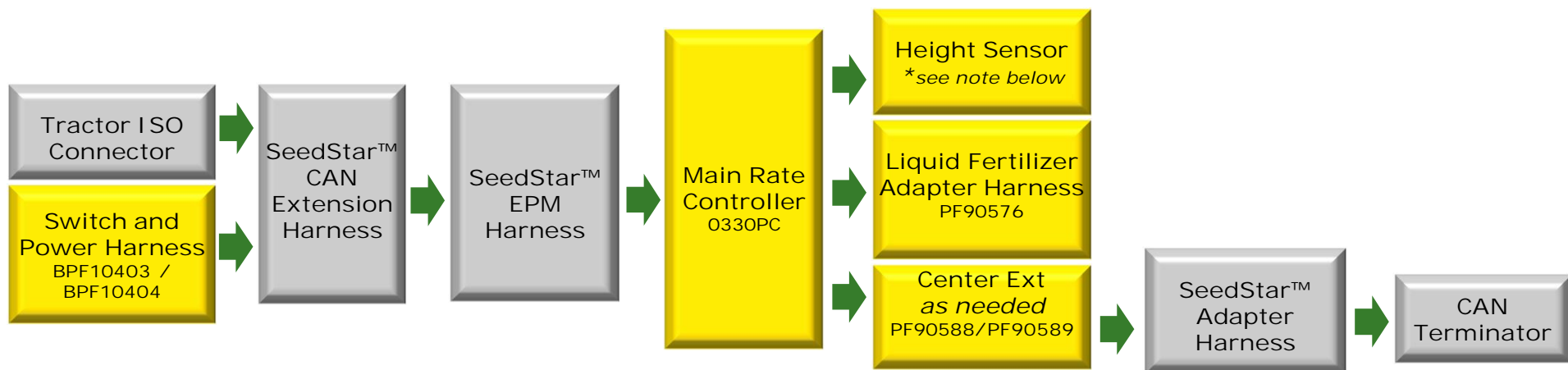


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SeedStar™2 + RowCommand



Forward



NOTES

HEIGHT SWITCHES FOR PLANTERS

PURCHASING:

THE GREENSTAR SYSTEM REQUIRES A DEDICATED HEIGHT INDICATOR. THERE ARE TWO OPTIONS FOR PLANTERS:

❑ PARTS:

PLANTER HEIGHT SWITCH – LONG PARALLEL ARMS

PLANTER HEIGHT SWITCH – REGULAR PARALLEL ARMS

❑ AMS PRICE PAGES:

IMPLEMENT HEIGHT SENSOR

INSTALLATION:

FOR MULTI-PRODUCT APPLICATIONS, THE HEIGHT INDICATOR MAY BE INSTALLED ON ANY RATE CONTROLLER, NOT NECESSARILY THE FIRST CONTROLLER IN THE CHAIN. THE CONTROLLER THAT HAS THE HEIGHT INDICATOR WILL NEED TO BE SETUP TO SEND THE HEIGHT SIGNAL AND ALL OTHER RATE CONTROLLER(S) IN THE CHAIN WILL NEED TO BE SETUP TO RECEIVE THE SIGNAL. REFER TO THE OPERATOR'S MANUAL FOR MORE INFORMATION.

EXAMPLE



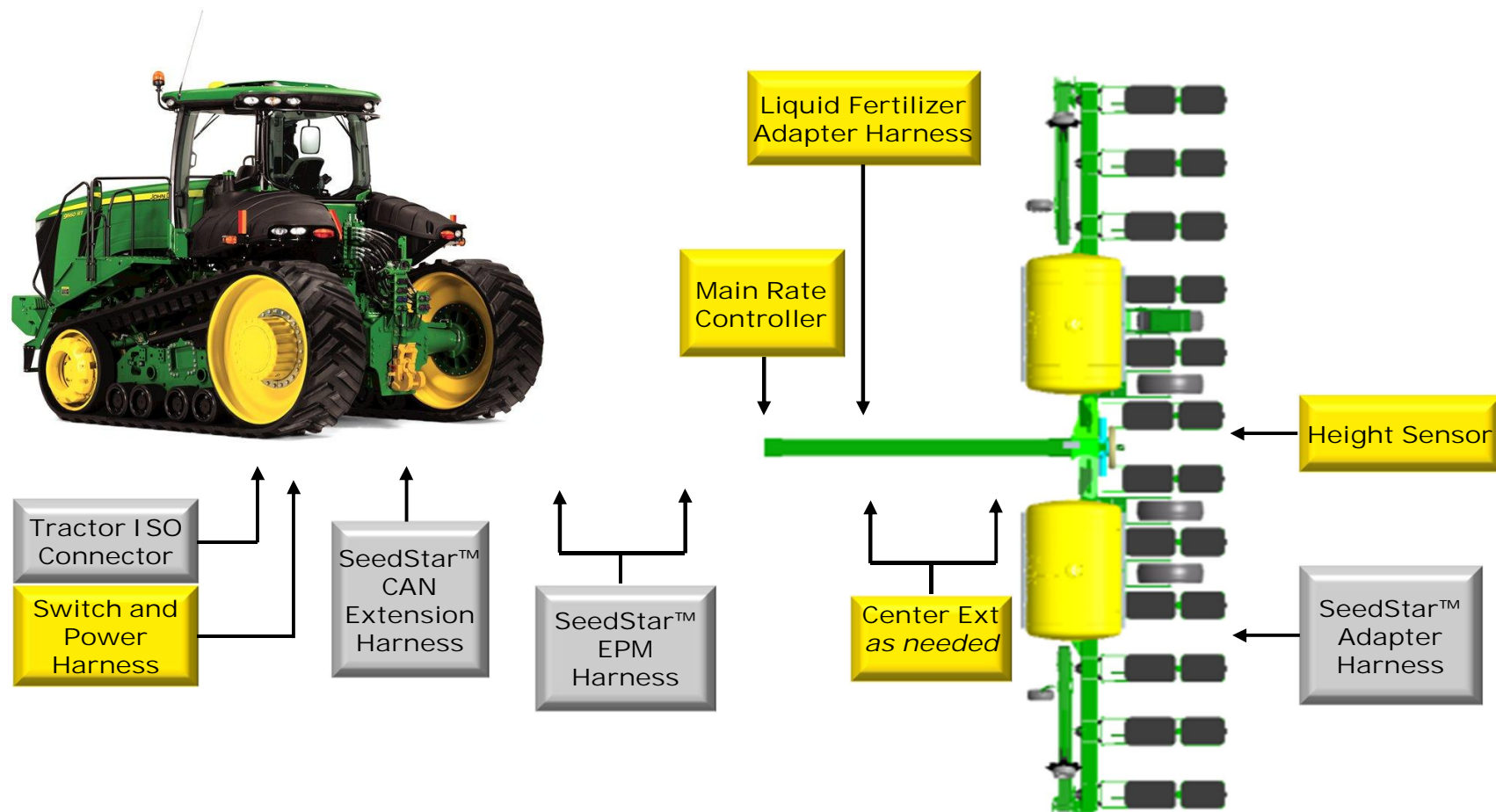


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SeedStar™2 + RowCommand





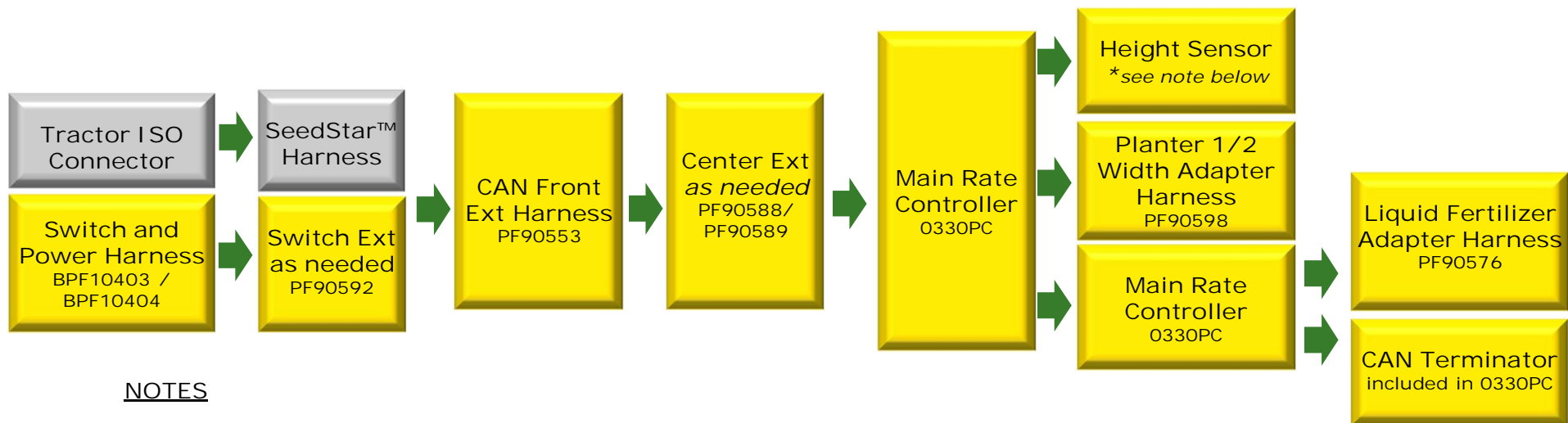
Back

SeedStar™ 2 + 1/2 or 1/3 Width Disconnects



Forward

All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)



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EXAMPLE



SeedStar™2 + 1/2 or 1/3 Width Disconnects

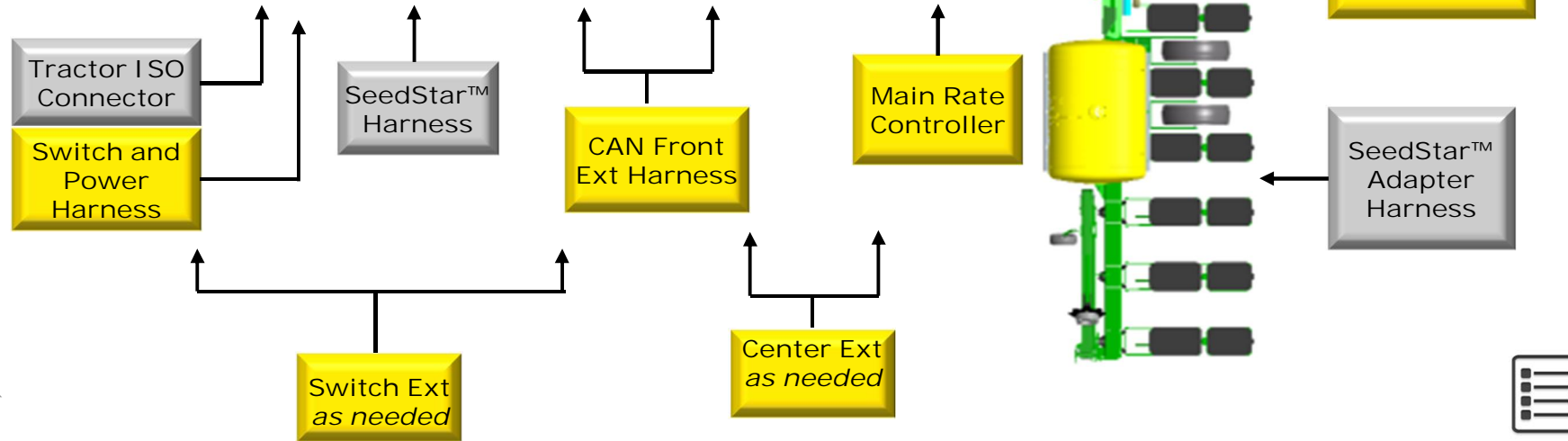
All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)



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Forward





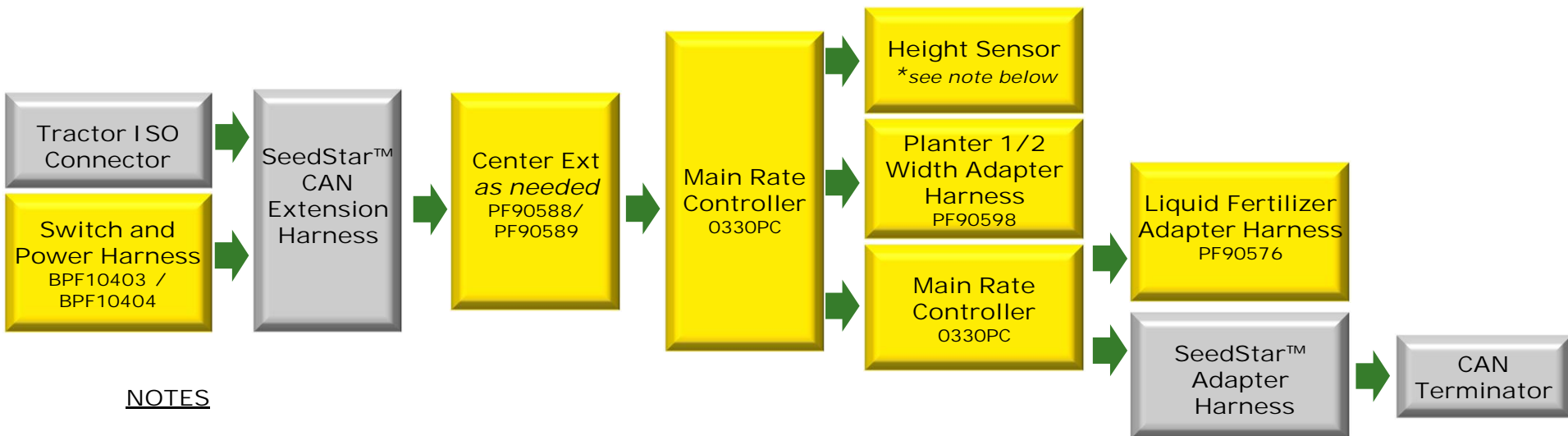
Back

SeedStar™ 2 + 1/2 or 1/3 Width Disconnects



Forward

1720 12R and 16R, 1760 12R, 1770 12R Flex 1730, All 1770NT, All 1790, All Deere-Bauer (MY09 – Newer)



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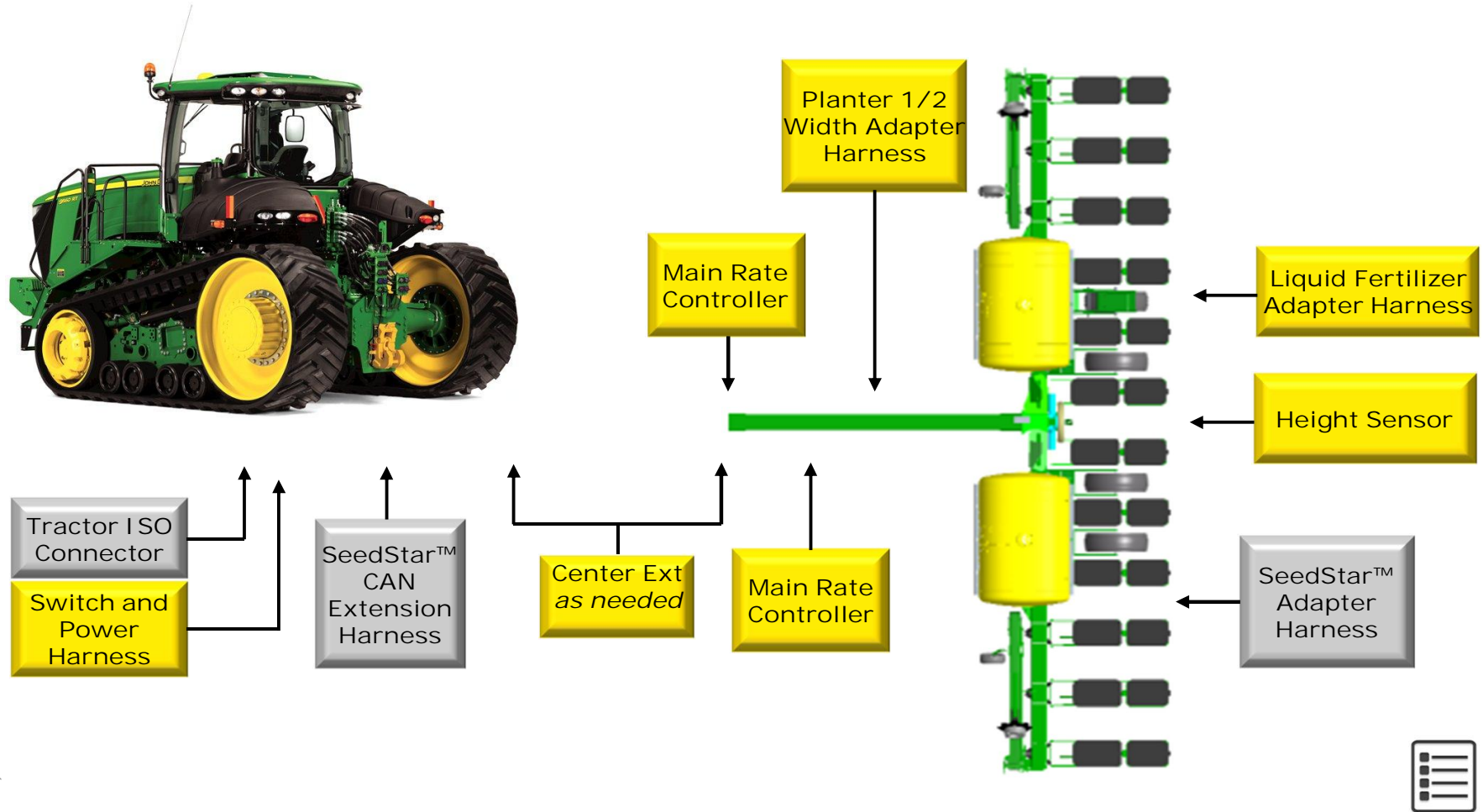
Back

SeedStar™ 2 + 1/2 or 1/3 Width Disconnects



Forward

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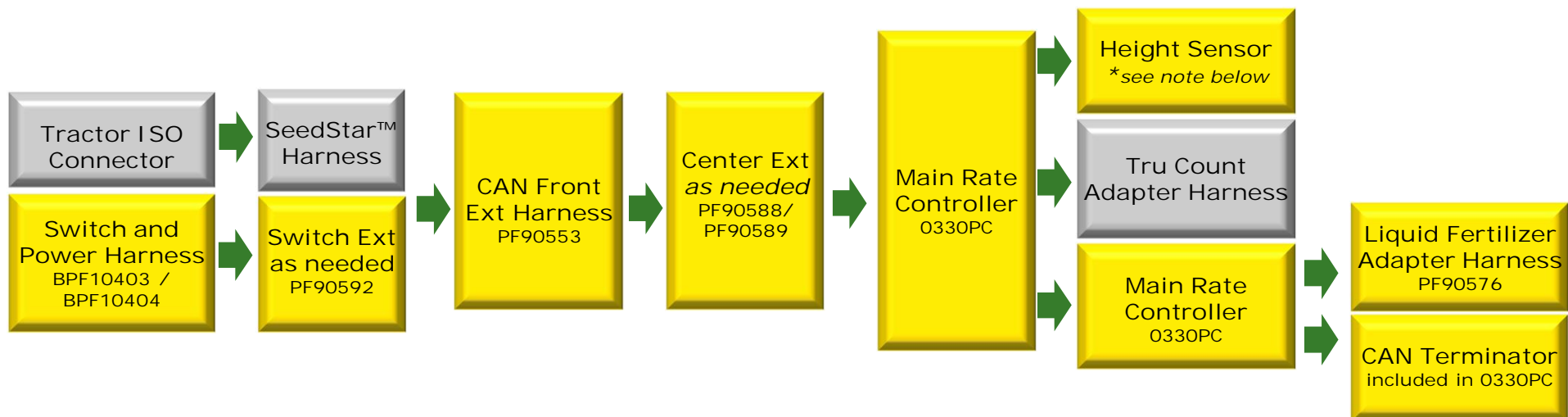
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SeedStar™2 + TruCount Clutches

All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)



Forward



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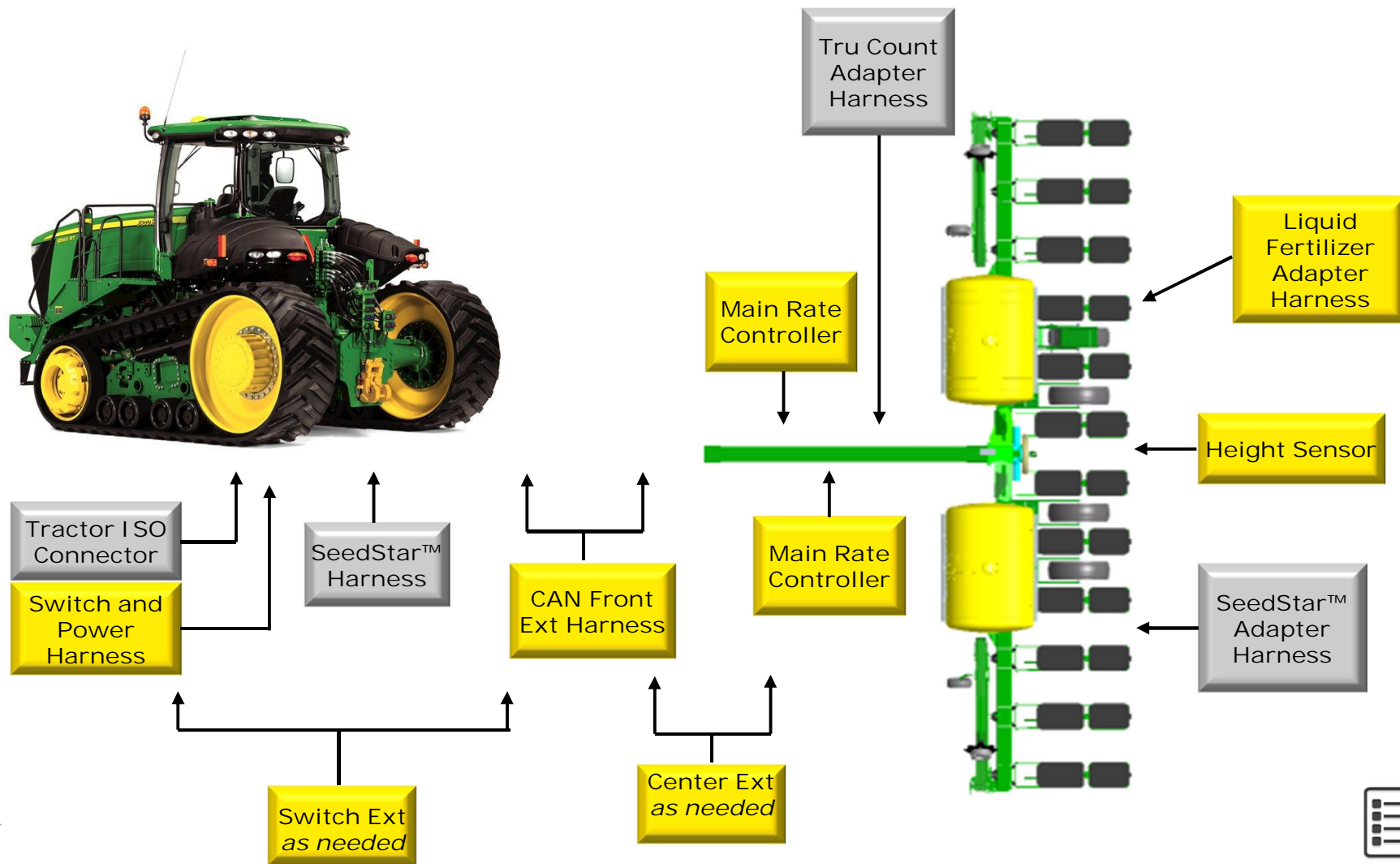
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SeedStar™2 + TruCount Clutches

All 1710, All 1730, All other models less than 12 rows (MY09 – Newer)



Forward





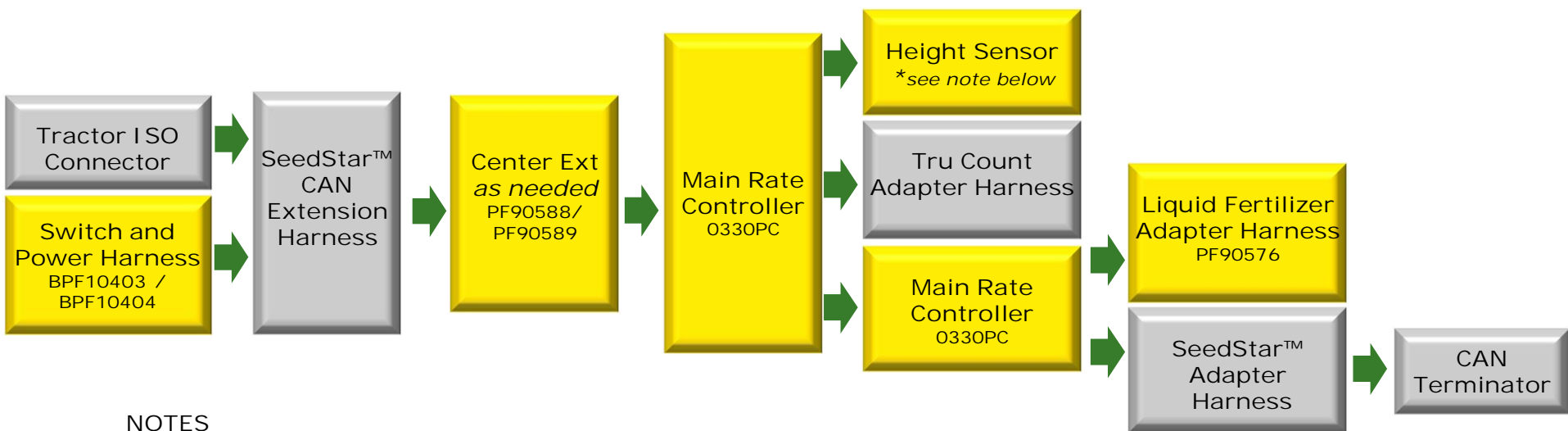
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Forward

SeedStar™2 + TruCount Clutches

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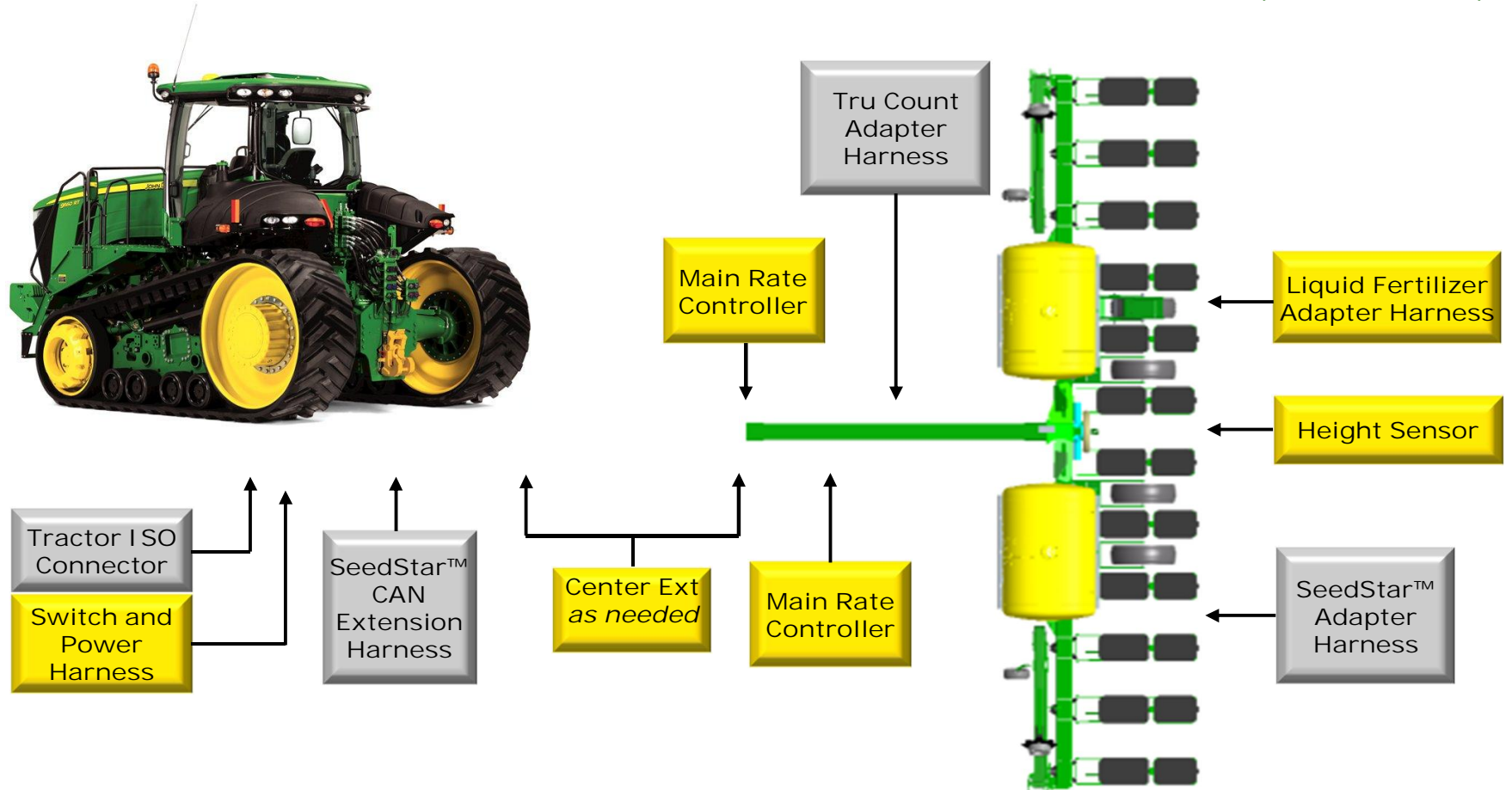
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SeedStar™2 + TruCount Clutches

1720 12R and 16R, 1760 12R, 1770 12R Flex 1730, All 1770NT, All 1790, All Deere-Bauer (MY09 – Newer)



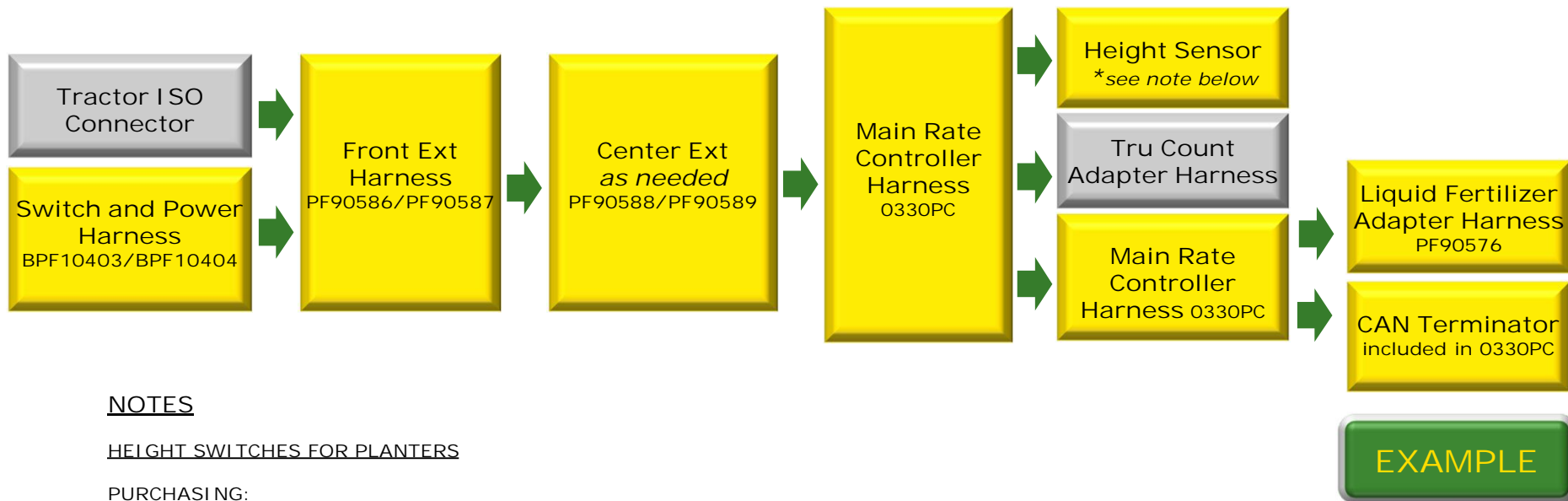


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Forward

Non SeedStar™ or Gen I SeedStar™ with separate CAN Bus + Tru Count Clutches



NOTES

HEIGHT SWITCHES FOR PLANTERS

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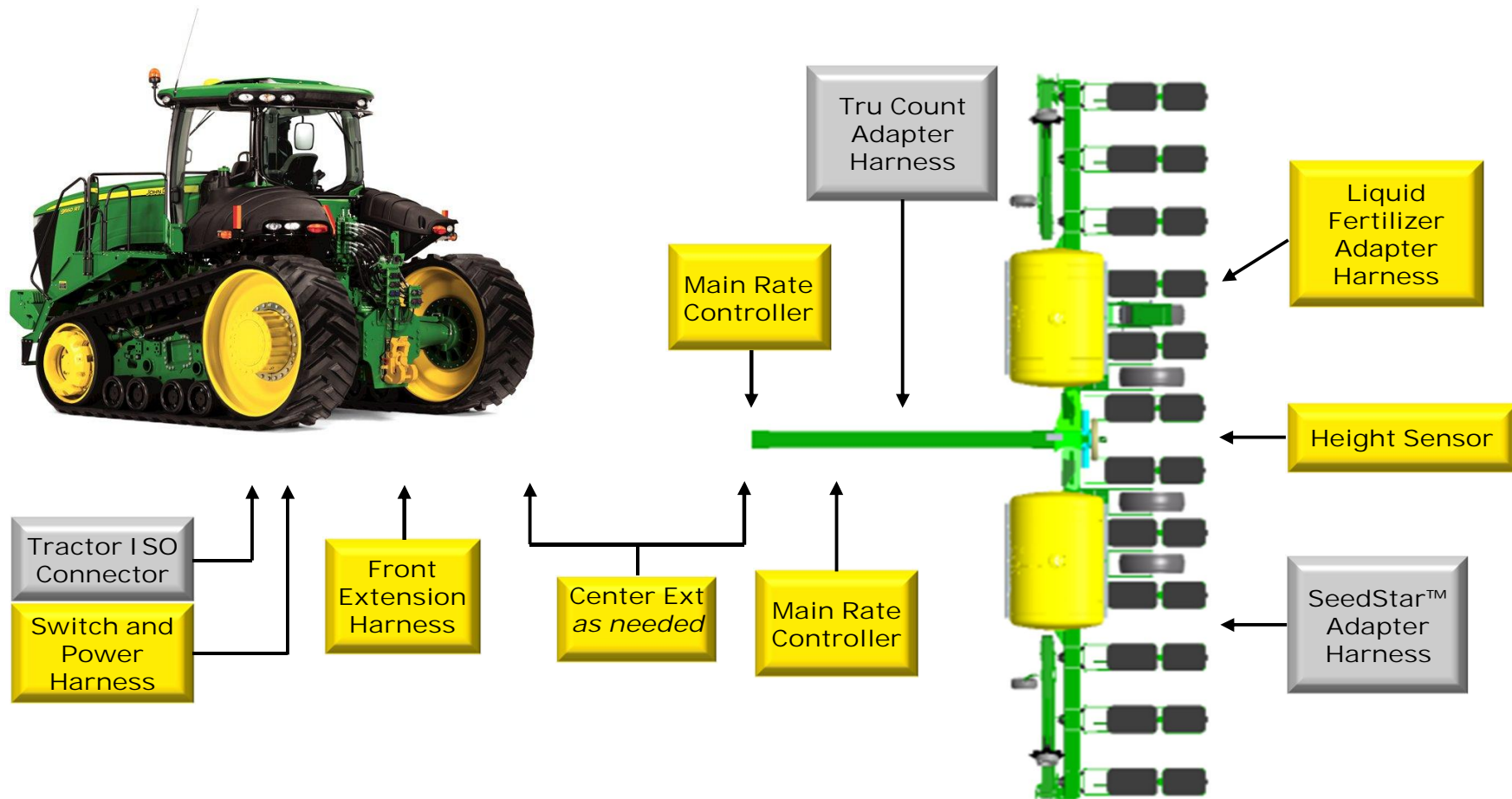
IMPLEMENT HEIGHT SENSOR

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Non SeedStar™ or Gen I SeedStar™ with separate CAN Bus + Tru Count Clutches



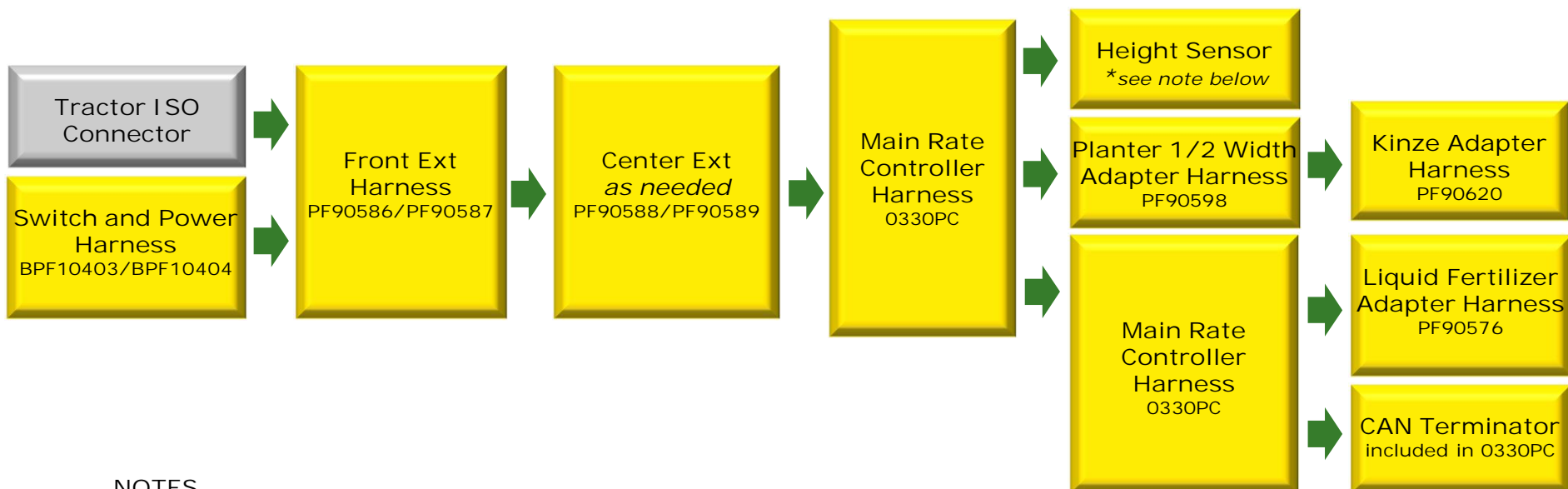


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Kinze Planter + 1/2 or 1/4 Disconnects



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NOTES

HEIGHT SWITCHES FOR PLANTERS

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IMPLEMENT HEIGHT SENSOR

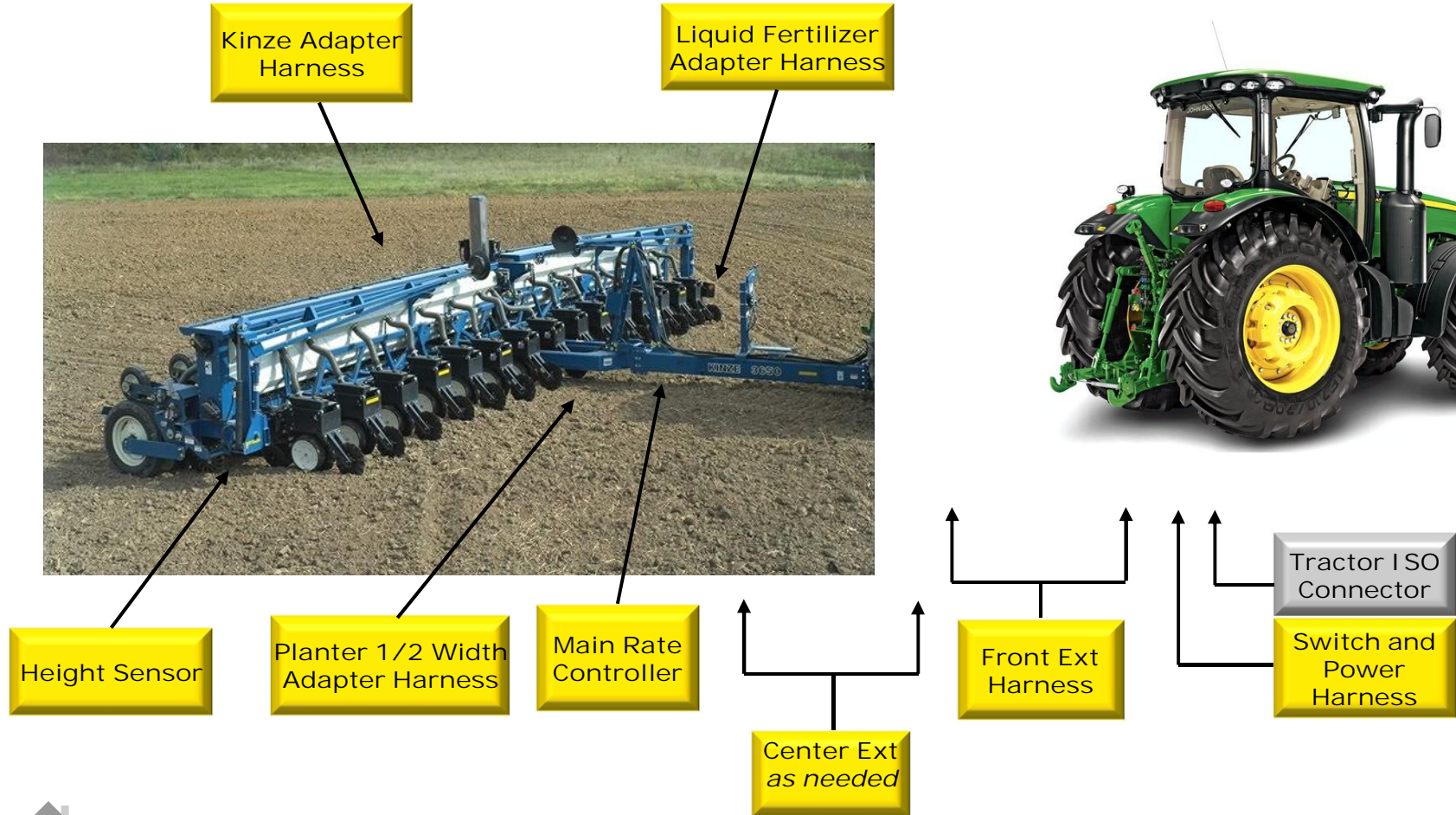
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EXAMPLE



Kinze Planter + 1/2 or 1/4 Disconnects



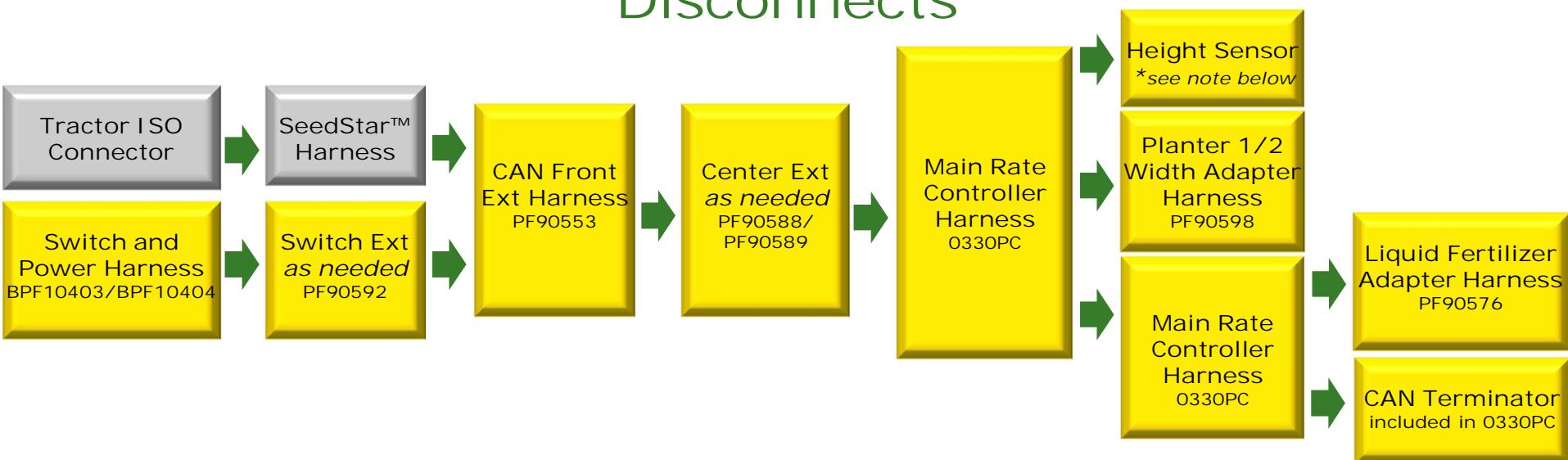


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Gen II SeedStar™ + 1/2 or 1/3 Disconnects



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NOTES

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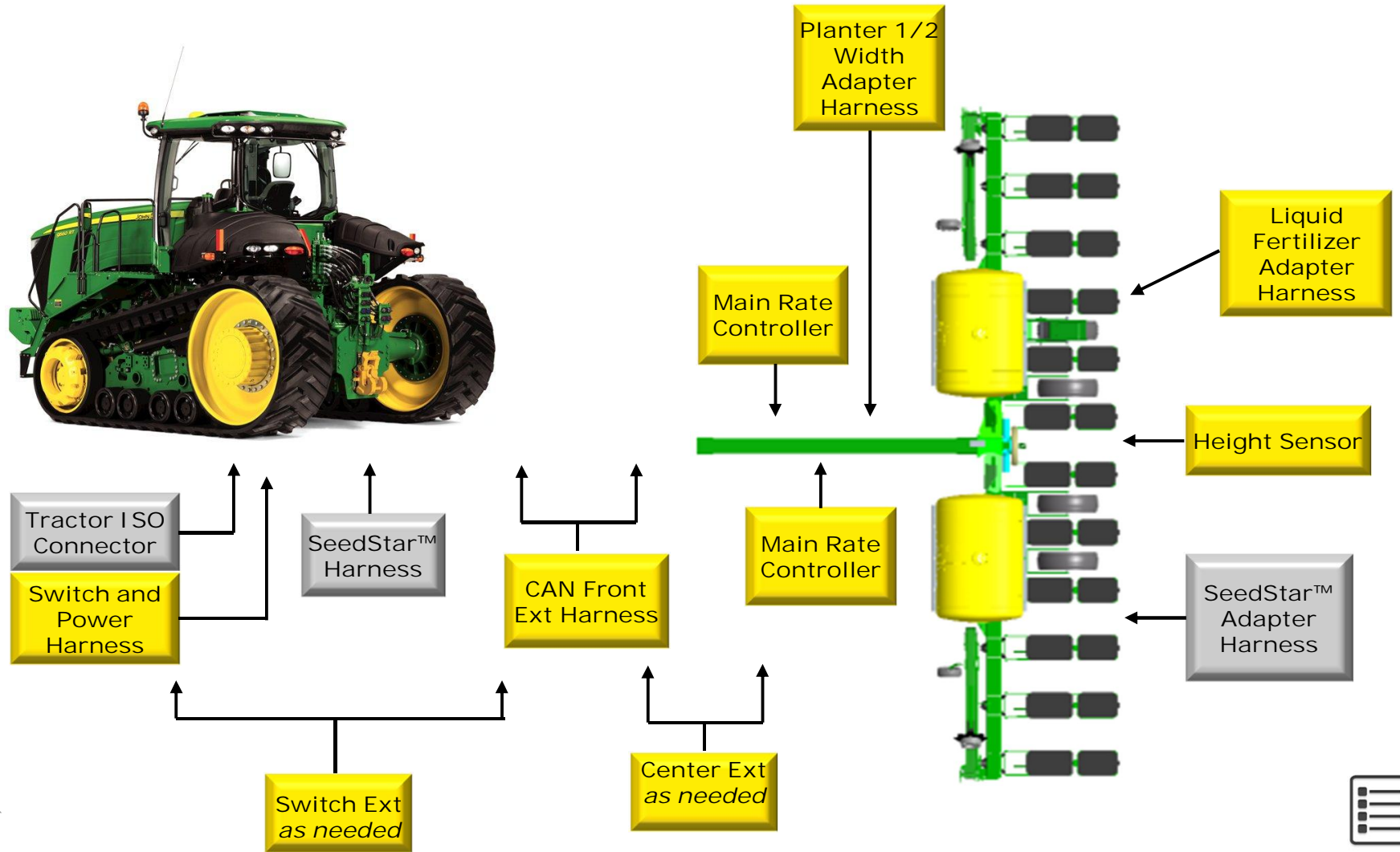
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EXAMPLE



Gen II SeedStar™ + 1/2 or 1/3 Disconnects



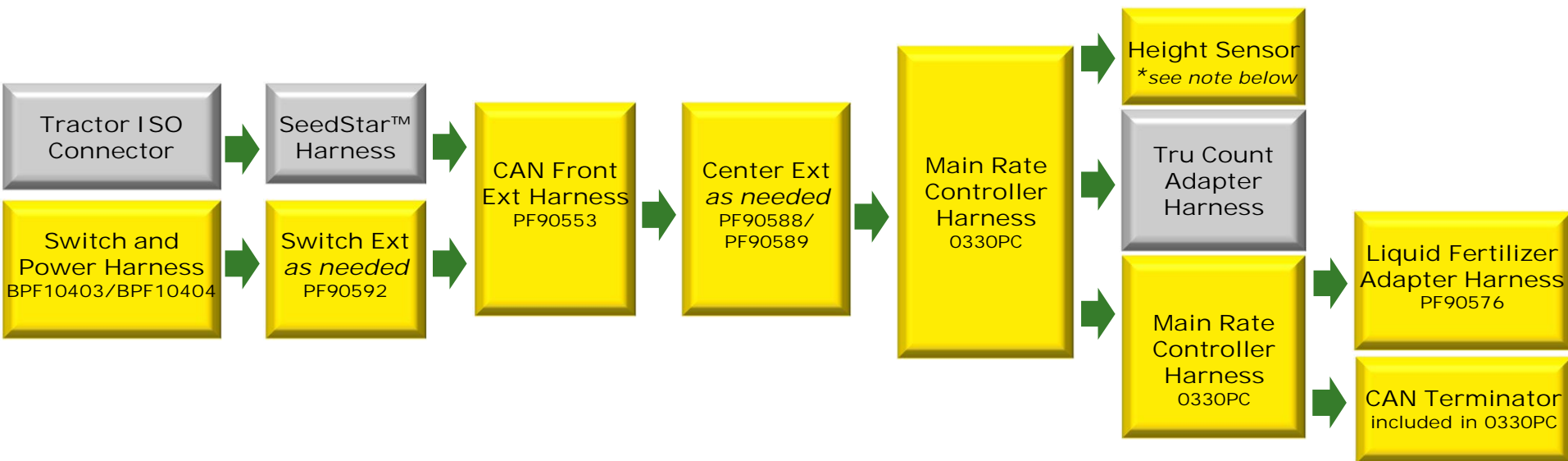


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Gen II SeedStar™ + Tru Count Clutches



Forward



NOTES

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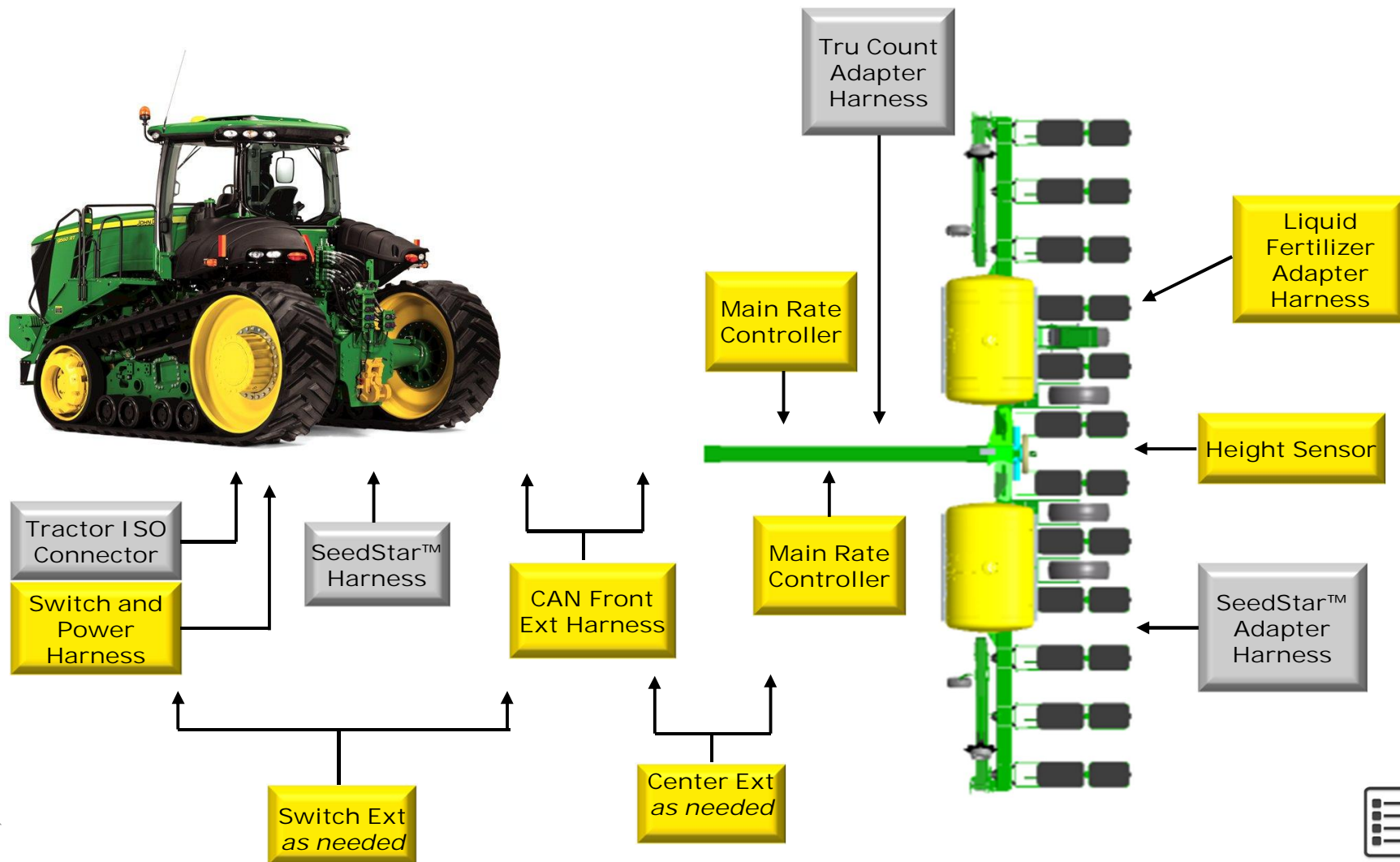
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EXAMPLE



Gen II SeedStar™ + Tru Count Clutches



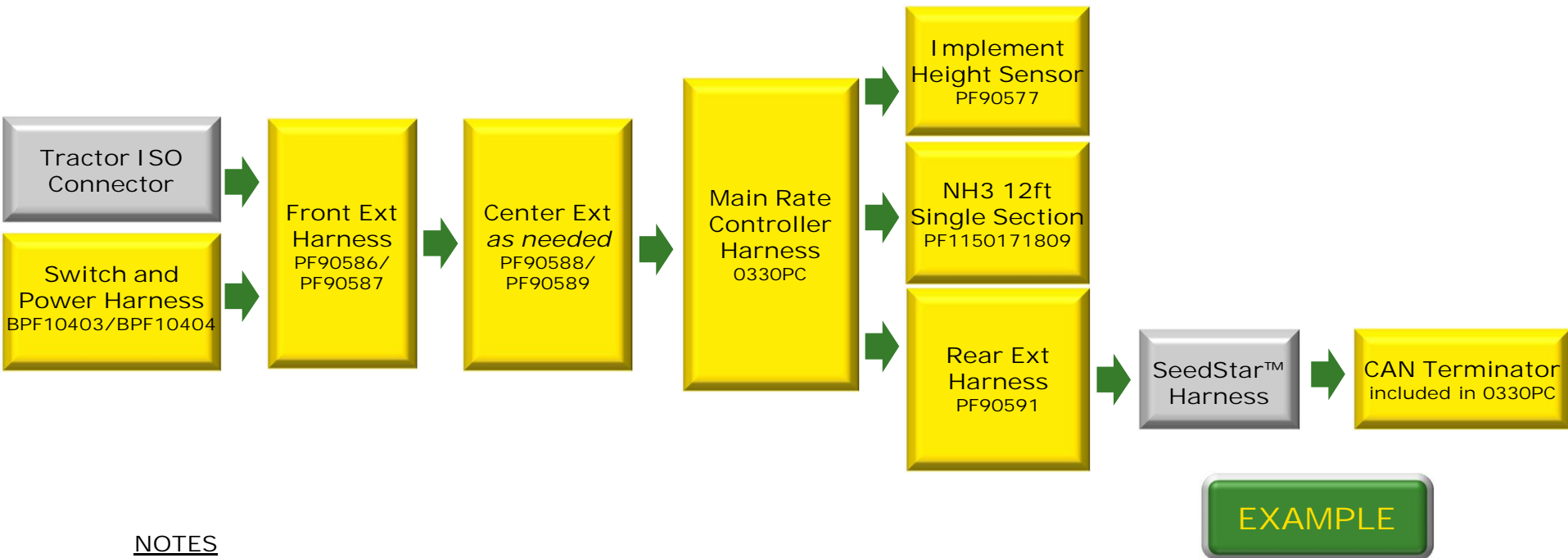


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SeedStar™



Forward



NOTES

GEN II SEEDSTAR™

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- ❑ IF A RATE CONTROLLER IS ADDED FOR ADDITIONAL PRODUCT CONTROL (I.E. NH3 CONTROL), SECTION CONTROL WILL BE ENABLED FOR THIS PRODUCT ONLY

SEEDSTAR™2

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AIR CART RULES

CONNECTOR DETAILS

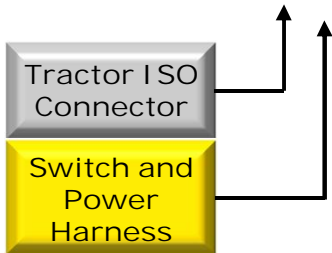


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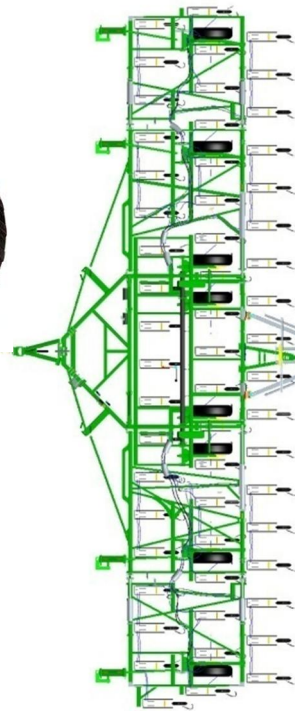
SeedStar™



Forward



Front Ext
Harness



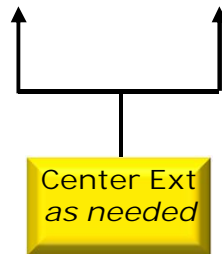
Main Rate
Controller

Rear Ext
Harness

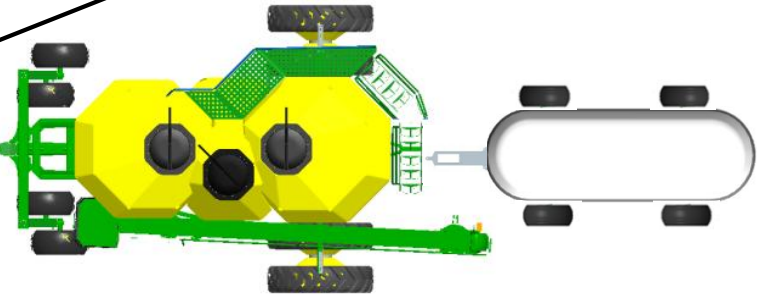
SeedStar™
Harness

Implement
Height Sensor

NH3 12ft
Single Section



Center Ext
as needed



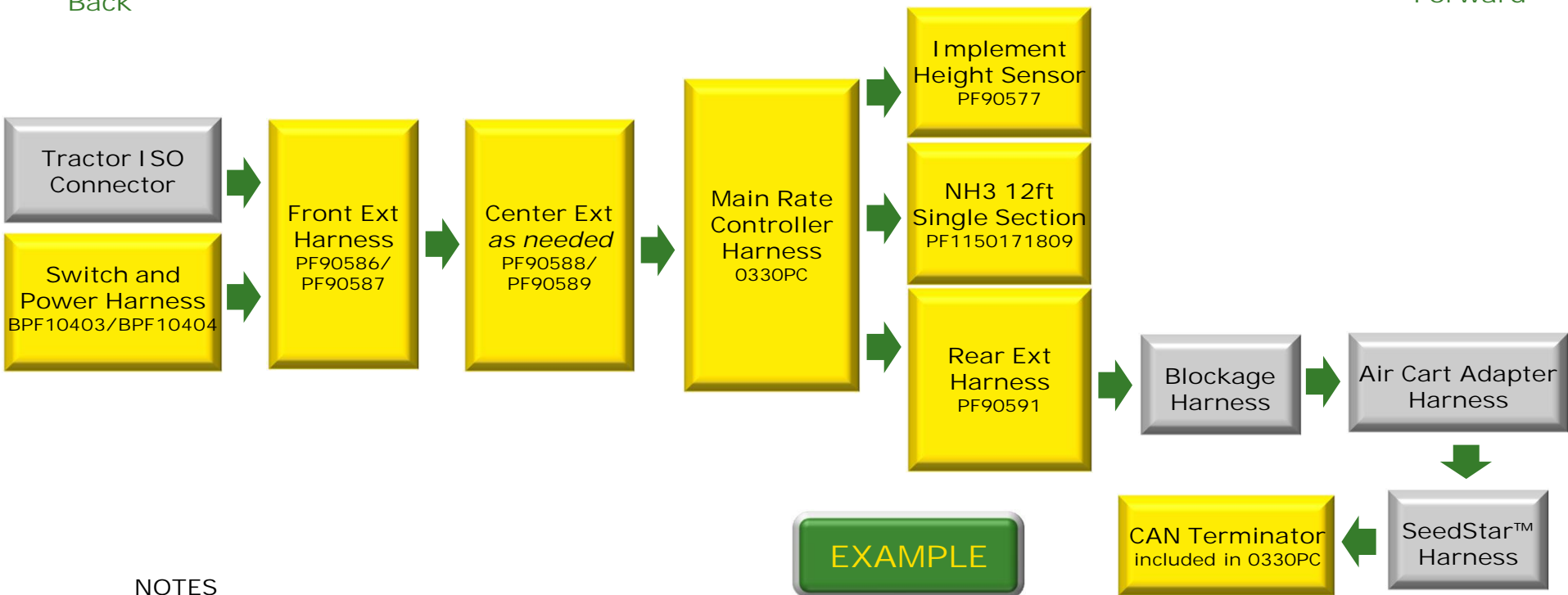


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SeedStar™ + Blockage



Forward



EXAMPLE

NOTES

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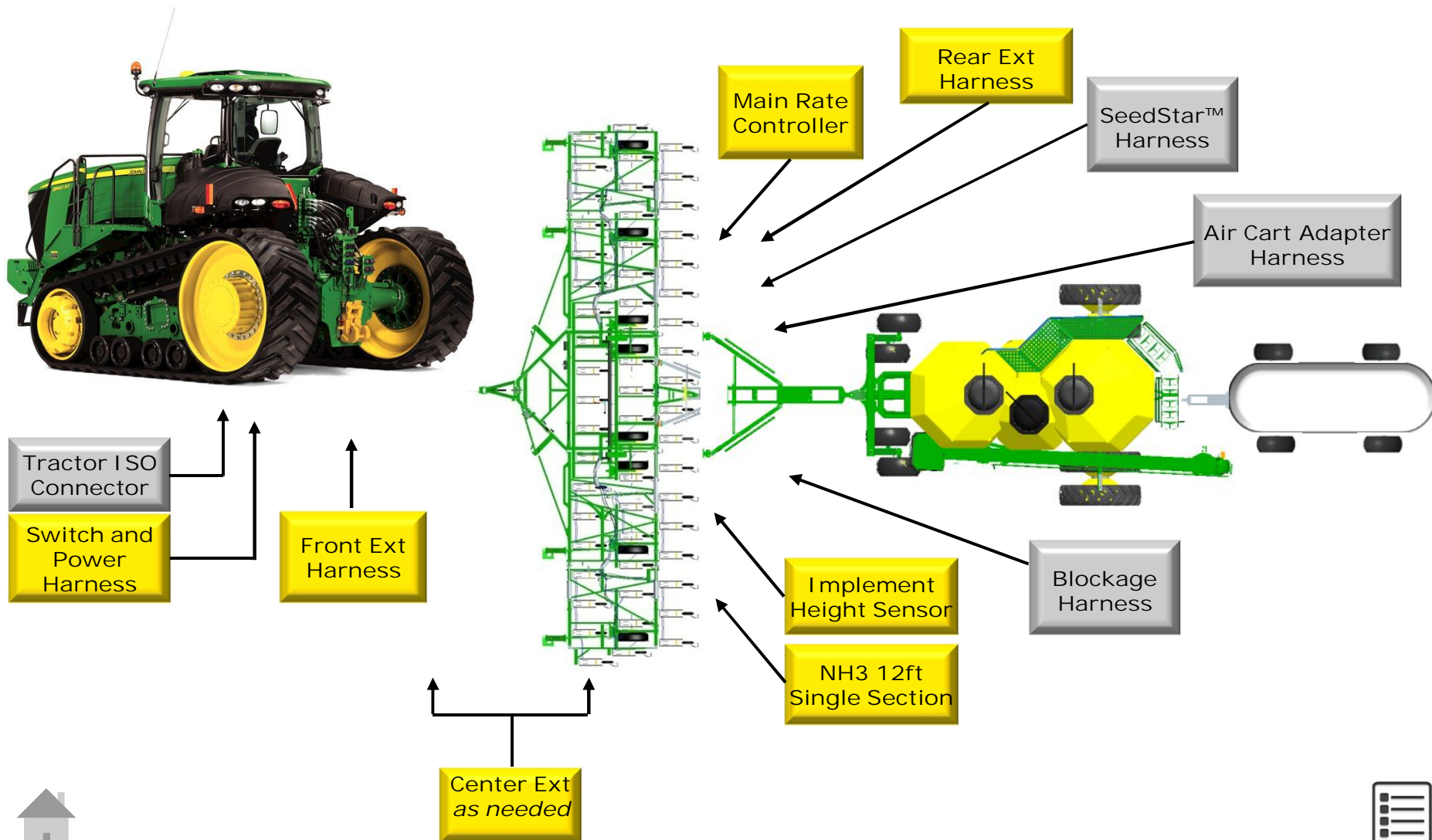


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SeedStar™ + Blockage



Forward



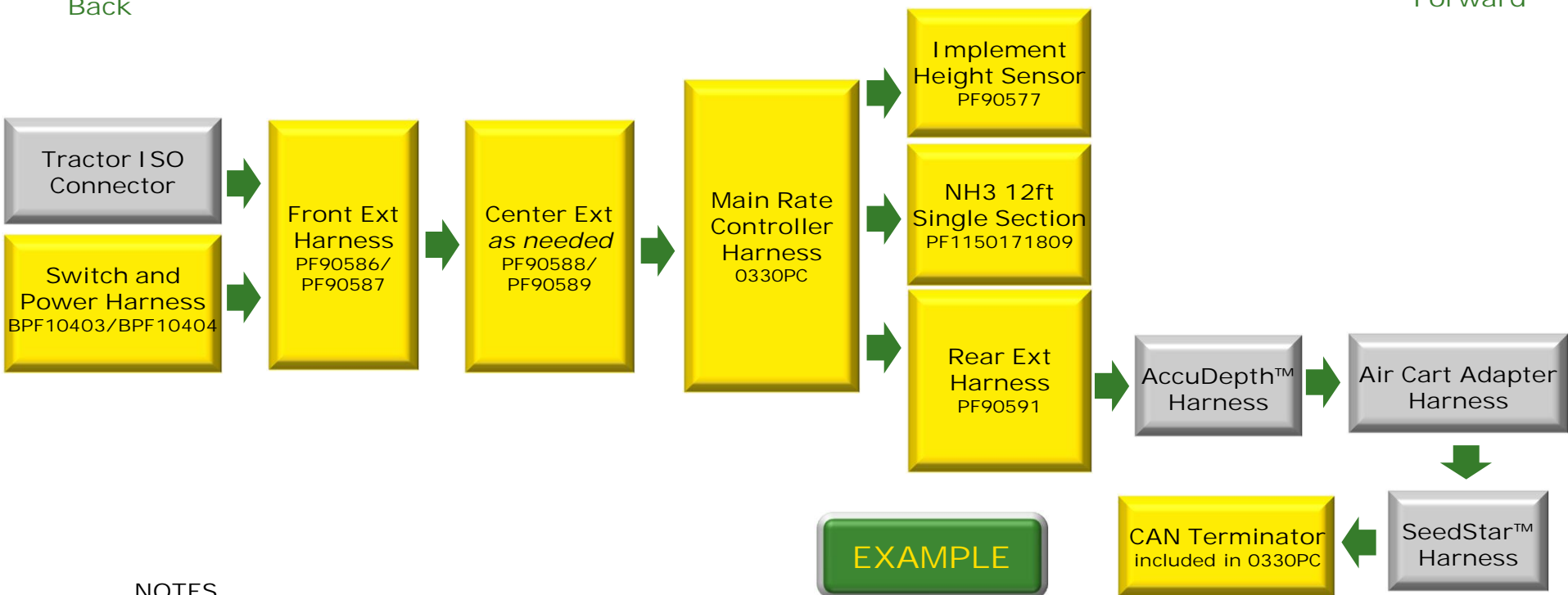


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SeedStar™ + AccuDepth™



Forward



NOTES

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AIR CART RULES

CONNECTOR DETAILS

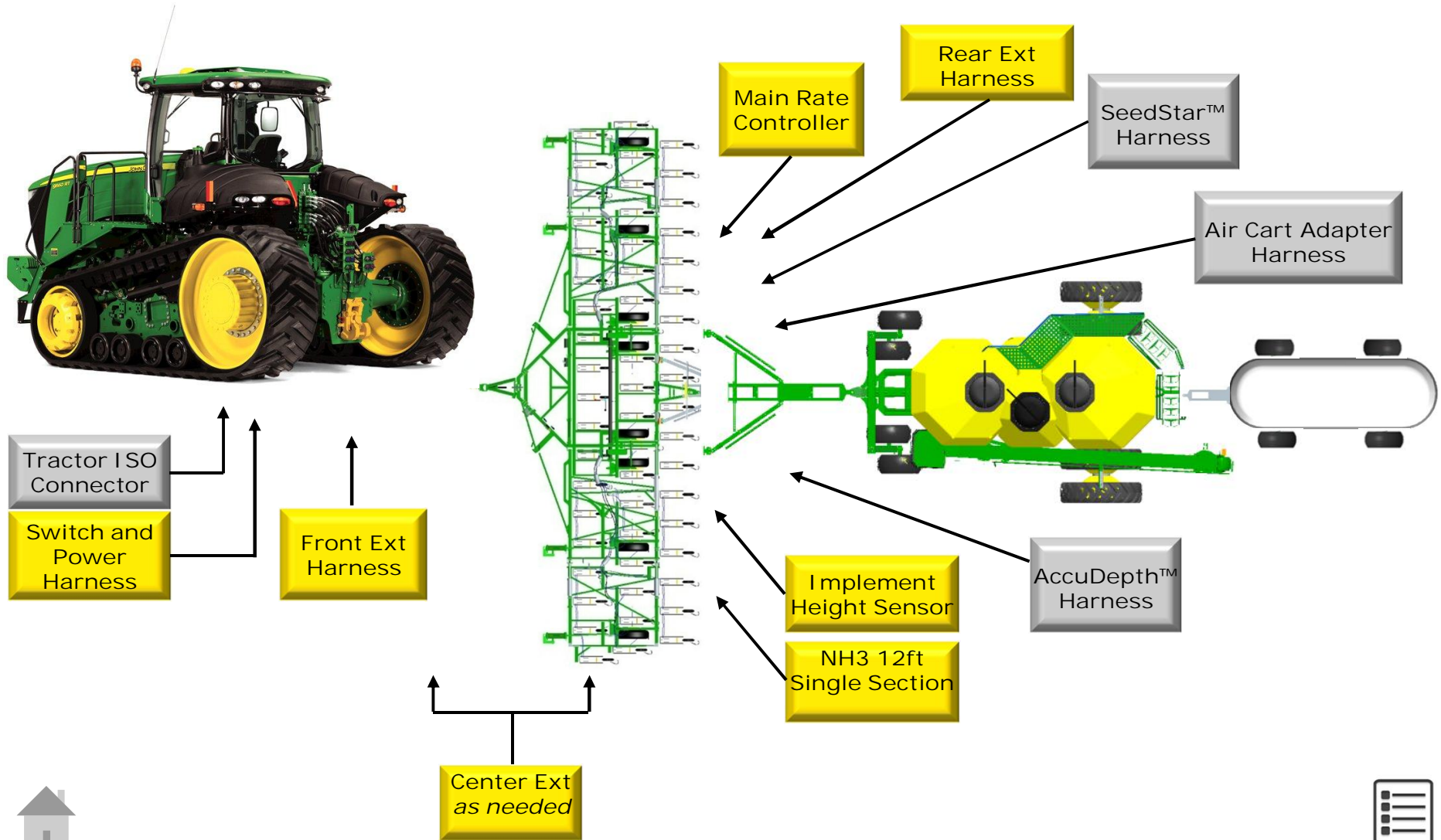


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SeedStar™ + AccuDepth™



Forward



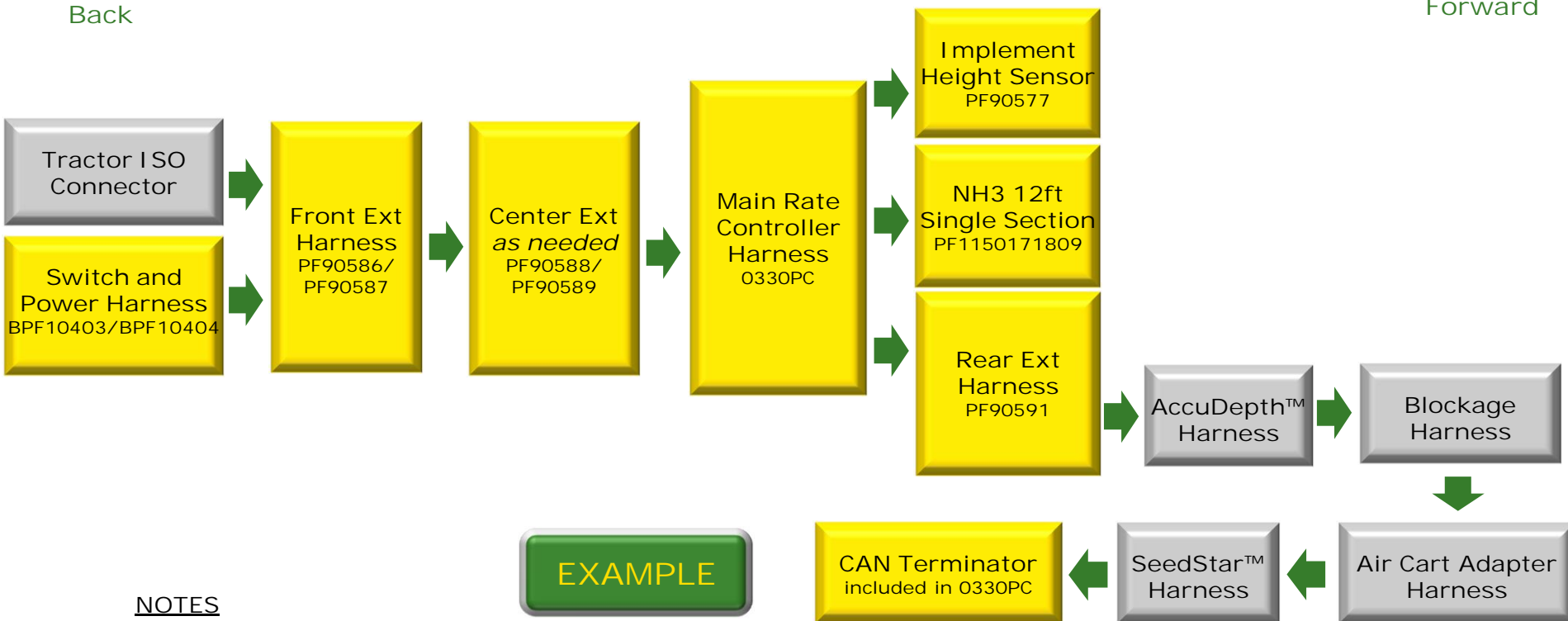


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SeedStar™ + AccuDepth™ + Blockage



Forward



EXAMPLE

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AIR CART RULES

CONNECTOR DETAILS

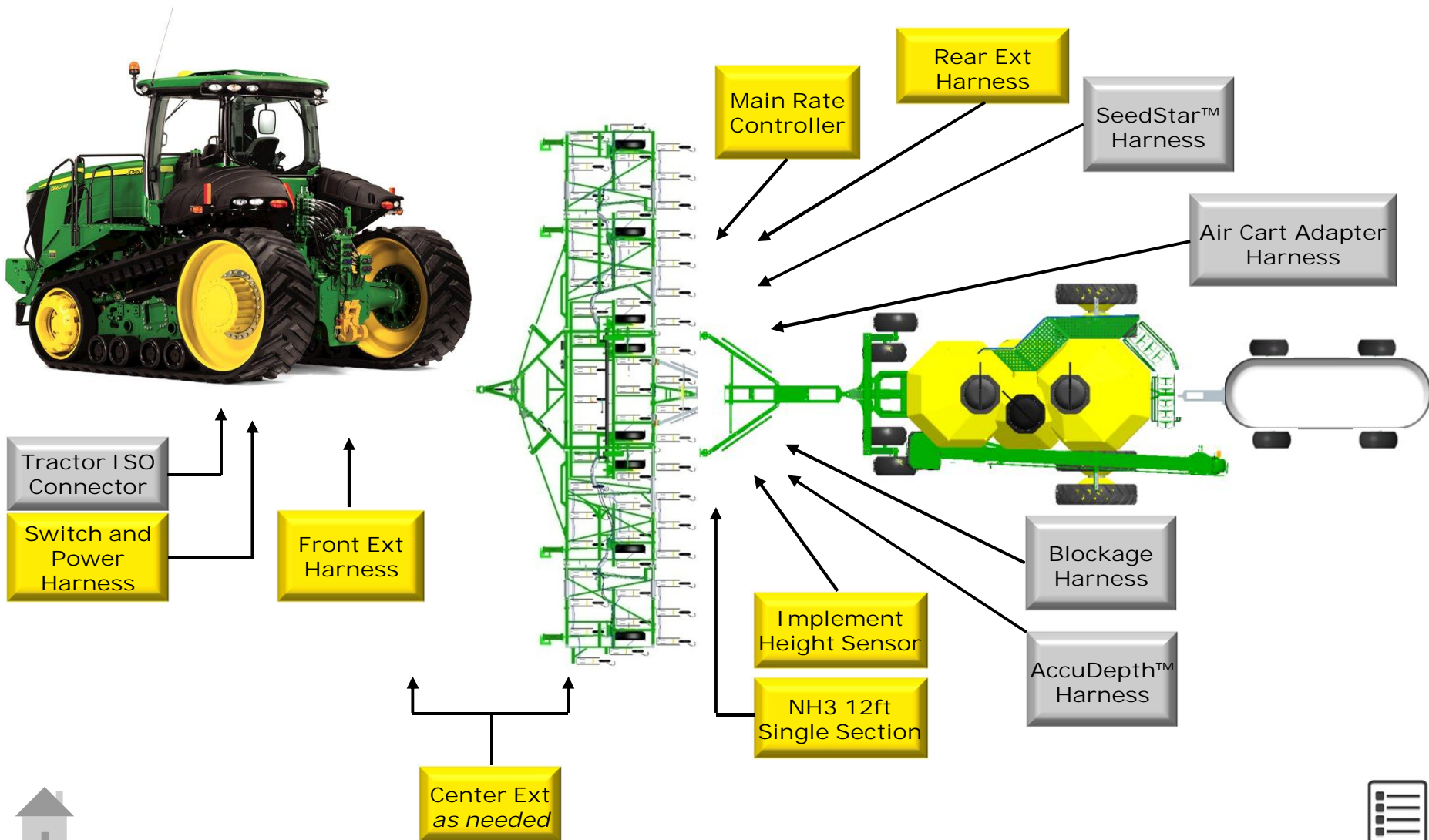


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SeedStar™ + AccuDepth™ + Blockage



Forward



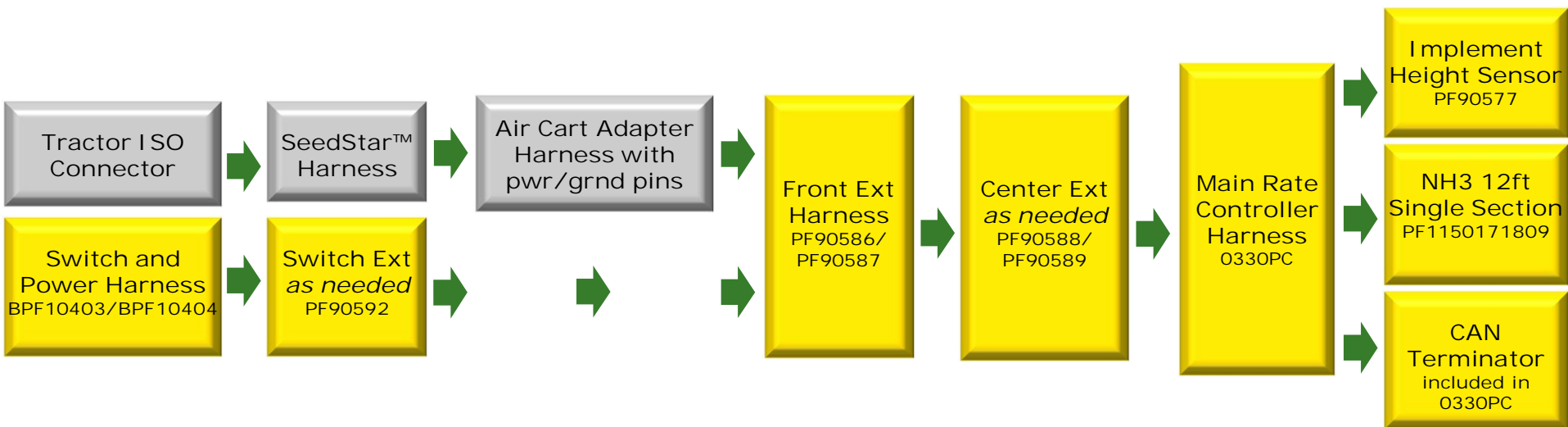


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SeedStar™



Forward



EXAMPLE

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AIR CART RULES

CONNECTOR DETAILS



Back

SeedStar™



Forward



Tractor ISO
Connector

Switch and
Power
Harness

SeedStar™
Harness

Switch Ext
as needed

Air Cart Adapter
Harness

Front Ext
Harness

Main Rate
Controller

Implement
Height Sensor

NH3 12ft
Single Section

Center Ext
as needed



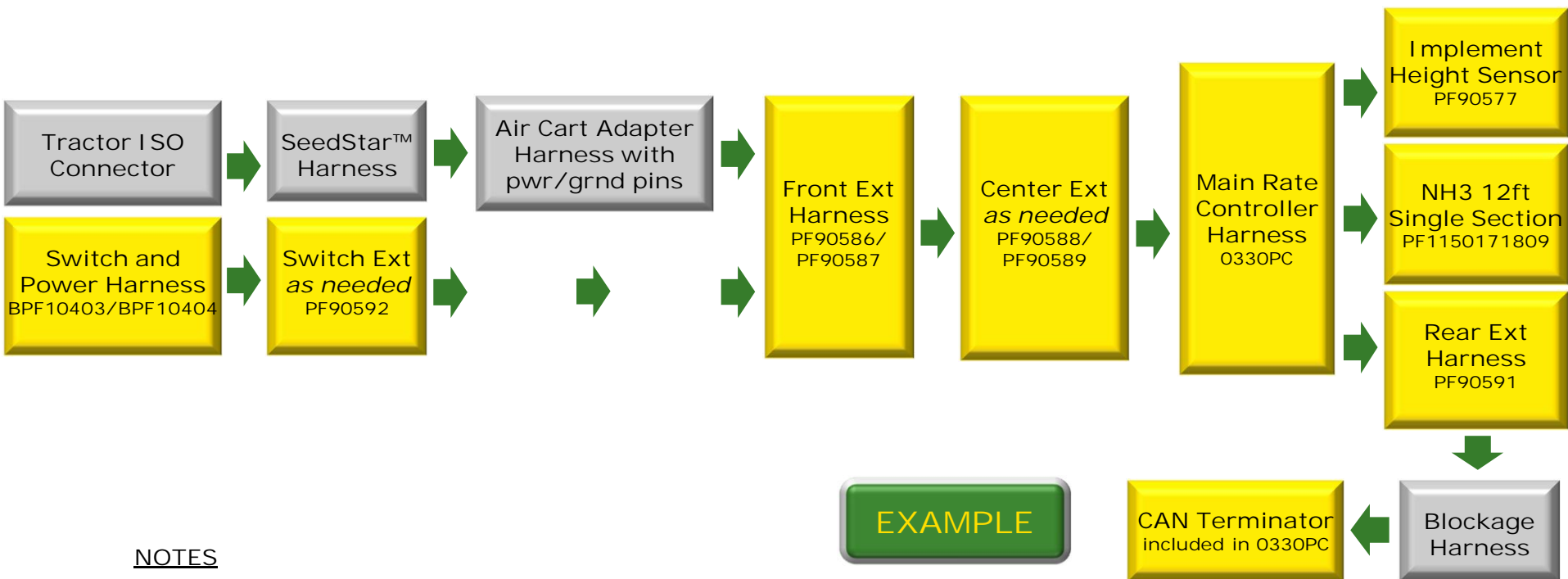


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SeedStar™ + Blockage



Forward



EXAMPLE

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AIR CART RULES

CONNECTOR DETAILS



Back

SeedStar™ + Blockage



Forward



Tractor ISO Connector

Switch and Power Harness

SeedStar™ Harness

Switch Ext
as needed

Air Cart Adapter Harness

Front Ext Harness

Main Rate Controller

Blockage Harness

Implement Height Sensor

NH3 12ft Single Section

Rear Extension Harness

Center Ext
as needed



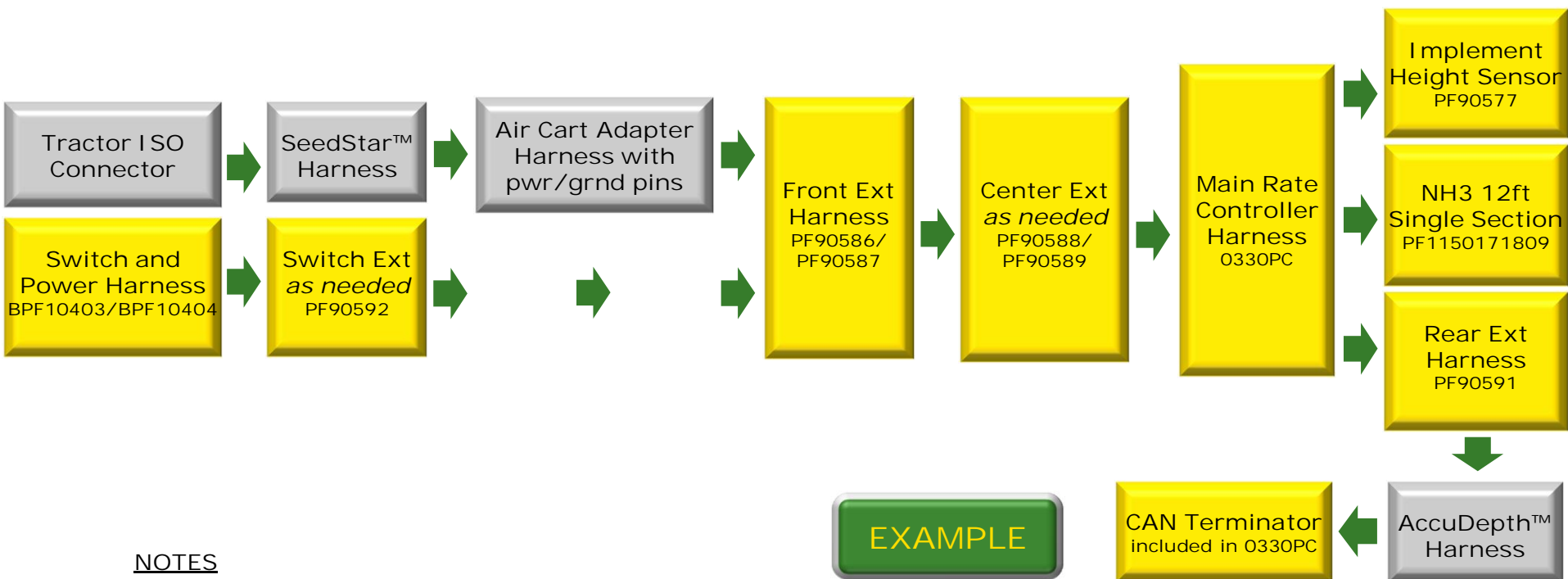


Back

SeedStar™ + AccuDepth™



Forward



NOTES

GEN II SEEDSTAR™

- ❑ ALL RATES FOR SEED & DRY FERTILIZER WILL BE CONTROLLED THROUGH SEEDSTAR™, SECTION CONTROL WILL NOT BE AVAILABLE FOR THESE PRODUCTS
- ❑ IF A RATE CONTROLLER IS ADDED FOR ADDITIONAL PRODUCT CONTROL (I.E. NH3 CONTROL), SECTION CONTROL WILL BE ENABLED FOR THIS PRODUCT ONLY

SEEDSTAR™2

- ❑ ALL RATES FOR SEED & DRY FERTILIZER WILL BE CONTROLLED THROUGH SEEDSTAR AND SECTION CONTROL WILL ALSO BE ENABLED FOR ALL PRODUCTS (SINGLE SECTION ONLY)
- ❑ IF A RATE CONTROLLER IS ADDED FOR ADDITIONAL PRODUCT CONTROL (I.E. NH3 CONTROL), SECTION CONTROL WILL BE ENABLED FOR THIS PRODUCT SIMULTANEOUSLY WITH AMS WINTER BUNDLE 09 SOFTWARE AND LATER



AIR CART RULES

CONNECTOR DETAILS



Back

SeedStar™ + AccuDepth™



Forward



Tractor ISO
Connector

Switch and
Power
Harness

SeedStar™
Harness

Switch Ext
as needed

Air Cart Adapter
Harness

Front Ext
Harness

Main Rate
Controller

AccuDepth™
Harness

Implement
Height Sensor

NH3 12ft
Single Section

Rear
Extension
Harness

Center Ext
as needed



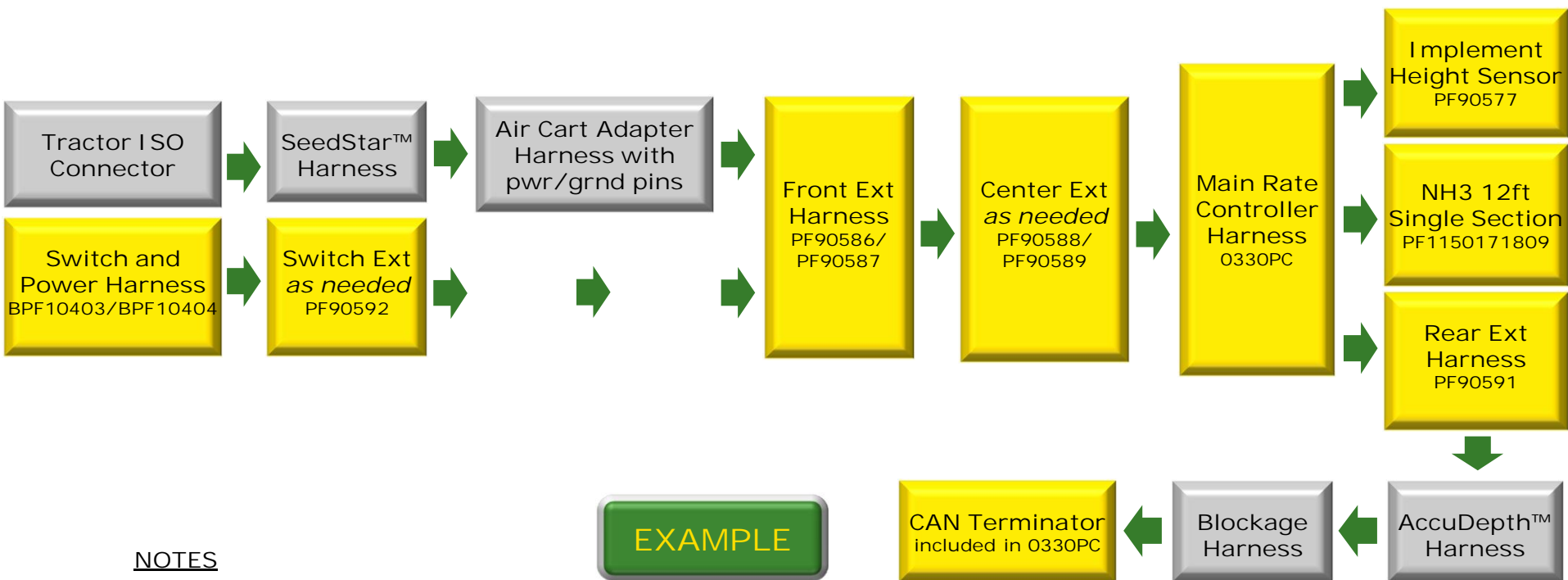


Back

SeedStar™ + AccuDepth™ + Blockage



Forward



NOTES

GEN II SEEDSTAR™

- ❑ ALL RATES FOR SEED & DRY FERTILIZER WILL BE CONTROLLED THROUGH SEEDSTAR™, SECTION CONTROL WILL NOT BE AVAILABLE FOR THESE PRODUCTS
- ❑ IF A RATE CONTROLLER IS ADDED FOR ADDITIONAL PRODUCT CONTROL (I.E. NH3 CONTROL), SECTION CONTROL WILL BE ENABLED FOR THIS PRODUCT ONLY

SEEDSTAR™2

- ❑ ALL RATES FOR SEED & DRY FERTILIZER WILL BE CONTROLLED THROUGH SEEDSTAR AND SECTION CONTROL WILL ALSO BE ENABLED FOR ALL PRODUCTS (SINGLE SECTION ONLY)
- ❑ IF A RATE CONTROLLER IS ADDED FOR ADDITIONAL PRODUCT CONTROL (I.E. NH3 CONTROL), SECTION CONTROL WILL BE ENABLED FOR THIS PRODUCT SIMULTANEOUSLY WITH AMS WINTER BUNDLE 09 SOFTWARE AND LATER



AIR CART RULES

CONNECTOR DETAILS



Back

SeedStar™ + AccuDepth™ + Blockage



Forward



Tractor ISO Connector

Switch and Power Harness

SeedStar™ Harness

Switch Ext
as needed

Air Cart Adapter Harness

Front Ext Harness

Main Rate Controller

AccuDepth™ Harness

Blockage Harness

Implement Height Sensor

NH3 12ft Single Section

Rear Extension Harness

Center Ext
as needed



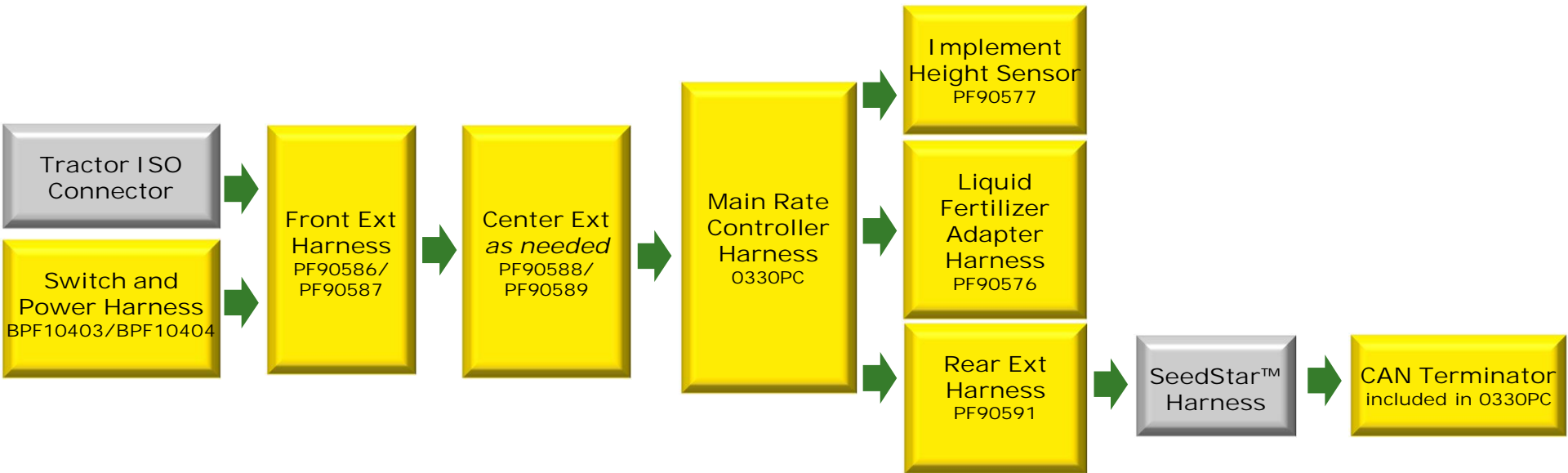


Back

SeedStar™ 2



Forward



EXAMPLE



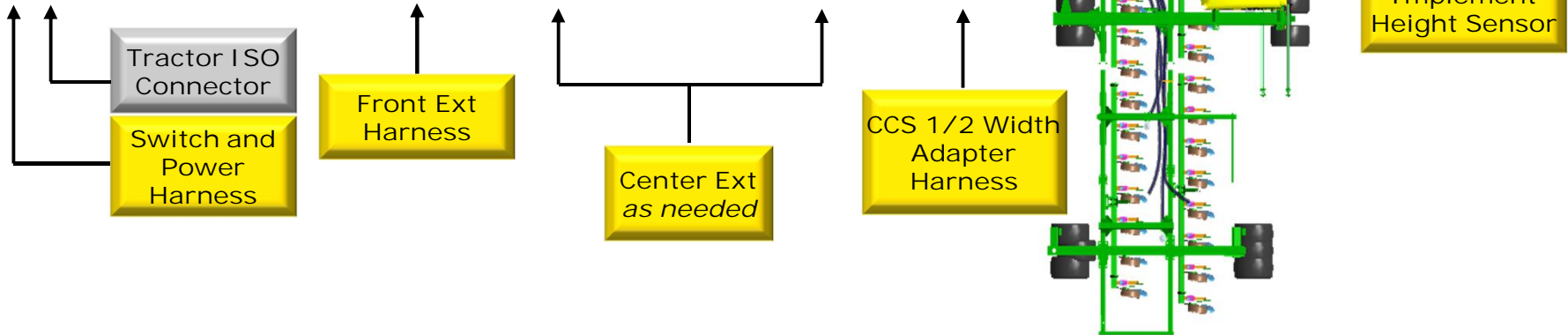


Back

SeedStar™ 2



Forward



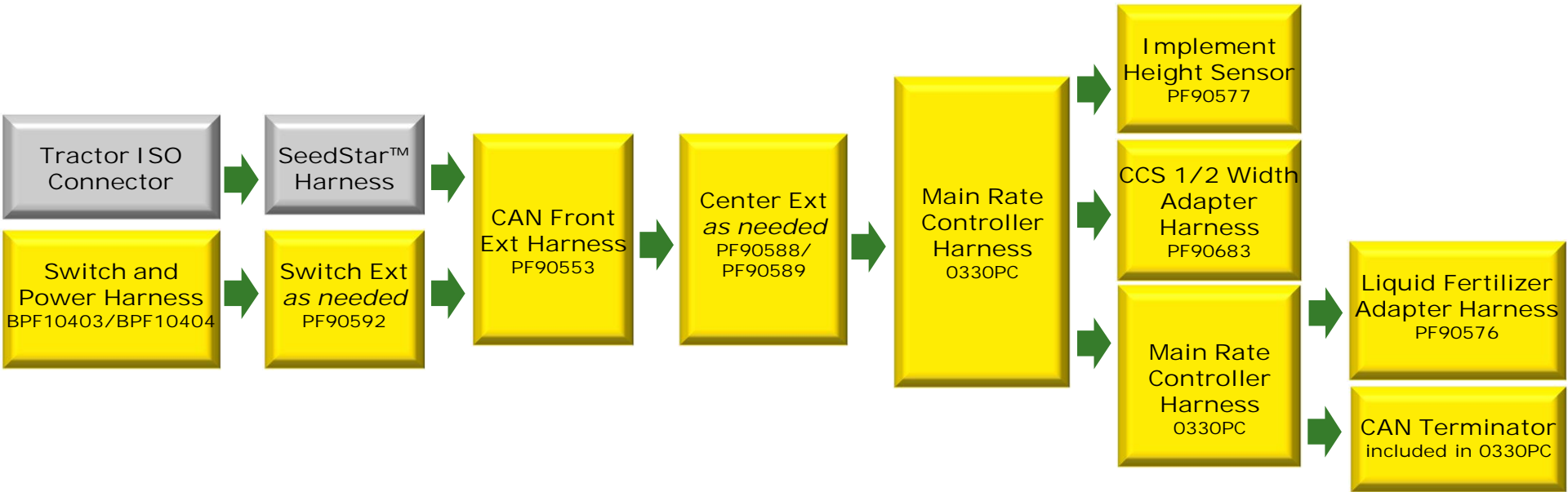


Back

GenII SeedStar™



Forward



EXAMPLE



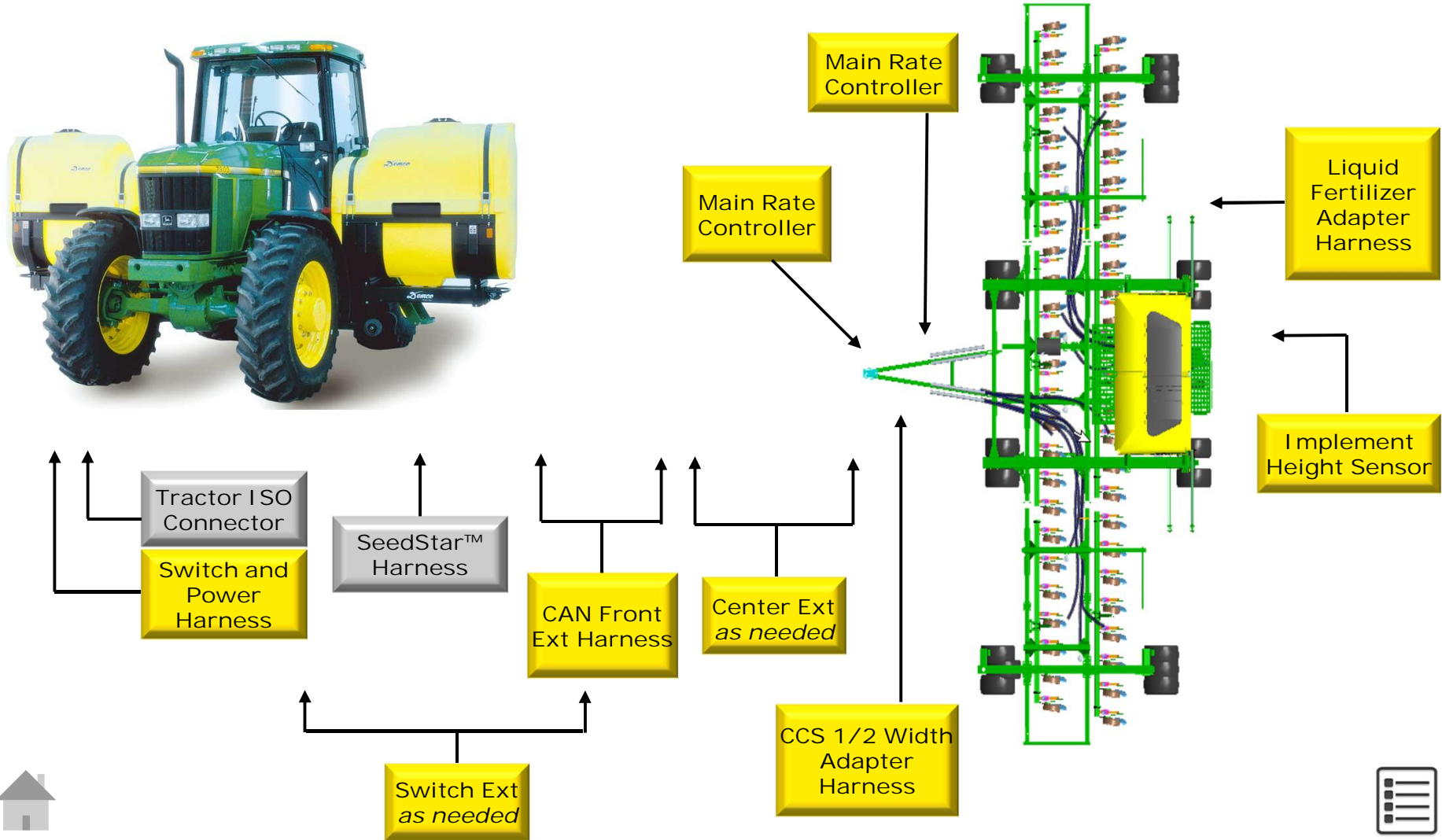


Back

GenII SeedStar™



Forward



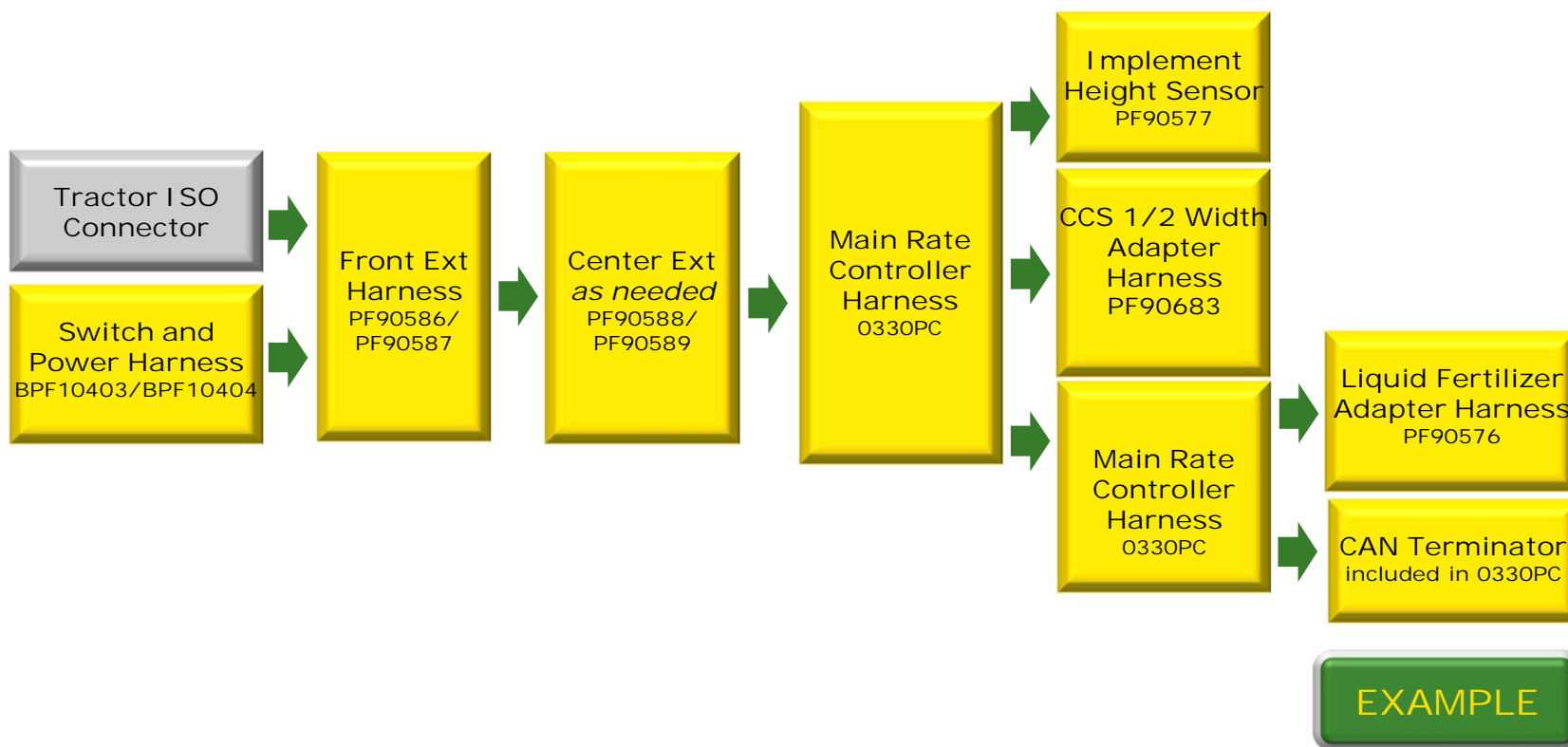


Back



Forward

Non SeedStar™ or Gen I SeedStar™ with separate CAN Bus



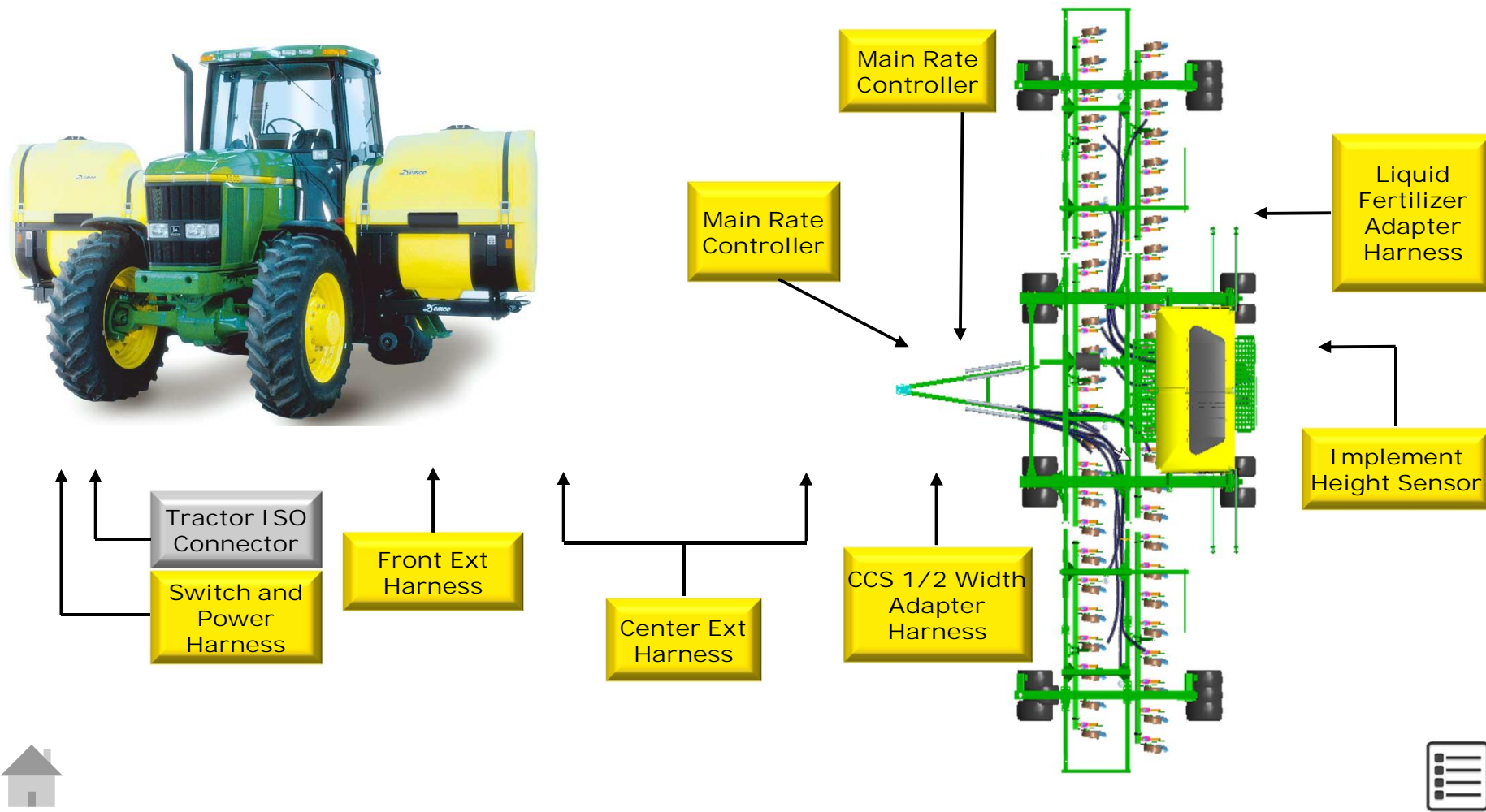


Back



Forward

Non SeedStar™ or Gen I SeedStar™ with separate CAN Bus



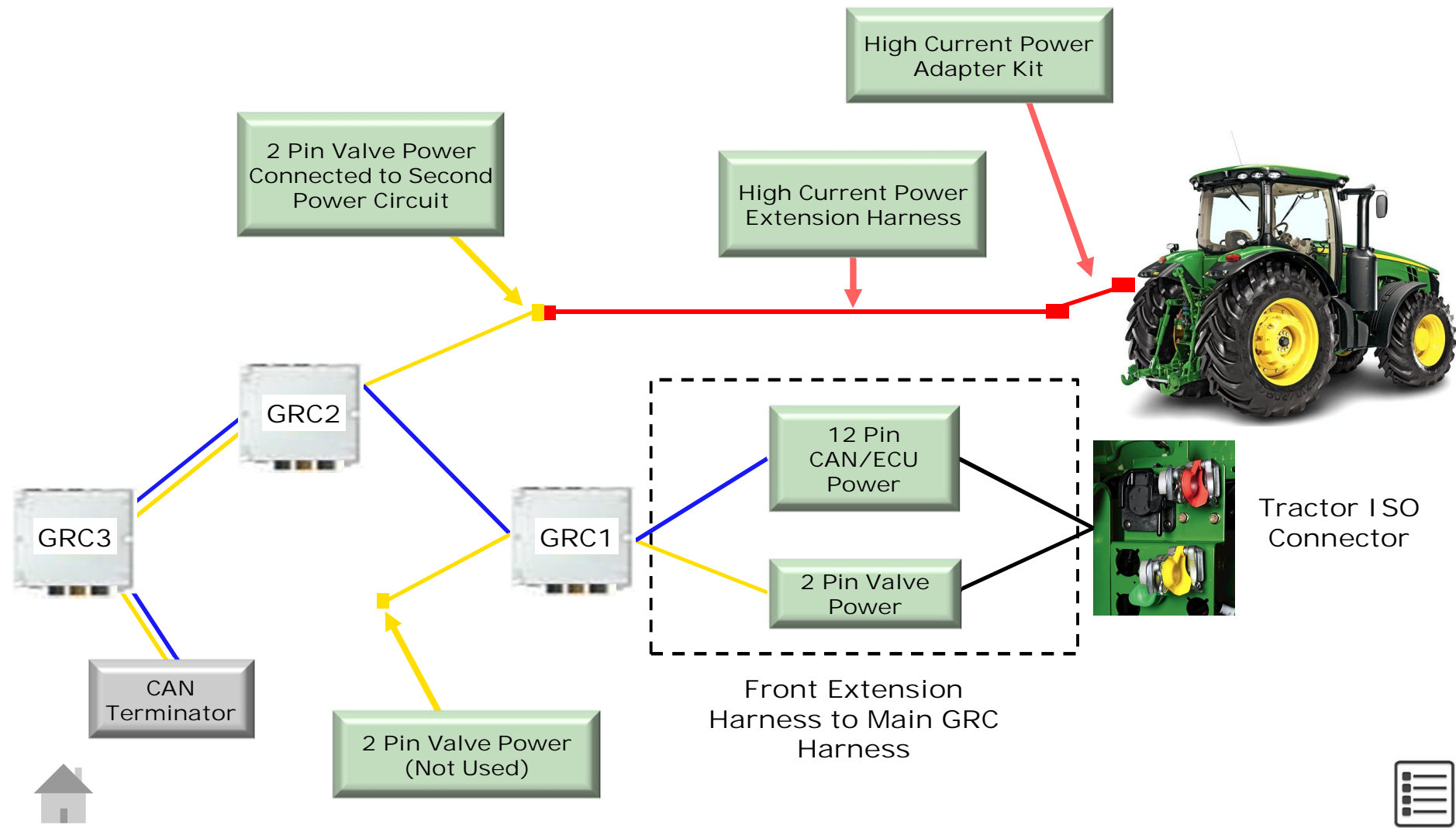


Back

High Current Adapter Kit Configuration



Forward





Back

High Current Power Adapter Kit (Row Crop)



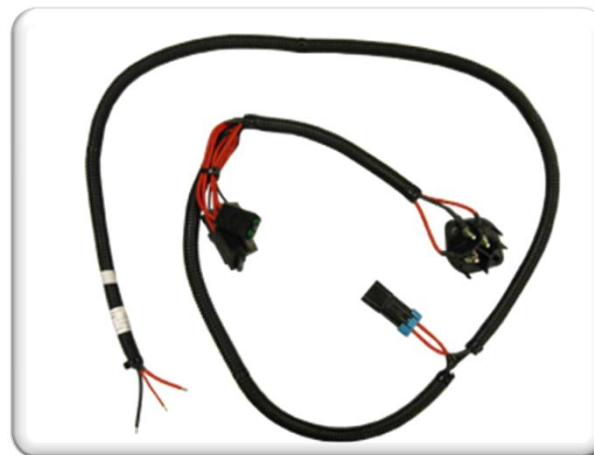
Forward

Bundle: PF90795

Cab Power Harness

High Current Power adapter

Transient Voltage Protector



RE171664

PF81310



RE43542





Back

High Current Power Adapter Kit (4WD)



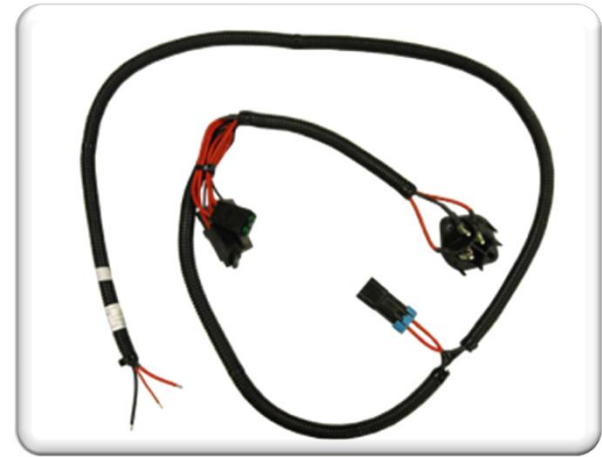
Forward

Bundle: PF90822

Cab Power Harness

High Current Power Adapter

Transient Voltage Protector



RE171664

PF81311



RE43542





Back

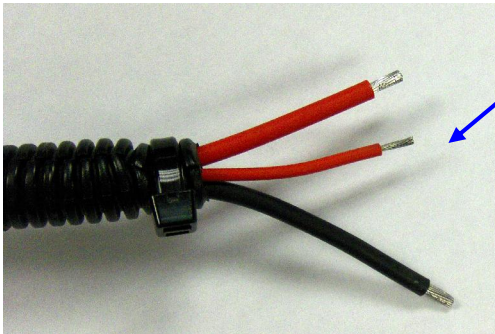
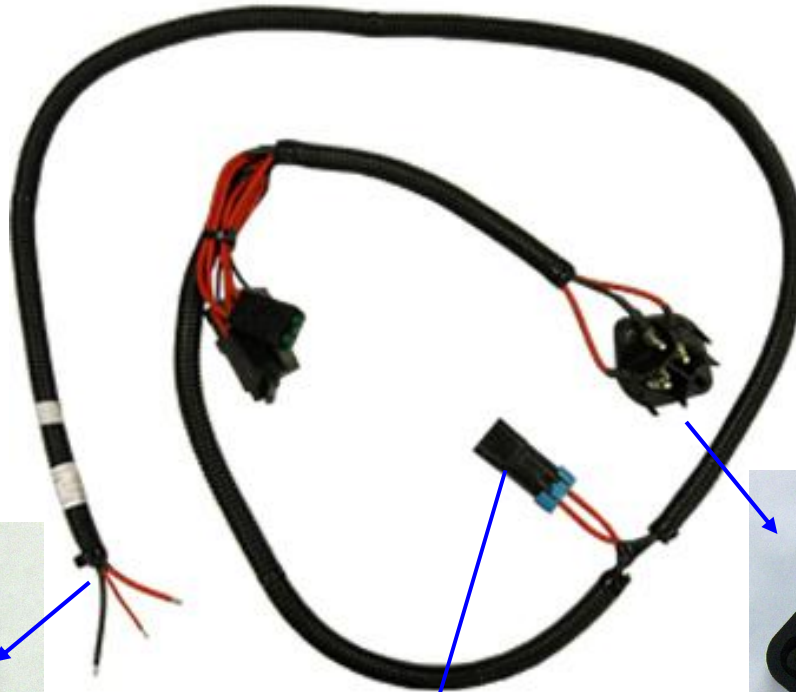
High Current Power Adapter Kit



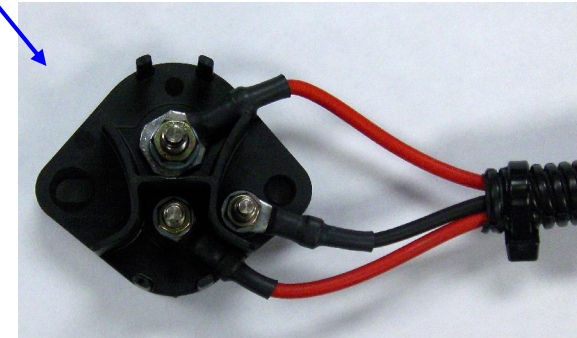
Forward

RE171664

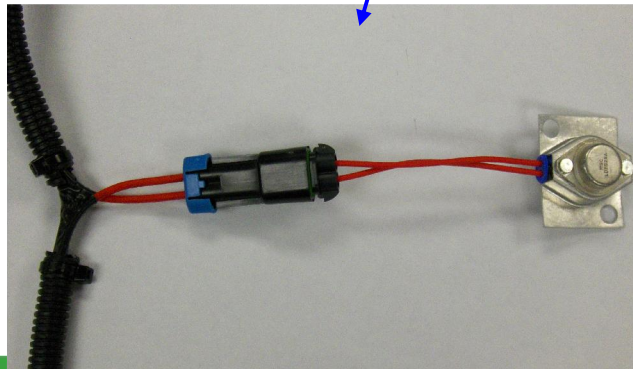
Cab Power Harness
Detailed View



Power, Ground and
Switched Power



Mount Junction block
to vehicle



Connect Transient Voltage
Protector to Cab Power Harness



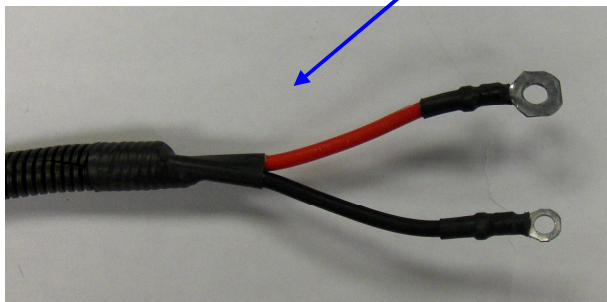
High Current Power Adapter Kit (Row Crop)

PF81310 - Row Crop

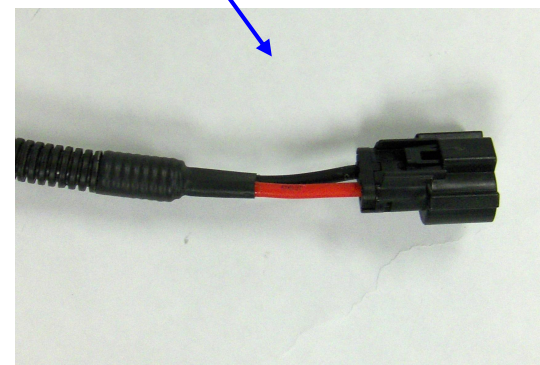
High Current Power Adapter
Detailed View

PF81311 – Articulated

High Current Power Adapter
Detailed View



Connect to Junction
Block



Secure harness to
ISO connector



High Current Power Extension Kits

Bundle: PF90825

3 Meter High Current
Extension Harness



Bundle: PF90824

10 Meter High Current
Extension Harness





Back

High Current Power Extension Kit



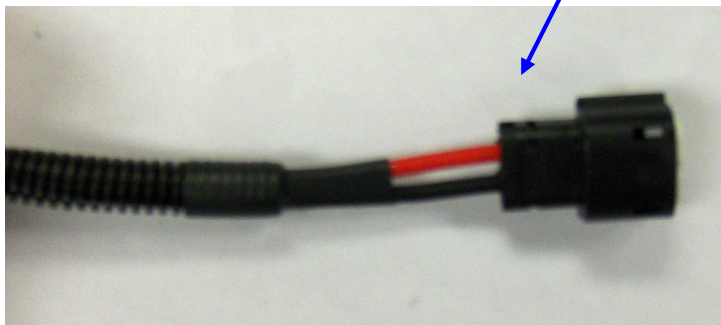
Forward

PF90825 (3 Meter)

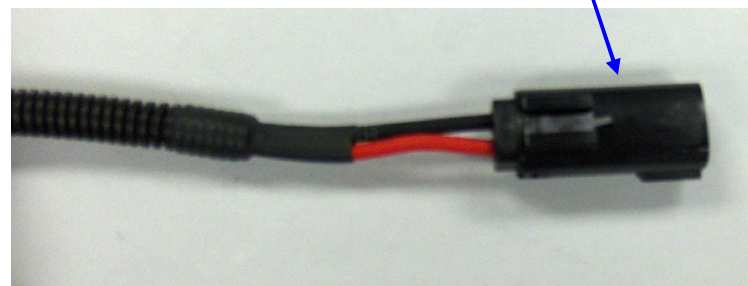
PF90824 (10 Meter)

High Current Extension

Harness



Connect to 2-pin connector on High Current Power Adapter (PF81310 or PF81311)



Connect to 2-pin connector on GRC #2 Main Harness



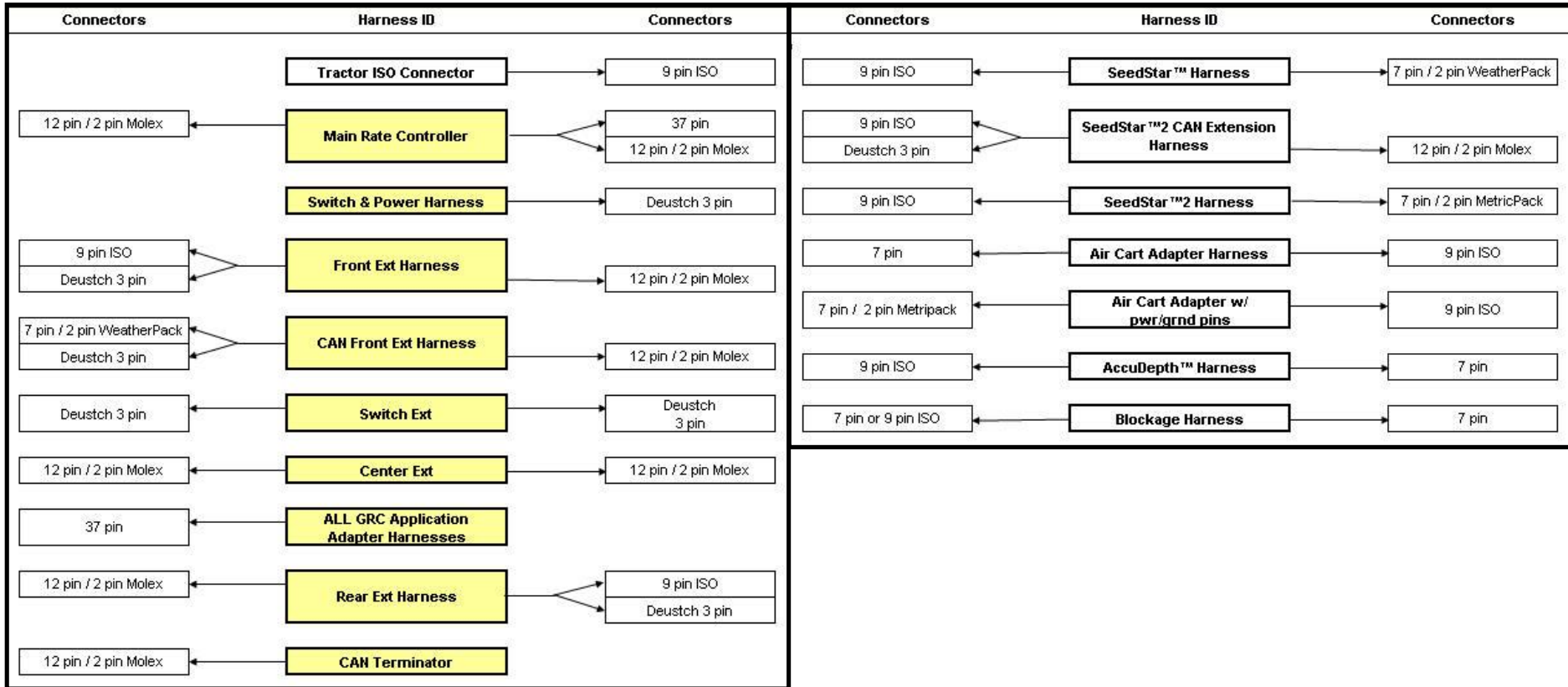


Back

Connector Detail



Forward



Part breakdown for Long Parallel Arms

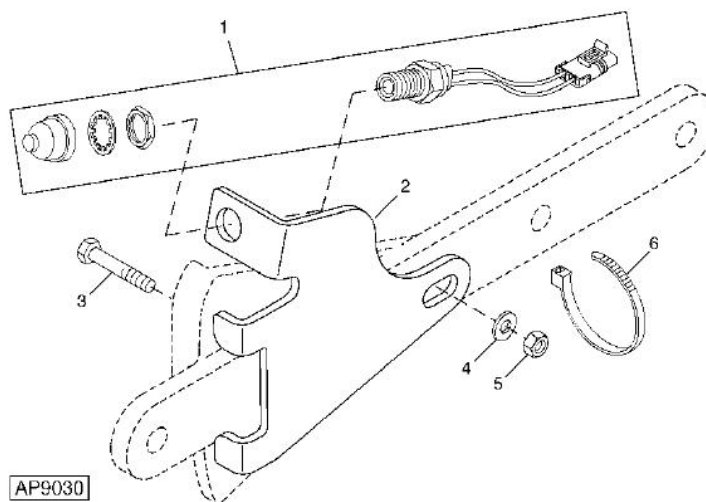


John Deere - Parts Catalog
Printer Friendly Page

Catalog: 9225 | Grid: 3E25 | Section: 170 | Page: 32

Catalog Name: 1790 Front Fold Planter (North American Edition)

Page Name: CCS BLOWER HEIGHT SWITCH



May also require RE21099*
to be ordered thru Parts to
connect switch to main rate
controller harness

* RE21099 is the same harness included in PF90577

KEY	PART NO.	PART NAME	QTY	SERIAL NO. OR YEAR	REMARKS
1	AT157547	SWITCH	1		
2	A85358	BRACKET	1		(SUB FOR A72215)
3	19M7073	CAP SCREW	1		M12 X 50
4	24M7047	WASHER	1		13 X 24 X 2.500 MM
5	A31867	LOCK NUT	1		
6	H77698	TIE BAND	2		





Back



Forward

Part breakdown for Regular Parallel Arms

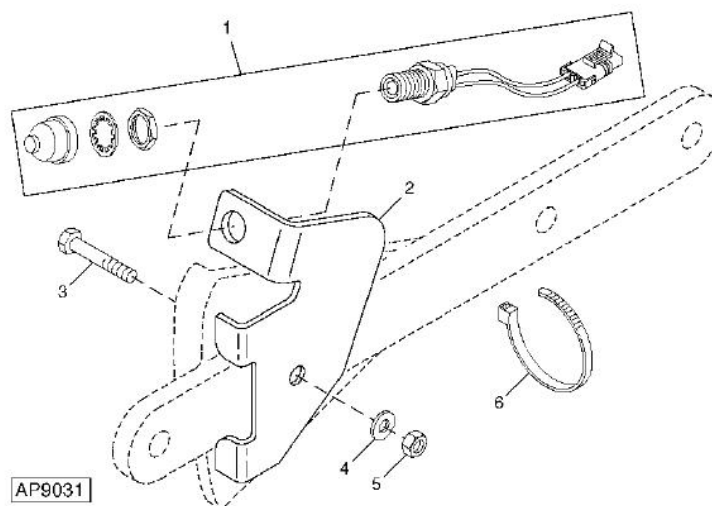


John Deere - Parts Catalog
Printer Friendly Page

Catalog: 9225 | Grid : 3F1 | Section: 170 | Page: 33

Catalog Name: 1790 Front Fold Planter (North American Edition)

Page Name: CCS BLOWER HEIGHT SWITCH



May also require RE21099*
to be ordered thru Parts to
connect switch to main rate
controller harness

* RE21099 is the same harness included in PF90577

KEY	PART NO.	PART NAME	QTY	SERIAL NO. OR YEAR	REMARKS
1	AT157547	SWITCH	1		
2	A71505	BRACKET	1		
3	19M7073	CAP SCREW	1		M12 X 50
4	24M7047	WASHER	1		13 X 24 X 2.500 MM
5	A31867	LOCK NUT	1		
6	H77698	TIE BAND	2		





Back

Implement Height Sensor



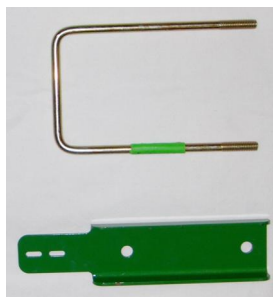
Forward

Bundle: PF90577

Harness and
Height Switch
Bracket



PF81147



RE21099

NOTES

HEIGHT SWITCHES FOR PLANTERS

PURCHASING:

THE GREENSTAR SYSTEM REQUIRES A DEDICATED HEIGHT INDICATOR. THERE ARE TWO OPTIONS FOR PLANTERS:

☐ PARTS:

PLANTER HEIGHT SWITCH – LONG PARALLEL ARMS

PLANTER HEIGHT SWITCH –REGULAR PARALLEL ARMS

☐ AMS PRICE PAGES: IMPLEMENT HEIGHT SENSOR (SEE ABOVE)

INSTALLATION:

- ☐ FOR MULTI-PRODUCT APPLICATIONS, THE HEIGHT SWITCH MAY BE INSTALLED ON ANY RATE CONTROLLER, NOT NECESSARILY THE FIRST CONTROLLER IN THE CHAIN.





Back

Implement Height Sensor



Forward

PF81147

Rate Controller Implement
Height Sensor Detailed View



To Main Rate Controller
or Extension Harness





Back

Implement Height Sensor



Forward

RE21099

Height Switch Extension
Harness Detailed View



To Implement Height
Sensor or Planter
Height Switch



To Main Rate Controller
Harness

NOTES

HEIGHT SWITCHES

❑ RE21099 MAY ALSO BE USED WITH PLANTER HEIGHT SWITCHES. THIS HARNESS CAN BE ORDERED SEPARATELY THROUGH PARTS.





Back

Implement Height Sensor



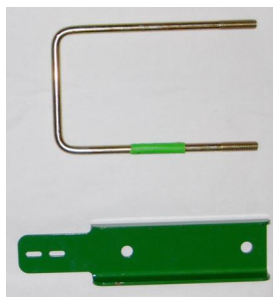
Forward

Bundle: PF90577

Harness and
Height Switch
Bracket



PF81147



RE21099

NOTES

2510 NUTRIENT APPLICATORS

THE GREENSTAR SYSTEM REQUIRES A DEDICATED HEIGHT INDICATOR.

INSTALLATION:

- ❑ FOR MULTI-PRODUCT APPLICATIONS, THE HEIGHT SWITCH MAY BE INSTALLED ON ANY RATE CONTROLLER, NOT NECESSARILY THE FIRST CONTROLLER IN THE CHAIN.
- ❑ INSTALLATION ON 2510 NUTRIENT APPLICATORS REQUIRES A DIFFERENT MOUNTING BRACKET THAN WHAT IS INCLUDED IN PF90577, CLICK [HERE](#) FOR DETAILS





Back

Implement Height Sensor



Forward

PF81147

Rate Controller Implement
Height Sensor Detailed View



To Main Rate Controller
or Extension Harness





Back

Implement Height Sensor



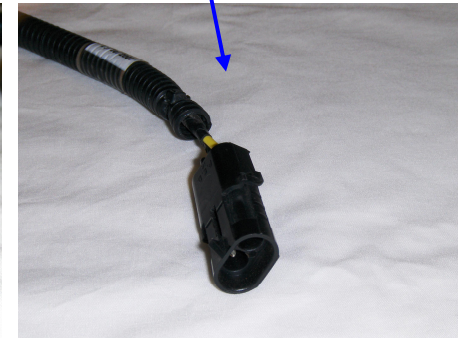
Forward

RE21099

Height Switch Extension
Harness Detailed View



To Implement Height
Sensor or Planter
Height Switch



To Main Rate Controller
Harness

NOTES

HEIGHT SWITCHES

❑ RE21099 MAY ALSO BE USED WITH PLANTER HEIGHT SWITCHES. THIS HARNESS CAN BE ORDERED SEPARATELY THROUGH PARTS.





Back

2510 Height Sensor Brackets

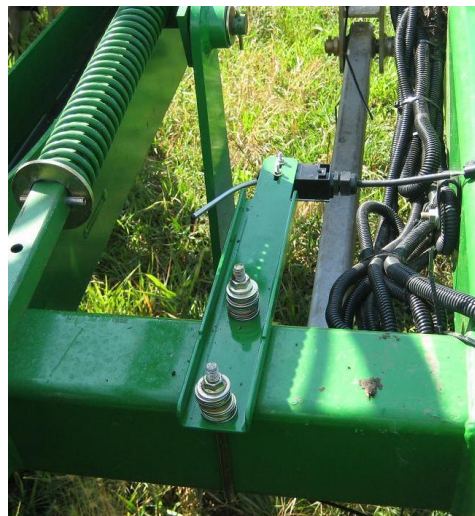


Forward

➤ PF90786

2510 Height Sensor Brackets

2510S or 2510C



2510H



NOTES

2510 HEIGHT SWITCH BRACKETS

- ❑ BUNDLE CONTAINS BRACKETS FOR THE 2510S/C AND 2510H. PF90577 WILL STILL NEED TO BE ORDERED SEPARATELY TO ATTAIN THE SWITCH.





GreenStar™ Rate Controller Upgrade Kit

The Rate Controller Conversion Kit (PF90634) has been discontinued and is currently not offered through the AMS Price Pages. The need for this bundle has declined as its purpose was to upgrade the original 31-pin controllers to current 37-pin controllers. If customers need to upgrade at this current time, order the current GreenStar™ Rate Controller through the AMS Prices Pages (Base Code 0330PC).



Greenstar™ ISO Implement Connector Kit

GreenStar™ Ready Vehicle or GreenStar™ Harness with ISO Implement Connector.

ISO Implement Connectors can be ordered from parts as:

RE174725 (Row Crop Tractors)

RE174726 (4WD Tractors)



Bundle: BPF10403

Switch & Power Harness
(Row Crop Tractors Only)



NOTES

SWITCH & POWER HARNESSES

❑ A SEPARATE HARNESS EXISTS FOR 4WD TRACTORS, CLICK [HERE](#) TO VIEW BUNDLE INFORMATION





Back

Switch & Power Harness – Row Crop



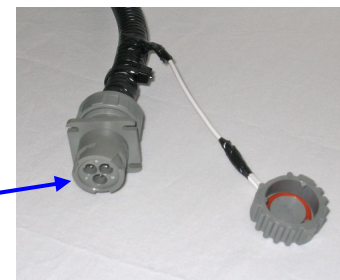
Forward

PF81073

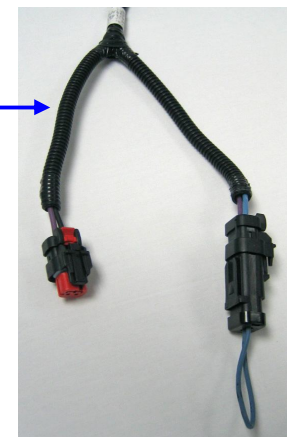
Switch & Power
Harness Detailed View
(Row Crop Tractor)



To Convenience Outlet
(Only Needed for iGuide)



To Rate
Controller Front
Extension
Harness



To Foot Switch
and/or Rate
Controller Switch
Box Ext.





Back

Switch & Power Harness – 4WD



Forward

Bundle: BPF10404

Switch & Power Harness
(4WD Tractors Only)



NOTES

SWITCH & POWER HARNESSSES

❑ A SEPARATE HARNESS EXISTS FOR ROW CROP TRACTORS, CLICK

[HERE](#)

TO VIEW BUNDLE INFORMATION





Back

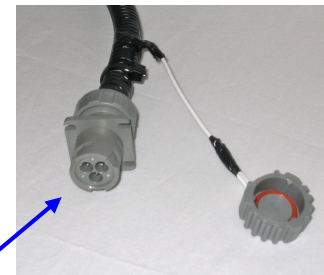
Switch & Power Harness – 4WD



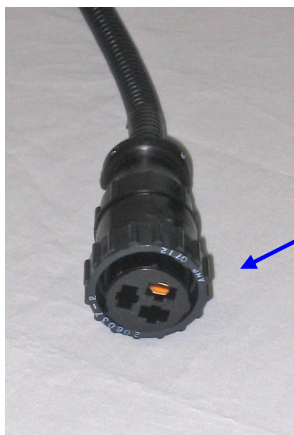
Forward

PF81074

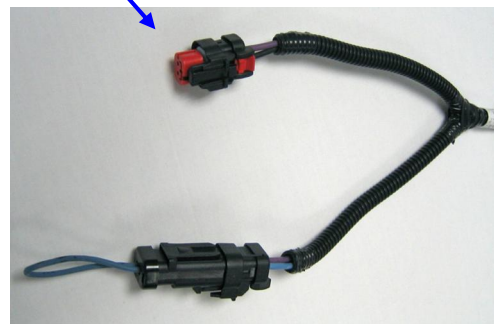
Switch & Power Harness
Detailed View
(4WD Tractor)



To Rate
Controller Front
Extension
Harness



To Convenience Outlet
(Only Needed for iGuide)



To Foot Switch
and/or Rate
Controller Switch
Ext.





Back

Switch & Power Extension Harness



Forward

Bundle: PF90592

Switch & Constant Power
Extension Harness (11m)





Back

Switch & Power Extension Harness



Forward

PF81139

Rate Controller
Power Extension
Harness (11 Meter)
Detailed View



To Switch &
Power Harness



To Front Ext. or
Power Adapter





Back

CAN Front Extension Harness



Forward

Bundle: PF90553

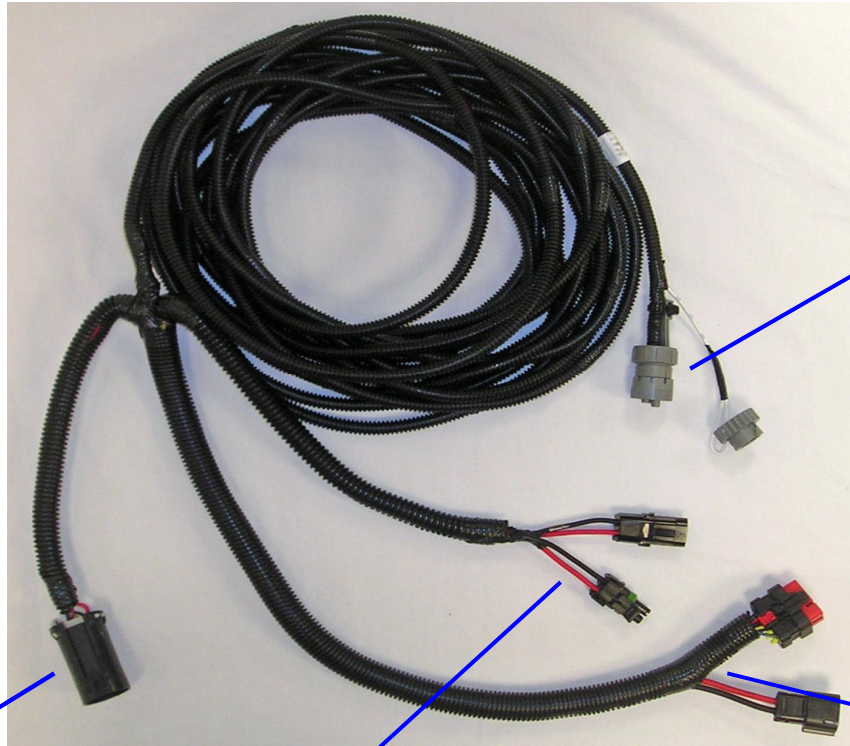
CAN Front Extension
Harness (12m)



CAN Front Extension Harness

PF81077

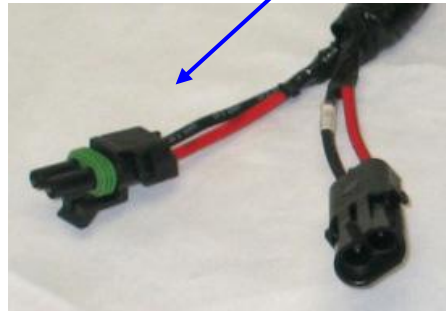
CAN Front Extension
Harness (12 Meter)
Detailed View



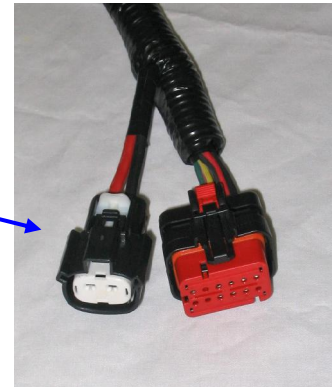
To Switch
& Power Harness



To Seedstar™ Harness
(plug in place of
terminator)



To MOD Power (on
Seedstar™ Harness)



To Main Rate
Controller Harness



Back



Forward



Back

Auxiliary Power Extension Harness



Forward

Bundle: PF90593

Rate Controller
Auxiliary Power
Extension Harness
(21m)



NOTES

AUXILIARY POWER EXTENSION HARNESS

- ❑ USED PRIMARILY WITH TBT AIR CARTS TO POPULATE THE LAST 2 PINS ON AA44913 AIR CART ADAPTER HARNESS





Back

Auxiliary Power Extension Harness



Forward

PF81138

Rate Controller Auxiliary
Power Extension Harness
(21 Meter) Detailed View



Populates open
pins on Harness
AA44913

To CAN &
Power Adapter





Back

2 Meter Center Extension Harness



Forward

Bundle: PF90588

Rate Controller
Center Extension
Harness (2m)



NOTES

CENTER EXTENSION HARNESSES

❑ AN 8 METER EXTENSION HARNESS ALSO EXISTS FOR ADDITIONAL LENGTH, CLICK

[HERE](#)

TO VIEW





Back

2 Meter Center Extension Harness



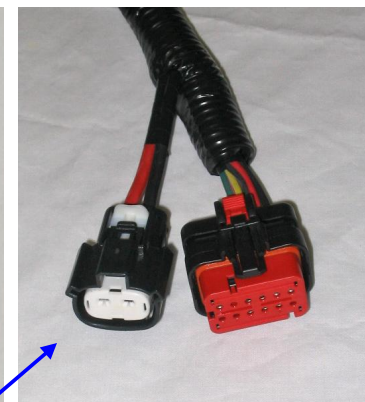
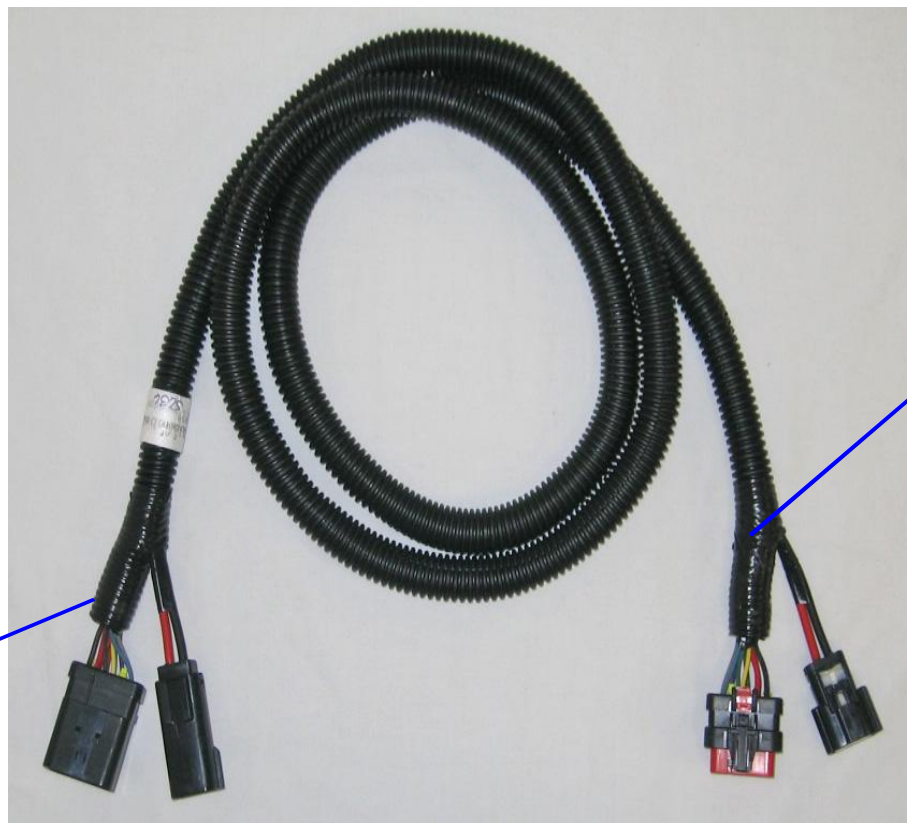
Forward

PF81133

Rate Controller
Center Extension
Harness (2 Meter)
Detailed View



To Front Extension
Harness



To Main Rate
Controller Harness





Back

8 Meter Center Extension Harness



Forward

Bundle: PF90589

Rate Controller
Center Extension
Harness (8m)

PF81134



NOTES

CENTER EXTENSION HARNESSES

❑ A 2 METER EXTENSION HARNESS ALSO EXISTS IF THIS IS TOO LONG, CLICK [HERE](#) TO VIEW BUNDLE INFORMATION





Back

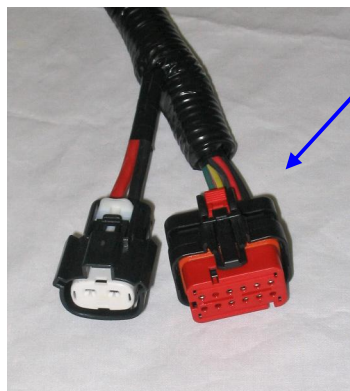
8 Meter Center Extension Harness



Forward

PF81134

Rate Controller
Center Extension
Harness (8 Meter)
Detailed View



To Front Extension
Harness



To Main Rate
Controller Harness





Back

GreenStar™ Rate Controller Kit



Forward

Base Code: 0330PC

37 Pin Rate Controller
Main Kit



Rate Controller Flex Box,
Installation Brackets,
Cover



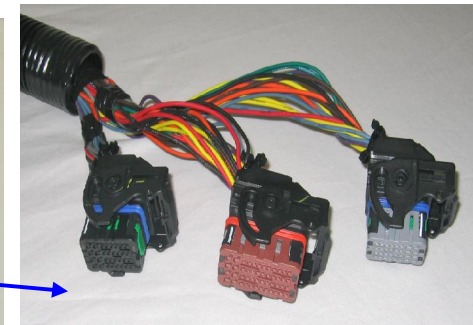
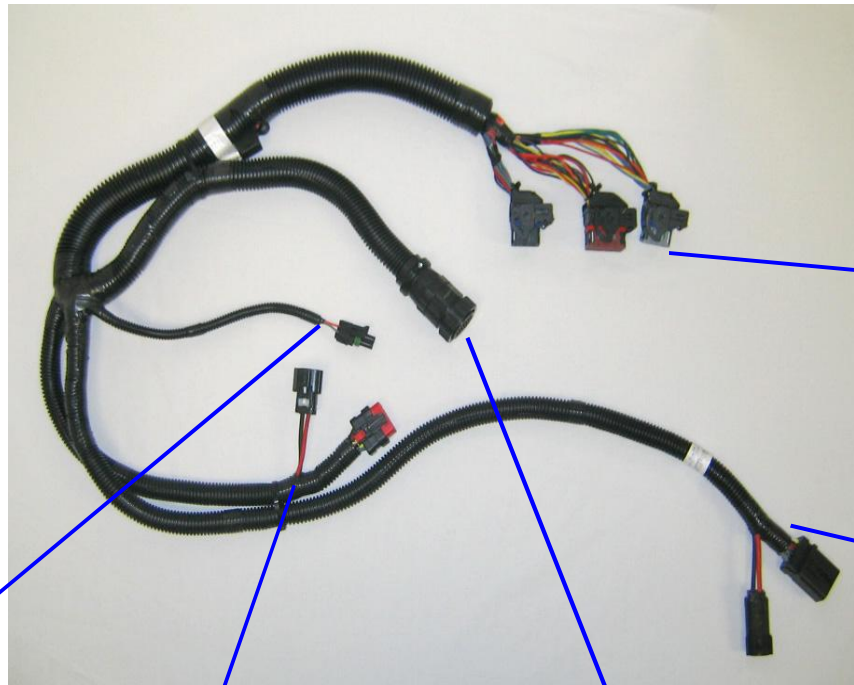
Foot Switch



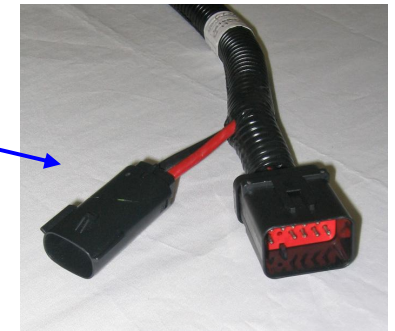
Rate Controller Kit

PF81113

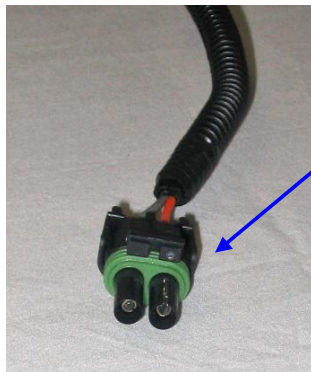
Rate Controller
Main Harness
Detailed View



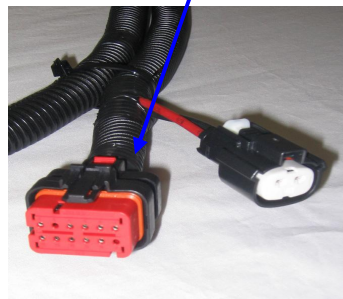
To Flex Box



To Front Extension
Harness



To Implement Height
Switch



To CAN Terminator,
Center, Rear Extension
Harness, Additional Rate
Controller or SeedStar™
Adapter

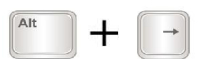


To Application
Specific Adapter

[PIN-OUT CHART](#)



Back

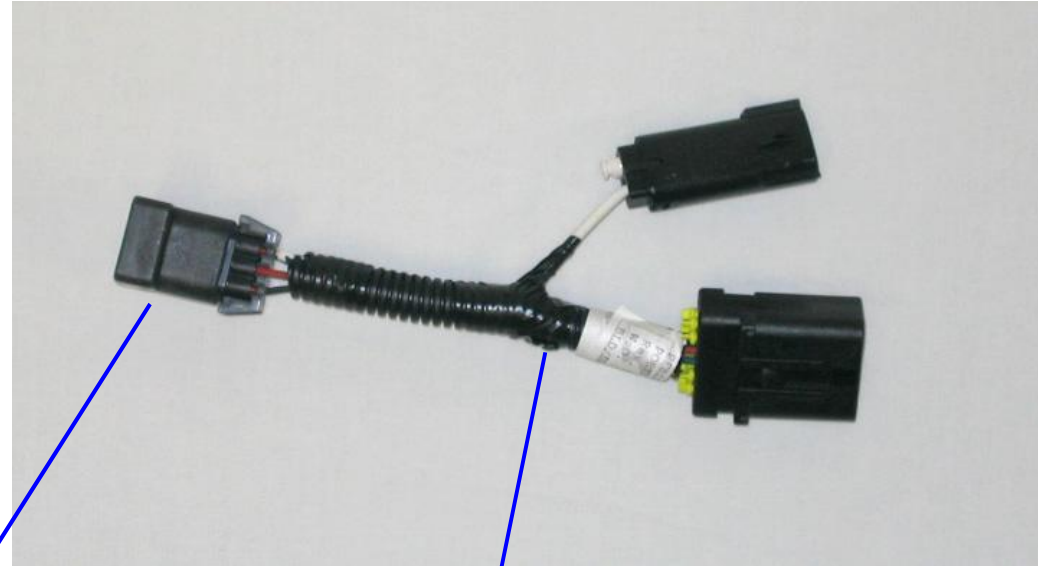


Forward

Rate Controller Kit

PF81137

Implement CAN Terminator
Harness Detailed View
(not used with SeedStar™2)



CAN Terminator
(Do Not Remove)

To Main Rate Controller Harness
(installed on last main harness
in the chain for Multi-Product
configurations)



NOTES

CAN TERMINATOR

- ❑ NOT USED WITH REAR EXTENSION BUNDLE (PF90591)



Back



Forward



Back

Planter 1/2, 1/3 or 1/4 Width Disconnect Adapter Harness



Forward

Bundle: PF90598

Rate Controller
Planter Clutch 1/2
1/3 or 1/4 Width
Adapter Harness

PF81117



NOTES

PLANTER ADAPTER HARNESS

- ☐ CONTROLS UP TO 4 CLUTCHES
- ☐ PF90620 WILL ALSO BE REQUIRED FOR KINZE PLANTERS, CLICK [HERE](#) TO VIEW





Back

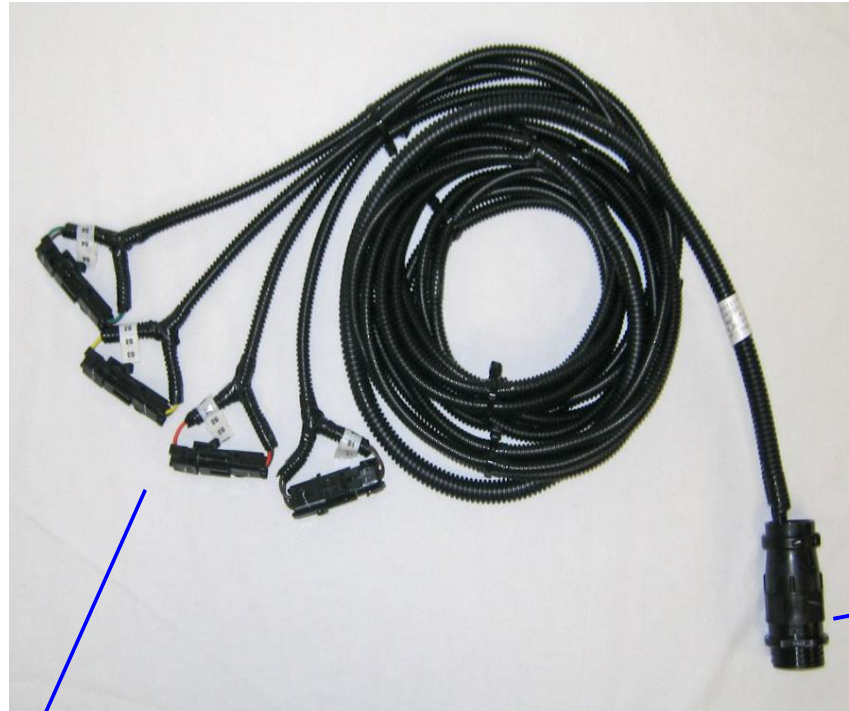
Planter 1/2, 1/3 or 1/4 Width Disconnect Adapter Harness



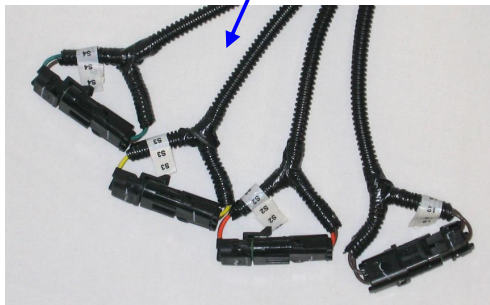
Forward

PF81117

Rate Controller Planter
Clutch 1/2, 1/3 or 1/4
Width Adapter Harness
Detailed View



To Main Rate
Controller
Harness



To Planter
Clutches or Kinze
Adapter Harness





Back

Kinze Planter 1/2 Width Adapter Harness

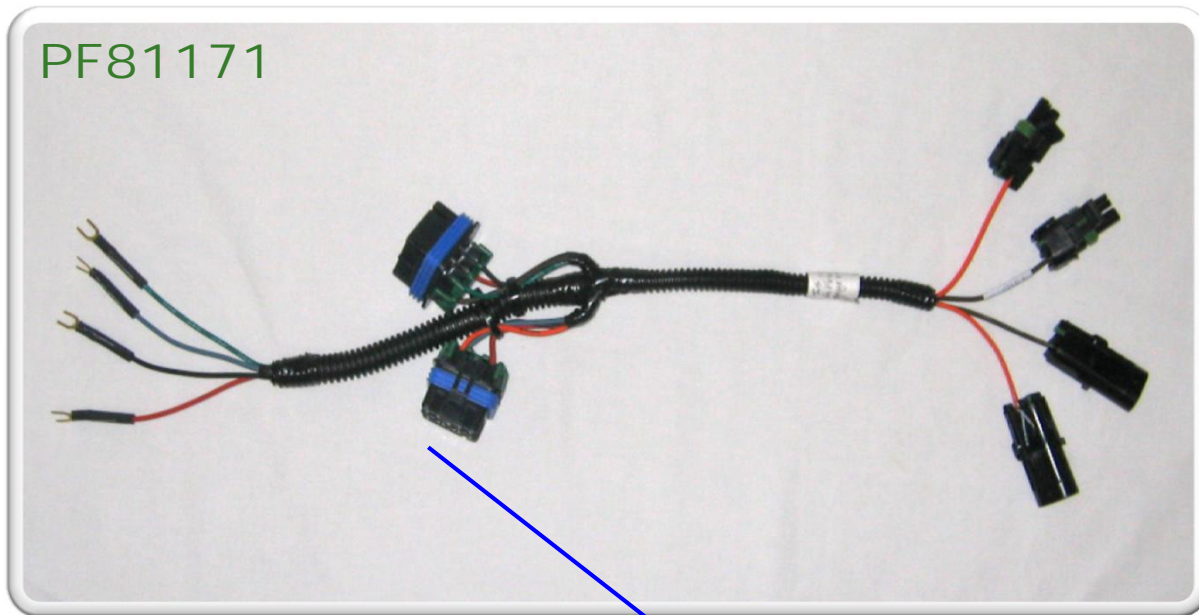


Forward

Bundle: PF90620

Rate Controller Kinze
Planter 1/2 Width
Adapter Harness

PF81171



AM123716



NOTES

KINZE PLANTER 1/2 WIDTH ADAPTER HARNESS

- ❑ 1 HARNESS PER 2 CLUTCHES
- ❑ PF90598 WILL ALSO BE REQUIRED FOR KINZE PLANTERS, [CLICK HERE TO VIEW](#)





Back

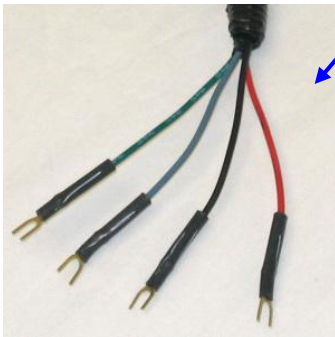
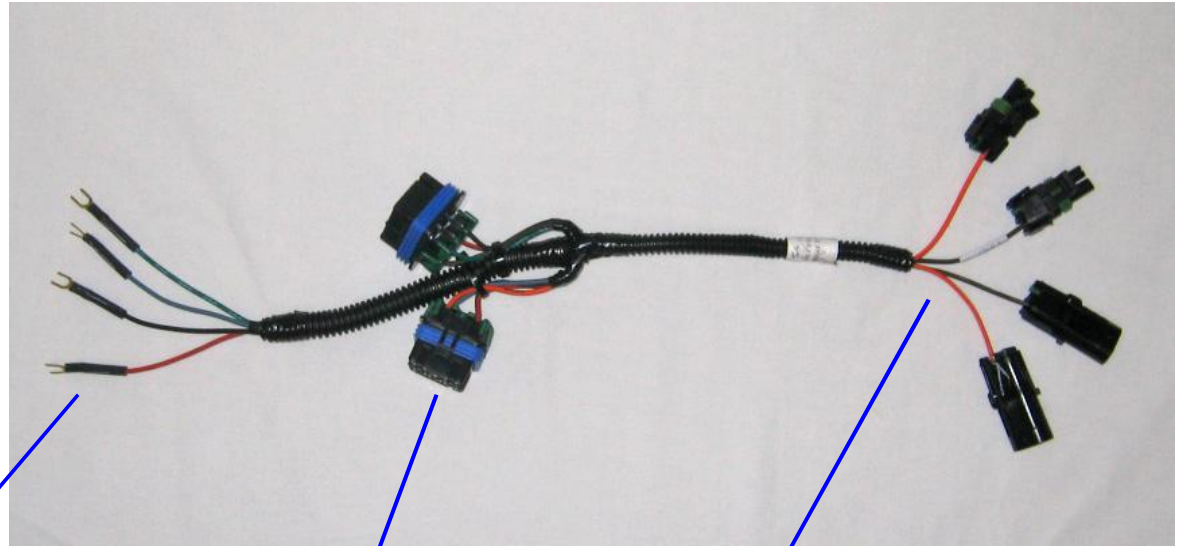
Kinze Planter 1/2 Width Adapter Harness



Forward

PF81171

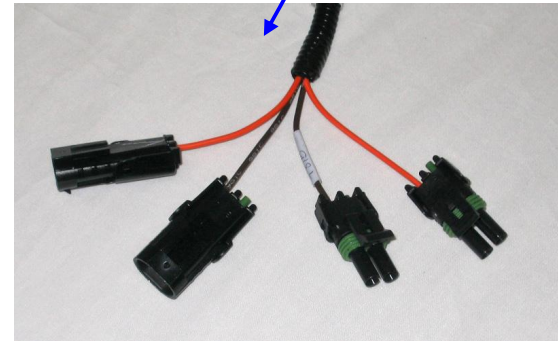
Rate Controller Kinze
Planter 1/2 Width
Adapter Harness
Detailed View



To Clutch



Relay



To Planter Adapter
Harness





Back

Tru Count Air Clutch System

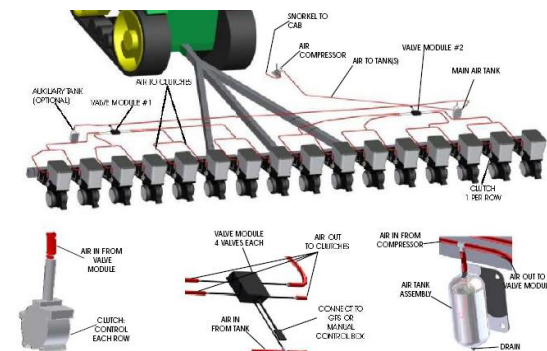


Forward

Tru Count Air Clutch System

Tru Count air clutches, valve modules, air compressors, tanks, along with the required GreenStar™ Harness must be purchased directly from Tru Count.

[TRU COUNT WEBSITE](#)





Back

10 Meter Front Extension Harness



Forward

Bundle: PF90587

Rate Controller Front
Extension Harness (10m)

PF81131



NOTES

FRONT EXTENSION HARNESSSES

❑ A 3M EXTENSION HARNESS ALSO EXISTS IF THE CABLE ABOVE IS TOO LONG, CLICK

[HERE](#)

TO VIEW BUNDLE INFORMATION



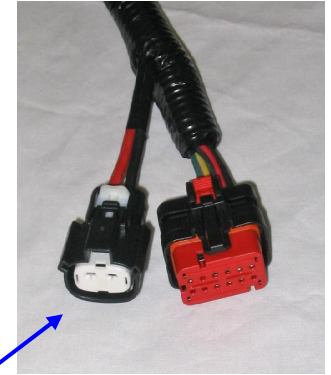
10 Meter Front Extension Harness

PF81131

Rate Controller
Front Extension
Harness (10m)
Detailed View



To ISO
Connector



To Main Rate
Controller Harness



To Switch &
Power Harness



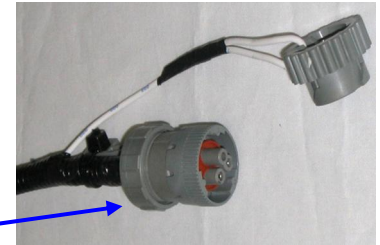
SeedStar™ 2 CAN Extension Harness



To ISO Connector



To Main Rate Controller Harness, Center Extension Harness or SeedStar™ EPM Harness



To Switch & Power Harness





Back

3 Meter Front Extension Harness



Forward

Bundle: PF90586

Rate Controller Front
Extension Harness
(3m)



NOTES

FRONT EXTENSION HARNESSES

❑ A 10 METER EXTENSION HARNESS ALSO EXISTS FOR ADDITIONAL LENGTH, CLICK

HERE

TO VIEW BUNDLE INFORMATION





Back

3 Meter Front Extension Harness



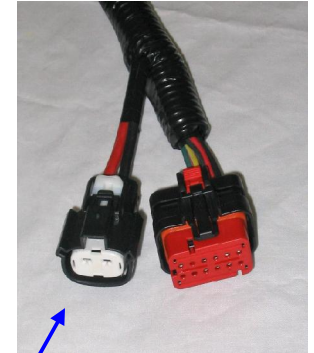
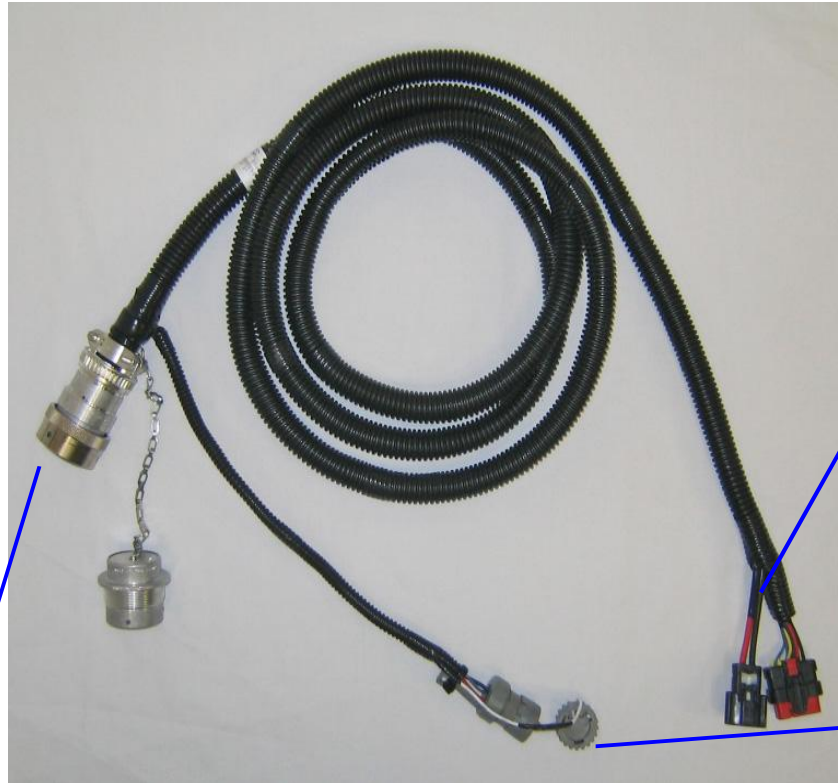
Forward

PF81130

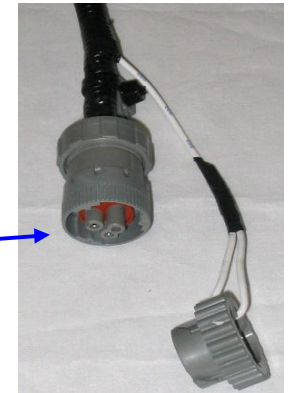
Rate Controller Front
Extension Harness
(3 Meter)
Detailed View



To ISO
Connector



To Main Rate
Controller Harness



To Switch &
Power Harness





Back

CCS Seeder 1/2 Width Adapter Harness



Forward

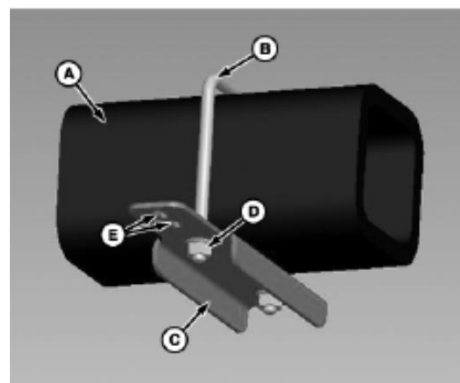
Bundle: PF90683

Rate Controller
CCS Seeder Clutch
Adapter Harness



PF81253

Height Switch
Bracket Included



NOTES

CCS SEEDER 1/2 WIDTH ADAPTER HARNESS

❑ CONTROLS 2 CLUTCHES



CCS Seeder 1/2 Width Adapter Harness

PF81253

Rate Controller CCS Seeder
Clutch Adapter Harness
Detailed View



To CCS Seeder clutches



To Main Rate Controller
Harness



Bundle: PF90599

Rate Controller Raven
Adapter Harness

PF81118



NOTES

RAVEN ADAPTER HARNESS

- ☐ ENABLES MULTI-SECTION CONTROL



Raven Adapter Harness

PF81118

Rate Controller
Raven Adapter
Harness (16 Pin)
Detailed View



PIN-OUT CHART

PIN-OUT CHART



To Sprayer
Harness

To Main Rate Controller
Harness





Back

Liquid Fertilizer Adapter Harness



Forward

Bundle: PF90576

Rate Controller
Liquid Fertilizer
Adapter Harness



NOTES

LIQUID FERTILIZER ADAPTER HARNESS

☐ ENABLES SINGLE SECTION CONTROL



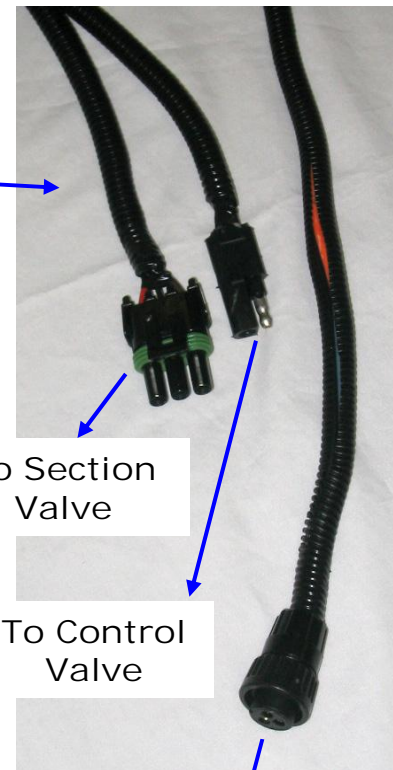
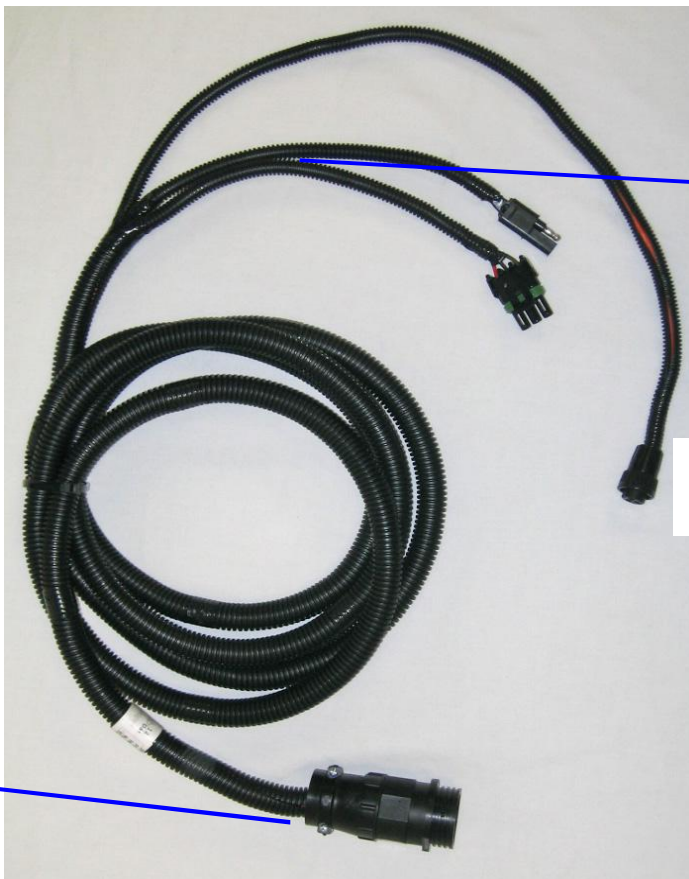
Liquid Fertilizer Adapter Harness

PF81115

Rate Controller Liquid
Fertilizer Adapter
Harness Detailed View



To Main Rate
Controller
Harness



To Section
Valve

To Control
Valve

To Flow Meter

[PIN-OUT CHART](#)





Back

Hardi Adapter Harness



Forward

Bundle: PF90621

Rate Controller Hardi
Adapter Harness

(Hardi Controllers 2500,
3500, 3880, & 5500)

PF81148



NOTES

HARDI ADAPTER HARNESS

- ☐ ENABLES MULTI - SECTION CONTROL

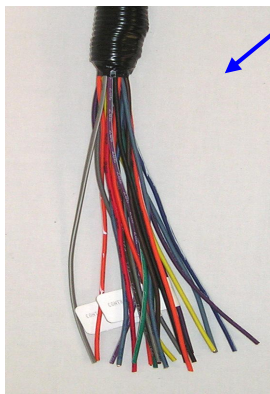


Hardi Adapter Harness

PF81148

Rate Controller Hardi
Adapter Harness
Detailed View

(Hardi Controllers 2500,
3500, 3880, & 5500)



To Main Rate
Controller Harness



To Hardi
Harness





Back

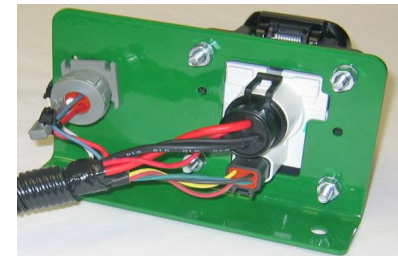
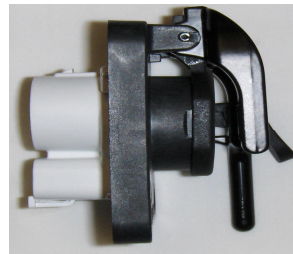
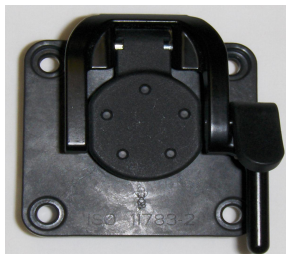
Rear Extension Harness



Forward

Bundle: PF90591

Rate Controller Rear
Extension Harness (2m)



NOTES

REAR EXTENSION HARNESS

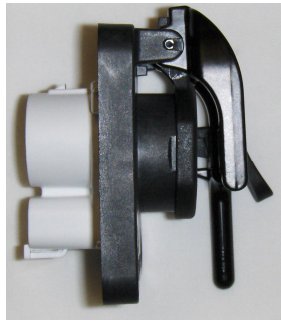
- ❑ SECONDARY IMPLEMENT-ONLY ISO CONNECTOR AND BRACKET ARE INCLUDED



Rear Extension Harness

PF81136

Rate Controller
Rear Extension
Harness (2 Meter)
Detailed View

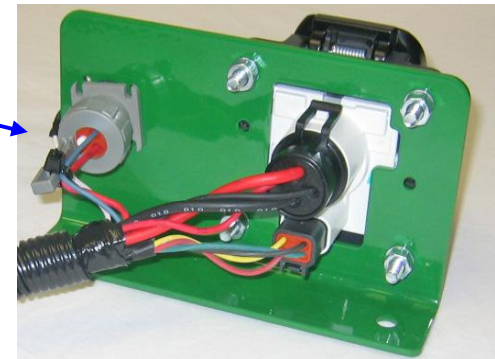


RE244184

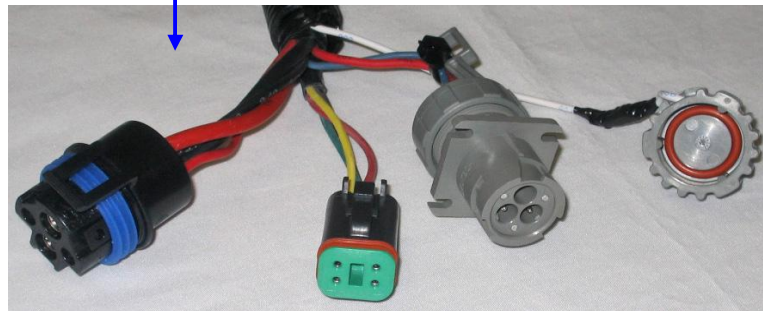
Secondary ISO Implement
Only Connector, bolts into
ISO Bracket (Installed on
Implement only Black front
with White Back)



To Main Rate
Controller Harness



ISO Implement Connector
Bracket (Installed on
Implement Only)



To ISO Connector Bracket



Back



Forward

Air Cart Adapter Harness

MY08 and Older - AA44913

Can be used with TBT & TBH Carts

Note: Must populate all 9 pins using
auxiliary power extension harness

To Front
Extension
Harness

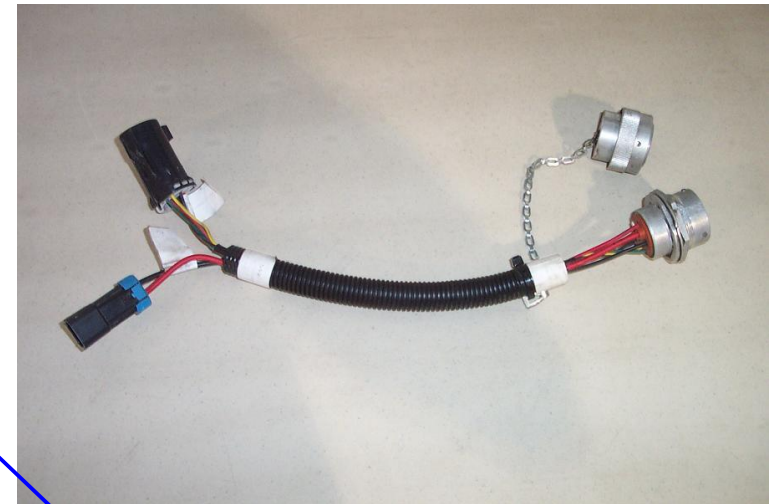


Populating 9 Pins

Pins 57M7613 go into AA44913 adapter as Valve Power and Ground. These Pins will not fit into the normal standard sized Deutsch crimp tool. A punch and vice with careful attention can be utilized to set the pins if the larger crimp tool is not available. (AA44913 is shipped as a 7 pin connector)

MY09 and Newer – AA69990

Can be used with TBT & TBH Carts



Remove old
style 7- pin
Terminator &
plug in place of
Terminator



Rules When Using GreenStar Rate Controller With John Deere Air Carts

Voltage

- If connected with a 1900 Air Cart, it must be 2.5 volts

John Deere Section Control

- Air Cart 2 (Gray Wedge Box MY01 – MY08 1910) - not compatible with Section Control
- SeedStar™2 Air Carts (MY09 1910 and newer) - compatible with Section Control (single section)

Note: Using Section Control with SeedStar2 Air Carts does not require a Rate Controller unless additional product control is needed (NH3)

Adapter Harnesses

- MY08 and Older Tow-Between Air Carts will need an AA44913 if not already equipped
- MY09 and Newer Tow-Between Air Carts will need AA69990 if not already equipped.

AccuDepth™

- AccuDepth and Rate Controllers REQUIRE all 9 pins on the ISO connector (the two large wires provide power and ground for the valves)

Blockage

- Seed Blockage only utilizes 7 pins of the 9 pin ISO connector
- AA48949 Blockage Harness has a 7 pin (terminator) connector at both ends
- AA48950 Blockage Harness has a 9 pin ISO connector on one end and a 7 pin (terminator) connector on the other end



Back



Forward

Rate Controller 37 Pin Connector Pin-Out

Refer to the GreenStar™ Rate Controller operator manual for the current pin-out information.

RATE CONTROLLER OPERATOR MANUAL





Back

Liquid Fertilizer Adapter Harness Pin-Out



Forward

Liquid Fertilizer Adapter (Kit PF90576 – 37 Pin - 2008)			
PIN #	Function	PIN #	Function
1	Valve Ground = 010	20	Plugged
2	Plugged	21	Flowmeter Shield = 960
3	Plugged	22	Plugged
4	ON/OFF Valve = 981	23	Plugged
5	Plugged	24	Plugged
6	Plugged	25	Flowmeter +5vdc = 963
7	Plugged	26	Plugged
8	Plugged	27	Plugged
9	Plugged	28	Flowmeter #1 Signal = 966
10	Plugged	29	Plugged
11	Plugged	30	Plugged
12	Plugged	31	Plugged
13	Plugged	32	Plugged
14	Plugged	33	Plugged
15	Control 1 (-) = 978	34	Plugged
16	Control 1 (+) = 977	35	Plugged
17	Plugged	36	Valve Pwr = 062L
18	Plugged	37	Plugged
19	Plugged		



Raven Adapter Harness Pin-Out

Raven 440/450 Adapter (Kit PF90599 – 37 Pin -2008)			
PIN #	Function	PIN #	Function
1	Valve Ground = 010	20	Plugged
2	Plugged	21	Flowmeter Shield = 960
3	Plugged	22	Plugged
4	Valve Driver 1 = 981	23	Plugged
5	Valve Driver 2 = 983	24	Plugged
6	Valve Driver 3 = 984	25	Flowmeter +5vdc = 963
7	Valve Driver 4 = 985	26	Plugged
8	Valve Driver 5 = 986	27	Plugged
9	Valve Driver 6 = 987	28	Flowmeter #1 Signal = 966
10	Valve Driver 7 = 988	29	Plugged
11	Plugged	30	Plugged
12	Plugged	31	Plugged
13	Plugged	32	Plugged
14	Plugged	33	Plugged
15	Control 1 B (-) = 978	34	Plugged
16	Control 1 A (+) = 977	35	Plugged
17	Plugged	36	Valve Power = 062
18	Plugged	37	Plugged
19	Plugged		





Back



Forward

Raven Adapter Harness Pin-Out (16 Pin Connector Side)

	Raven 440/450 (16 - Pin Adapter Connection Side)
PIN #	Function
1	Valve Ground = 010A
2	Boom 2 = 983
3	Control A = 977
4	Control B = 978
5	Boom 3 = 984
6	Boom 1 = 981
7	Boom 4 = 985
8	Boom 5 = 986
9	Boom 6 = 987
10	Boom 7 = 988
11	Flowmeter Shield = 960
12	Flowmeter 5vdc = 963
13	Flowmeter signal = 966
14	Valve Power = 062A
15	Valve Ground = 10B
16	Valve Power = 62B

