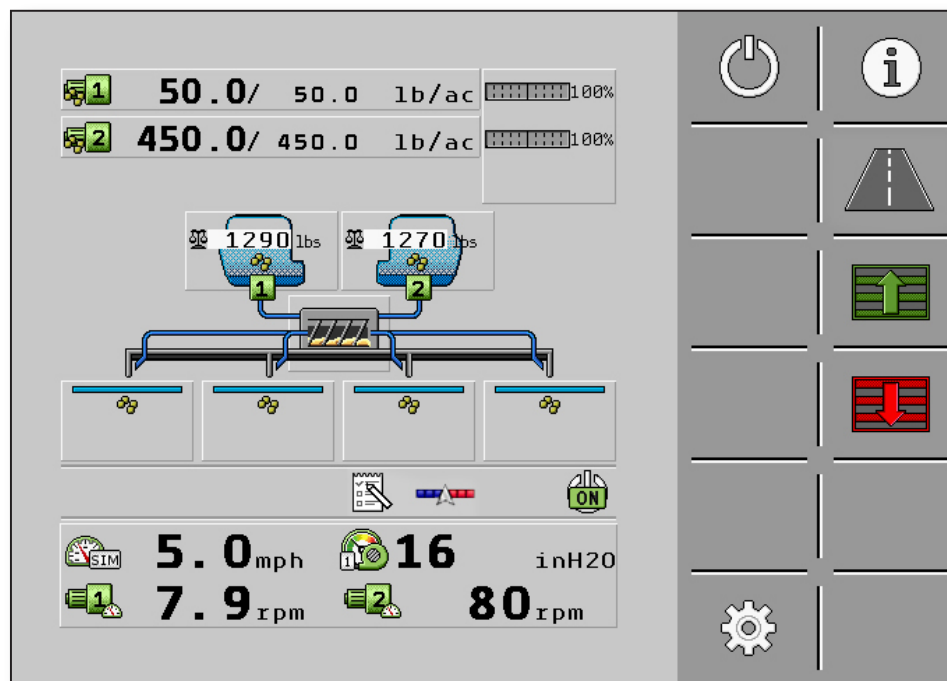


# Harness Installation Guide

## Montag ISOBUS Dry Rate Control System



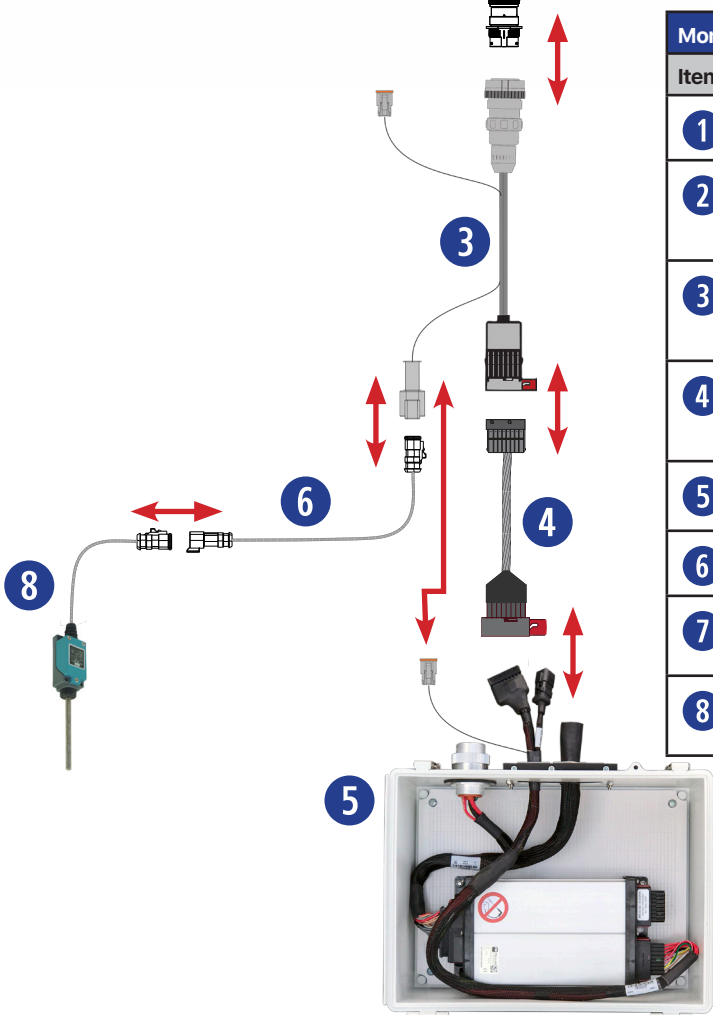
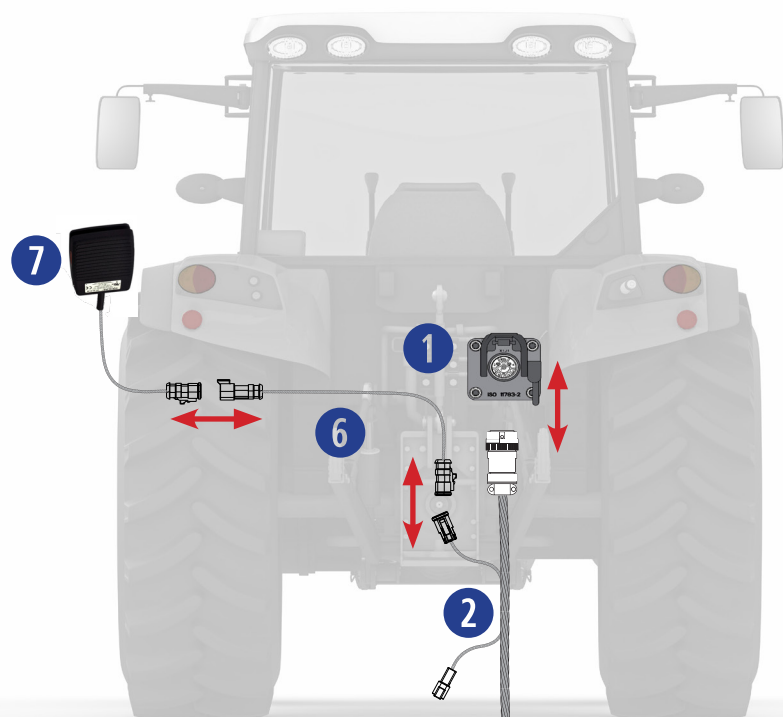
Last Update: 11/30/2017

SW Version 02.00.00.133

Rev. B



# Montag Dry Rate Controller Harness Installation



Montag Dry Rate Controller Harness			
Item	Description	Part Number	Montag Number
1	Tractor ISO Connection		
2	ISO-to-ISO Extension	ME0502040-13 ME0502040-28 ME0502040-43	P002423 P002424 P002425
3	ISOBUS to ECU	ME0502001-13 ME0502001-28 ME0502001-43	P002410 P002334 P002395
4	16p-to-16p Extension	ME0502037-13 ME0502037-28 ME0502037-43	P002344 P002345 P002346
5	Montag GEN 2 Dry Rate Controller		K002009
6	Switch Extension	ME052001	P002341
7	Foot Switch <i>Can not be used if using an Implement switch</i>	ME052000	P002340
8	Implement Switch <i>Can not be used if using an foot switch</i>	ME052003	P002391

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## Understanding the ISOBUS Standard

Agricultural equipment manufacturers around the world have agreed on ISOBUS as the universal protocol for electronic communication between implements, tractors, and computers.

ISOBUS standardizes communication, creates compatibility and enables implements and machines to be used regardless of manufacturer, with the future aim of achieving plug and play capability for every combination. Just plug it in and you're ready to go. In practice, this means that one ISOBUS terminal on the tractor replaces a multitude of terminals specific to single implements on the tractor.



## Understanding ISOBUS Termination

The harnessing for ISOBUS must have termination at the end of the bus. Below are some important elements to help understand ISOBUS termination.

- The ECU for the Montag Dry Rate Controller has built-in termination within the ECU. As long as the Montag Dry Rate Controller ECU is at the end of the CAN bus, there is no need to add a terminator.
- For installations in which the CAN bus harnessing get extended and the Montag Dry Rate Controller is not at the end of the harnessing, the CAN bus will need termination at the end of the of the harness.

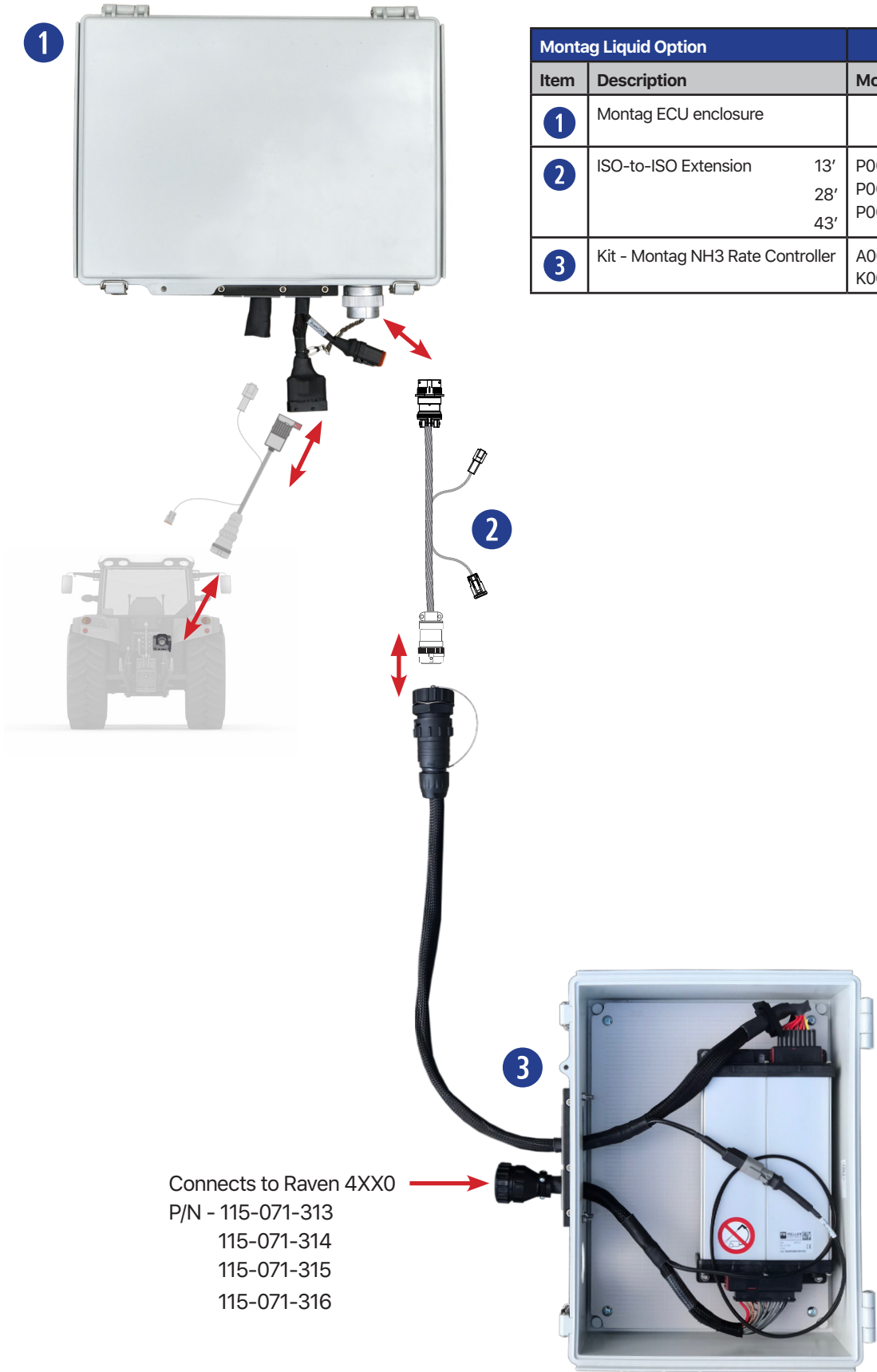
## Understanding ISOBUS CAN Loads

The ISOBUS CAN has a maximum data load.

- The Montag Dry Rate Controller takes up approximately 15% of the CAN bus for data transfer.
- Customers who have large planters with seed monitoring and section control must be cautious about not overloading the CAN bus.
- An overloaded CAN bus will cause the Dry Rate Control system to have errors and not function correctly.
- Customers need to consult with their dealer to find out the current CAN bus of their system before adding a Montag Dry Rate Controller.

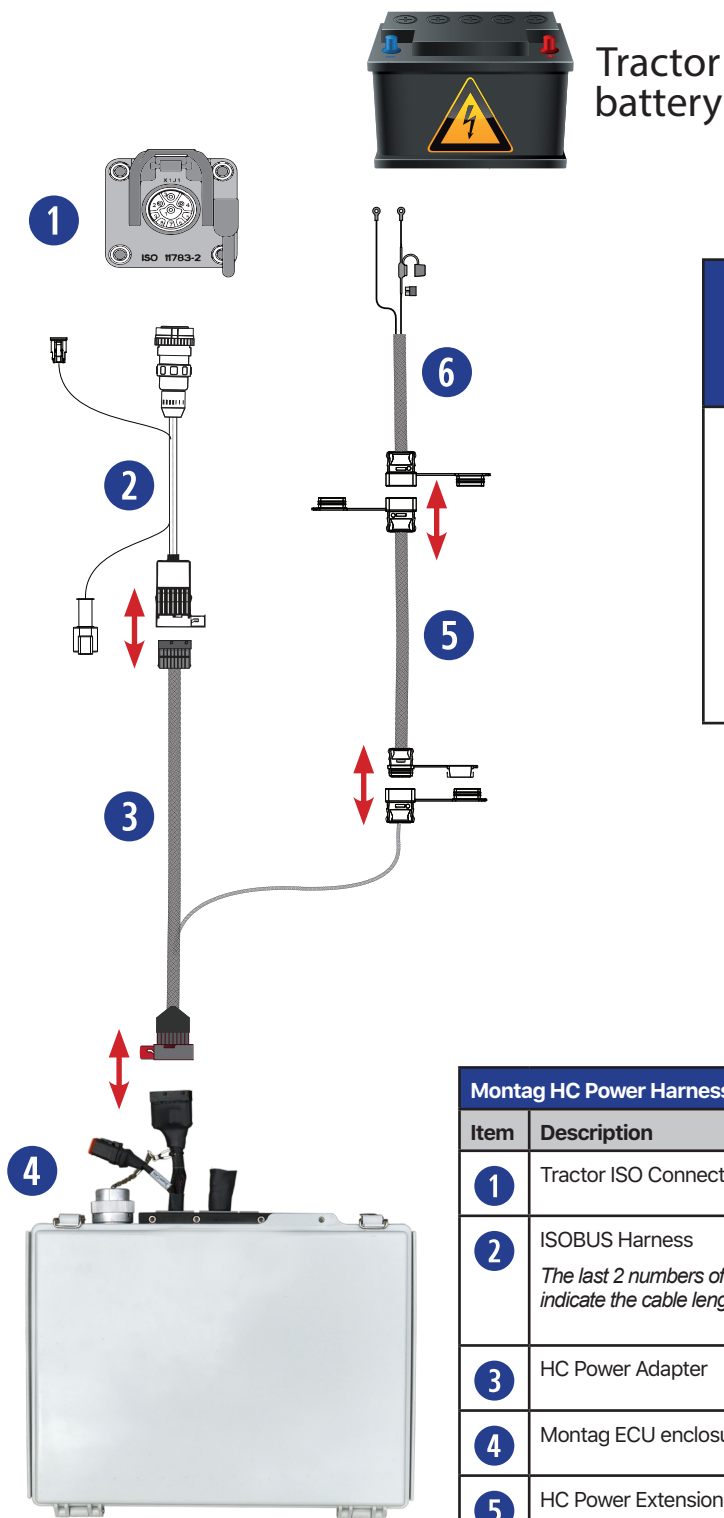


# Montag Liquid Harness Installation



Montag Liquid Option			
Item	Description		Montag P/N
1	Montag ECU enclosure		
2	ISO-to-ISO Extension	13'	P002423
		28'	P002424
		43'	P002425
3	Kit - Montag NH3 Rate Controller		A002410 / K002010

# Montag HC Power Harness Installation

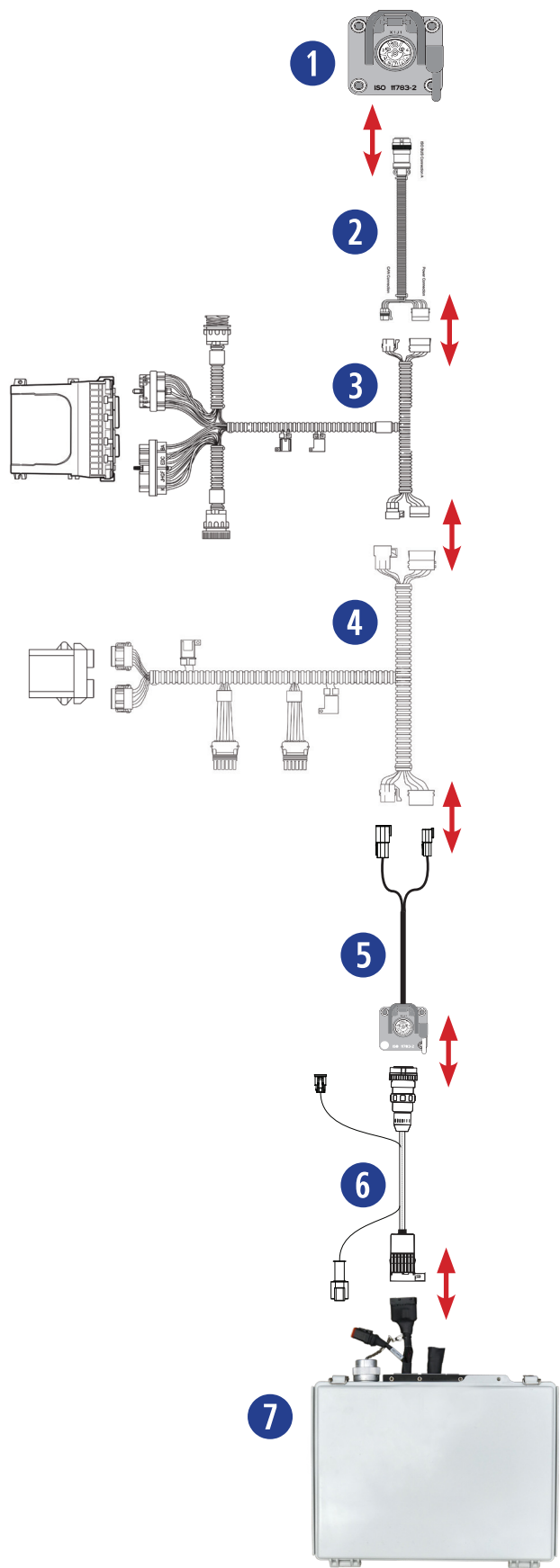


## How do I know if I need to use the High Current Power Harness?

- The Montag Dry Rate Controller system draws 15 amps.
- Use an Amp Clamp Meter to check your current draw on the ISOBUS harness.
- If your current system draws 15 amps or more, you will need to use the HC Power Harness option.

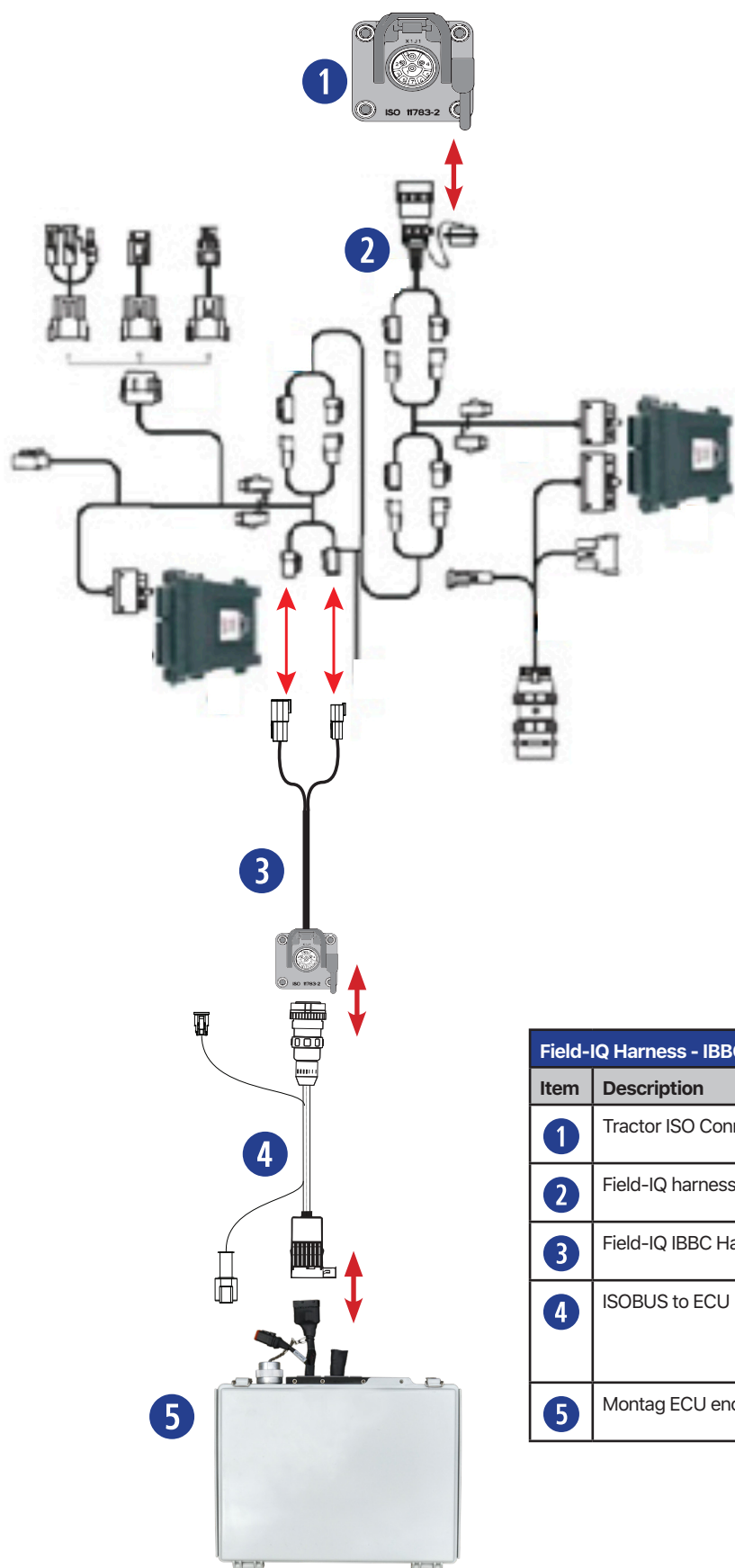
Montag HC Power Harness			
Item	Description	Part Number	Montag Number
1	Tractor ISO Connection		
2	ISOBUS Harness <i>The last 2 numbers of the P/N indicate the cable length in feet.</i>	ME0502001-03 ME0502001-13 ME0502001-28 ME0502001-43	P002702 P002410 P002334 P002395
3	HC Power Adapter	ME0502048	P002439
4	Montag ECU enclosure		
5	HC Power Extension	ME0514008	P002438
6	HC Battery Harness	ME0514007	P002437
K002073 includes items 3, 5 and 6			

# DICKEY-john Harness Installation - IBBC Connector



DICKEY-john Harness - IBBC Connector			
Item	Description	Montag P/N	
1	Tractor ISO Connection		
2			
3			
4			
5	DICKEY-john IBBC Harness kit	K002064	
6	ISOBUS to ECU	13' P002410 28' P002334 43' P002395	
7	Montag ECU enclosure		

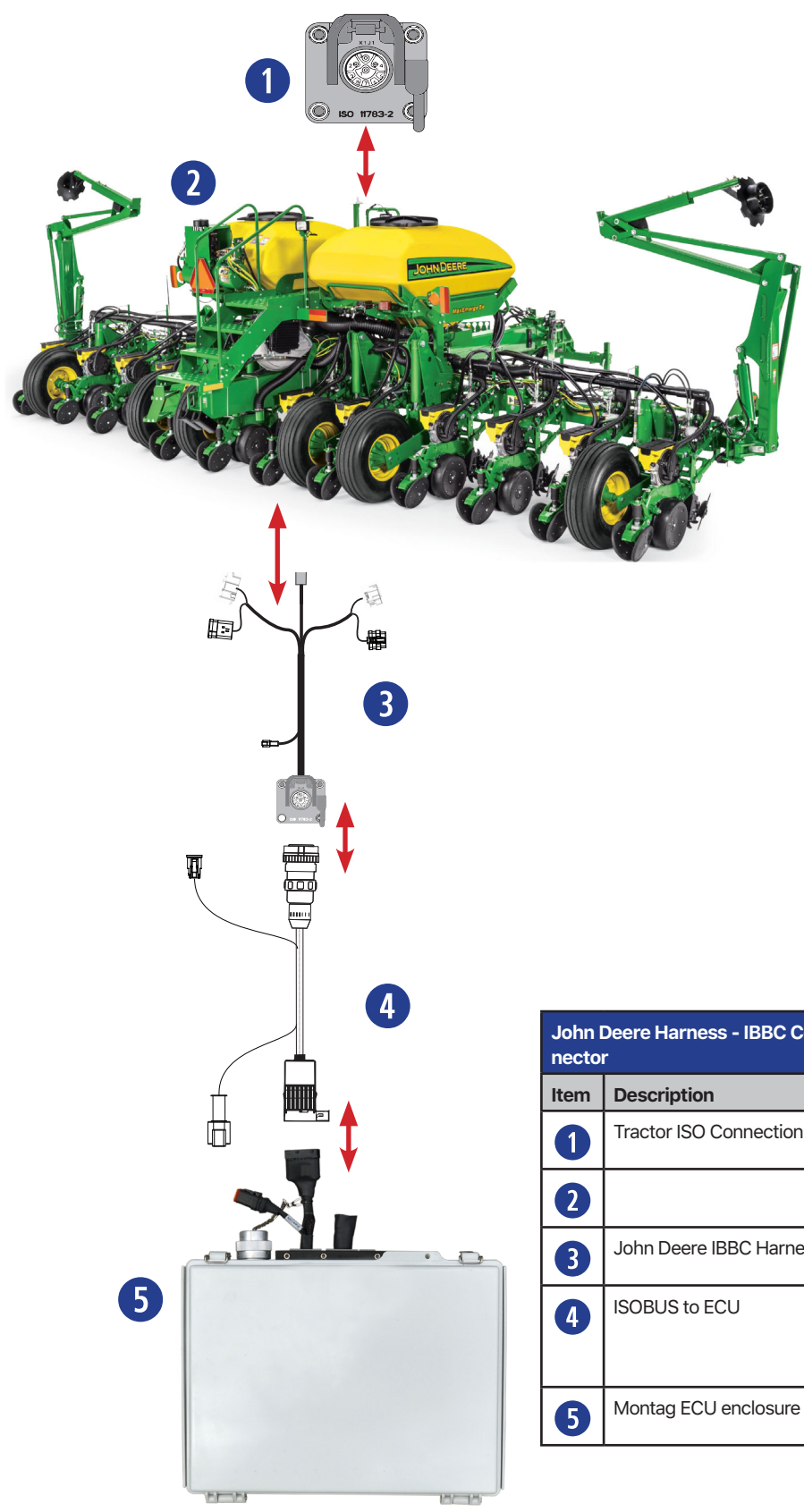
# Field-IQ Harness Installation - IBBC Connector



Field-IQ Harness - IBBC Connector		
Item	Description	Montag Number
1	Tractor ISO Connection	
2	Field-IQ harnessing	
3	Field-IQ IBBC Harness kit	K002069
4	ISOBUS to ECU	13' P002410 28' P002334 43' P002395
5	Montag ECU enclosure	



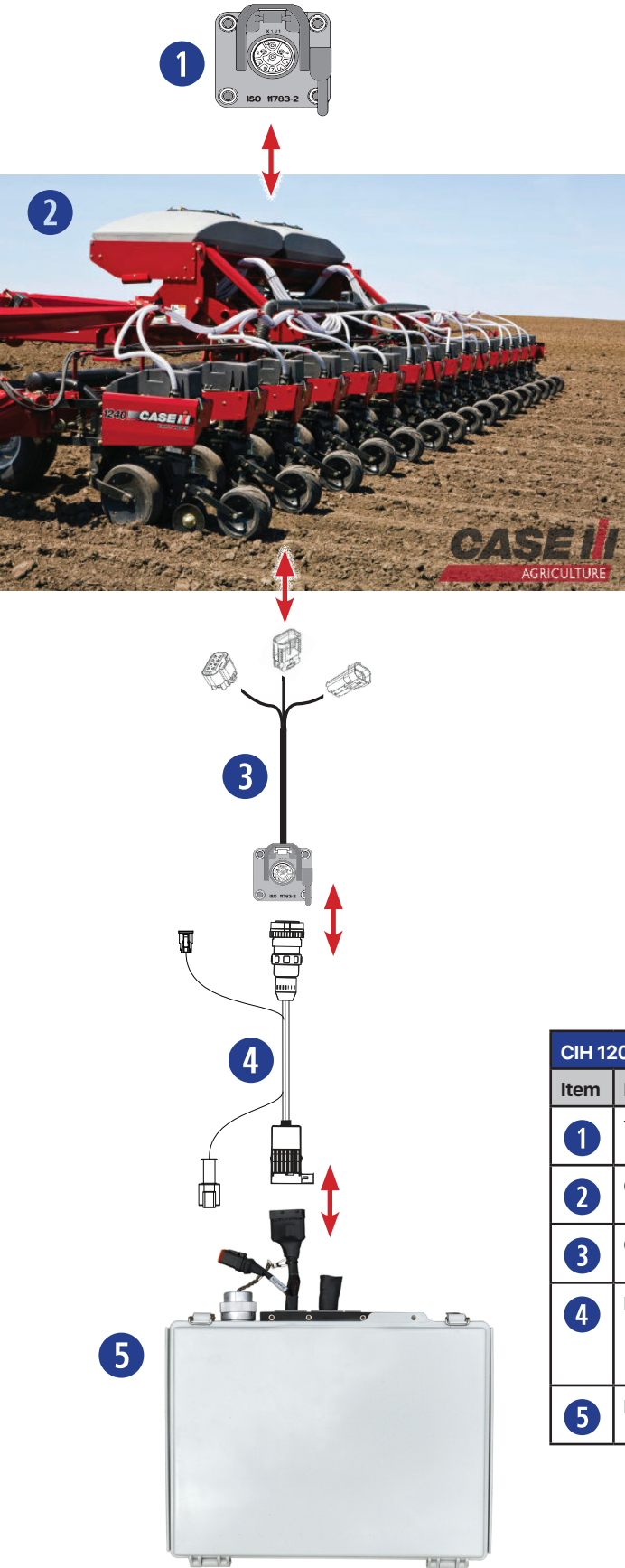
# John Deere Harness Installation - IBBC Connector



John Deere Harness - IBBC Connector			
Item	Description	Montag Number	
1	Tractor ISO Connection		
2			
3	John Deere IBBC Harness kit	K002070	
4	ISOBUS to ECU	13' 28' 43'	P002410 P002334 P002395
5	Montag ECU enclosure		

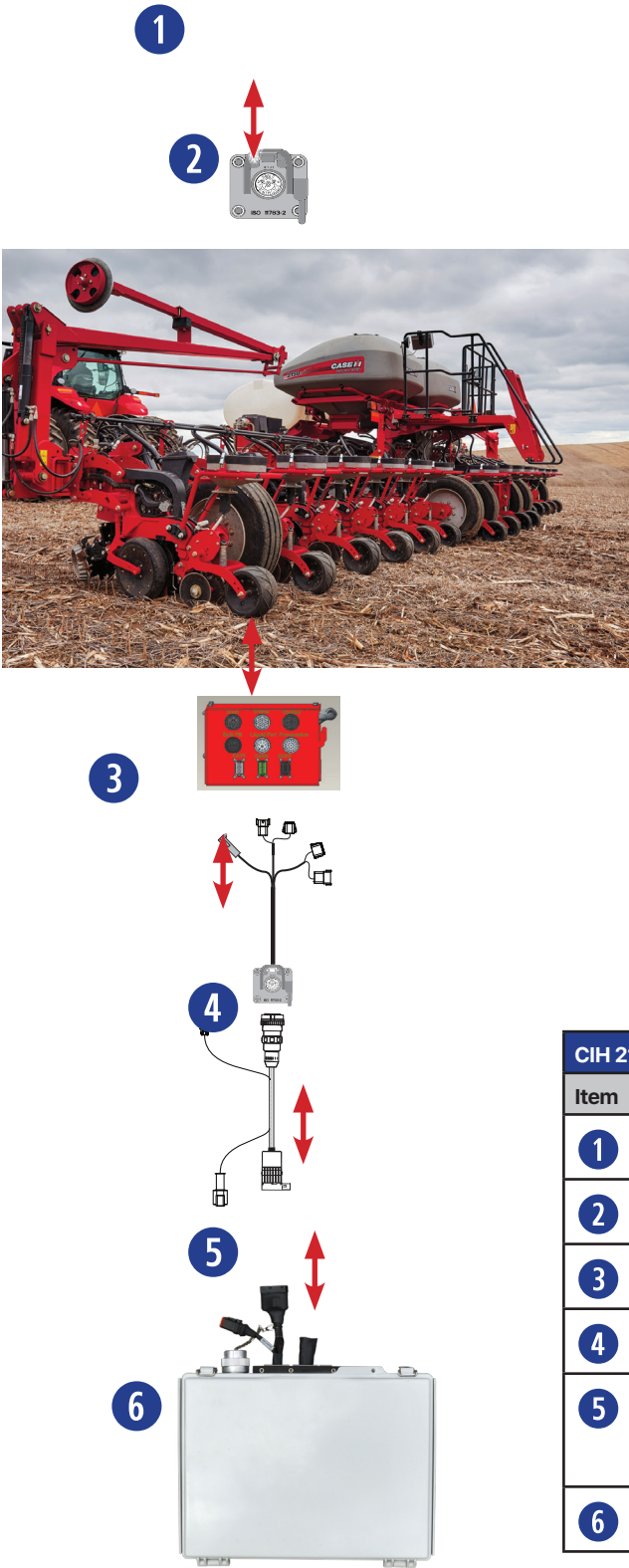


# CIH 1200 Harness Installation - IBBC Connector



CIH 1200 Harness - IBBC Connector		
Item	Description	Montag P/N
1	Tractor ISO Connection	
2	CIH 1200 Planter Harnessing	
3	CIH 1200 IBBC Harness kit	K002071
4	ISOBUS to ECU	13' P002410 28' P002334 43' P002395
5	Montag ECU enclosure	

# CIH 2100 Harness Installation - IBBC Connector



CIH 2100 Harness - IBBC Connector		
Item	Description	Montag P/N
1	Tractor ISO Connection	
2	CIH 2100 Planter Harnessing	
3	Hydraulic Connection	
4	CIH 2100 IBBC Harness kit	K002072
5	ISOBUS to ECU	13' P002410 28' P002334 43' P002395
6	Montag ECU enclosure	