

USERS GUIDE

INSTALLATION & OPERATION MANUAL



AGLEADER

09063001c



HEADSIGHT.COM|574.546.5022

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About this Manual

How to use this manual

The instructions in this manual are in the order that they should be completed for new installations. Complete all applicable instructions in each section before proceeding. Note that some sections are labeled to indicate they only apply to certain machines or applications. An index is available in the front of the manual to help find technical information for previously installed systems.



This icon designates information of which you should take note.



This icon indicates a special tool needed for a given task.



This icon designates an important instruction.

Suggestions

If you have any suggestions to improve this manual please call 574-546-5022 or email info@headsight.com.

Disclaimers

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US10244680; EP2955993(DE,ES,FR,IT,UK); EP2956851 AU2004203614;
BR112015019262; BR112015019286; CA2900987; CA2900994; WO20180152266

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Safety Information

Safety Stop



Before working on combine or under header always:

1. Perform all combine and header manufacturer safety precautions for servicing header.
2. Insert stop to prevent movement of header.
3. Set combine parking brake.
4. Turn off combine and remove key from ignition.
5. Disconnect all drive shafts from the header.





This guide is to be used with the Horizon or Truesight 2 combine specific Installation combine manuals when connecting to a AgLeader Display and/or AgLeader steering devices.

Installation Overview

- Connecting Horizon or Truesight2 to an AgLeader ISOBUS VT can be confusing due to the variety of cables and systems available from AgLeader for various types of installations.
- This guide is designed to assist with the most common types of installations.
- **The key to most installations is to correctly identify the AgLeader display and/or steering device (Truesight2 only) cable used and the ISOBUS connection on it.**
- Layout drawings show common AgLeader cables, and how the Headsight steering device & HT9412 ISO/VT adapter should be connected.
- If you have a display harness not shown, please contact Headsight with that information
- Note that AgLeader plugs are often not labeled.



To install a Horizon or Truesight system to an AgLeader system, follow the steps below in order.

1. Identify the type of system
 - See the Selection Guide
2. For Truesight2 only, install the steering device interface harness .
 - See AgLeader steering device specific diagram
 - For non-AgLeader steering Devices (OEM combine), see combine specific manual
 - Certain combinations require special adapters - See Special Adapters for OEM Valves & Encoders.
3. Install the ISOBUS (display) interface harness .
 - See System & Display specific diagram
4. Find the ISOBUS (VT) application on your display.
 - This manual
5. Refer to the Horizon or Truesight2 Users Manual for more details on operation & settings, etc.

ISOBUS Display Harness

1. ISOBUS Display Harness

- HT9412
- Should be supplied with a HT9208 terminator on Y980



Steering Device Harnesses

1. Paradyne Valve Harness

- TS-AGPD
- Depending on application, use with
 - HT2836 pressure sensor tee
 - HT2838 Flowmeter Tee



2. Z2 Valve Harness

- TS-AGZ2
- Use with HT2836 pressure sensor tee



3. "Disengage" tee

- HT2836 pressure sensor tee (left)
- HT2838 Flowmeter Tee (right)



4. SteadySteer Motor Harness

- TS-AGLM
- Requires use of AgLeader motor harness 4006107-12



5. Ontrac3 Motor Harness

- TS-AFOT3



6. OnTrac2 Motor Harness

- TS-AFOT2



Selection Guide

1. Choose Headsight Product you are connecting

- Horizon Bridge
- Truesight2
 - If using the Truesight2 as a bridge for Horizon, use the Truesight2 connection patterns

Display & Cable Selection

2. Identify the AgLeader display & display cable used in your application.

The harness p/n should be on a tag near the display.

- **Integra Display Cables**
 - 4001608 (Note: factory installed option in Lexion combines)
 - 4002506
- **InCommand Display Cables**
 - 4004671
 - 4004269
- **Note:** the InCommand display can be installed with an Integra display cable and a short adapter cable. Make sure to find the actual “display cable” p/n.

Steering Device Selection (Truesight2 only)

3. For Truesight2 systems, Identify the steering device used.

- **SteadySteer Motor**
 - Use steering device harness TS-AGLM
- **OnTrac3 Motor**
 - Use steering device harness TS-OT3
- **Ontrac2 Motor**
 - Use steering device harness TS-AFOT2
- **Paradyme Valves**
 - Use steering device harness TS-AGPD
- **SteerCommand Z2 valves**
 - Use steering device harness TS-AGZ2
- **Other (OEM)**
 - CIH Accuguide, JD Autotrak, AGCO AutoGuide, etc
 - See combine model specific installation instructions for connecting steering device.
- **Special Adapter Instructions**
 - For Truesight + AgLeader on CNH Legacy cabs w/Accuguide - see instructions for encoders
 - For Truesight + AgLeader on JD AutoTrac - see instructions for encoders
 - For Z2 control system on CIH Midrange (x088, x130, x140, x150) Accuguide only, see included instructions.
 - For Z2 control system on JD CCH (Sx80, Sx90) Autotrak only, see included instructions.

Connection Diagram Guide



The following pages show connection diagrams for many common systems. Choose the diagram that best fits your specific system. When Steering Device diagrams also include the ISOBUS instructions, use those rather than the generic ISOBUS diagrams.

ISOBUS (Display) Connection

1. Follow the Instructions and the cable layout drawing applicable to your installation
 - Horizon Bridge w/ 4004671 or 4004269 cables
 - Horizon Bridge w/ 4002506 cable
 - Horizon Bridge w/ 4001608 cable (except Lexion, see below)
 - Horizon Bridge in Claas Lexion w/ 4001608 cable
 - Truesight2 w/ 4004671 or 4004269 cable
 - Truesight2 w/ 4002506 cable
 - Truesight2 w/ 4001608 cable
2. Connect the HT9412 & terminator as shown.

Steering Device Connection (Truesight2 only)

1. Follow the Instructions and the cable layout drawing applicable to your installation
 - SteadySteer Motor
 - Ontrac3 Motor
 - Ontrac2 Motor
 - Paradyme Valve
 - SteerCommand Z2 valve
2. Connect the Steering Device harness as shown on the layout drawing.

Special Adapters for OEM Valves & Encoders (Truesight only)

1. Several applications require special adapters when operating Truesight with an AgLeader steering system on OEM valves. Follow the instructions to properly connect the systems.
 - Truesight + AgLeader on CNH Legacy cab - Encoders
 - Truesight + AgLeader on JD AutoTrac- Encoders
 - SteerCommand Z2 controls on OE CIH Midrange w/ Accuguide valves
 - SteerCommand Z2 controls on OE JD CCH w/Autotracs valves

Horizon Bridge w/ Display Cables p/n 4004671 or 4004269

- Used with Incommand Only

1. Use ISOBUS bridge harness HT9412.
2. Identify the ISOBUS connector on the AgLeader Display cable.
 - 6 pin Deutsch connector
 - This connector has a Pink, Black, & 2 sets of Yellow and Green wires
3. Disconnect any previously connected “accessory” harness (if any) from this connector.
4. Connect Y983 to the Ag Leader Display cable 6 pin Deutsch connector.
5. Reconnect the original “accessory” harness (if any) to Y982.
6. Connect supplied Terminator HT9208 to Y980.
7. Connect Y902 to the Horizon Bridge.

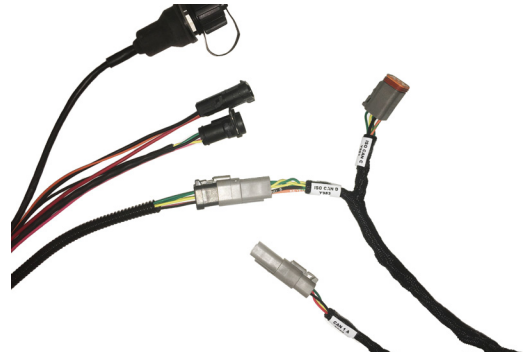
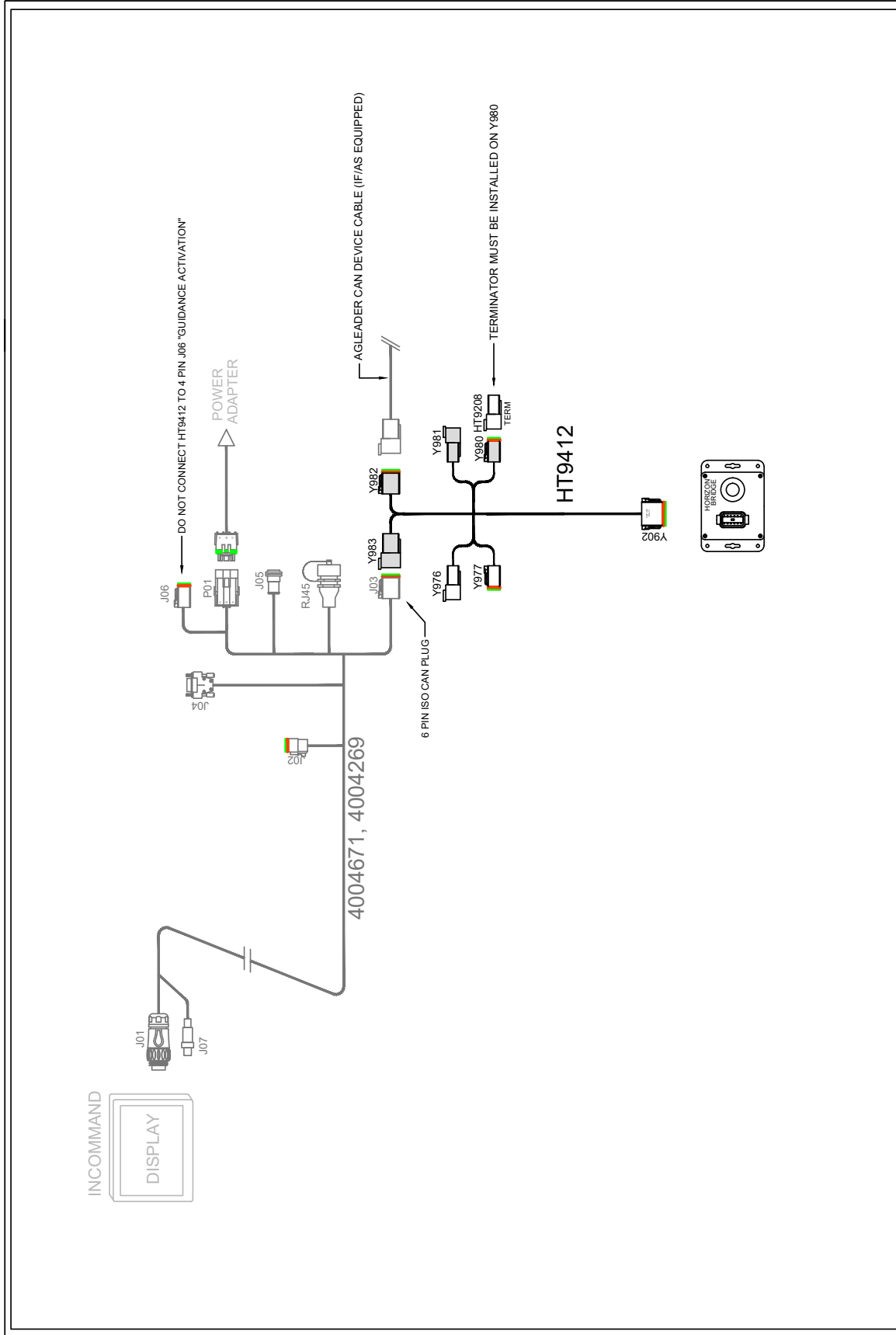


Diagram - Horizon Bridge w/ 4004671 or 4004269 Display Cable



NOTES: HORIZON BRIDGE INSTALLATION FOR 4004671 DISPLAY CABLE (INCOMMAND ONLY)		REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED												
REV	DESCRIPTION	DATE	APPROVED																
FILE NAME AGLEADER CONNECTIONS R2 W/4004671 DISPLAY CABLE		PART NUMBER HORIZON -AgLeader																	
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REV. 1		SHEET 01																	

Horizon Bridge w/ Display Cable p/n 4002506-12 or -15

- Used with Integra
 - May have adapter with Incommand
1. Use CAN bridge harness HT9412.
 2. Identify the AgLeader “CAN Power” plug.
 - 4 pin Deutsch plug
 - This connector has a pink and black wire only
 - Should be labeled “CAN B Power / Terminator”.
 3. Disconnect any previously connected cable (if any) from the Ag Leader Display cable.
 4. Connect Y976 to Ag leader “Power” plug.
 5. Reconnect the original accessory harness (if any) to Y977.
 6. Identify the AgLeader ISOBUS “we” connectors.
 - Male/Female set of 4 pin Deutsch connector
 - These connectors have a Red, black, yellow and green wire
 7. Disconnect any previously connected cable (if any) from these connectors.
 8. Connect Y981 to mating AgLeader connector.
 9. Reconnect the original accessory harness (if any) to Y980.
 - Otherwise, connect supplied Terminator HT9208 to Y980.
 10. Connect Y902 to the Horizon Bridge.

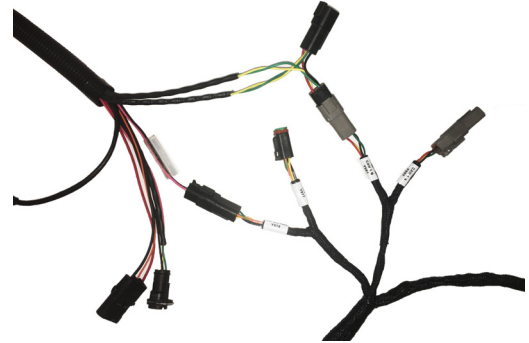
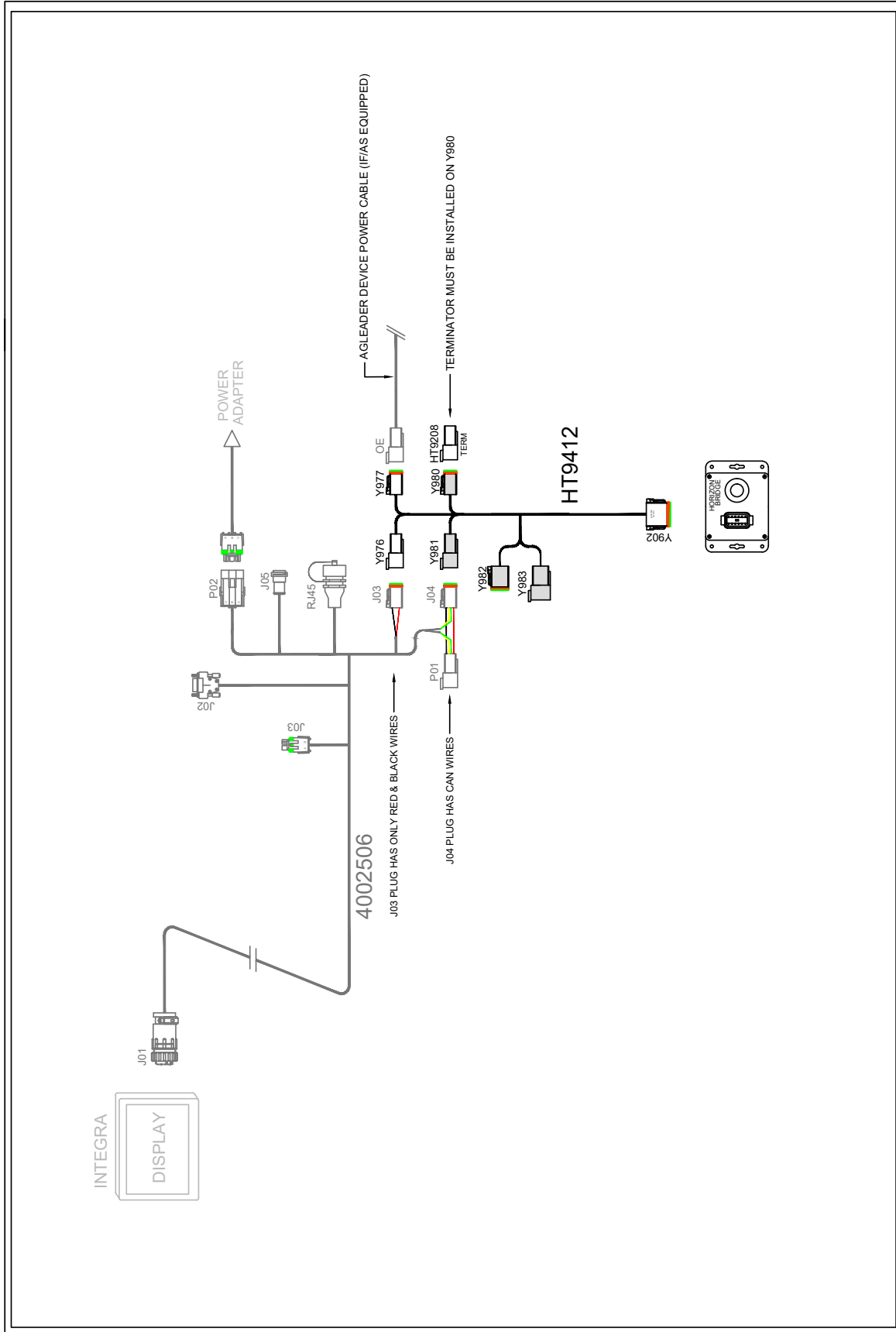


Diagram - Horizon Bridge w/ 4002506 Display Cable



NOTES: HORIZON BRIDGE INSTALLATION FOR 4002506 DISPLAY CABLE		REVISIONS DESCRIPTION DATE APPROVED	
FILE NAME AGLEADER CONNECTIONS R2 W/4002506 DISPLAY CABLE		PART NUMBER HORIZON - AgLeader	
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Horizon Bridge w/ Display Cable p/n 4001608-12

- Used with Integra
- May have adapter with Incommand

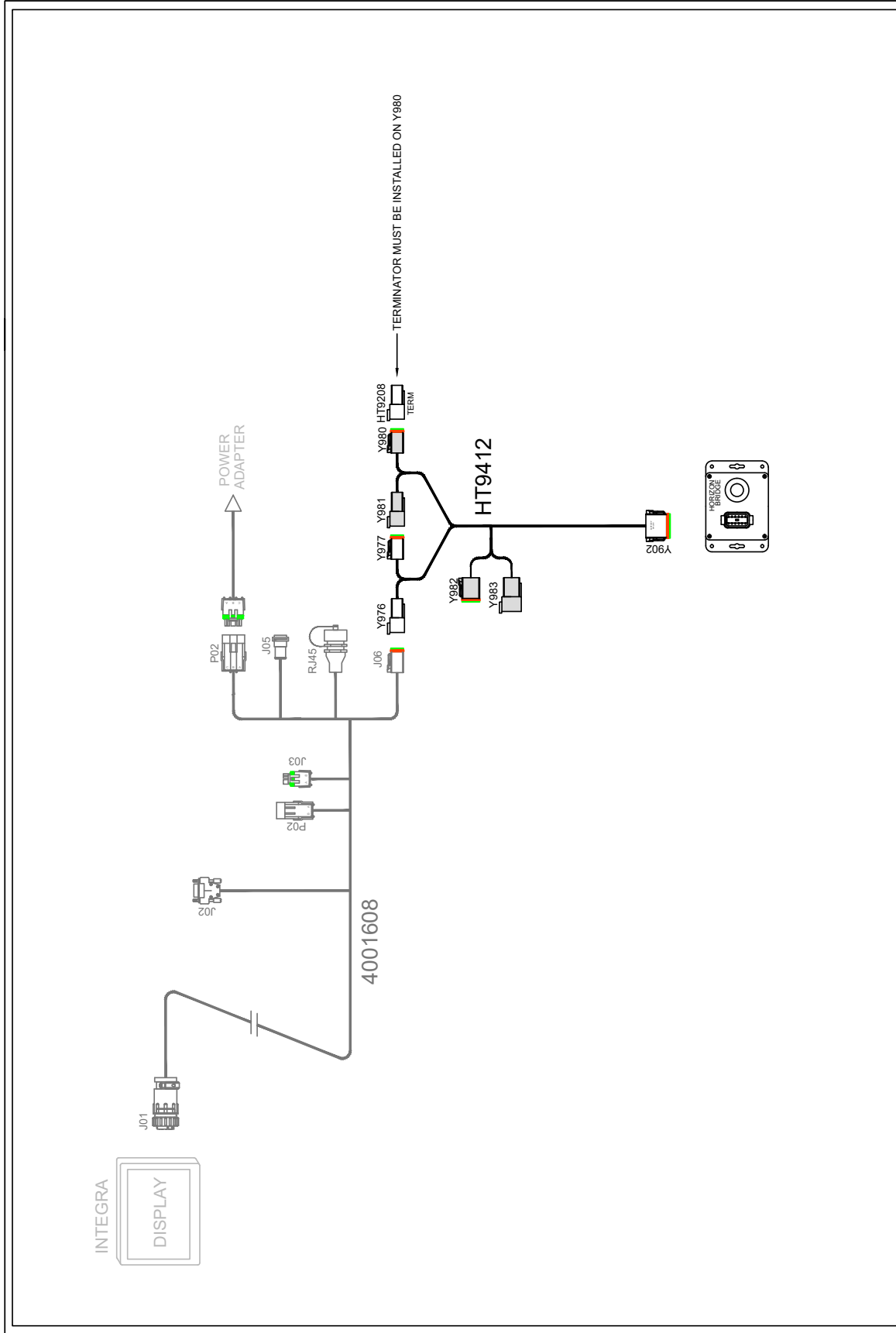


This section not for use with Lexion combines. Please refer to the Lexion specific instructions in this manual

1. Use CAN bridge harness HT9412.
2. Identify the ISOBUS connection on the AgLeader Display cable
 - 4 pin Deutsch connector.
 - This connector has a Pink, Black, Yellow and Green wire.
3. Disconnect any previously connected cable (if any)
4. Connect Y976 to Ag Leader 4 pin Deutsch connector.
5. Connect Y977 to Y981.
6. Reconnect the original accessory harness (if any) to Y980.
 - Otherwise, connect supplied Terminator HT9208 to Y980.
7. Connect Y902 to the Horizon Bridge.



Diagram - Horizon Bridge w/ 4001608 Display Cable



NOTES: HORIZON BRIDGE INSTALLATION FOR 4001608 DISPLAY CABLE		REVISIONS DESCRIPTION DATE APPROVED	
FILE NAME AGLEADER CONNECTIONS R2 W/4001608 DISPLAY CABLE		PART NUMBER HORIZON - AGLEADER	
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DRAWN 8/22/2023		SHEET 01	
DRAWN BY: JHK		SCALE	

Horizon Bridge on Lexion w/ Display Cable p/n 4001608-12

- Used with Integra
- May have adapter with Incommand

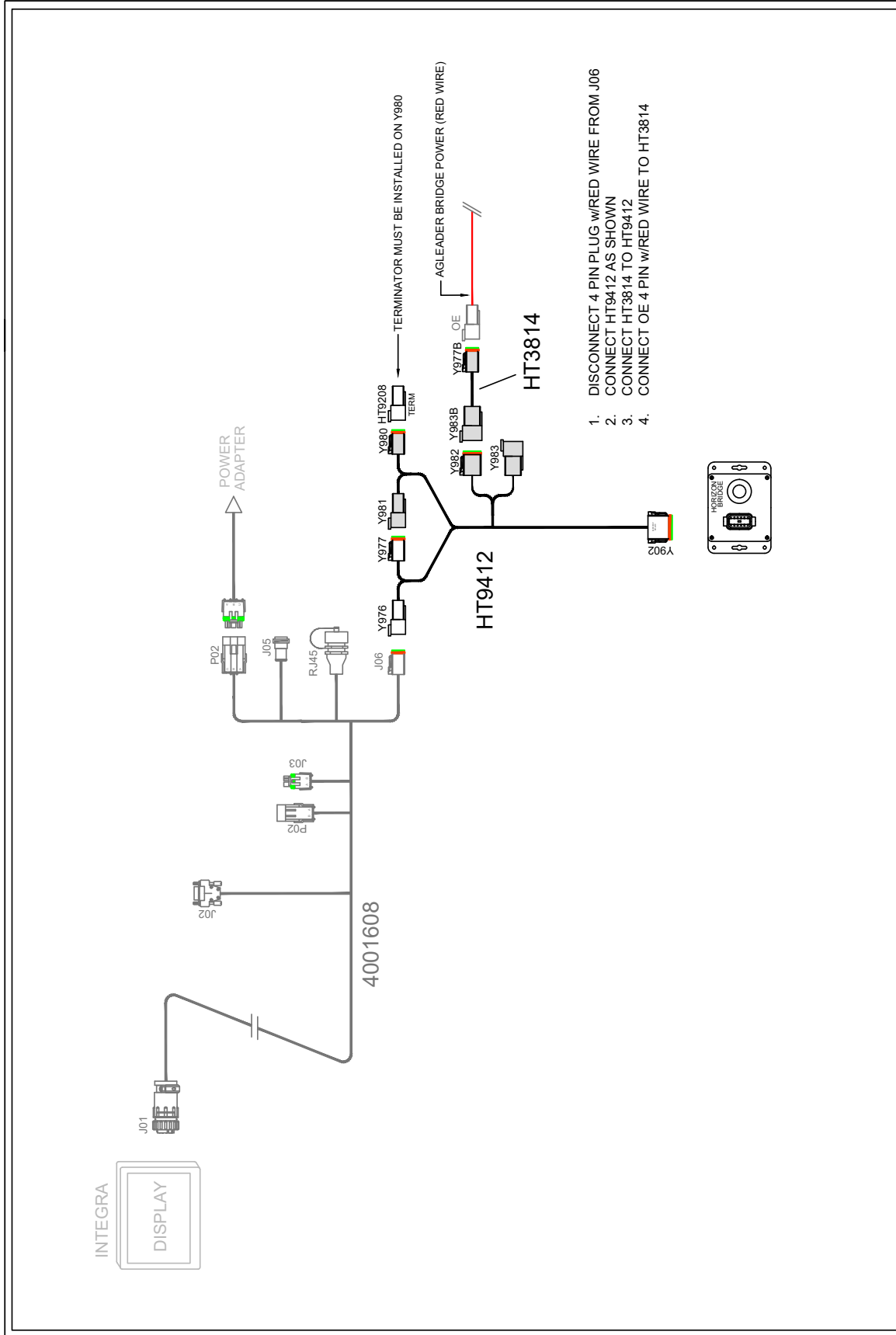


Many Lexion combines w/AgLeader have this harness installed as OEM. If your Lexion is equipped with one of the other harnesses listed above, follow the instructions for that harness.

1. Use CAN bridge harness HT9412. May also req. HT3814.
2. Identify the ISOBUS connection on the AgLeader Display cable
 - 4 pin Deutsch connector.
 - This connector has a Pink, Black, Yellow and Green wire.
3. Disconnect any previously connected cable (if any)
 - Typically has a single Red or Red & black wire only
4. Connect Y976 to Ag Leader 4 pin Deutsch connector.
5. Connect Y977 to Y981.
6. Connect supplied Terminator HT9208 to Y980.
7. For installation with a previously disconnected AgLeader cable (see step 3 above),
 - Use adapter HT3814.
 - Connect Y983B to Y982 (6 pin) on HT9412 harness
 - Connect Y977B to existing Agleader cable
 - Typically used on Lexion to route power to AgLeader bridge module
8. Connect Y902 to the Horizon Bridge.



Diagram - Horizon Bridge on Lexion w/ 4001608 Display Cable



HEADSIGHT® HARVESTING SOLUTIONS		FILE NAME AGLEADER CONNECTIONS R2 W/4001608 DISPLAY CABLE																
REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED													PART NUMBER LEXION - AgLeader
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Truesight2 w/ Display Cables p/n 4004671 or 4004269

- Used with Incommand Only
1. Use CAN bridge harness HT9412.
 2. Identify the ISOBUS connector on the AgLeader Display cable.
 - 6 pin Deutsch connector
 - This connector has a Pink, Black, & 2 sets of Yellow and Green wires
 3. Disconnect any previously connected “accessory” harness (if any) from this connector.
 4. Connect Y983 to the Ag Leader Display cable 6 pin Deutsch connector.
 5. Reconnect the original “accessory” harness (if any) to Y982.
 6. Connect supplied Terminator HT9208 to Y980.
 7. Connect Y902 to the Y9002 on Truesight2 Trunk harness.
 - Some CAN steering motor harnesses also wye into this connection. See steering device specific Instructions.

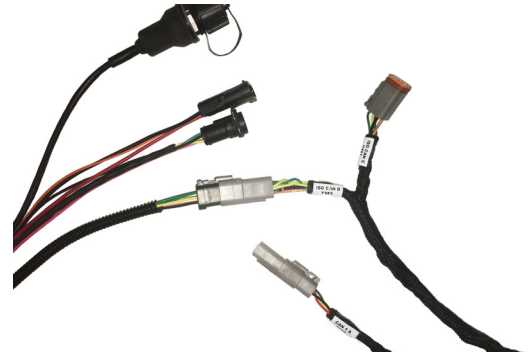
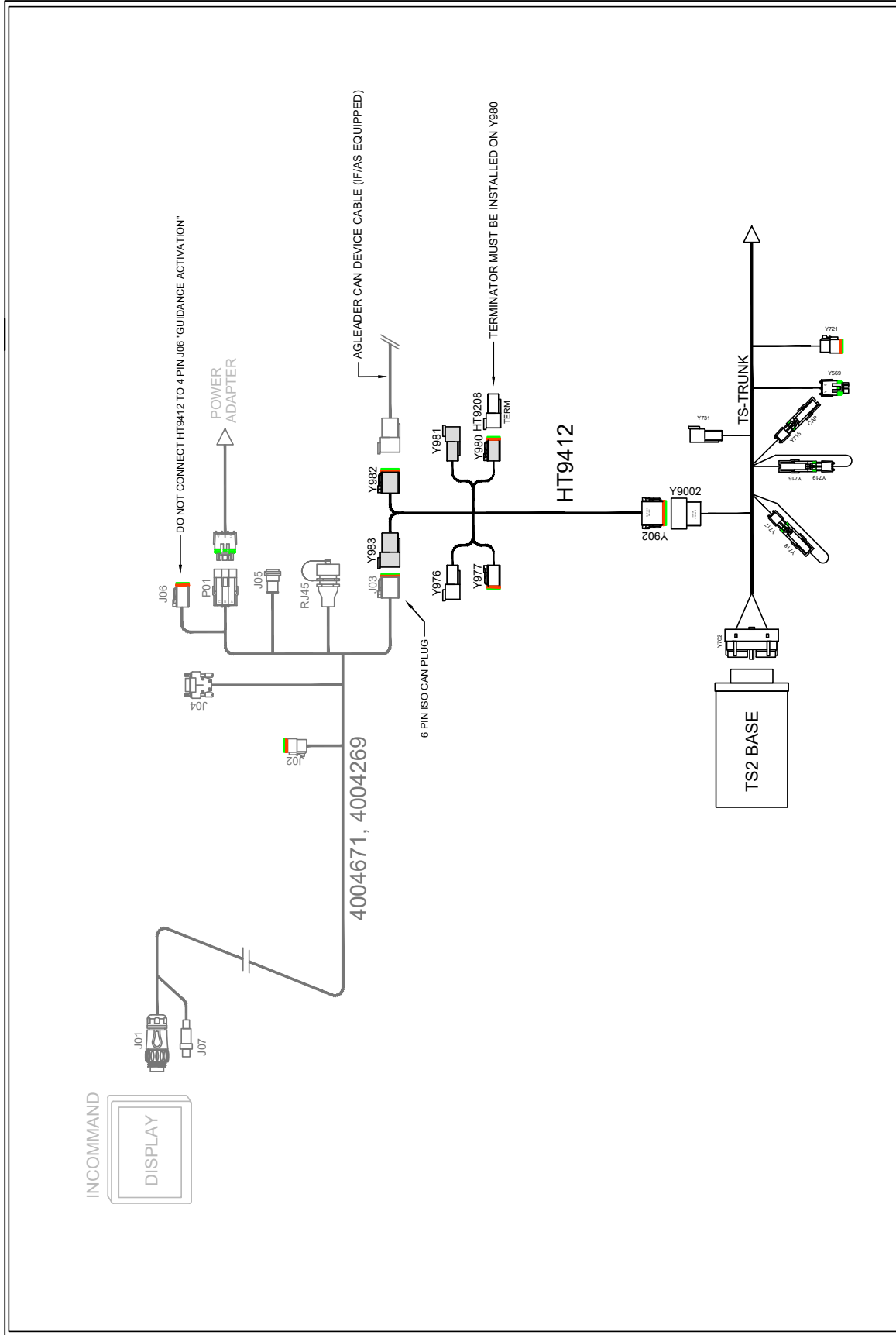


Diagram - Truesight2 w/ 4004671 or 4004269 Display Cable



NOTES: TRUESIGHT 2 INSTALLATION FOR 4004671 DISPLAY CABLE (INCOMMAND ONLY)		REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED																	FILE NAME AGLEADER CONNECTIONS R2 W/4004671 DISPLAY CABLE	
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Truesight2 w/ Display Cable p/n 4002506-12 or 4002506-15

- Used with Integra
 - May have adapter with Incommand
1. Use CAN bridge harness HT9412.
 2. Identify the AgLeader ISOBUS “wye” connectors.
 - Male/Female set of 4 pin Deutsch connector
 - These connectors have a Red, black, yellow and green wire
 3. Disconnect any previously connected cable (if any) from these connectors.
 4. Connect Y981 to mating AgLeader 4 pin Deutsch connector.
 5. Reconnect the original accessory harness (if any) to Y980.
 - Otherwise, connect supplied Terminator HT9208 to Y980.
 6. Connect Y902 to the Y9002 on Truesight2 Trunk harness.
 - Some CAN steering motor harnesses also wye into this connection. See steering device specific Instructions.

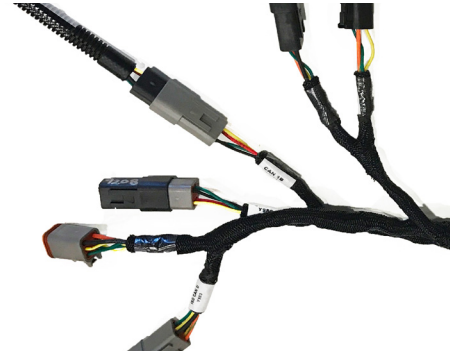
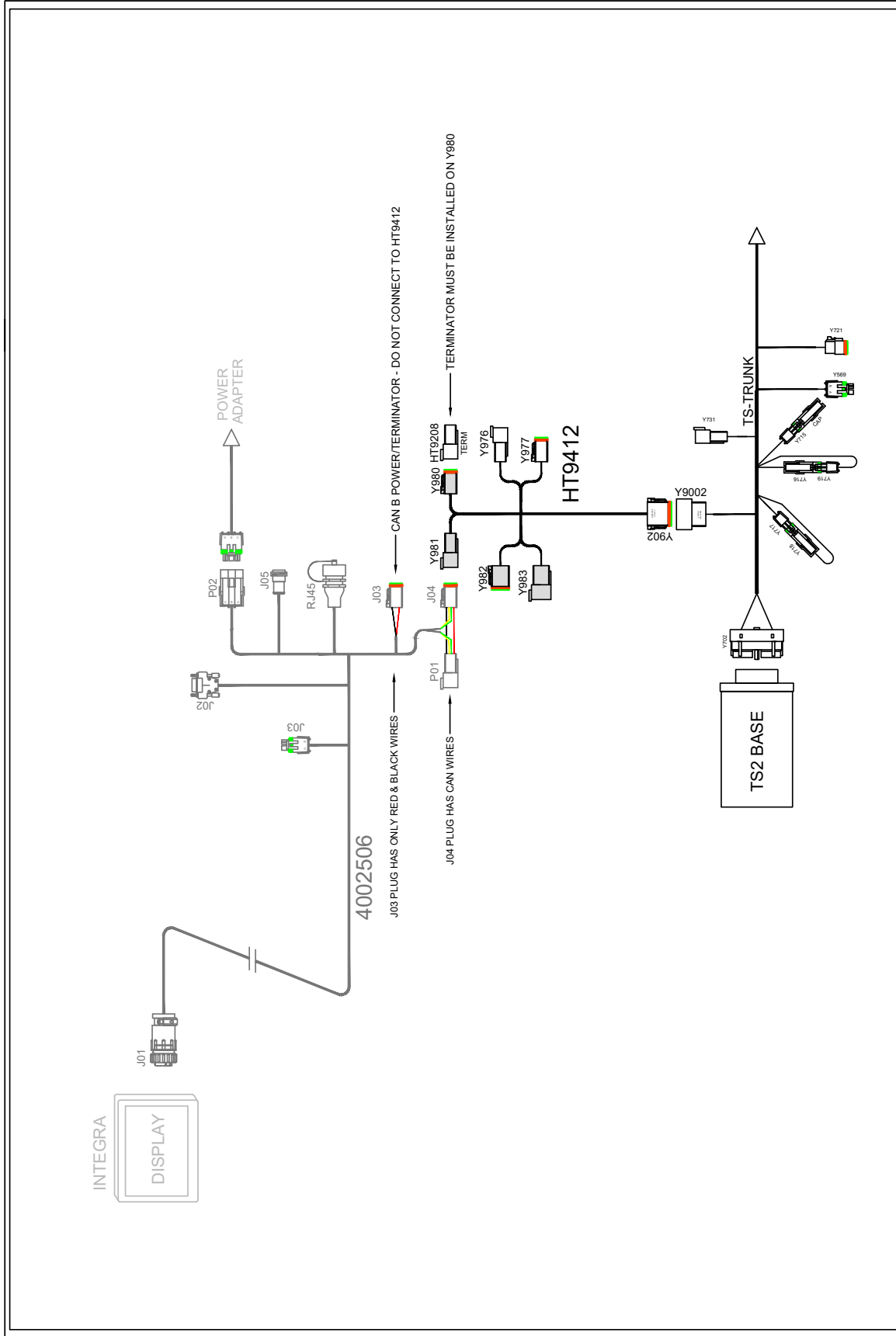


Diagram - Truesight2 w/ 4002506 Display Cable



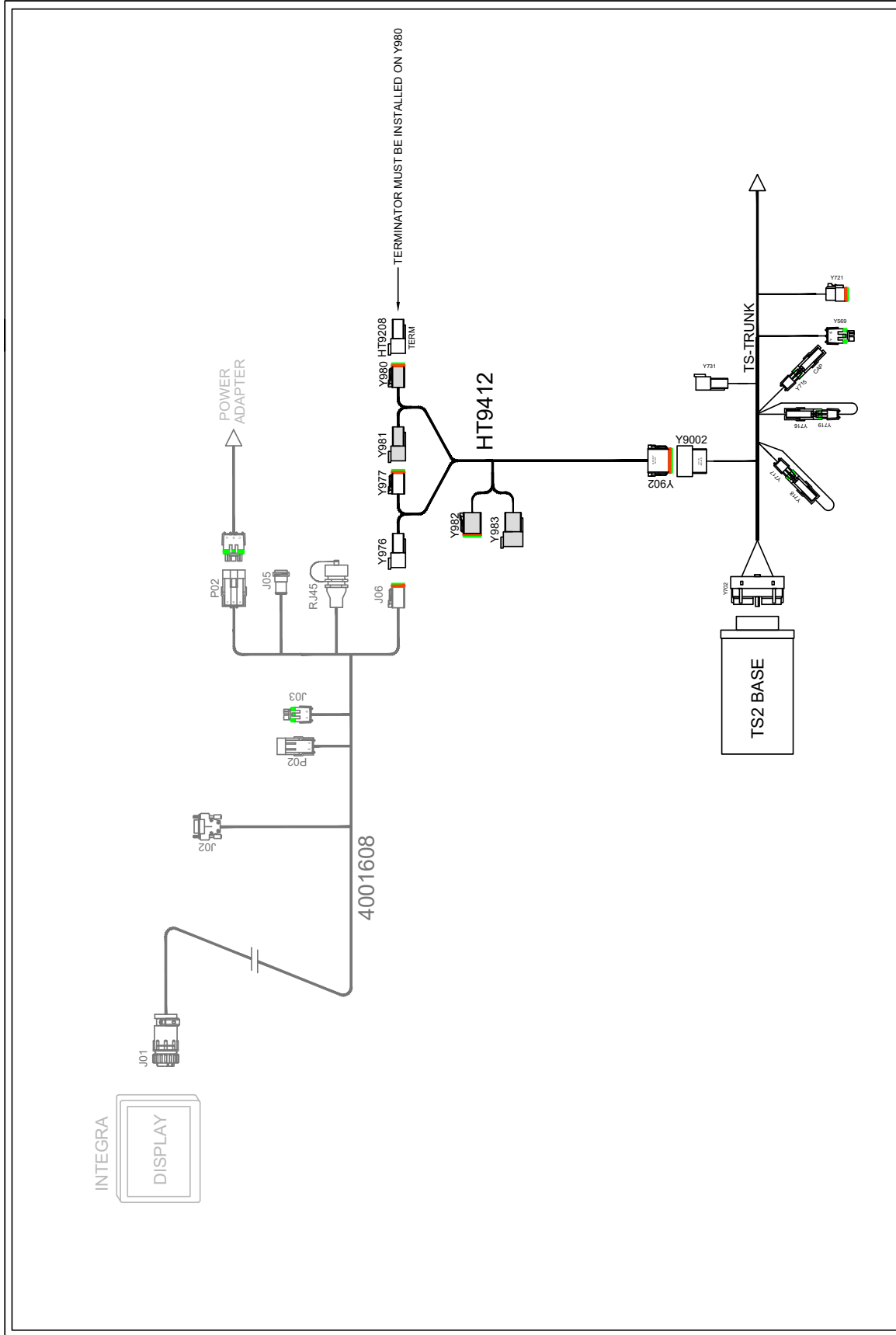
<p>NOTES: TRUESIGHT 2 INSTALLATION FOR 4002506 DISPLAY CABLE</p>		<p>REVISIONS</p> <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED												
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Truesight2 w/ Display Cable p/n 4001608

- Used with Integra
 - May have adapter with Incommand
1. Use CAN bridge harness HT9412.
 2. Identify the ISOBUS connection on the AgLeader Display cable
 - 4 pin Deutsch connector.
 - This connector has a Pink, Black, Yellow and Green wire.
 3. Disconnect any previously connected cable (if any)
 4. Connect Y976 to Ag Leader 4 pin Deutsch connector.
 5. Connect Y977 to Y981.
 6. Reconnect the original accessory harness (if any) to Y980.
 - Otherwise, connect supplied Terminator HT9208 to Y980.
 7. Connect Y902 to the Y9002 on Truesight2 Trunk harness.
 - Some CAN steering motor harnesses also wye into this connection. See steering device specific Instructions.



Diagram - Truesight2 w/ 4001608 Display Cable



NOTES:		REVISIONS		FILE NAME	
TRUE SIGHT 2 INSTALLATION FOR 4001608 DISPLAY CABLE		DESCRIPTION		AGLEADER CONNECTIONS R2	
		DATE		W/4001608 DISPLAY CABLE	
		APPROVED		PART NUMBER	
				TRUE SIGHT - AgLeader	
				REV	
				1	
				SCALE	
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				SHEET 02	
		DRAWN 8/22/2023			
		DRAWN BY: JHK			

Truesight2 w/ SteadySteer Motor

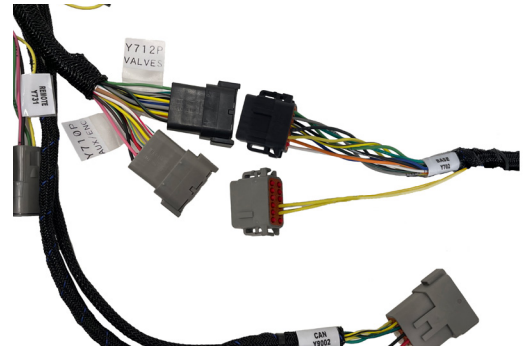


Autopilot steering device connections shown. For connecting to an ISOBUS display, see relevant Truesight2 ISOBUS/VT connections above.

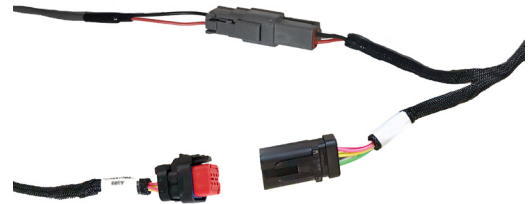


Requires AgLeader 4006107 motor harness & controller harness connected to power.

1. Use TS-AGLM steering device harness.
2. Connect Y710 & Y712 to TS-TRUNK.



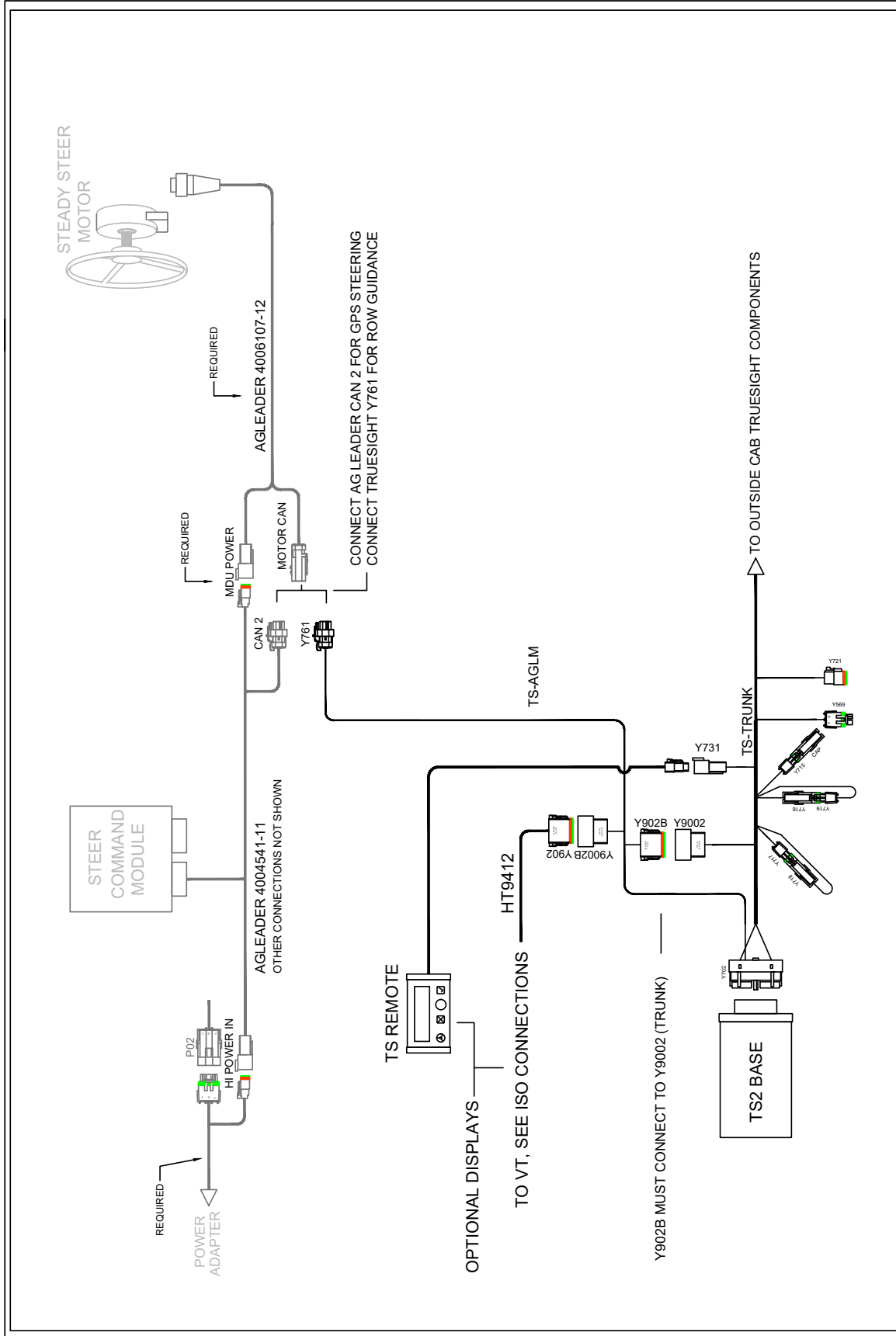
3. Disconnect The OE AgLeader CAN2 connector from the Agleader motor harness.
 - Motor Harness 4006107
 - 6 pin AmpSeal
4. Connect Y761 to the motor harness CAN plug.



To Restore GPS steering

1. Swap the motor CAN connector back to the OE AgLeader CAN2 connector.

Diagram - Truesight2 w/ SteadySteer Motor



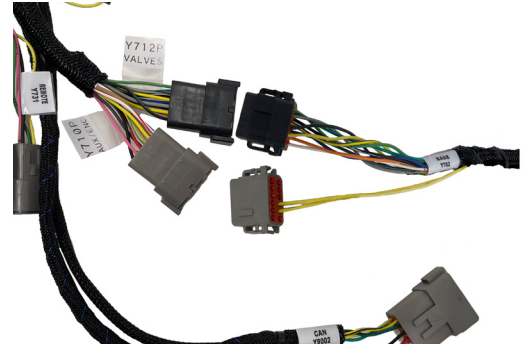
HEADSIGHT® HARVESTING SOLUTIONS		FILE NAME AGLEADER CONNECTIONS R2 STEADY STEER MOTOR								
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REV	DESCRIPTION	DATE	APPROVED							
NOTES: TRUESIGHT 2 INSTALLATION FOR STEADY STEER MOTOR										
SCALE NOT TO SCALE SHEET 02										

Truesight2 w/ Ontrac3 Motor



Autopilot steering device connections shown. For connecting to an ISOBUS display, see relevant Truesight2 ISOBUS/VT connections above.

1. Use TS-OT3 steering device harness.
2. Connect Y710 & Y712 to TS-TRUNK.



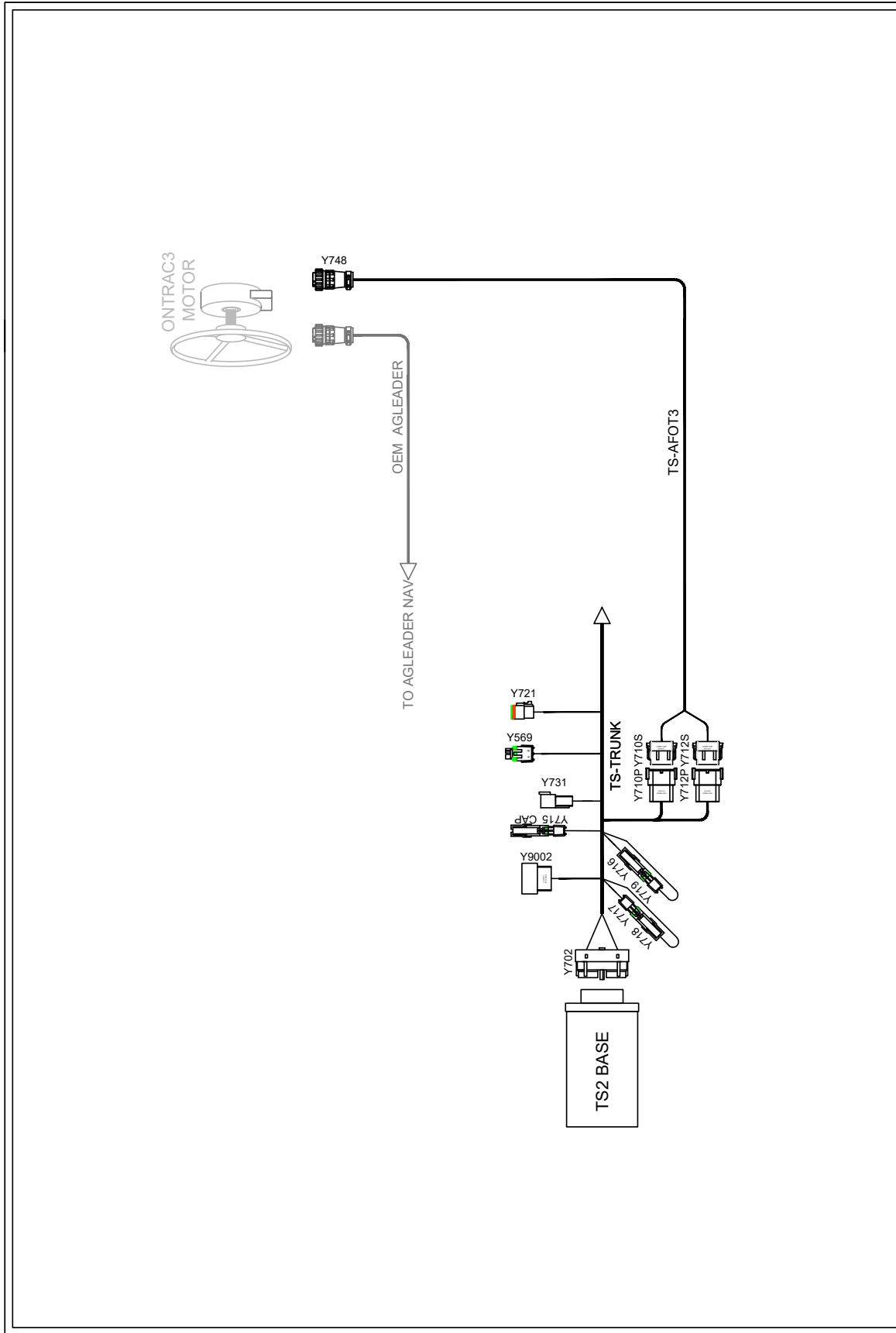
3. Disconnect The OE AgLeader harness at the Ontrac3 Motor.
 - 9 pin Amp CPC
4. Connect Y748 to the Motor.
5. Turn on motor switch to enable operation.



To Restore GPS steering

1. Swap the motor connector back to the OE AgLeader harness.

Diagram - Truesight2 w/ Ontrac3 Motor



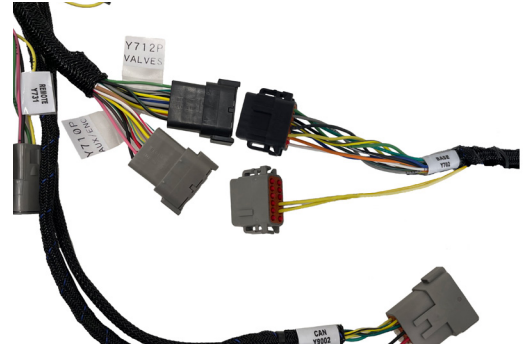
NOTES: TRUESIGHT 2 INSTALLATION FOR ONTRAC3 MOTOR				FILE NAME AGLEADER CONNECTIONS R2 ONTRAC3 MOTOR	REV. 1																
<table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED													DRAWN 8/22/2023 DRAWN BY: JHK		PART NUMBER TRUESIGHT - AgLeader	SCALE NOT TO SCALE
REV	DESCRIPTION	DATE	APPROVED																		
				SHEET 02																	

Truesight2 w/ Ontrac2 Motor

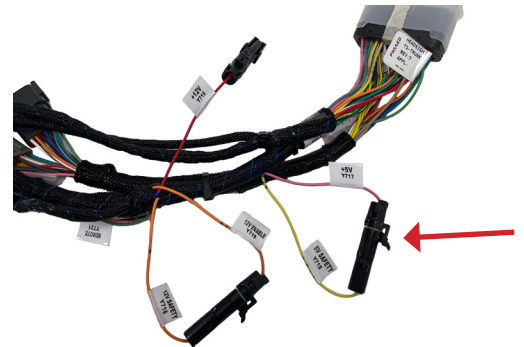


Autopilot steering device connections shown. For connecting to an ISOBUS display, see relevant Truesight2 ISOBUS/VT connections above.

1. Use TS-AFOT2 steering device harness.
2. Connect Y710 & Y712 to TS-TRUNK.



3. On the TS-TRUNK, disconnect Y717 from Y718.
 - 1 pin WeatherPack
4. Connect Y766 to Y717
5. Connect Y767 to Y718



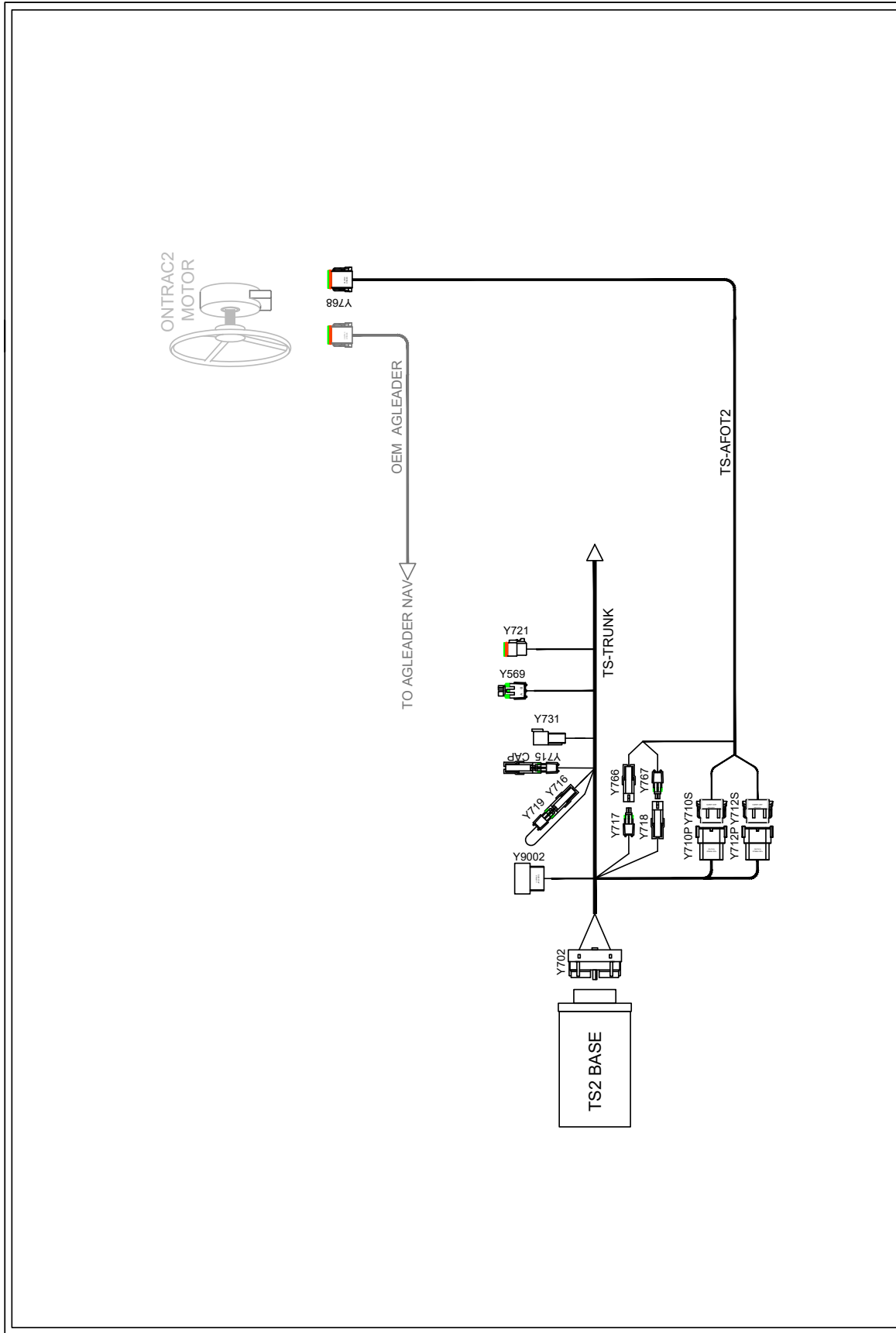
6. Disconnect The OE AgLeader harness at the Ontrac2 Motor.
 - 8 pin Deutsch DT
7. Connect Y768 to the Motor.



To Restore GPS steering

1. Swap the motor connector back to the OE AgLeader harness.

Diagram - Truesight2 w/ Ontrac2 Motor



NOTES: TRUESIGHT 2 INSTALLATION FOR ONTRAC2 MOTOR				FILE NAME AGLEADER CONNECTIONS R2 ONTRAC2 MOTOR
REVISIONS		DRAWN 8/22/2023 DRAWN BY: JHK		PART NUMBER TRUESIGHT - AgLeader
REV	DESCRIPTION	DATE	APPROVED	REV
				1
				SCALE NOT TO SCALE SHEET 02

Truesight2 w/ Paradyne Valves



Autopilot steering device connections shown. For connecting to an ISOBUS display, see relevant Truesight2 ISOBUS/VT connections above.

1. Use TS-AGPD steering device harness.
2. Connect Y710 & Y712 to TS-TRUNK .

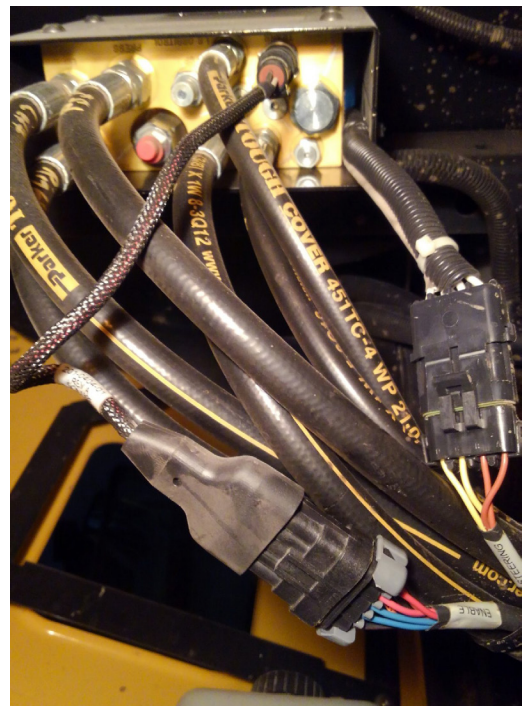


Paradyne Valves

1. Connect Y787 & Y788 in line with steering valve harness connector.
 - 4 pin Weatherpack at valve

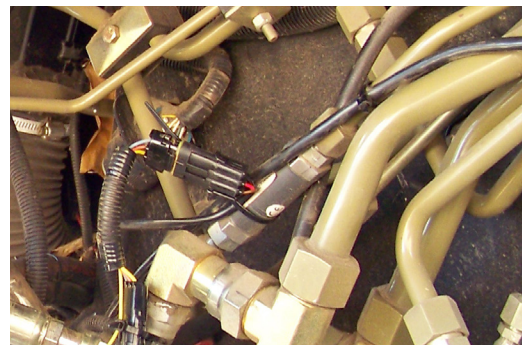
Steering Override Sensor -Pressure

2. For systems with a pressure sensor (shown, right):
 - Use HT2836 Pressure Tee
 - Connect Y797 & Y798 in line with pressure sensor on Paradyne valve block
 - 3 pin round MetriPack 150.2
 - Connect Y765S to Y765 on TS-AGPD



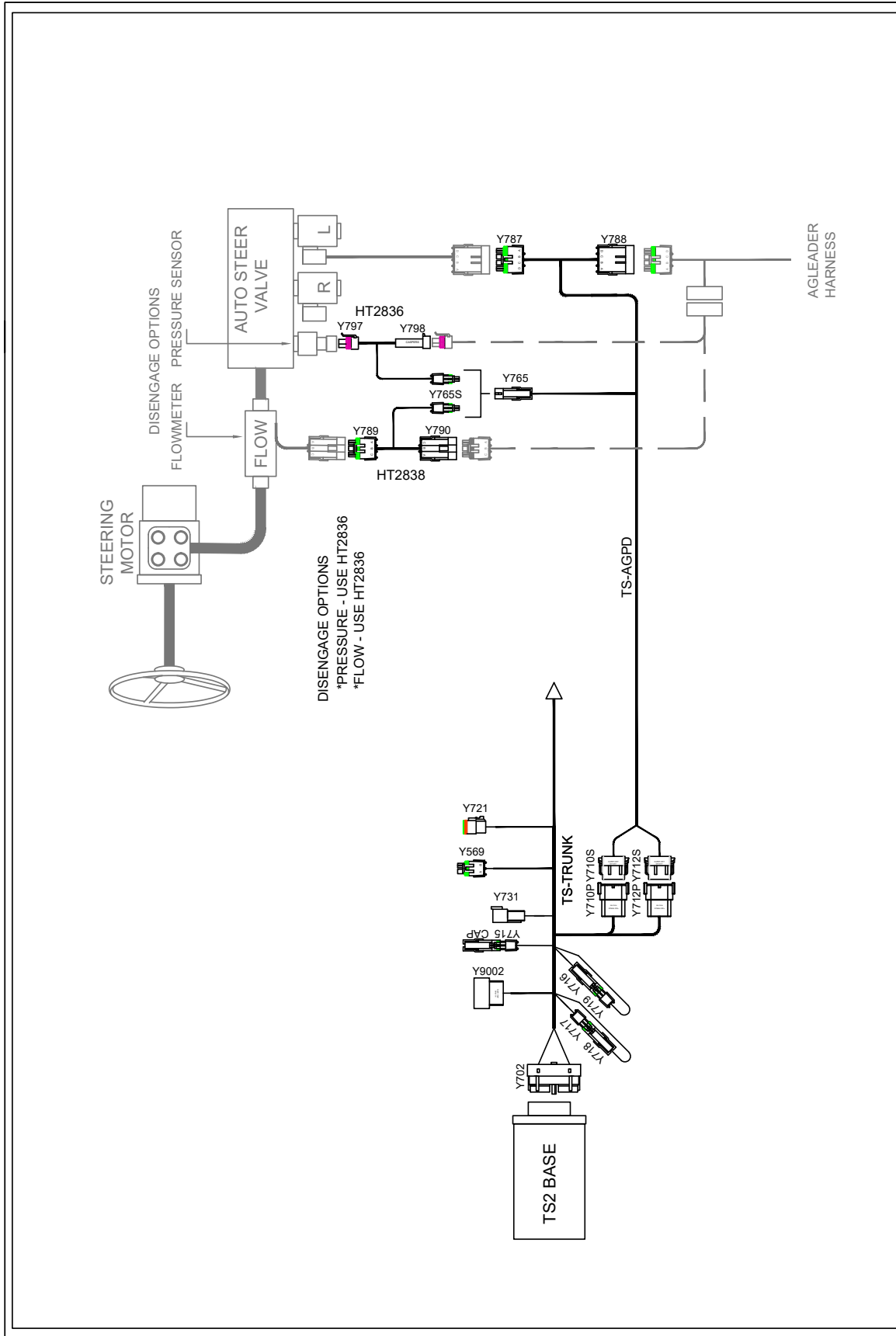
Steering Override Sensor - Flowmeter

3. For systems with a flowmeter sensor (shown, bottom):
 - Use HT2838 Flowmeter Tee
 - Connect Y789 & Y790 in line with flowmeter connector
 - 3 pin WeatherPack code 2
 - Connect Y765S to Y765 on TS-AGPD



AgLeader GPS steering will function normally with Truesight harness installed.

Diagram - Truesight2 w/ Paradyne Valves



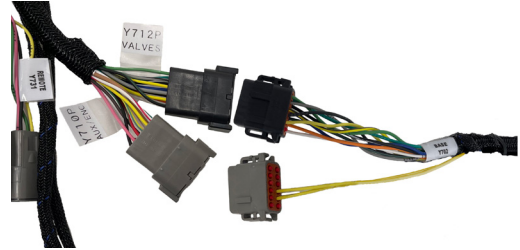
NOTES: TRUESIGHT 2 INSTALLATION FOR PARADYME VALVES		REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED				
REV	DESCRIPTION	DATE	APPROVED								
FILE NAME AGLEADER CONNECTIONS R2 PARADYME VALVES		PART NUMBER TRUESIGHT - AgLeader									
DRAWN 8/22/2023 DRAWN BY: JHK		SCALE NOT TO SCALE SHEET 02									
REV 1		REV 1									

Truesight2 w/ Z2 Valves



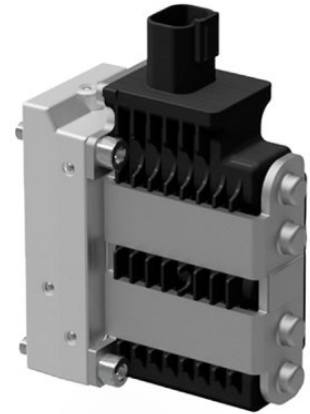
Autopilot steering device connections shown. For connecting to an ISOBUS display, see relevant Truesight2 ISOBUS/VT connections above.

1. Use TS-AGZ2 steering device harness.
2. Connect Y710 & Y712 to TS-TRUNK .



Z2 Valves

1. Connect Y363 & Y364 in line with steering valve harness connector.
 - 6 pin Deutsch DT at valve (shown)

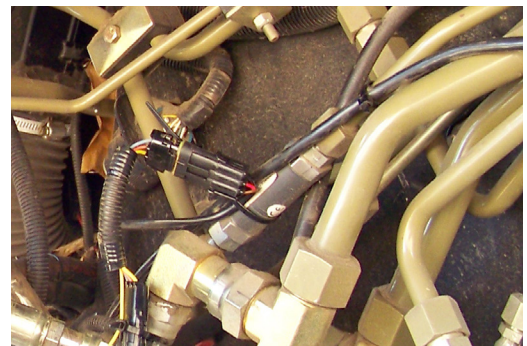


Steering Override Sensor -Pressure

2. For systems with a pressure sensor:
 - Use HT2836 Pressure Tee
 - Connect Y797 & Y798 in line with pressure sensor beside Z2 valve block
 - 3 pin round MetriPack 150.2
 - Connect Y765S to Y765 on TS-AGPD

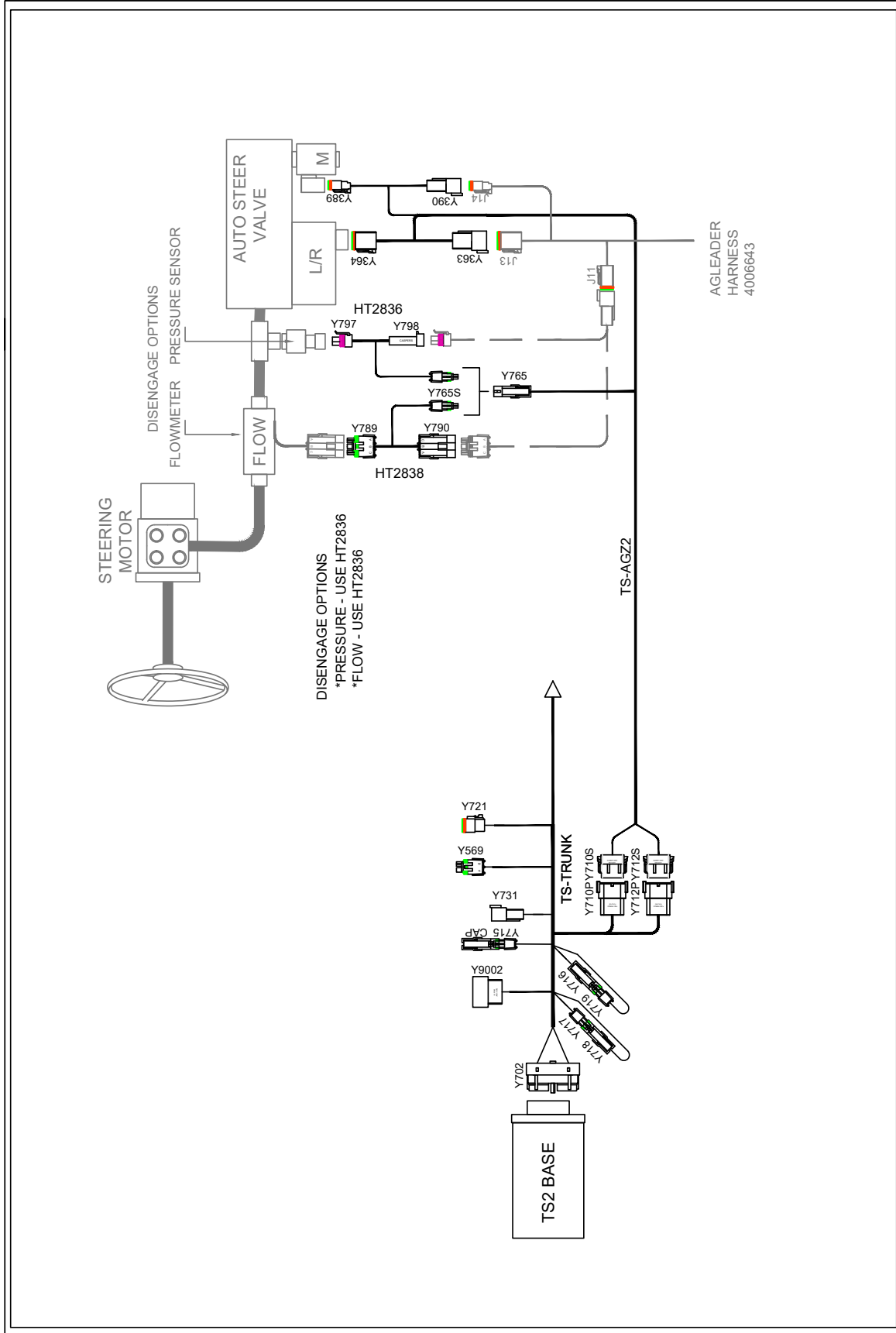
Steering Override Sensor - Flowmeter

3. For systems with a flowmeter sensor (shown, bottom):
 - Use HT2838 Flowmeter Tee
 - Connect Y789 & Y790 in line with flowmeter connector.
 - 3 pin WeatherPack code 2
 - Connect Y765S to Y765 on TS-AGPD



AgLeader GPS steering will function normally with Truesight harness installed.

Diagram - Truesight2 w/ Z2 Valves



NOTES: TRUESIGHT 2 INSTALLATION FOR Z2 VALVES		REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED																
REV	DESCRIPTION	DATE	APPROVED																				
FILE NAME AGLEADER CONNECTIONS R2 Z2 VALVES		PART NUMBER TRUESIGHT - AgLeader																					
DRAWN 8/22/2023 DRAWN BY: JHK		SCALE NOT TO SCALE SHEET 02																					

Truesight2 to AgLeader on CNH Legacy Cab - Encoders



Encoder connections **ONLY** shown. The rest of the system must be installed as shown in the combine specific Truesight 2 Installation manual.



This section is for CIH Legacy cab combines (x010, x120, x130 Legacy) & NH CR/CX prior to the “dot” models only, when Installing a Truesight2 system in combination with a AgLeader system



The HT2830 adapters are required as Agleader has the encoder “polarity” reversed in their connection from the OEM & Truesight wiring

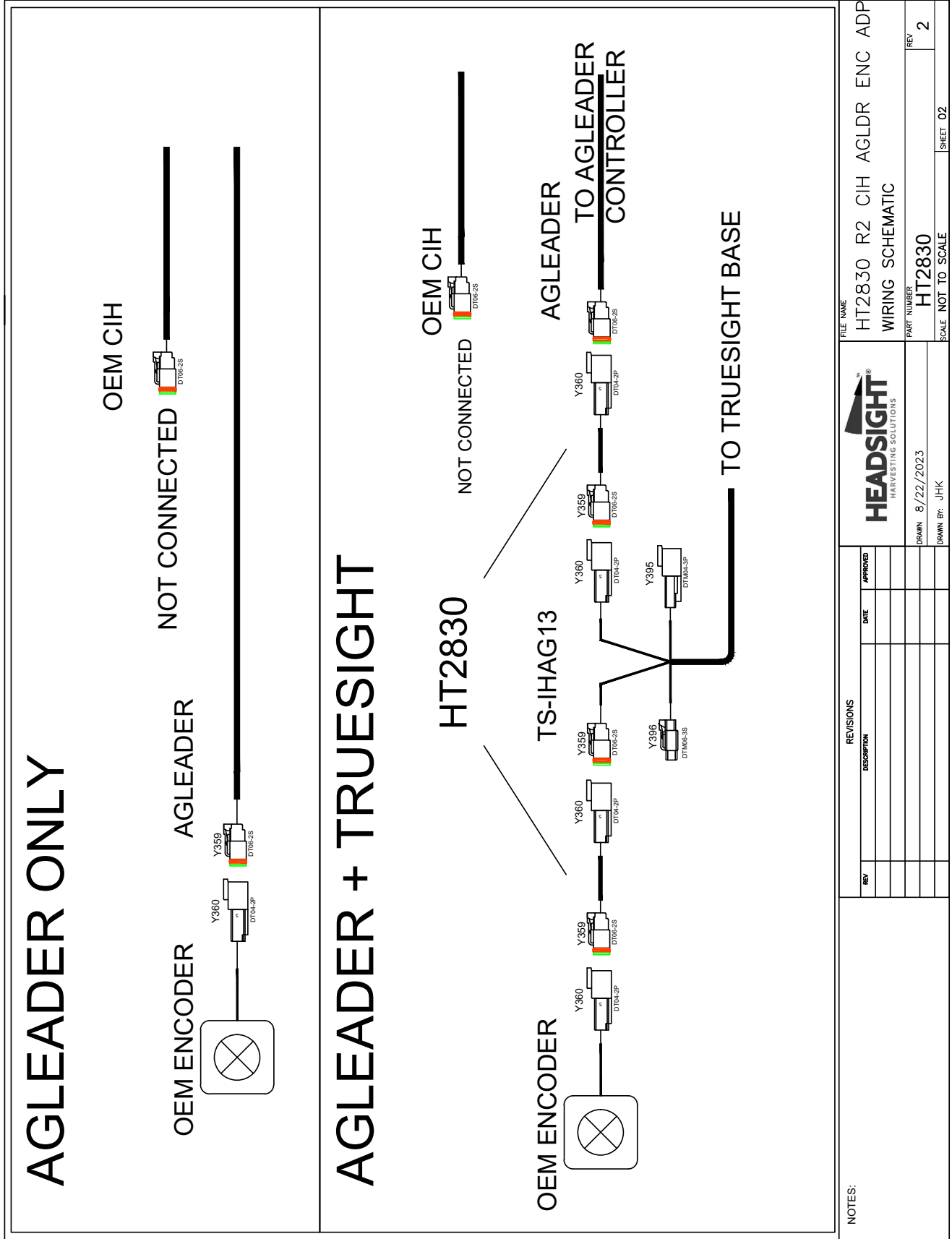
Encoder Adapter Installation

1. Install the TS-IHAG13 steering device harness as shown in the 09050201 TS2 CIH Flagship, or 09050301 NH CR/CX manuals EXCEPT:
2. Install a HT2830 adapter on each side of the IHAG13 harness as shown:
 - Disconnect the AgLeader harness from the OEM encoder
 - 2 pin Deutsch DT near at base of steering column in cab
 - Note: OEM CNH encoder harness will remain disconnected
 - Connect (1) adapter to the OEM encoder plug
 - Connect (1) adapter to the AgLeader encoder harness
 - Connect Y359 & Y360 on TS-IHAG13 between the (2) HT2830 adapters
 - Note: Y395 & Y396 on TS-IHAG13 remain disconnected.



AgLeader GPS steering will function normally with Truesight harness installed.

Diagram - Truesight2 to AgLeader on CNH Legacy Cab - Encoders



NOTES:

REV	DESCRIPTION	DATE	APPROVED

FILE NAME: HT2830 R2 CIH AGLDR ENC ADPT
 WIRING SCHEMATIC

PART NUMBER: HT2830
 SCALE: NOT TO SCALE

REV: 2
 SHEET 02

Truesight2 to AgLeader on JD AutoTrac - Encoders



Encoder connections **ONLY** shown. The rest of the system must be installed as shown in the combine specific Truesight 2 Installation manual.



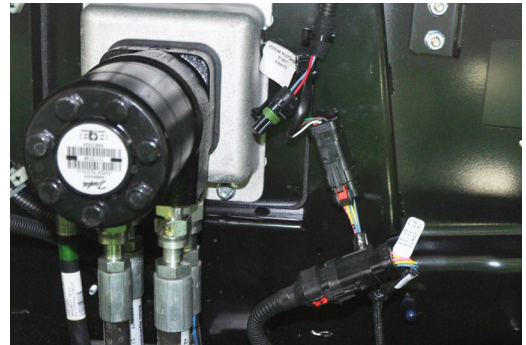
This section only applies to JD Autotractor equipped combine with the 6 wire encoder shown, when installing a Truesight2 system in combination with a AgLeader system



The HT2831 adapter is required to power both encoders, Agleader only wires one in their harness, Truesight requires both.

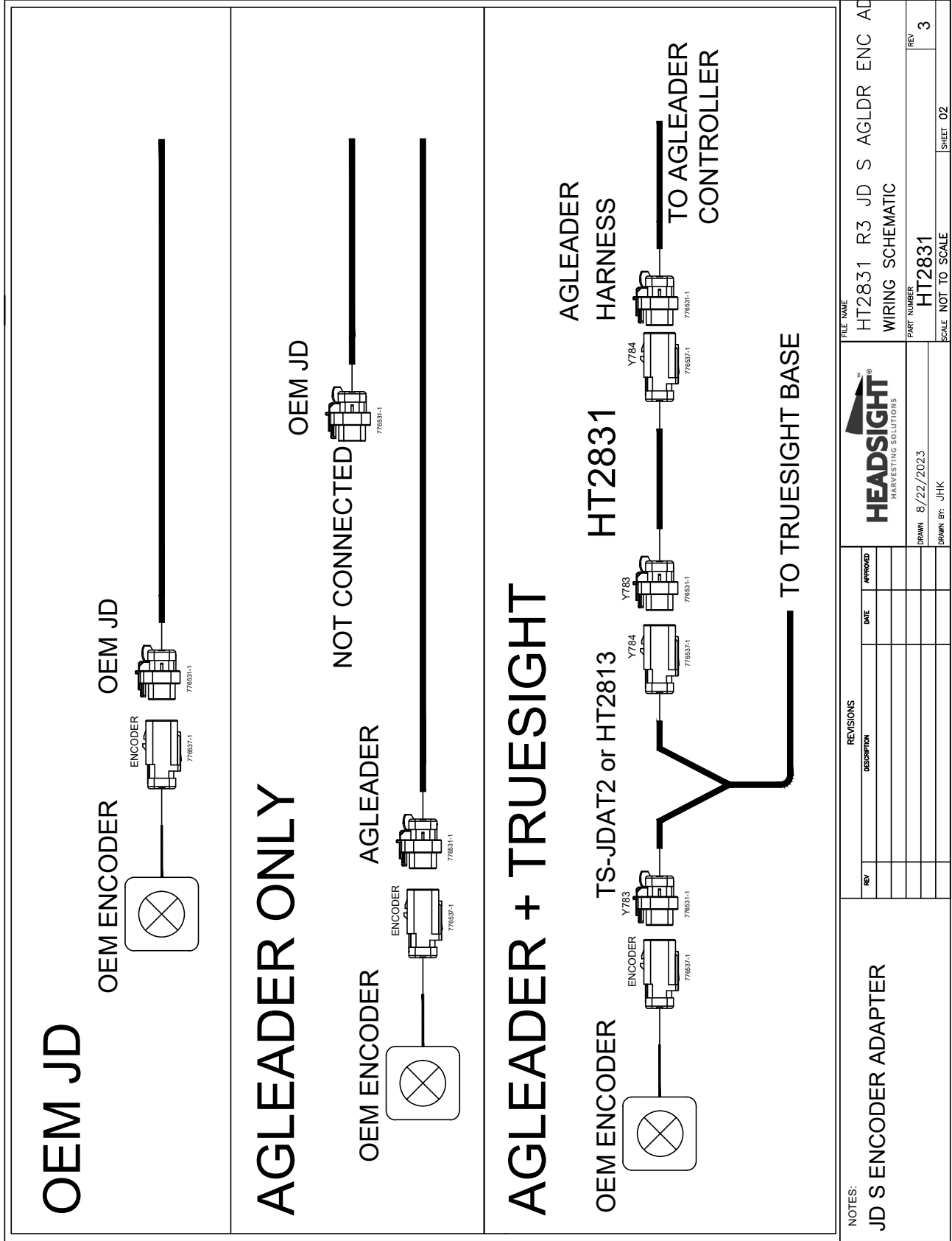
Encoder Adapter Installation

1. Install the TS-JDAT steering device harness as shown in the 09050101 or 09050105 TS2 JD manuals EXCEPT:
2. Install a HT2831 Adapter between the TS-JDAT2 or HT2813 Truesight harnesses and the Agleader encoder harness.
 - Disconnect the AgLeader Encoder plug From the JD encoder
 - 6 pin AmpSeal under cab by steering motor
 - Note: the OEM JD encoder plug should be disconnected and capped by the AgLeader installation. Do not reconnect it
 - Connect Y783 on the TS-JDAT2 or HT2813 harness directly to the OEM JD encoder
 - Connect HT2831 Adapter to Y784 on the JDAT2 harness
 - Connect the AGLeader encoder plug to Y784 on HT2831
- Note: The TS-JDAT2 or HT2813 **MUST** be connected directly to the JD encoder, with the HT2831 between the JDAT2 & Agleader harnesses as shown



AgLeader GPS steering will function normally with Truesight harness installed.

Diagram - Truesight2 to AgLeader on JD Autotrac - Encoders



NOTES:
JD S ENCODER ADAPTER

REV	DESCRIPTION	DATE	APPROVED

REVISIONS

FILE NAME: HT2831 R3 JD S AGLDR ENC ADAPT

WIRING SCHEMATIC

PART NUMBER: HT2831

SCALE: NOT TO SCALE

DRAWN: 8/22/2023

DRAWN BY: JHK

REV: 3

SHEET 02

Truesight2 to SteerCommand Z2 on CIH Midrange w/Accuguide



Autopilot steering device connections shown. For connecting to an ISOBUS display, see relevant Truesight2 ISOBUS/VT connections above.



This section is for OEM Accuguide Equipped CIH Midrange combines (x088, x130, x140, x150) only, when installing a Truesight2 system in combination with a SteerCommand Z2 system driving the OEM Accuguide valves.

1. Install the TS-IHAG30 steering device harness as shown in the 09050202 TS2 CIH Midrange Installation manual, EXCEPT:
 - The OEM CIH valve plugs & encoder plug should be disconnected and capped by the AgLeader installation. Do not reconnect them.
 - Connect Y387 & 388 inline at the main steering valve connection between the valve & the AgLeader harness
 - 4 pin Deutsch DT near valve
 - Connect 395 & Y396 in line at the steering encoder between the encoder and AgLeader harness
 - 3 pin Deutsch DTM inside steering column
 - Do not connect Y389/Y390 to the Master coil. See below.

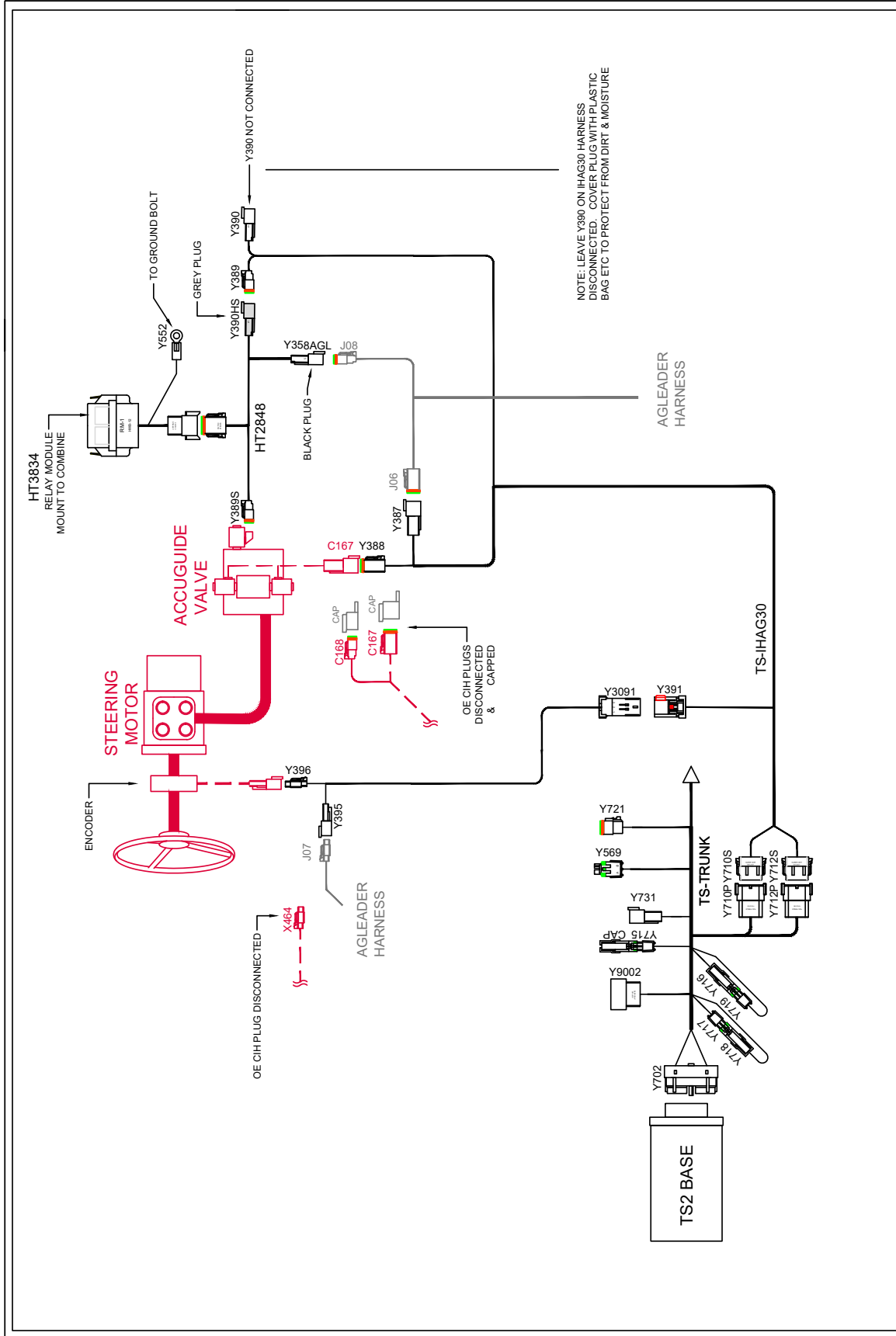
Master Solenoid Interface Harness

2. Use HT3834 relay module & HT2848 adapter.
3. Mount the relay module close to the Accuguide valve assembly.
4. Connect Y552 ring terminal to a clean ground bolt.
5. Connect HT2848 CIH adapter to relay module (8 pin Y768)
6. Disconnect the AgLeader harness from the master solenoid.
 - 2 pin Deutsch DT at valve (shown)
7. Connect Y389S on HT2848 to the master solenoid.
8. Connect the Agleader master plug to Y358AGL
 - 2 pin BLACK Deutsch DT
9. Connect Y389 on the TS-IHAG30 harness to Y390HS
 - 2 pin Grey Deutsch DT
10. Y390 on TS-IHAG30 should remain unconnected.
 - Cover the plug to prevent dirt & moisture contamination.



AgLeader GPS steering will function normally with Truesight Adapter installed. **NOTE:** If Y390HS & Y358AGL plugs are reversed, AgLeader will display error code.

Diagram - Truesight2 to SteerCommand Z2 on CIH Midrange w/Accuguide



HEADSIGHT® HARVESTING SOLUTIONS		FILE NAME AGLEADER CONNECTIONS R2								
REVISIONS <table border="1"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>APPROVED</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		REV	DESCRIPTION	DATE	APPROVED					PART NUMBER TRUESIGHT - AgLeader
REV	DESCRIPTION	DATE	APPROVED							
NOTES: TRUESIGHT 2 INSTALLATION STEER COMMAND ON CIH MIDRANGE COMBINES		REV 1								
DRAWN 8/22/2023 DRAWN BY: JHK		SCALE NOT TO SCALE								
SHEET 02		SHEET 02								

Truesight2 to SteerCommand Z2 on JD CCH



Autopilot steering device connections shown. For connecting to an ISOBUS display, see relevant Truesight2 ISOBUS/VT connections above.

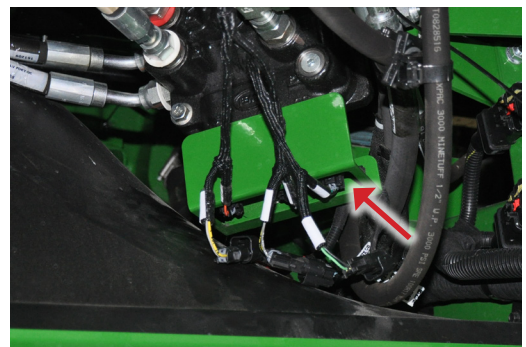


This section is for OEM JD large frame (Sx80, Sx90) only, when installing a Truesight2 system in combination with a SteerCommand Z2 system driving the OEM CCH valves.

1. Install the TS-JDAT2 steering device harness as shown in the 09050105 TS2 JD CCH Installation manual, EXCEPT:
 - The OEM JD valve plugs & encoder plug should be disconnected and capped by the AgLeader installation. Do not reconnect them.
 - See “Truesight2 to AgLeader on JD AutoTrac - Encoders” above to install the HT2831 adapter’
 - Do not connect Y274/Y275 to the Master coil. See below.

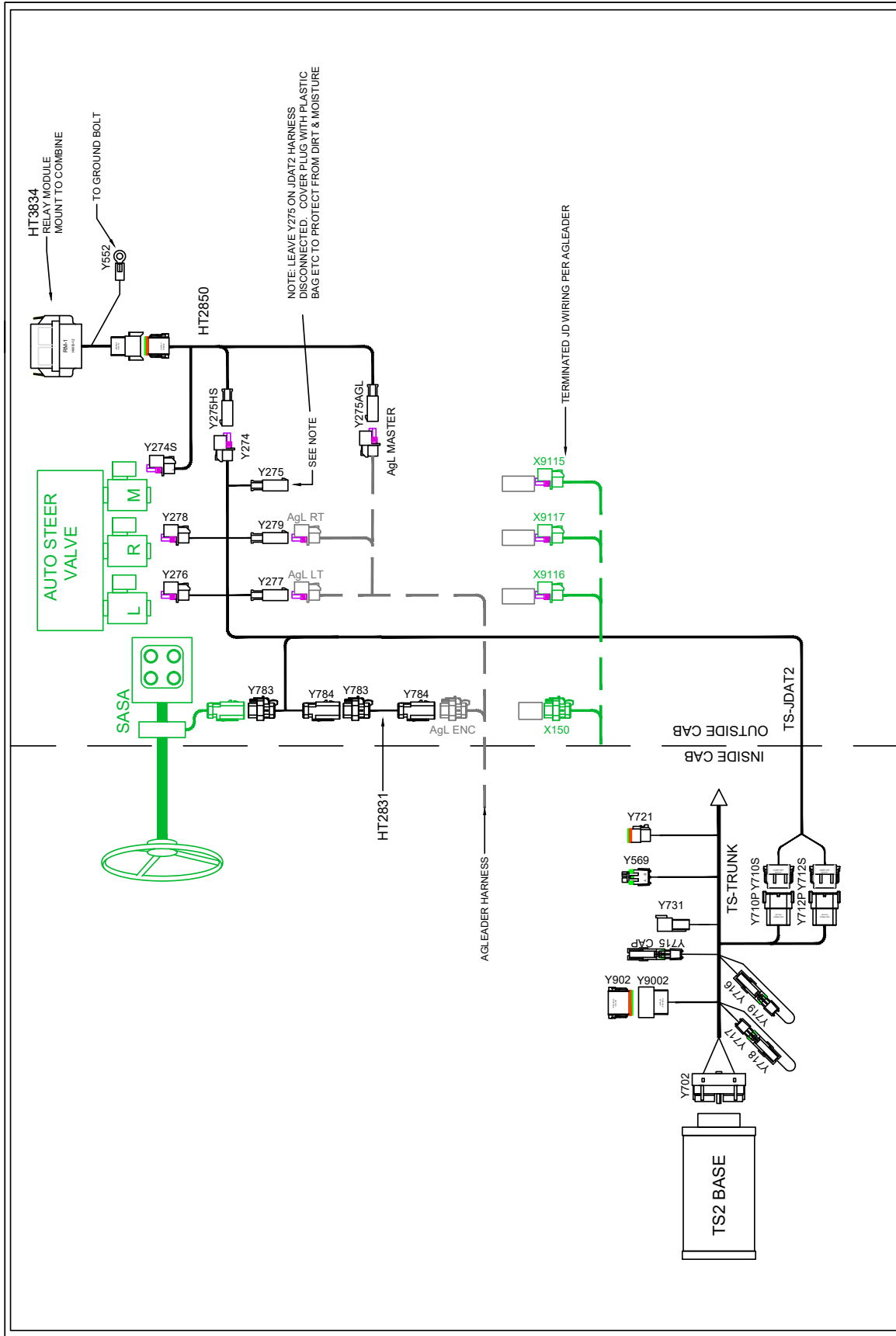
Master Solenoid Interface Harness

2. Use HT3834 relay module & HT2850 adapter.
3. Mount or tie the relay module close to the JD CCH valve assembly.
4. Connect Y552 ring terminal to a clean ground bolt.
5. Connect HT2850 JD adapter to relay module (8 pin Y768)
6. Disconnect the AgLeader harness from the master solenoid.
 - 2 pin GT150 plug at valve (Arrow, shown)
7. Connect Y274S on HT2850 to the master solenoid.
8. Connect the Agleader master plug to Y275AGL
 - 2 pin GT150 receptacle labeled AGL
9. Connect Y274 on the TS-JDAT2 harness to Y275HS
 - 2 pin GT150 receptacle labeled HS
10. Y275 on TS-JDAT2 should remain unconnected.
 - Cover the plug to prevent dirt & moisture contamination.



AgLeader GPS steering should function normally with Truesight Adapter installed.
NOTE: If Y275HS & Y275AGL plugs are reversed, AgLeader will display error code.

Diagram - Truesight2 to SteerCommand Z2 on JD CCH



FILE NAME		AGLEADER CONNECTIONS R2	
DATE		STEER COMMAND TO JD CCH	
APPROVED		TRUESIGHT - AgLeader	
REV	DESCRIPTION	PART NUMBER	REV
			1
NOTES:		SCALE: NOT TO SCALE	
TRUESIGHT 2 INSTALLATION		SHEET 02	
STEER COMMAND ON JD CCH			
COMBINES			
REVISIONS		DRAWN BY: JHK	
		DATE: 8/22/2023	

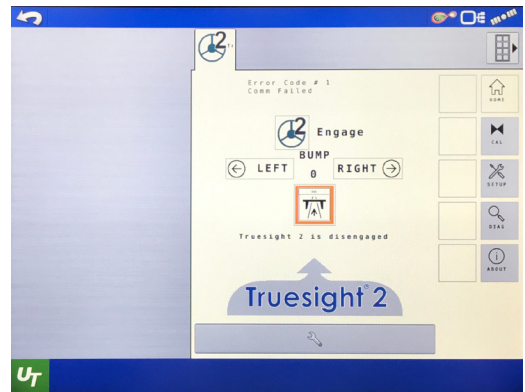
Setup

InCommand/Integra

1. Check monitor for VT software installation.
 - Turn on key
 - If the VT/UT icon can be selected, ISOBUS should be enabled. If VT/UT does not appear on the home screen or is "Greyed out", see step 3 below to enable VT on the monitor.

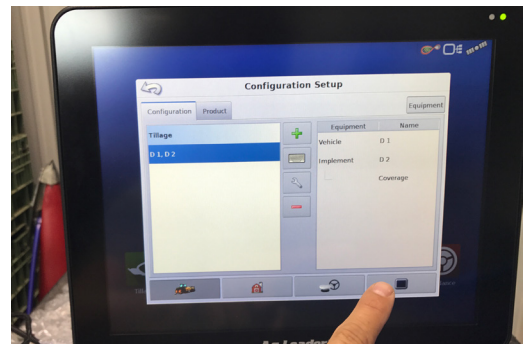


2. See if Truesight or Horizon icon(s) appears under VT tab.
 - If Truesight or Horizon applications do not appear, check the wiring and terminator installation (if required)

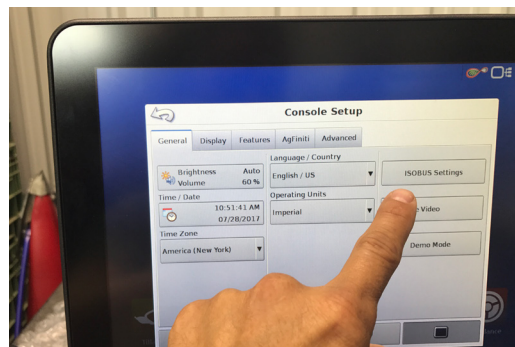


Enabling ISOBUS/VT (if needed)

3. On the Home page, choose the Setup (wrench) icon
4. Choose the Console (screen) tab



5. Choose Isobus Settings

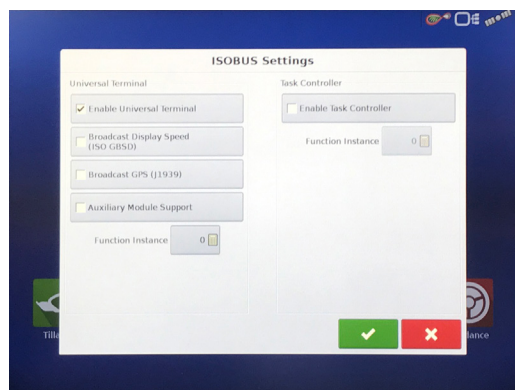


6. Enable Universal Terminal

- Check the UT box
- Press Check to enable

7. Cycle power to the monitor

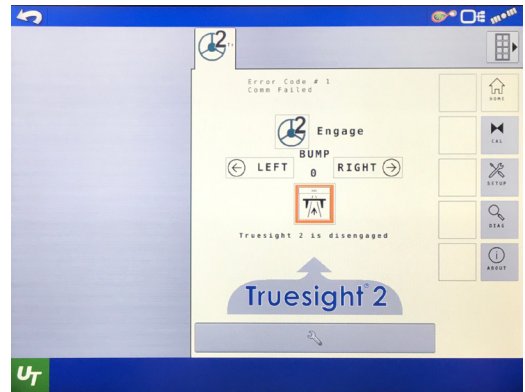
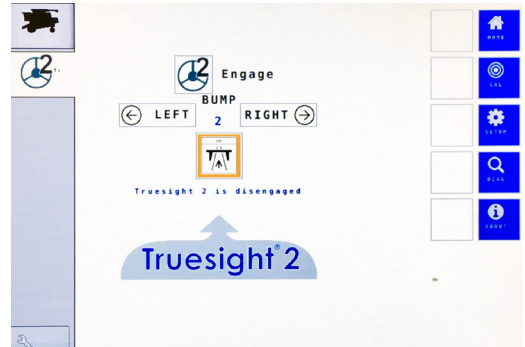
- Return to the home page
- Check Step 2 above



Operation

InCommand/Integra

1. Press VT menu button.
 - May have to enable VT in the screen settings
2. Choose the Horizon or Truesight icon.



Headsight ISOBUS (VT) Application Guide

The following is a guide to the Headsight ISOBUS Applications you may see.



Horizon Bridge



Truesight2



Horizon Base (Main)



Truesense +



Horizon - Header App

Diagnostics

Troubleshooting by Symptom



Most problems are not connecting to the correct ISOBUS plug on the AgLeader harness or not installing the Terminator

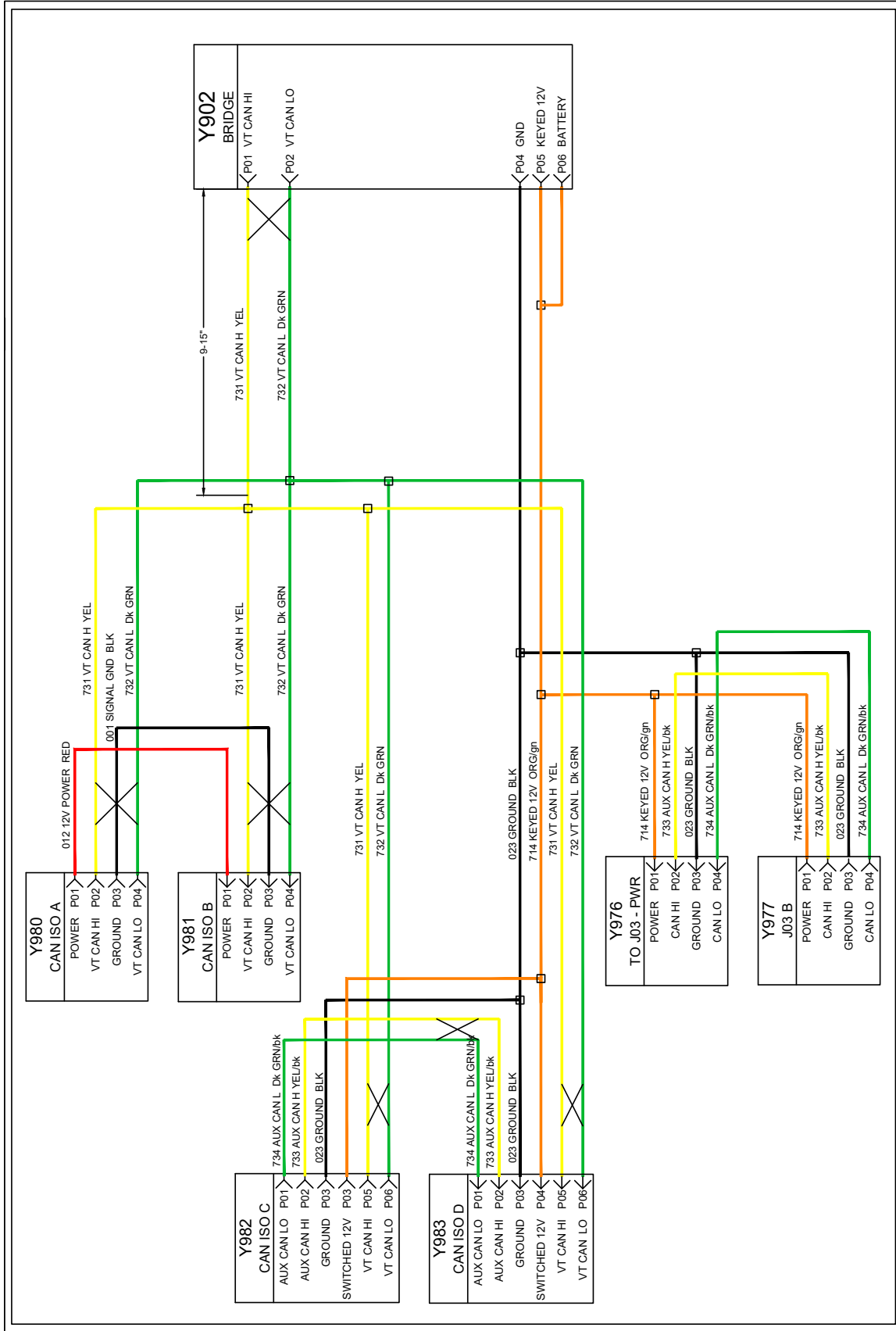
Symptom	Problem	Solution
AHHC Diagnostics		
No Headsight Apps appear on Monitor	VT/UT not enabled	Enable VT/UT
	Wiring not connected correctly	Make sure harness is connected 1) to correct ISOBUS harness plugs 2) to coils 3) to cab controller
	Terminator not Installed	Install HT9206 Terminator on Y980
	Pre-existing AgLeader App harness does not have terminator	Try disconnecting App harness and installing HT9206 on Y980 as shown. If Headsight Apps appear, installer may need to make Y adapter to allow both AgLeader & Terminator to be installed on Y980.
	HT9412 Harness defective	Check Pinouts/wiring against Schematic
	Memory stick installed in monitor	Remove memory stick & cycle power
Pre-Existing AgLeader App no longer available	Did not reconnect pre-existing App harness to HT9412 harness	See relevant Section/Diagram to connect AgLeader app harness to HT9412
	System "over terminated"	Try removing HT9206 terminator from Y980
Lexion Only - lost all Combine information	Did not reconnect AgLeader Bridge module power harness	See Lexion Section/Diagram Install HT3814 as shown & reconnect AgLeader Module power plug to HT9412

Schematics



The following schematic(s) are provided for troubleshooting and installation purposes only. Unauthorized uses, such as using them to replicate harnesses for resale, are strictly prohibited under copyright law.

HT9412 AgLeader ISOBUS Adapter



NOTES:

CAN TEE FOR AGLEADER DISPLAY

REV	DESCRIPTION	DATE	APPROVED
5	UPDATE CAN WIRE LABELS	1.21.19	JHK

REVISIONS

REV	DESCRIPTION	DATE	APPROVED
5	UPDATE CAN WIRE LABELS	1.21.19	JHK

FILE NAME: HT9412 R5 AGLEADER WIRING SCHEMATIC

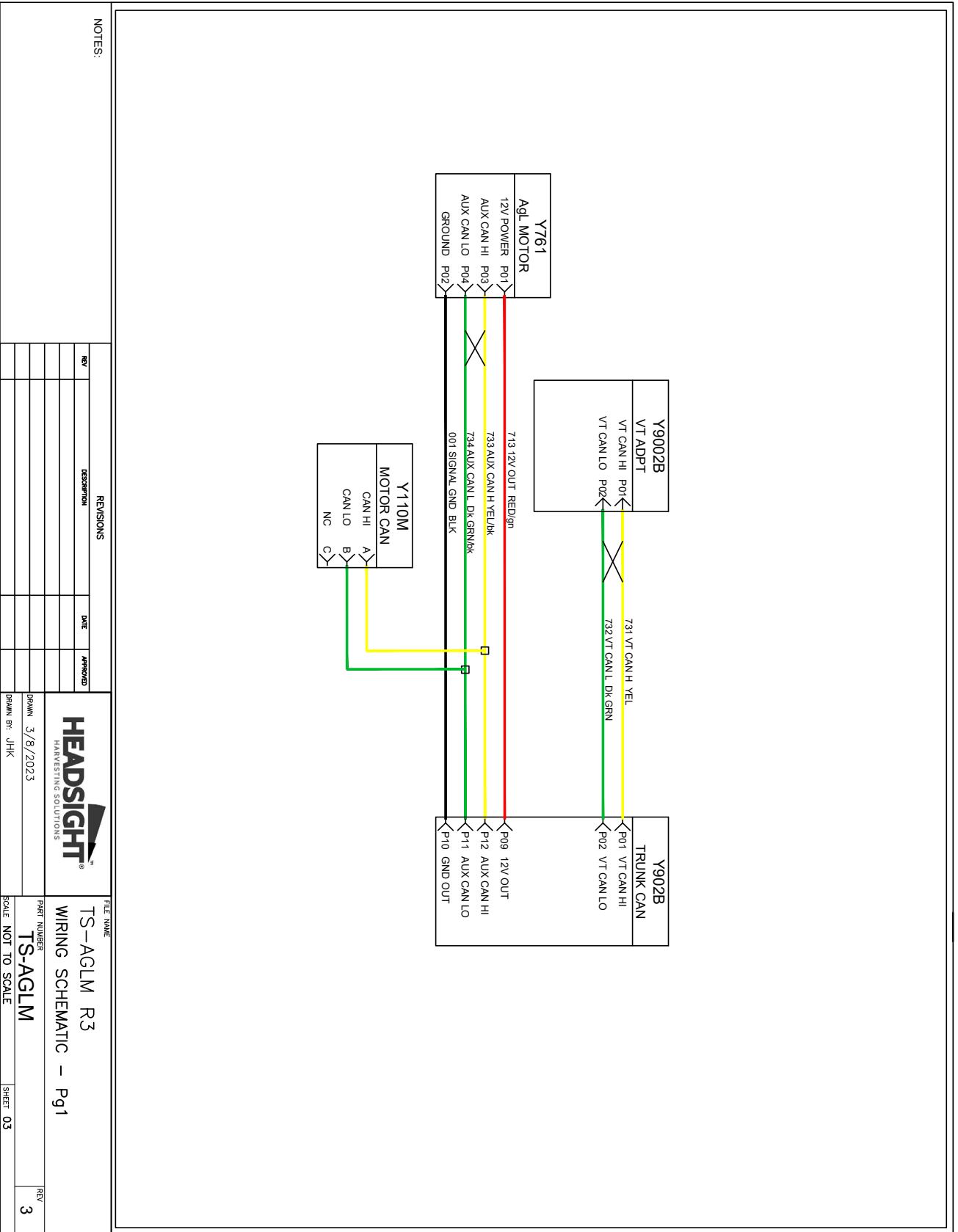
PART NUMBER: HT9412

SCALE: NOT TO SCALE

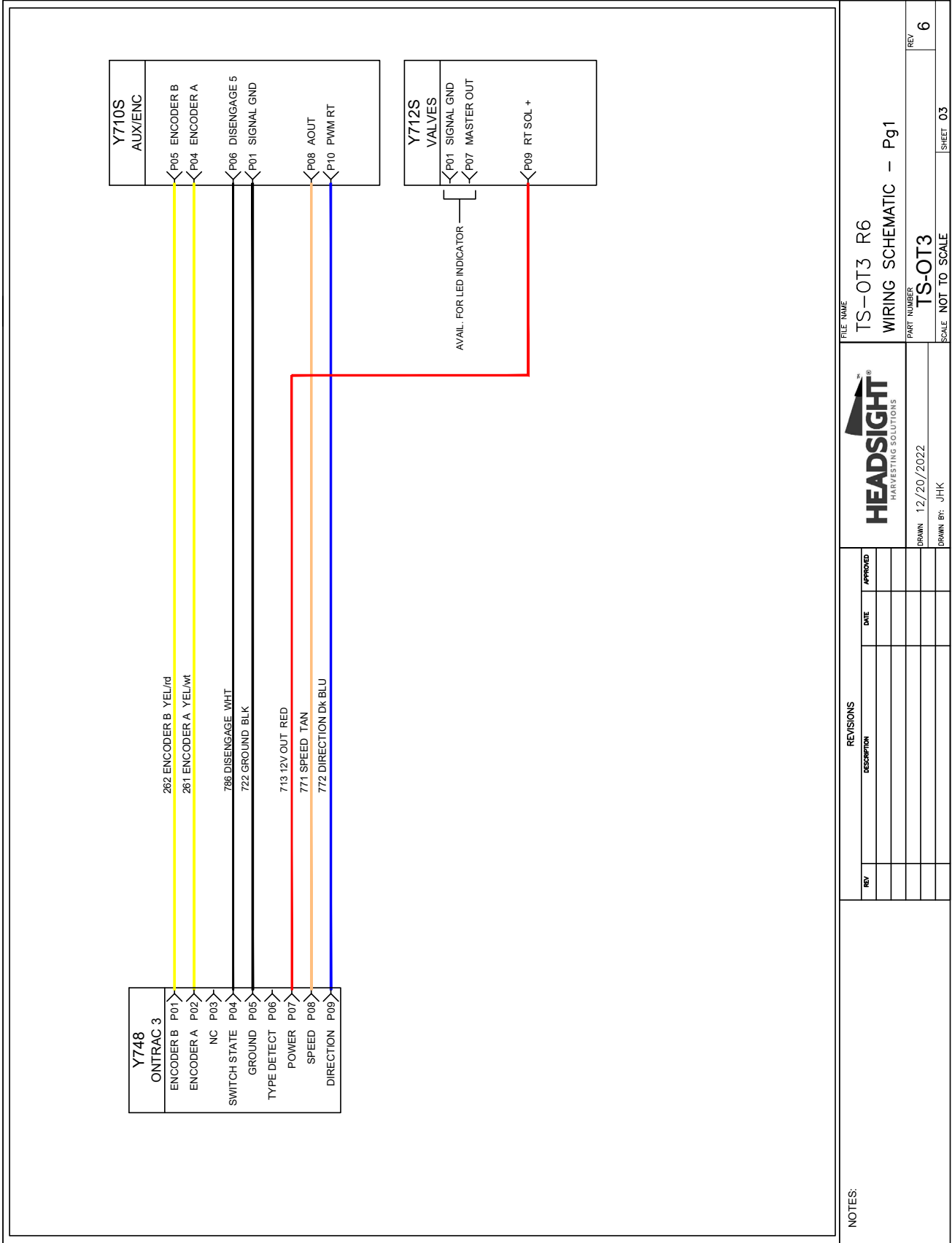
SHEET 02

REV: 5

TS-AGLM Device Harness



TS-OT3 Device Harness

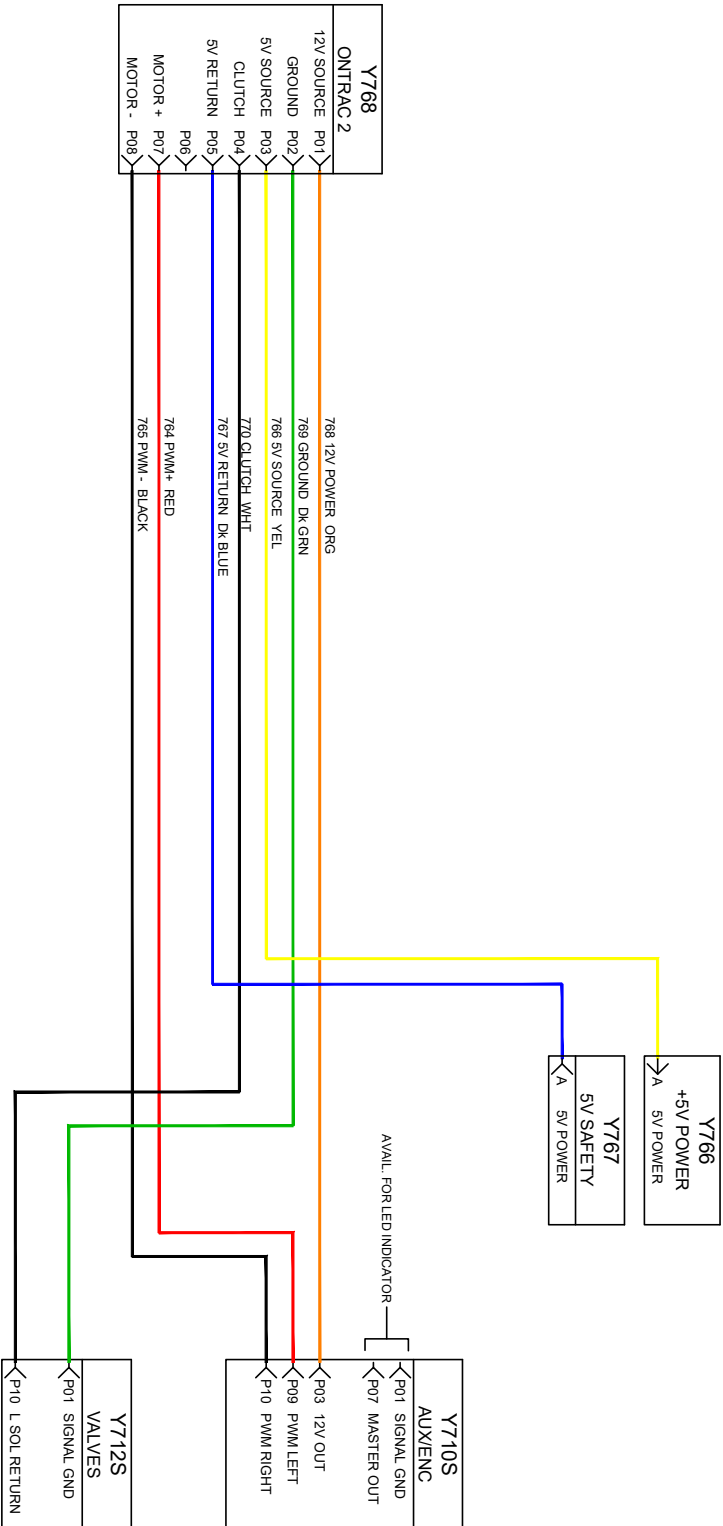


NOTES:		FILE NAME	
		TS-OT3 R6	
		WIRING SCHEMATIC - Pg1	
		PART NUMBER	
		TS-OT3	
		SCALE NOT TO SCALE	
		SHEET 03	
		REV 6	

REV	DESCRIPTION	DATE	APPROVED

DRAWN: 12/20/2022	
DRAWN BY: JHK	

TS-AFOT2 Device Harness



NOTES:

REV	DESCRIPTION	DATE	APPROVED



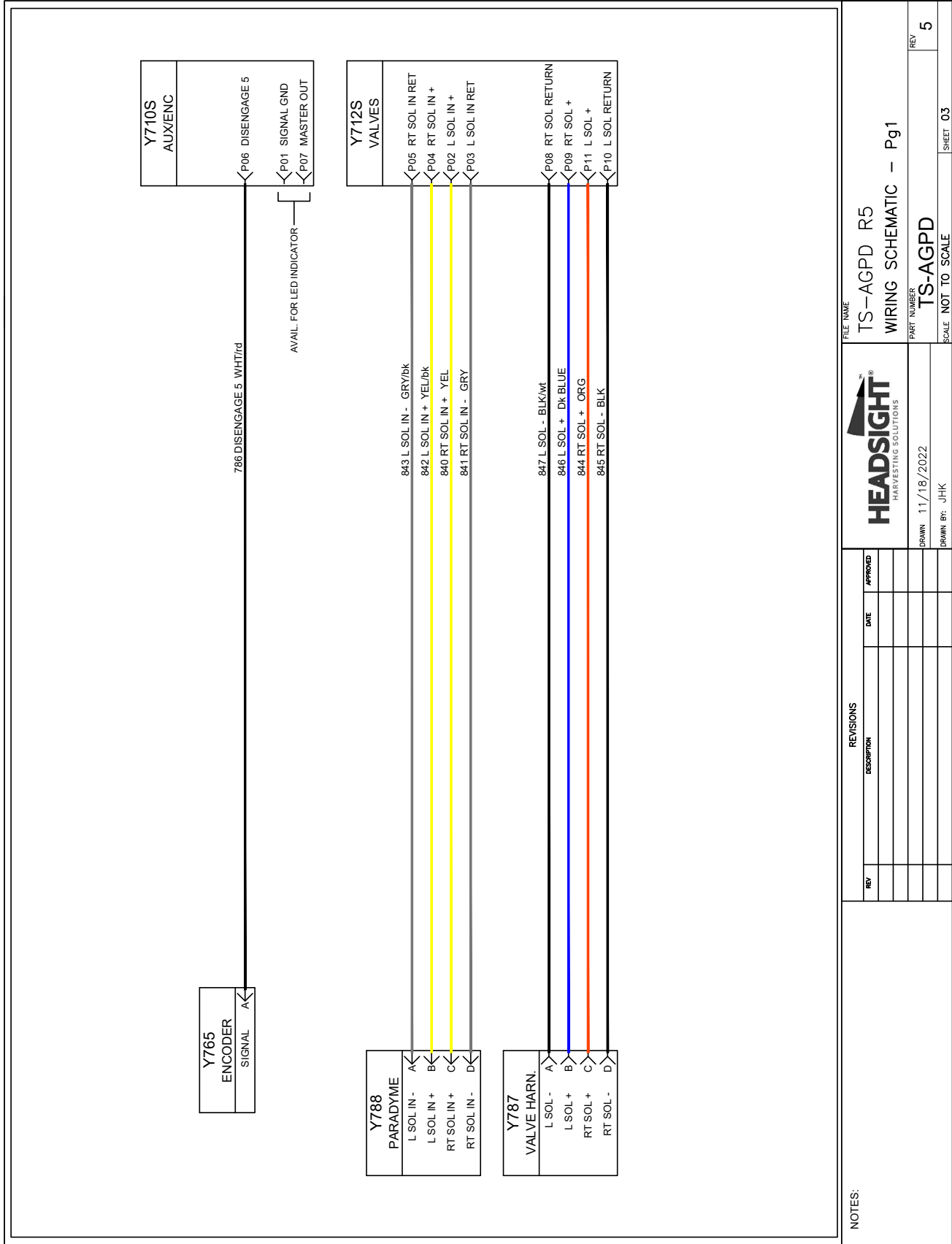
Drawn: 11/18/2022
 Drawn By: JHK

FILE NAME: TS-AFOT2 R5
 PART NUMBER: TS-AFOT2
 WIRING SCHEMATIC - Pg1

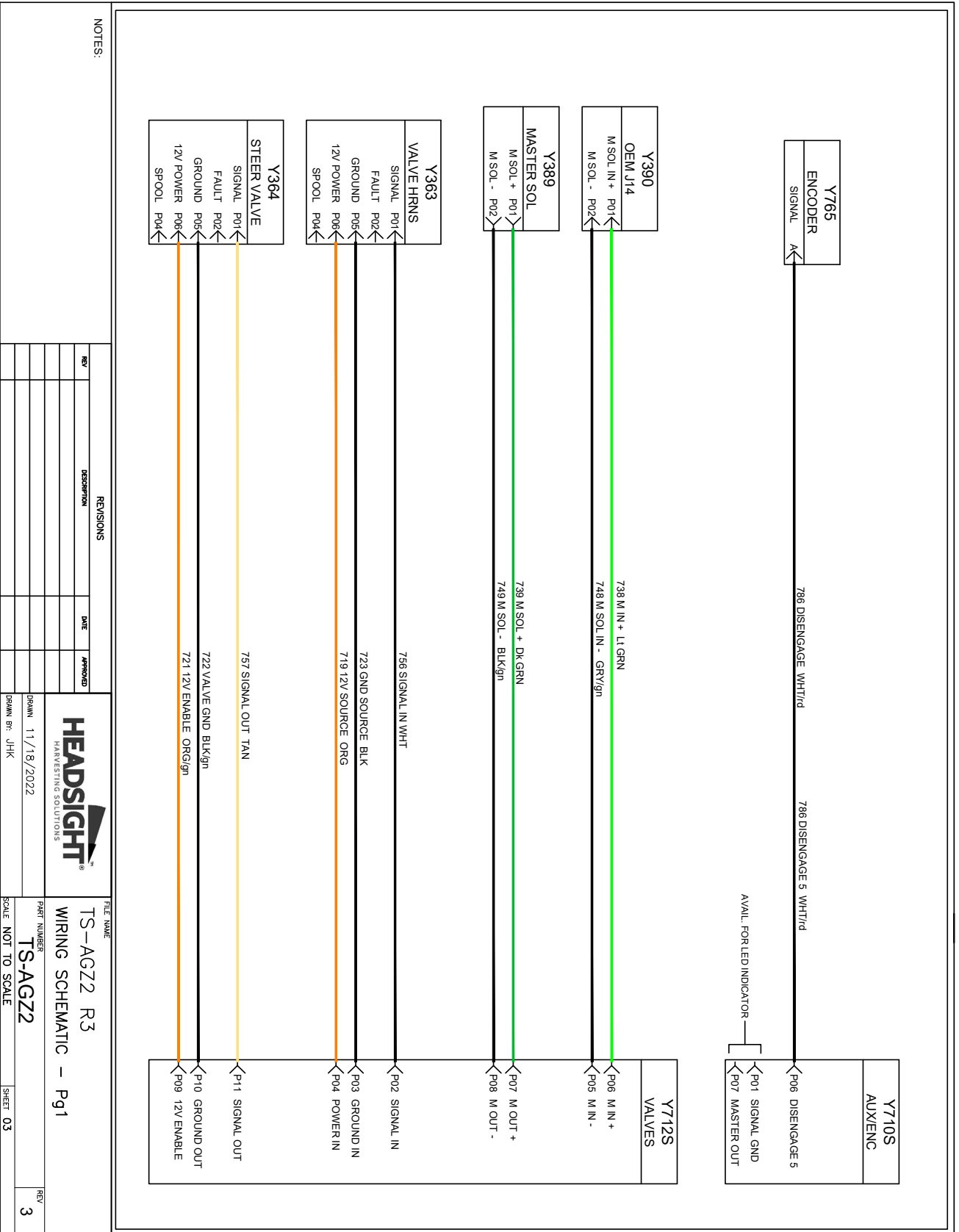
SCALE: NOT TO SCALE SHEET: 03

REV: 5

TS-AGPD Device Harness



TS-AGZ2 Device Harness



Statement of Limited Warranty

For Headsight® Products

Precision Planting DBA Headsight Harvesting Solutions (Headsight) warrants its new products to be free from defects in material and workmanship for a period of twelve (12) consecutive months following the date of purchase by the retail purchaser.

Headsight warrants its new corn sensors assemblies for a period of thirty-six (36) months.

Headsight warrants genuine Headsight replacement parts and components to be free from defects in material and workmanship for a period of six (6) consecutive months following the date of purchase or the remainder of the original equipment warranty period, whichever is longer.

Headsight's obligation under these warranties shall be limited to repairing or replacing, free of charge to the original purchaser, any part that, in Headsight's judgment, shows evidence of such defect.

Limitations to Warranty

This warranty does not cover:

- Warranty claims directly resulting from improper installation of the product.
- Any product damaged by accident, abuse, misuse, or negligence after shipment from Headsight.
- Any unauthorized product alteration or modification.
- Any unauthorized repairs made with parts other than genuine Headsight parts.
- Any repairs performed by anyone other than Headsight or an authorized Headsight dealer unless specifically authorized by Headsight.

Warranty Procedure

- Troubleshooting should be done between farmer/dealer and Headsight through our technical assistance @ **574.220.5511**.
- Labor reimbursement will occur only pre-arranged through Headsight technical assistance and be scheduled to a flat rate basis or reasonable time allowance in Headsight's judgment.
- There is no mileage reimbursement.
- Diagnostic time will not be reimbursed except in pre-arranged circumstances.
- Warranty claims should be on typical dealer service work order with a number and name to be attached for any future correspondence.
- All warranty work must be performed, and claims submitted, within thirty (30) days of the occurrence of the claim and within the warranty period.
- All parts removed during warranty repair must be returned to Headsight with Headsight's Return Form within thirty (30) days of the occurrence of the claim and within the warranty period.
- Headsight reserves the right to either inspect the product at the original retail purchaser's location or require it to be returned to Headsight for inspection.

Limitation of Liability

Headsight makes no express warranties other than those, which are specifically described herein. Any description of the goods sold hereunder, including any reference to buyer's specifications and any descriptions in circulars and other written material published by Headsight is for the sole purpose of identifying such goods and shall not create an express warranty that the goods shall conform to such description.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. There are no implied warranties of merchantability or fitness of a particular purpose. This warranty states Headsight's entire and exclusive liability and buyer's exclusive remedy or any claim for damages in connection with the sale of furnishing of Headsight products, their design, suitability for use, installation or operation, or for any claimed defects herein. HEADSIGHT WILL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES WHATSOEVER, NOR FOR ANY SUM IN EXCESS OF THE PRICE RECEIVED FOR THE GOODS FOR WHICH LIABILITY IS CLAIMED.

No representative of Headsight nor any dealer associated with Headsight has the authority to change the items of this warranty in any manner whatsoever, and no assistance to purchaser by Headsight in the repair or operation of any Headsight product shall constitute a waiver of the conditions of this warranty, nor shall such assistance extend or revive it.

Headsight reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold. Warranty: **1/2023**



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