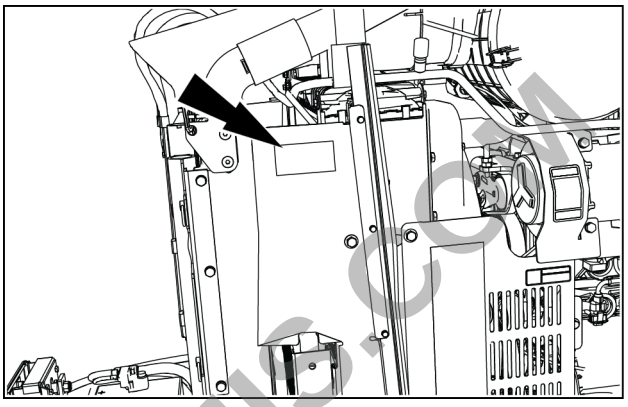
Product identification

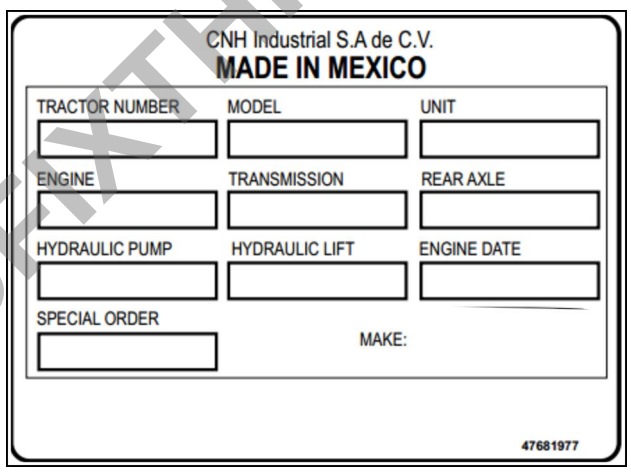
The machine is identified with a Vehicle Identification Number (VIN) plate as well as a serial number. You should supply the machine VIN plate data to your NEW HOLLAND dealer when requesting parts or service. The VIN is also used to identify the machine in case of theft.

Vehicle Identification Number (VIN) plate

The VIN plate is located on the left-hand side of the radiator support.

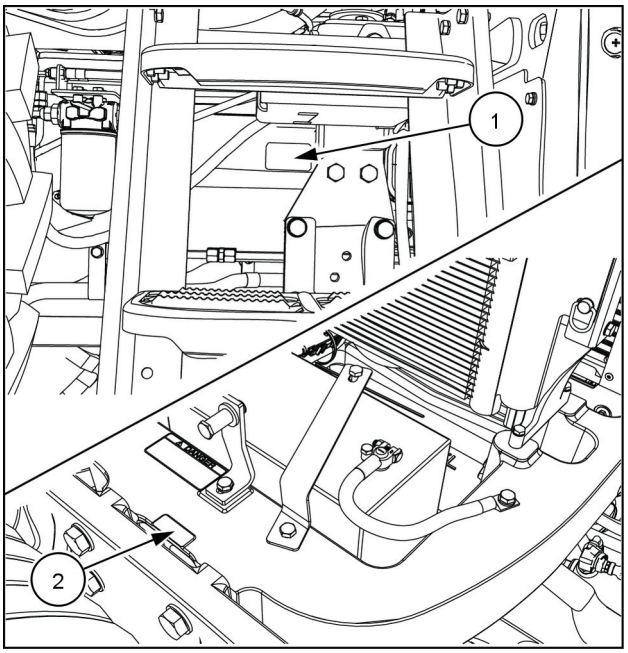


NHIL14TR00902AA 1



NHIL14TR00006AA 2

The serial number is found on the right-hand side of the transmission housing, behind the right-hand access ladder at **(1)**. The serial number is also stamped on the top of the front axle support at **(2)**.



NHIL14TR00972BA 3

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Engine - Remove

⚠ WARNING

Avoid injury!
Handle all parts carefully. Do not place your hands or fingers between parts. Use Personal Protective Equipment (PPE) as indicated in this manual, including protective goggles, gloves, and safety footwear.
Failure to comply could result in death or serious injury.

W0208A

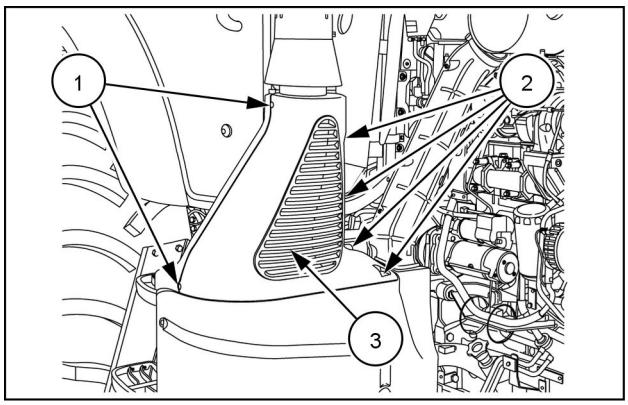
⚠ WARNING

Heavy objects!
Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders.
Failure to comply could result in death or serious injury.

W0398A

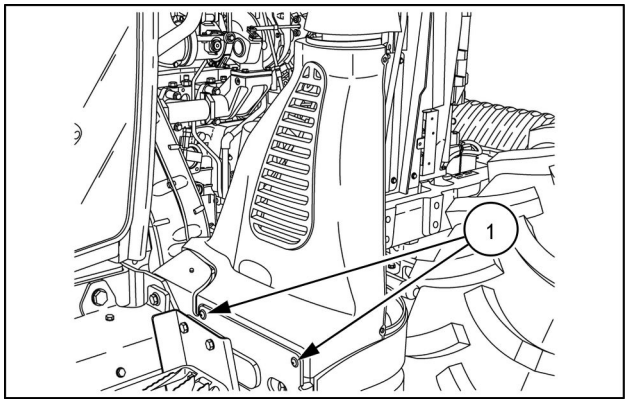
Prior operation:
Air conditioning - Recover (50.200)
Prior operation:
Battery - Disconnect (55.302)
Prior operation:
Engine cooling system - Drain fluid (10.400)
Prior operation:
Hood - Remove (90.100)
Prior operation:
Axle support - Remove (Front support and front axle) – Standard-duty (25.100)
Prior operation:
Engine - Disconnect (10.001)

1. Install wheel chocks in front of and behind the rear wheels.
2. Remove the Selective Catalytic Reduction (SCR) muffler and catalyst upper front cover retaining bolts **(1)** and **(2)**.
3. Remove the SCR muffler and catalyst upper front cover **(3)**.



NHIL15TR00033AA 1

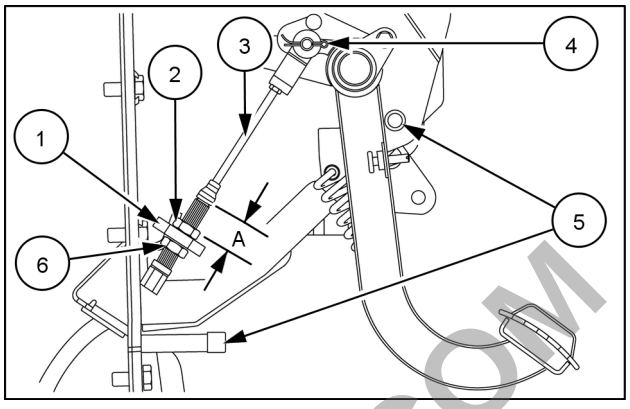
4. Remove the SCR muffler and catalyst upper rear cover retaining bolts **(1)**.



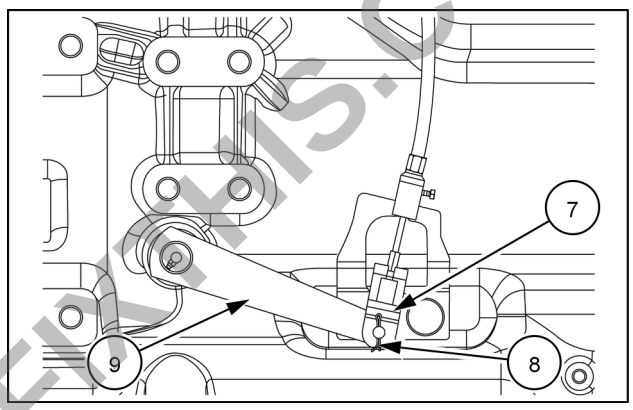
NHIL15TR00264AA 2

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1. Connect the clutch pedal control cable **(3)** and secure it with a cotter pin **(4)**.
2. Install the clutch pedal control cable **(3)** into the bracket **(1)**.
3. Adjust the nut **(2)** until the dimension **(A)** is between 12 to 14 threads.
4. Connect the clutch control cable **(7)** to the clutch lever **(9)** and secure with a cotter pin **(8)**.
5. Gradually tighten the nuts **(2)** and **(6)**.
6. Check that the pedal travel permit the touch of the upper and lower stoppers **(5)**.
7. Torque to **15.0 N·m** (**11.1 lb ft**) the nuts **(2)** and **(6)**.



NHIL15TR00267AA 1



NHIL15TR00268AA 2

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Transmission cooler - Remove - Power Shuttle Transmission

TS6.1	NA

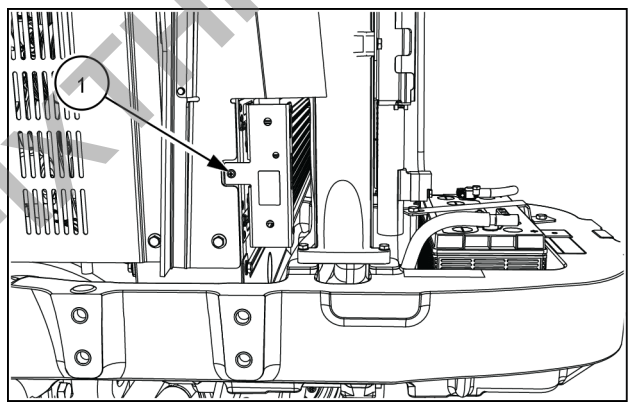
⚠ WARNING

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W0208A

NOTE: *The procedure outlined below shows the removal of the Power Shuttle Transmission Oil Cooler on the Two-Wheel Drive (2WD) tractors. For the removal of the oil cooler on the Four-Wheel Drive (4WD) tractors, first remove the front right-hand wheel.*

NOTE: *The oil cooler is on a rail mounting system in front of the radiator. The Air Conditioning (A/C) condenser is on a hinge and can pivot away from the radiator to provide for easy removal and installation.*

1. Open the hood.
2. Remove the screw and the washer **(1)**.



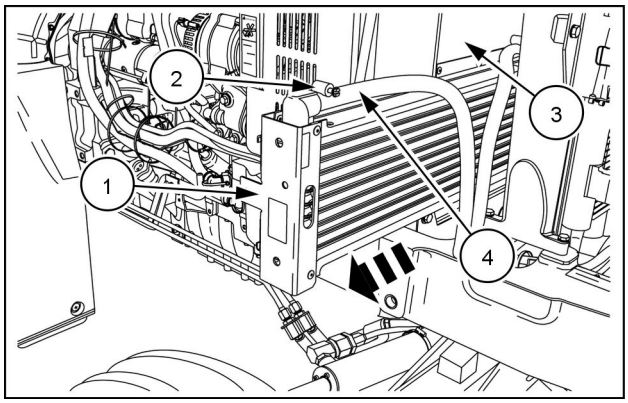
NHIL14TR00975AA 1

3. Slide the transmission oil cooler **(1)** down and away from the radiator **(3)**.
4. Loosen the clamp **(2)** and remove the transmission oil cooler hose **(4)**.

NOTE: *Before you remove the hoses, mark the position for installation at a later time.*

NOTE: *Use a suitable container to recover the hydraulic fluid spilled from the hoses.*

NOTE: *Cap transmission oil cooler connectors and plug the hose in order to avoid spillage of hydraulic fluid.*

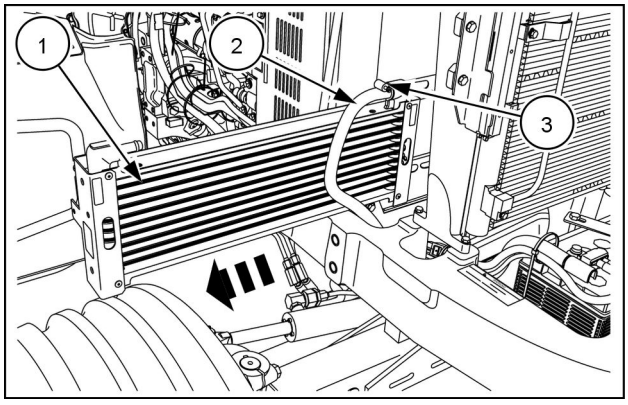


NHIL15TR00724AA 2

5. Continue sliding the transmission oil cooler **(1)** on its mounting system.
6. Loosen the clamp **(3)** and remove the transmission oil cooler hose **(2)**.

NOTE: *Cap transmission oil cooler connectors and plug the hose in order to avoid spillage of hydraulic fluid*

7. Remove the transmission oil cooler **(1)**.



NHIL15TR00725AA 3

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Four-Wheel Drive (4WD) gearbox - Remove

TS6.110 HC	NA Front axle - Four-Wheel Drive (4WD)
TS6.110	NA Front axle - Four-Wheel Drive (4WD)
TS6.120 HC	NA Front axle - Four-Wheel Drive (4WD)
TS6.120	NA Front axle - Four-Wheel Drive (4WD)
TS6.130	NA Front axle - Four-Wheel Drive (4WD)
TS6.140	NA Front axle - Four-Wheel Drive (4WD)

⚠ WARNING

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W0208A

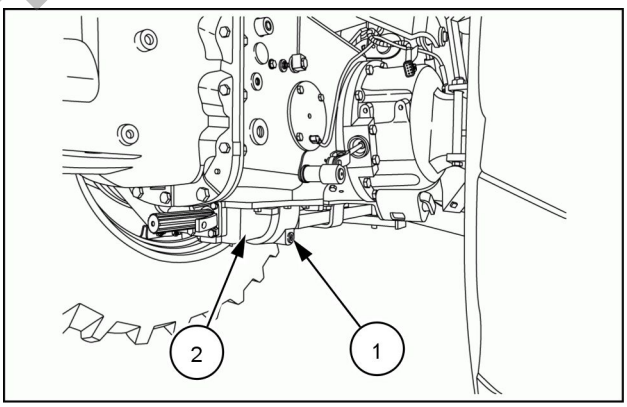
⚠ WARNING

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W0398A

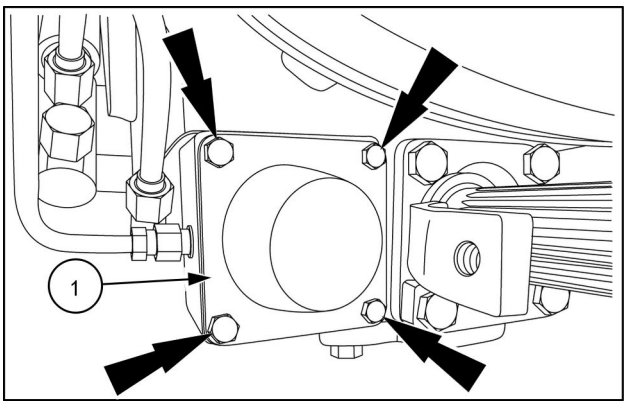
Prior operation:
Front drive shaft - Remove (23.314)

1. Remove the drain plug **(1)** from the Four-Wheel Drive (4WD) gearbox **(2)** and collect the oil in a suitable container.



NHIL14TR00159AA 1

2. Remove the four bolts from the solenoid cover **(1)** on the right-hand side of the gearbox.
3. Remove the solenoid cover from the gearbox.



NHIL14TR00303AA 2

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Powered front axle - Remove – Standard-duty

TS6.130 130 HP Tier 4B (final) engine, 2WD, and ROPS.	NA Front axle - Four-Wheel Drive (4WD)
TS6.130 130 HP Tier 4B (final) engine, 2WD, and cab.	NA Front axle - Four-Wheel Drive (4WD)
TS6.130 130 HP Tier 4B (final) engine, 4WD, and ROPS.	NA Front axle - Four-Wheel Drive (4WD)
TS6.130 130 HP Tier 4B (final) engine, 4WD, and cab.	NA Front axle - Four-Wheel Drive (4WD)
TS6.140 139 HP TIER 4B (final) engine, 2WD, and ROPS.	NA Front axle - Four-Wheel Drive (4WD)
TS6.140 139 HP TIER 4B (final) engine, 2WD, and cab.	NA Front axle - Four-Wheel Drive (4WD)
TS6.140 139 HP TIER 4B (final) engine, 4WD, and ROPS.	NA Front axle - Four-Wheel Drive (4WD)
TS6.140 139 HP TIER 4B (final) engine, 4WD, and cab.	NA Front axle - Four-Wheel Drive (4WD)

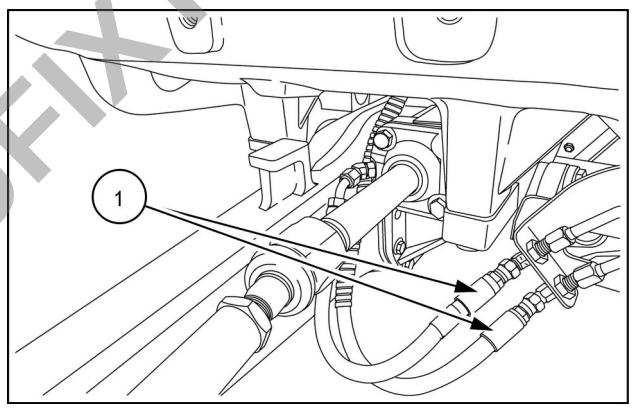
⚠ WARNING

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Failure to comply could result in death or serious injury.

W0208A

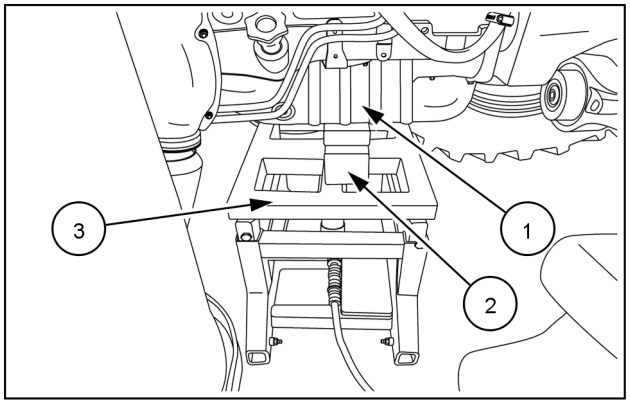
Prior operation:
Battery - Disconnect (55.302)
Prior operation:
Front drive shaft - Remove (23.314)

1. Disconnect the steering cylinder lines **(1)**.



NHIL14TR00427AA 1

2. Use a suitable lifting device to raise the tractor and place a splitting kit **(3)** with a wooden block **(2)** underneath the engine **(1)**.



NHIL15TR00069AA 2

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Powered rear axle - Drain fluid

⚠ WARNING

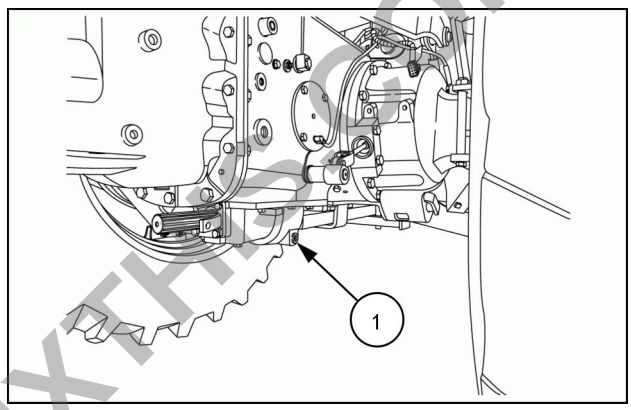
Burn hazard!
Do not handle any service fluid (engine coolant, engine oil, hydraulic oil, etc.) at temperatures that exceed 49 °C (120 °F). Allow fluids to cool before proceeding.
Failure to comply could result in death or serious injury.

W0330B

NOTE: *Operate the machine for a few minutes before you change the oil. Warm oil flows more freely and will remove more contaminants from the system.*

1. Clean the area around the hydraulic oil drain plug. Remove the drain plug and allow the oil to drain into an appropriate container.

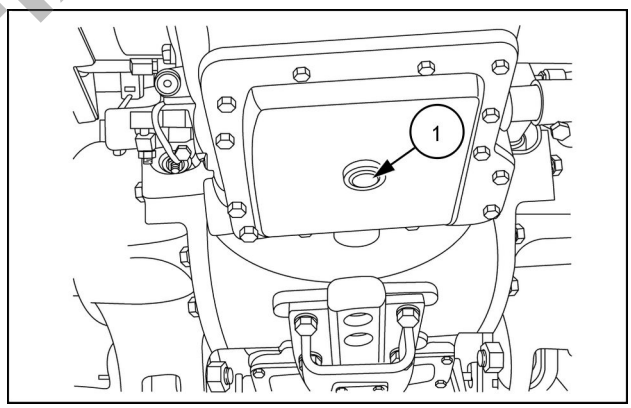
NOTE: *On Four-Wheel Drive (4WD) tractors, the oil is drained from the transfer case drain plug* ***(1)****.*



NHIL14TR00159AA 1

NOTE: *On Two-Wheel Drive (2WD) tractors, the oil is drained from the rear axle housing drain plug* ***(1)****.*

2. Install back the drain plug after the oil has drained completely.



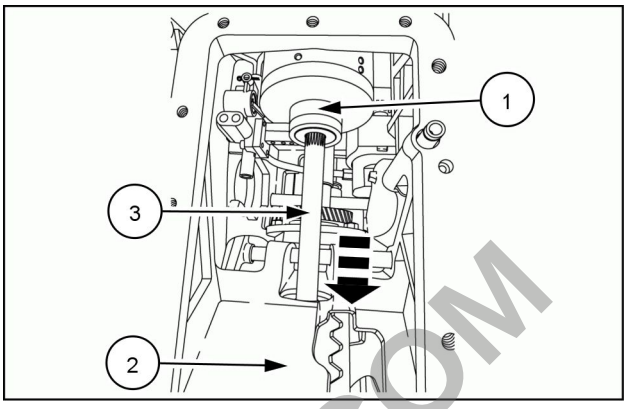
NHIL12TR00184AA 2

Next operation:
Powered rear axle - Filling (27.100)

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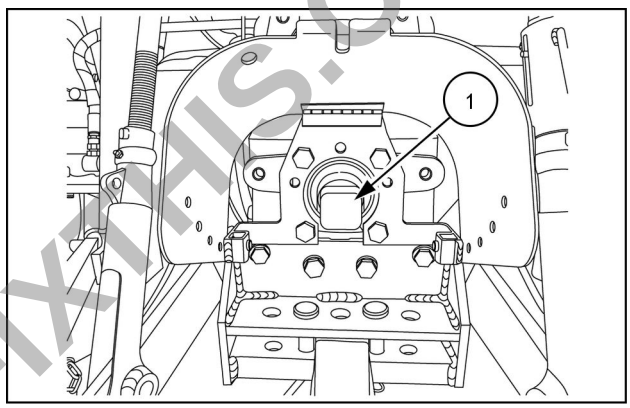
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4. Remove the upper PTO shaft **(3)** from the PTO drive clutch **(1)**.
5. Slide the PTO shaft through the rear axle housing **(2)**.



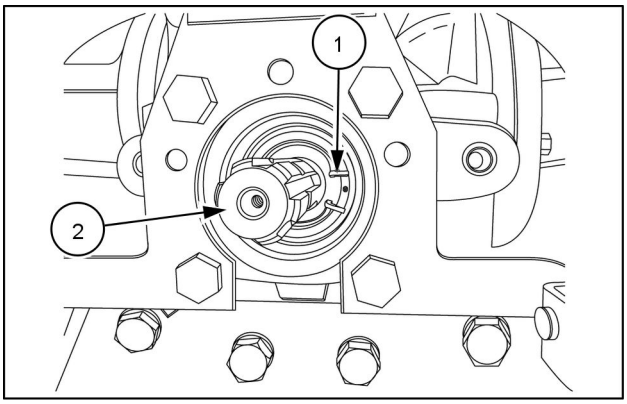
NHIL14TR00161AA 3

6. Remove the cap cover **(1)** from the Power Take-Off (PTO) shaft bearing retainer.



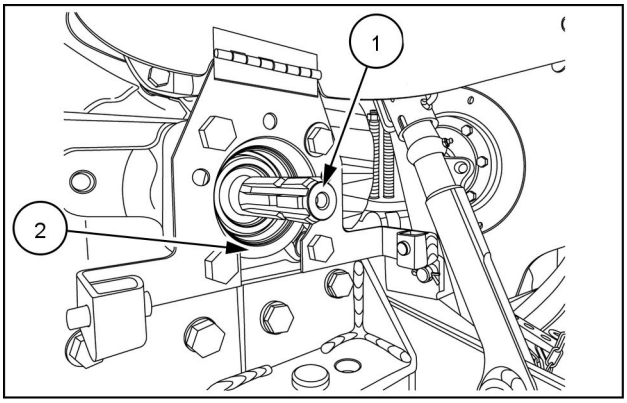
NHIL14TR00633AA 4

7. Remove the circlip **(1)** from the Power Take-Off (PTO) Output shaft **(2)**.



NHIL14TR00627AA 5

8. Remove the PTO Output shaft **(1)** from the PTO shaft bearing retainer **(2)**.



NHIL14TR00628AA 6

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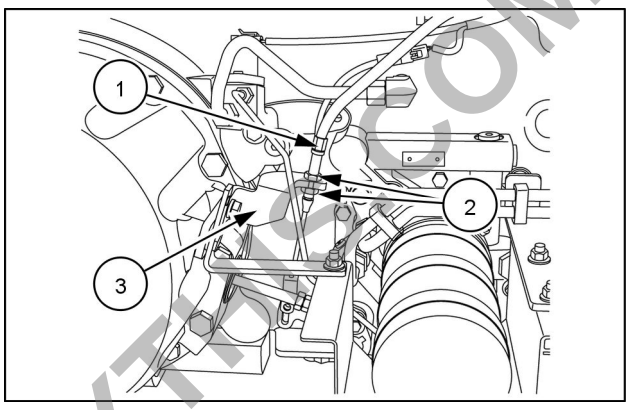
Parking brake or parking lock - Remove - Control cable

⚠ WARNING

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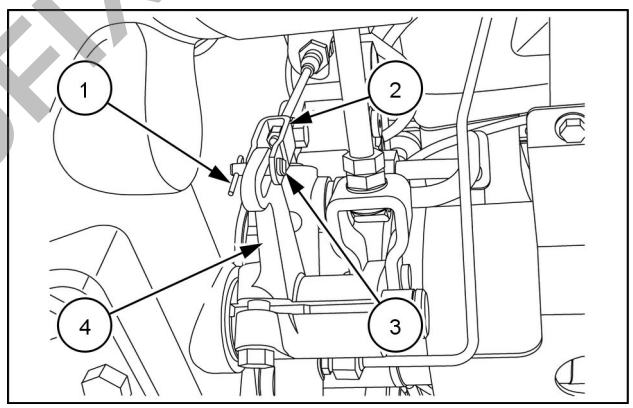
W0208A

1. Loosen the locknuts **(2)** from the parking brake control cable **(1)** and detach the control cable **(1)** from its support **(3)**.



NHIL14TR00584AA 1

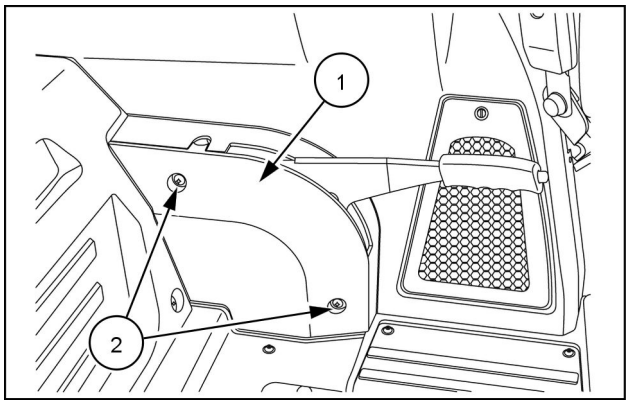
2. Remove the cotter pin **(1)** from the clevis pin **(3)** that secures the parking brake control cable **(2)**.
3. Remove the clevis pin **(3)** and disconnect the control cable **(2)** from the lever **(4)**.



NHIL14TR00583AA 2

Tractors with cab

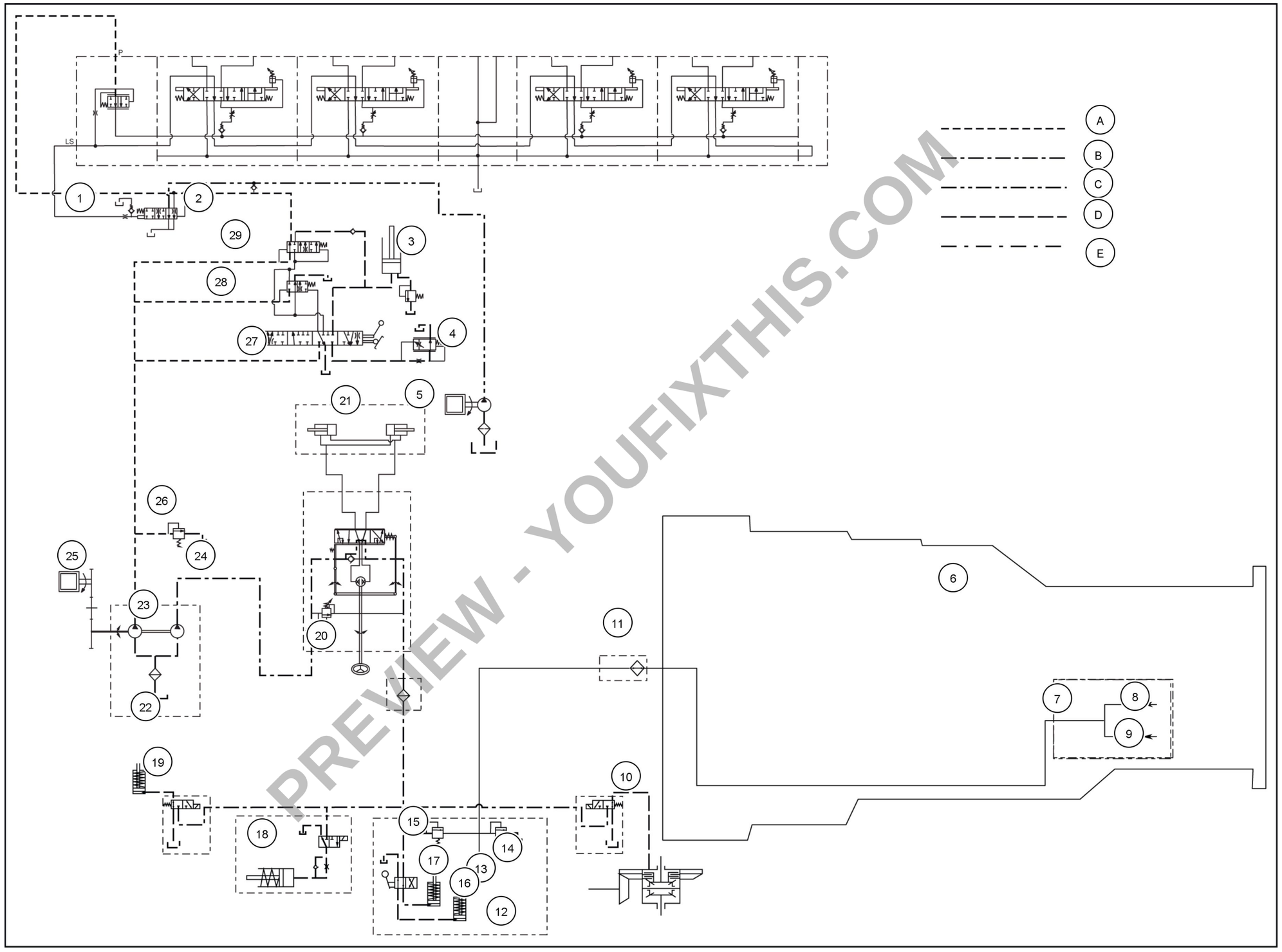
4. Remove the retaining screws **(2)** from the handbrake cover **(1)**.
5. Remove the handbrake cover.



NHIL15TR00614AA 3

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NHIL12CT0375HA 1

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Rear three-point hitch - Dynamic description

The three-point hitch can operate in either draft control or position control.

The control system selected depends on the type of implement in use and the operating conditions.

A draft control lever and a position control lever, located on the right-hand side of the operator's seat, provide control of the hydraulic lift system.

Draft control lever

The draft control lever **(1)** operates in a slotted bracket with formed notches to prevent accidental movement of the lever. To move the lever out of the notch, slide the lever to the right to clear the notches and move it to the desired position.

A decal adjacent to the draft control lever clearly identifies the draft and position control settings.

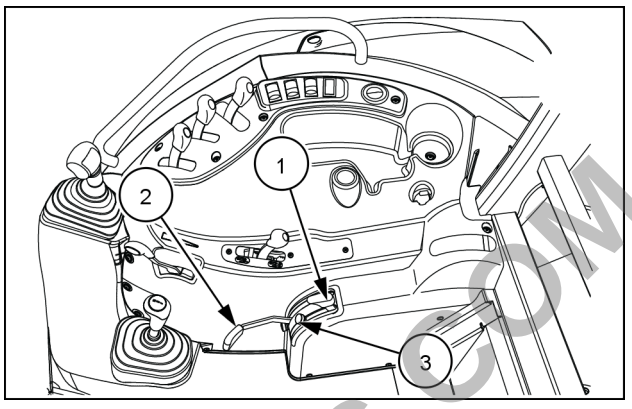
With the draft control lever in the forward position, the three-point hitch is in the most sensitive setting and variations in soil density cause the hydraulic system to respond to small changes in soil condition. Move the draft control lever progressively rearward to decrease draft control sensitivity. The rearmost position sets the system in position control.

NOTICE: *Always set the draft control lever to position control in the rearmost notch when automatic correction of the three-point hitch is not desired, such as when attaching equipment, transporting equipment, or with no equipment attached.*

Position control lever

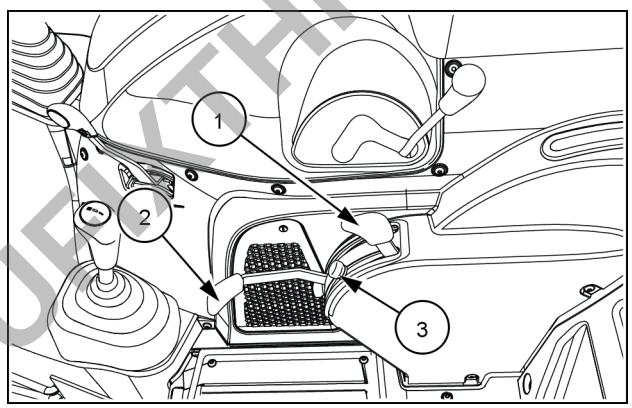
The position control lever **(2)** raises or lowers the three-point hitch linkage and implement to the required height or working depth. Pushing the position control lever forward lowers the implement. Pulling the position control lever to the rear raises the implement. An adjustable stop **(3)** provides a means of returning the position control lever to the selected setting during use. To adjust the location of the stop, turn the knob counter-clockwise to loosen it and slide it to the desired position. Tighten the knob. The stop can be bypassed by easing the lever to the right to clear the stop.

Without a cab



NHIL14TR00736AA 1

With a cab



NHIL14TR00725AA 2

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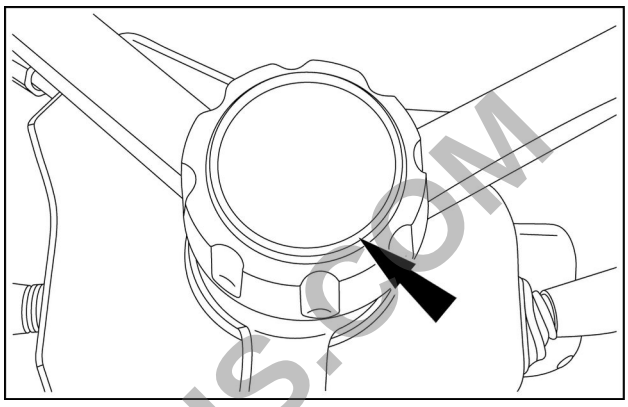
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Power steering wheel - Remove

NOTE: *Make sure that the road wheels are in the straight ahead position.*

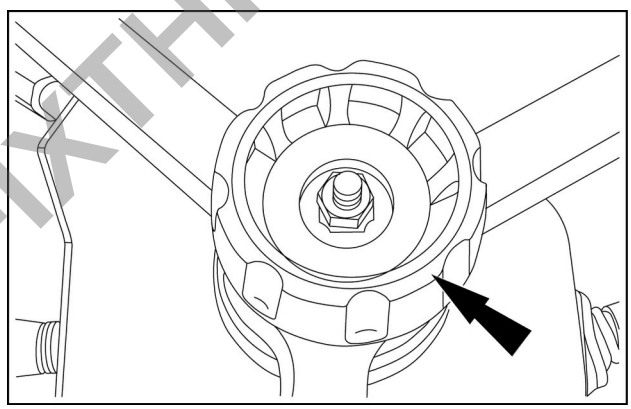
NOTE: *Lock the steering column in the down position.*

1. Remove the steering wheel emblem.



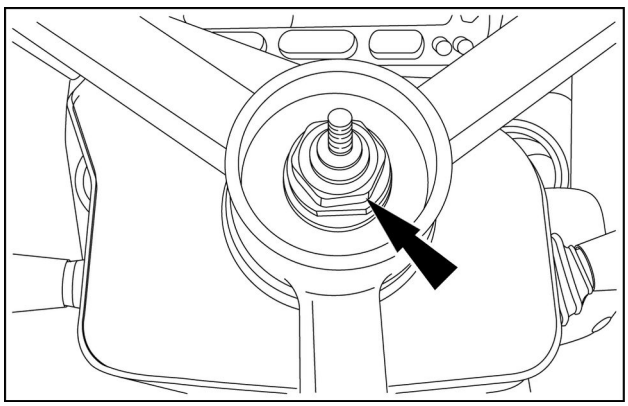
NHIL15TR00621AA 1

2. Remove the steering wheel knob.



NHIL15TR00624AA 2

3. Loosen the steering wheel retaining nut.



NHIL15TR00622AA 3

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Heater core - Remove

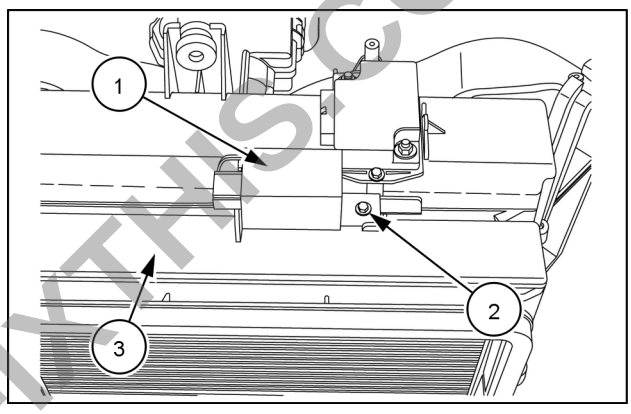
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W0208A

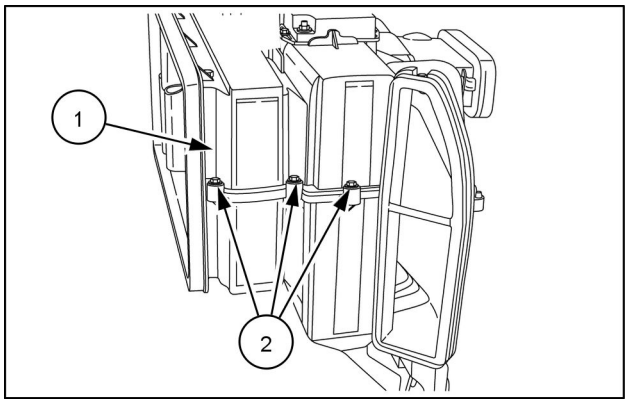
Prior operation:
Air conditioning - Remove - Heating, Ventilation, and Air Conditioning (HVAC) box (50.200)

1. Remove the retaining screw **(2)** from the thermostat **(1)**.
2. Remove the thermostat from the upper cover of the Heating, Ventilation, and Air Conditioning (HVAC) box **(3)**.



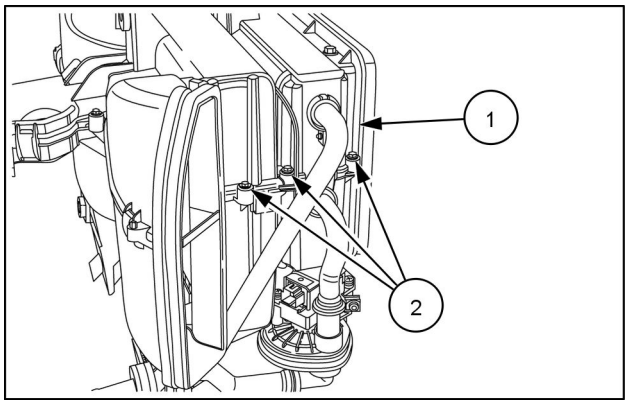
NHIL15TR00609AA 1

3. Remove the three right-hand side retaining screws **(2)** from the HVAC box **(1)**.



NHIL15TR00608AA 2

4. Remove the three left-hand side retaining screws **(2)** from the HVAC box **(1)**.



NHIL15TR00606AA 3

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Fuel level sensor - Remove

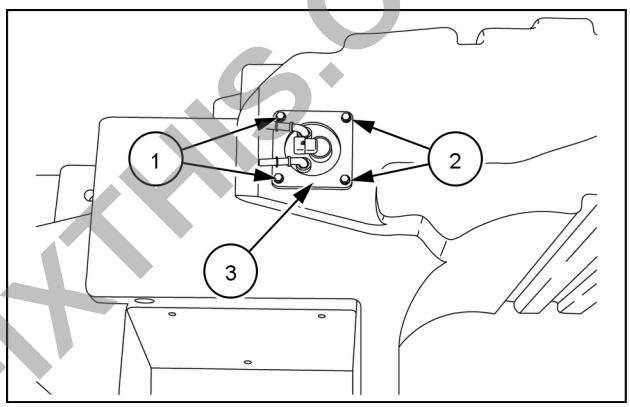
⚠ WARNING

Chemical hazard!
When handling fuel, lubricants, and other service chemicals, follow the manufacturer's instructions. Wear Personal Protective Equipment (PPE) as instructed. Do not smoke or use open flame. Collect fluids in proper containers. Obey all local and environmental regulations when disposing of chemicals.
Failure to comply could result in death or serious injury.

W0371A

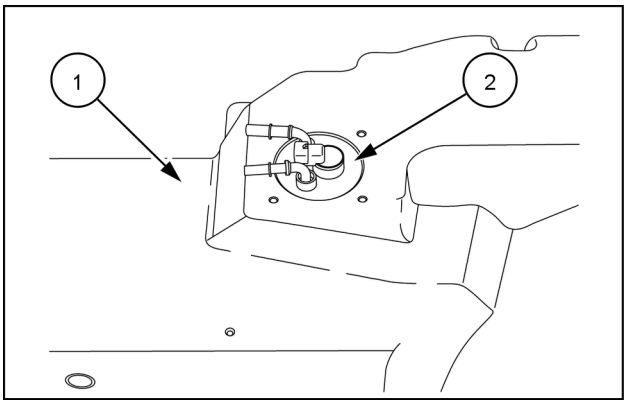
Prior operation:
Fuel tank - Remove (10.216)

1. Remove the four retaining bolts **(1)** and **(2)** from the fuel level sensor **B-265**.
2. Remove the fuel level sensor plate **(3)**.



NHIL15TR00338AA 1

3. Remove the fuel level sensor **B-265 (2)** from the fuel tank **(1)**.

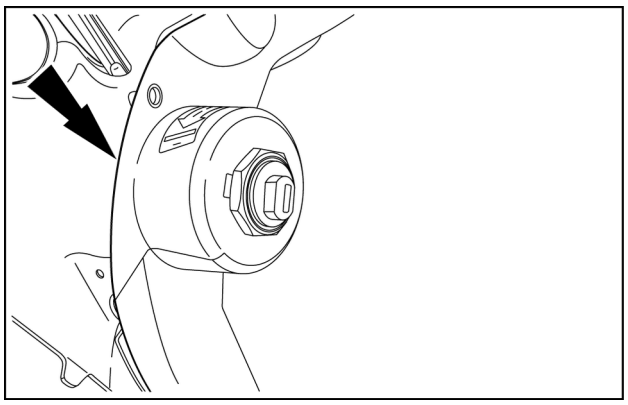


NHIL15TR00339AA 2

Next operation:
Fuel level sensor - Install (55.011)

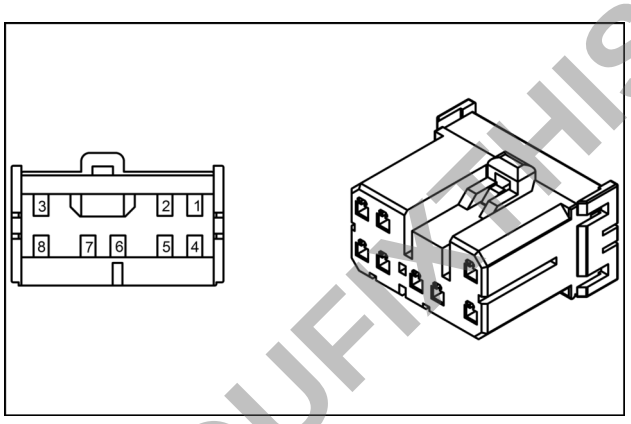
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NHIL15TR00618AA 6

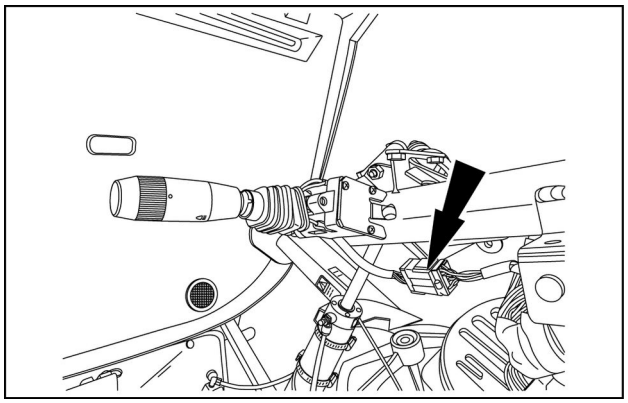
X-004 - Switch lamps (lights and horn) (87747425)



87747425 7

87747425

Pin	From	Wire	Description	Color-Size	Frame
1	**X-026 pin 32**	MH-376	HORN	OR - 1.0	**Wiring harnesses - Electrical schematic sheet 17 (55.100)**
2	**X-073 pin 1B**	MH-015	LIGHT CONTROL	RD - 1.0	
3	**X-048 pin R3_85**	MH-1024	MH-1024	RD - 0.75	
4	**X-048 pin R1_85**	MH-1023C	HIGH BEAM REL	BR - 0.5	
5	**X-048 pin R2_85**	MH-1023B	LOW BEAM REL	BR - 0.5	
6	**X-434 pin 1**	MH-3000C	CONTROL LIGHTS	OR - 1.0	
7	**X-053 pin B3**	MH-3001	L (IN)	GN - 1.0	
8	**X-053 pin B2**	MH-3002	R (IN)	GN - 1.0	



NHIL15TR00696AA 8

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Engine starter - Remove

⚠ WARNING

Avoid injury!
Handle all parts carefully. Do not place your hands or fingers between parts. Use Personal Protective Equipment (PPE) as indicated in this manual, including protective goggles, gloves, and safety footwear.
Failure to comply could result in death or serious injury.

W0208A

⚠ DANGER

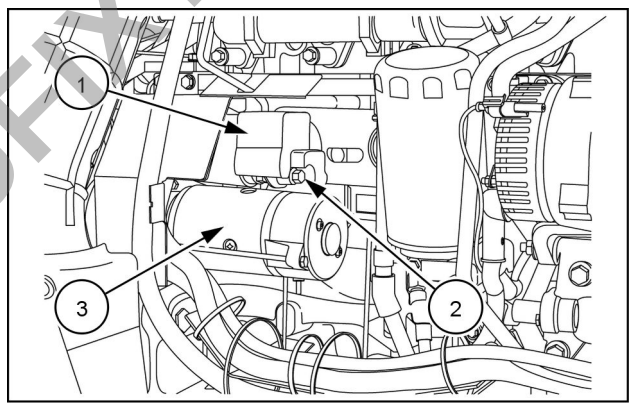
Run-over hazard!
Start engine only from operator's seat. If you bypass the safety start switch, the engine can start with the transmission in gear and the machine will move. DO NOT short or connect across terminals of the starter solenoid.
Failure to comply will result in death or serious injury.

D0102A

Prior operation:
Battery - Disconnect (55.302)

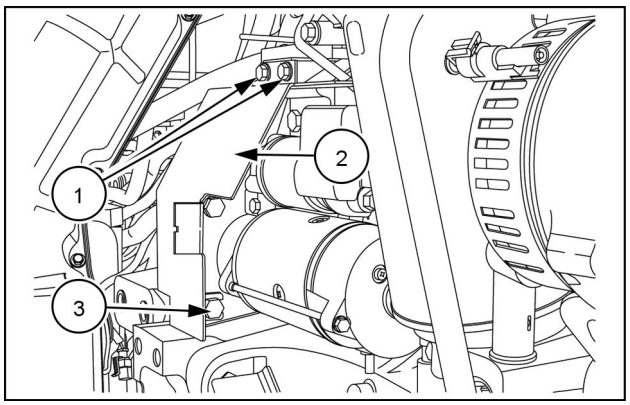
NOTICE: *Some components were removed from the images for better clarity.*

1. Remove the solenoid cover retaining nut **(2)**.
2. Remove the solenoid cover **(1)** from the starter motor **M-003 (3)**.



NHIL15TR00032AA 1

3. Remove the two starter cover retaining bolts **(1)** and the starter motor mounting bolt **(3)**.
4. Remove the starter cover **(2)**.



NHIL15TR00299AA 2

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Cab radio set - Remove

TS6.110 110 HP TIER 4B (final) engine, 2WD, and cab.	NA
TS6.110 110 HP TIER 4B (final) engine, 4WD, and cab.	NA
TS6.110 HC 110 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and cab.	NA
TS6.120 119 HP TIER 4B (final) engine, 2WD, and cab.	NA
TS6.120 119 HP TIER 4B (final) engine, 4WD, and cab.	NA
TS6.120 HC 119 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and cab.	NA
TS6.130 130 HP Tier 4B (final) engine, 2WD, and cab.	NA
TS6.130 130 HP Tier 4B (final) engine, 4WD, and cab.	NA
TS6.140 139 HP TIER 4B (final) engine, 2WD, and cab.	NA
TS6.140 139 HP TIER 4B (final) engine, 4WD, and cab.	NA

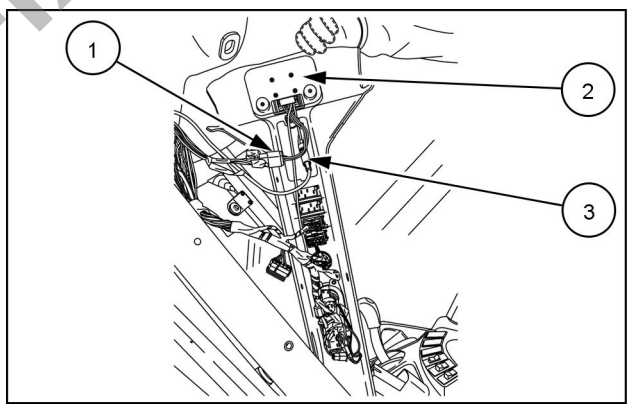
⚠ CAUTION

Avoid injury!
Handle all parts carefully. Do not place your hands or fingers between parts. Use Personal Protective Equipment (PPE) as indicated in this manual, including protective goggles, gloves, and safety footwear.
Failure to comply could result in minor or moderate injury.

C0145A

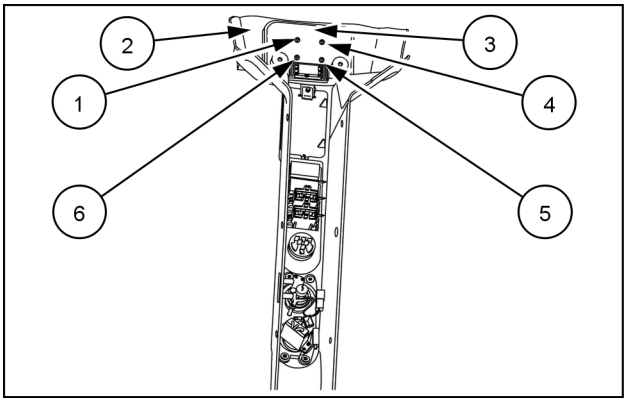
Prior operation:
Battery - Disconnect (55.302)
Prior operation:
Pillar trim plate - Remove (90.160)

1. Disconnect the electrical connector **X-158 (1)** from the cab radio set **A-157 (2)**.
2. Disconnect the antenna cable **(3)** from the cab radio set **A-157**.



NHIL15TR00630AA 1

3. Remove the four screws **(1)**, **(4)**, **(5)**, and **(6)** that secure the cab radio set **A-157 (3)**.
4. Remove the cab radio set **A-157** from the pillar trim plate **(2)**.



NHIL15TR00629AA 2

Next operation:
Cab radio set - Install (55.512)

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Electrical systems - 55

FAULT CODES - DTC

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TS6.110 110 HP TIER 4B (final) engine, 2WD, and ROPS. , TS6.110 110 HP TIER 4B (final) engine, 2WD, and cab. , TS6.110 110 HP TIER 4B (final) engine, 4WD, and ROPS. , TS6.110 110 HP TIER 4B (final) engine, 4WD, and cab. , TS6.110 HC 110 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and ROPS. , TS6.110 HC 110 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and cab. , TS6.120 119 HP TIER 4B (final) engine, 2WD, and ROPS. , TS6.120 119 HP TIER 4B (final) engine, 2WD, and cab. , TS6.120 119 HP TIER 4B (final) engine, 4WD, and ROPS. , TS6.120 119 HP TIER 4B (final) engine, 4WD, and cab. , TS6.120 HC 119 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and ROPS. , TS6.120 HC 119 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and cab. , TS6.130 130 HP Tier 4B (final) engine, 2WD, and ROPS. , TS6.130 130 HP Tier 4B (final) engine, 2WD, and cab. , TS6.130 130 HP Tier 4B (final) engine, 4WD, and ROPS. , TS6.130 130 HP Tier 4B (final) engine, 4WD, and cab. , TS6.140 139 HP TIER 4B (final) engine, 2WD, and ROPS. , TS6.140 139 HP TIER 4B (final) engine, 2WD, and cab. , TS6.140

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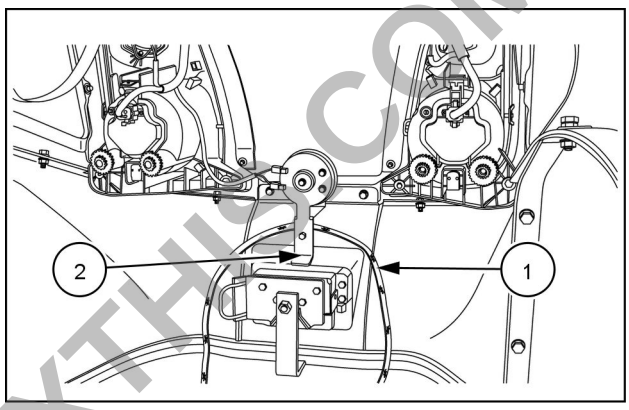
Hood - Remove

⚠ DANGER

Heavy objects!
Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders. Failure to comply will result in death or serious injury.

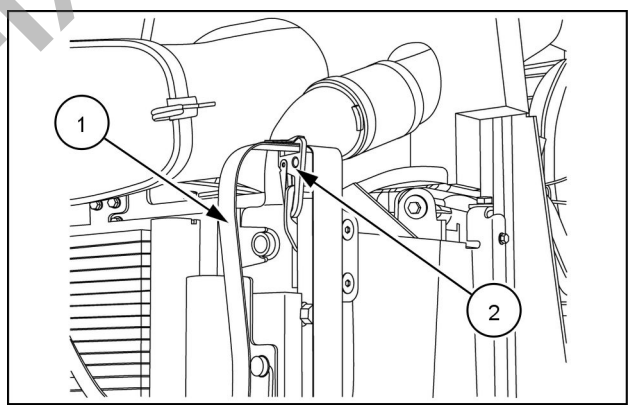
D0076A

1. Open the hood.
2. Feed a suitable strap **(1)** around the horn support **(2)** and support the front of the hood with a suitable lifting device.



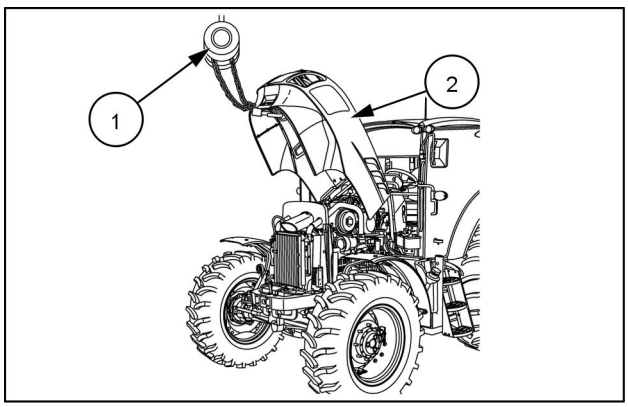
NHIL15TR00214AA 1

3. Release the hood check strap **(1)** from the retaining bracket **(2)** and fully open the hood.



NHIL15TR00217AA 2

4. Fully raise the hood **(2)** and hold it in the raised position using a suitable lifting device **(1)**.



NHIL14TR00499AA 3

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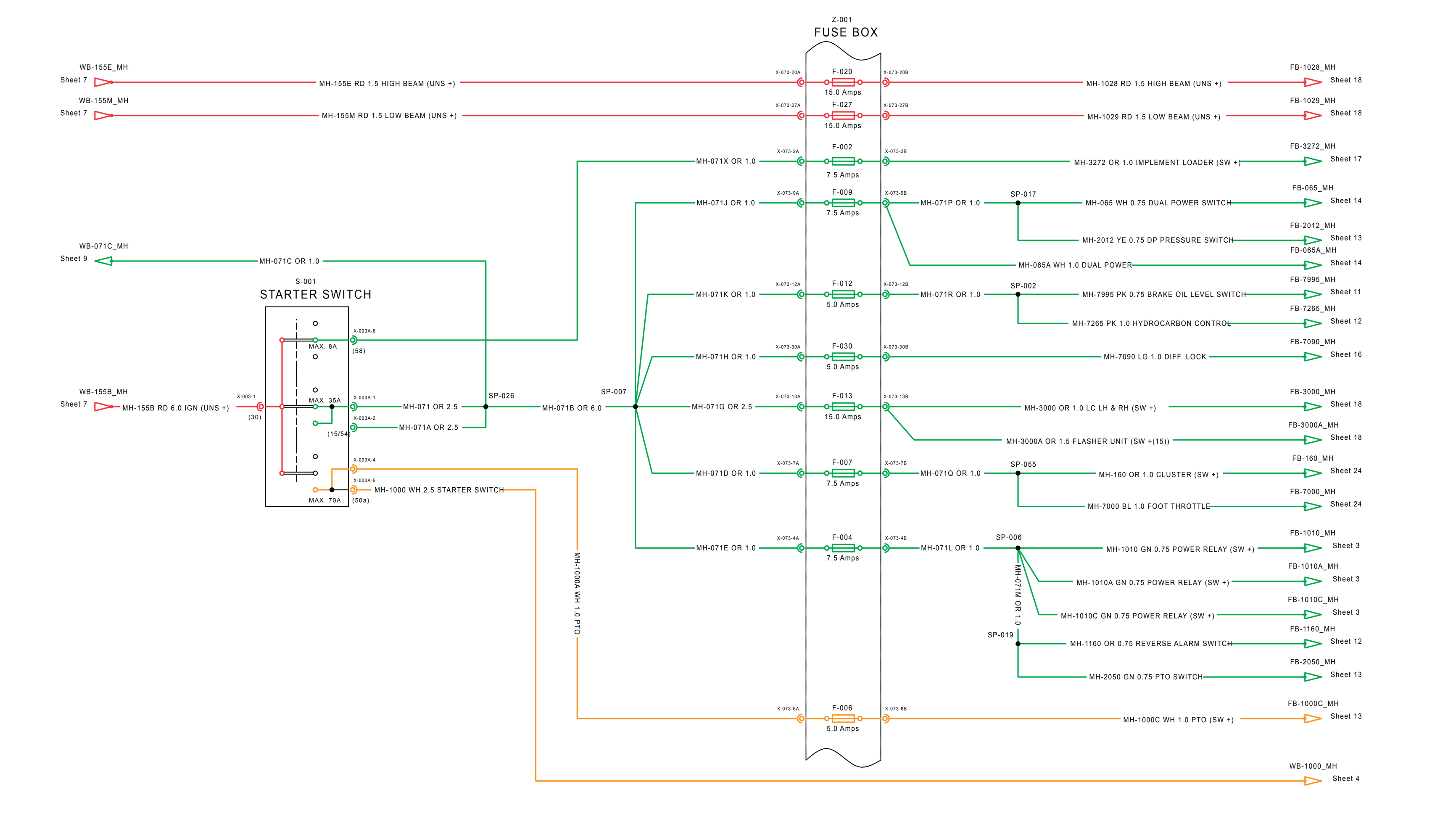
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380040220 [DPA-5 Adapter Kit Without The Case]	Exhaust muffler - Install	10.5 / 12
380040220 [DPA-5 Adapter Kit Without The Case]	Selective Catalytic Reduction	10.9 / 3
380040220 [DPA-5 Adapter Kit Without The Case]	Selective Catalytic Reduction	10.9 / 8
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380003420 [Transmission shift linkage centering tool]	Transmission control - Adjust - Gear selector control cable	21.4 / 14
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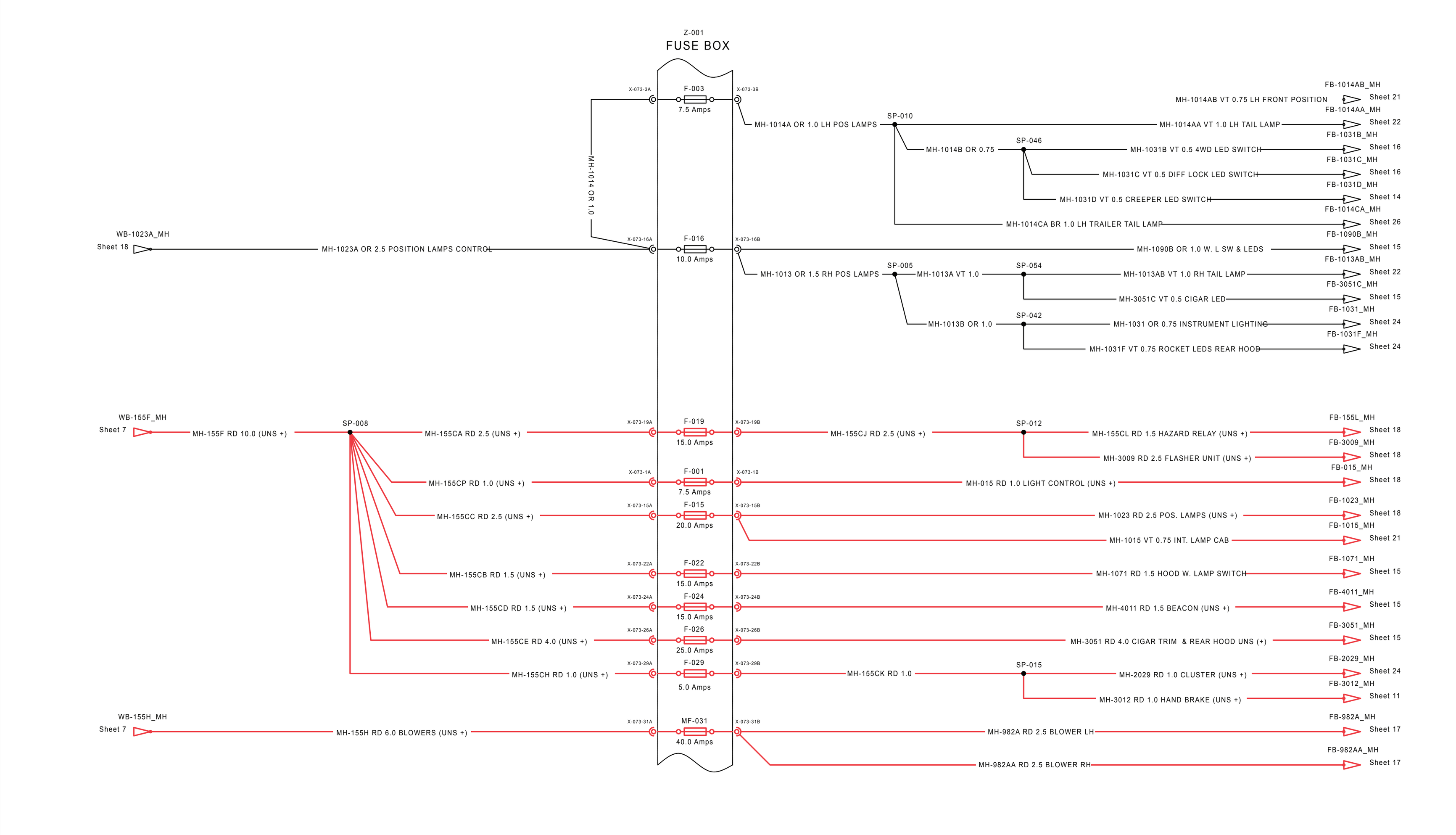
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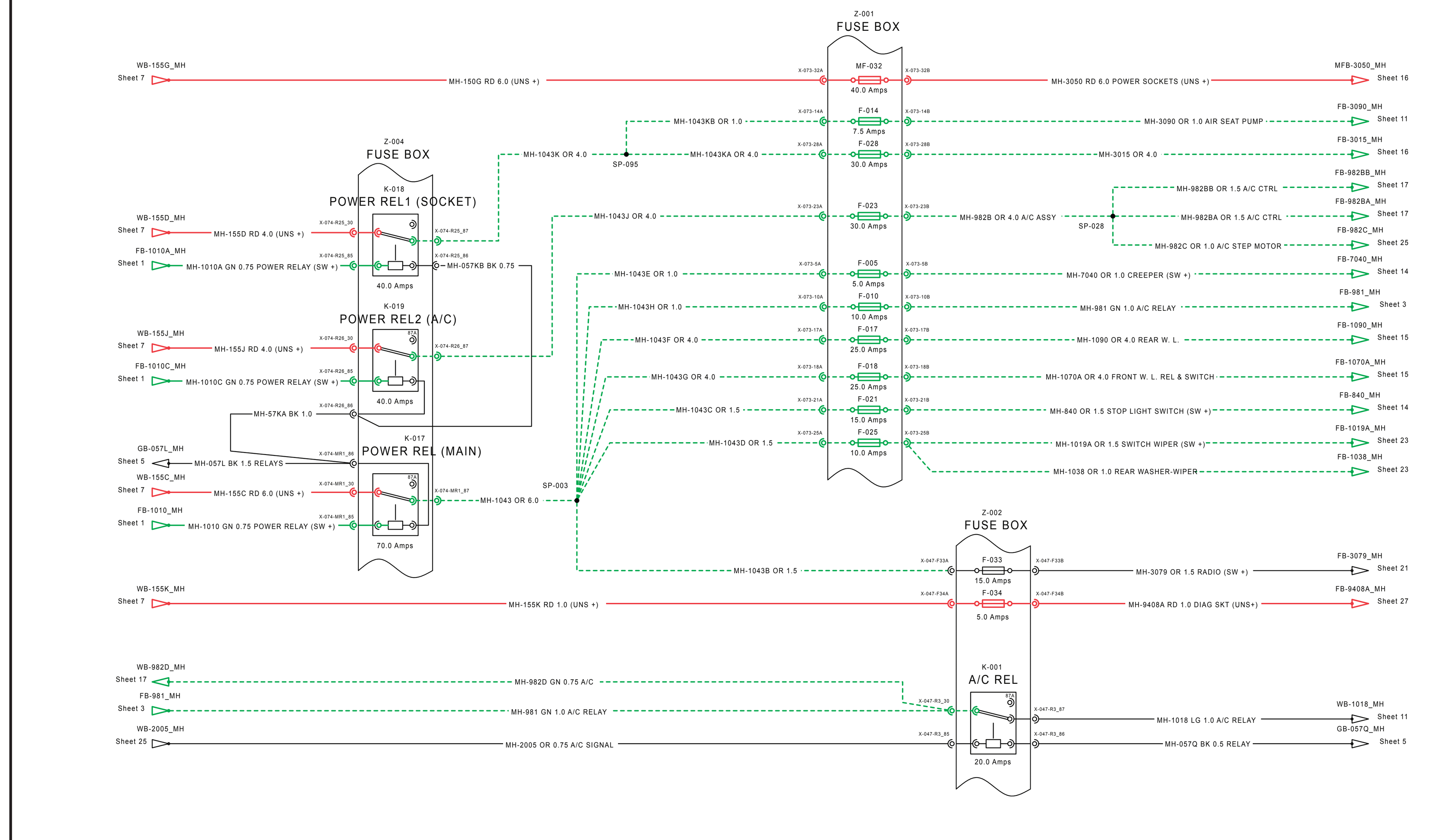
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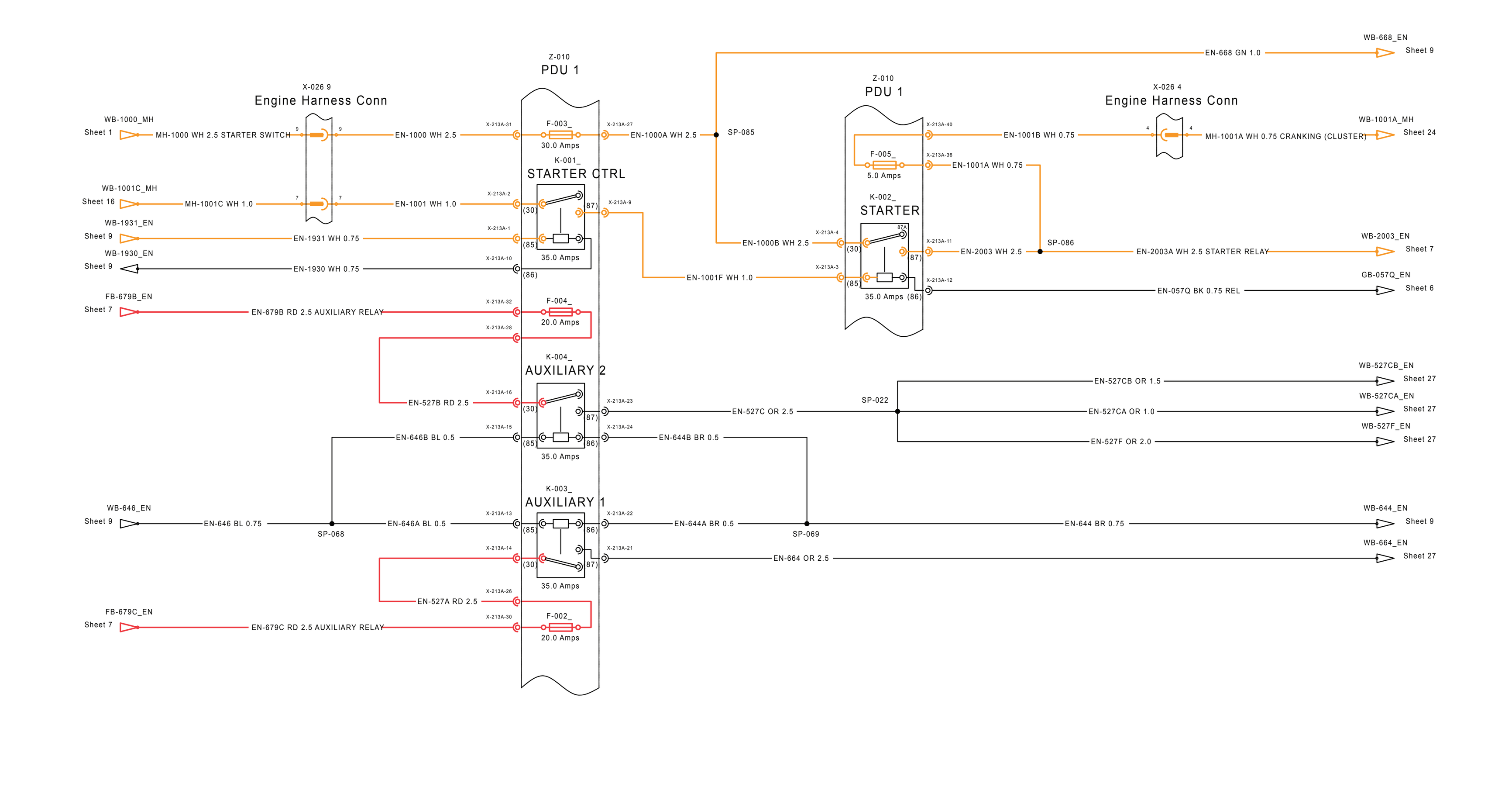
SHEET 1 - POWER DISTRIBUTION - FUSE BOX



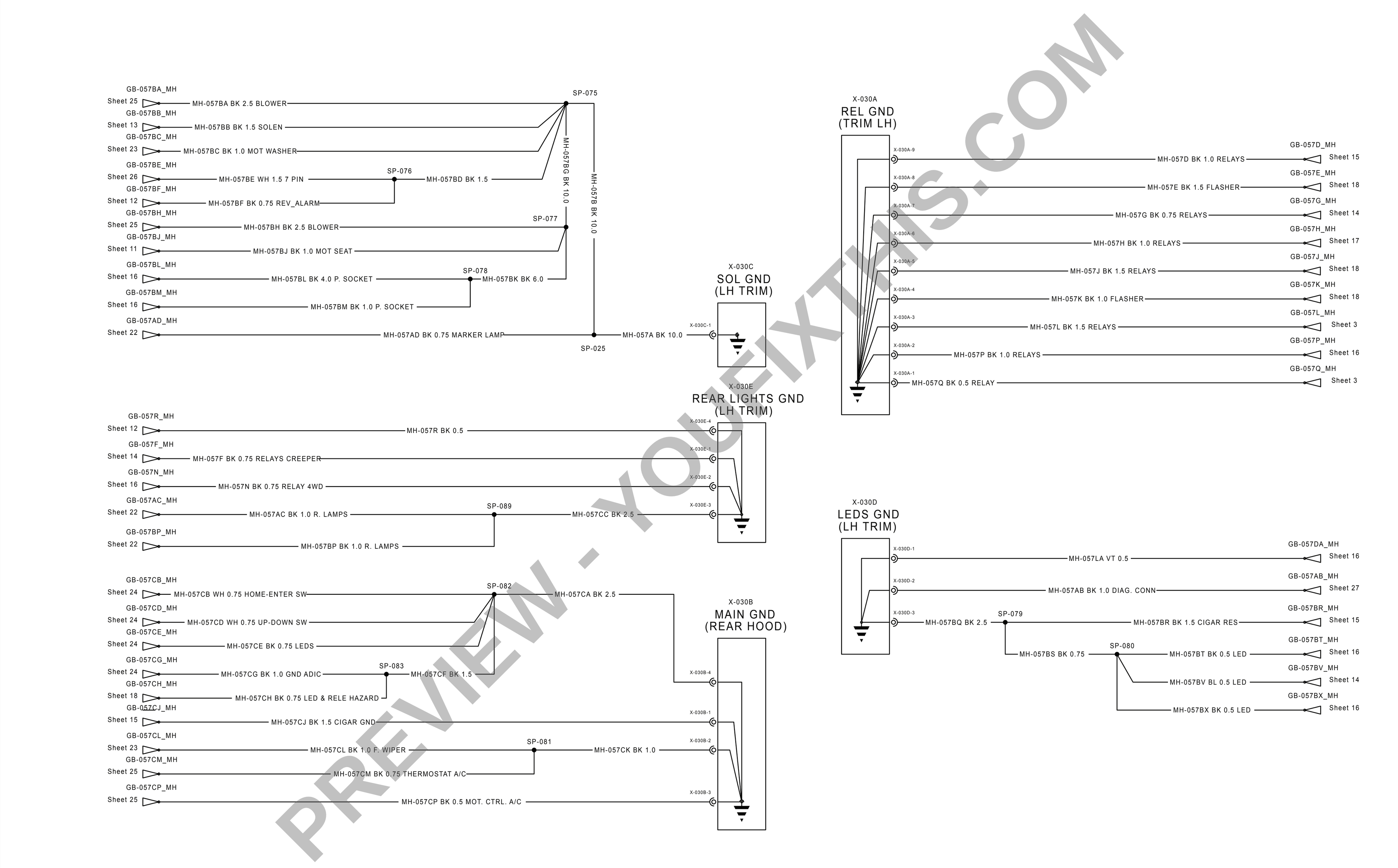
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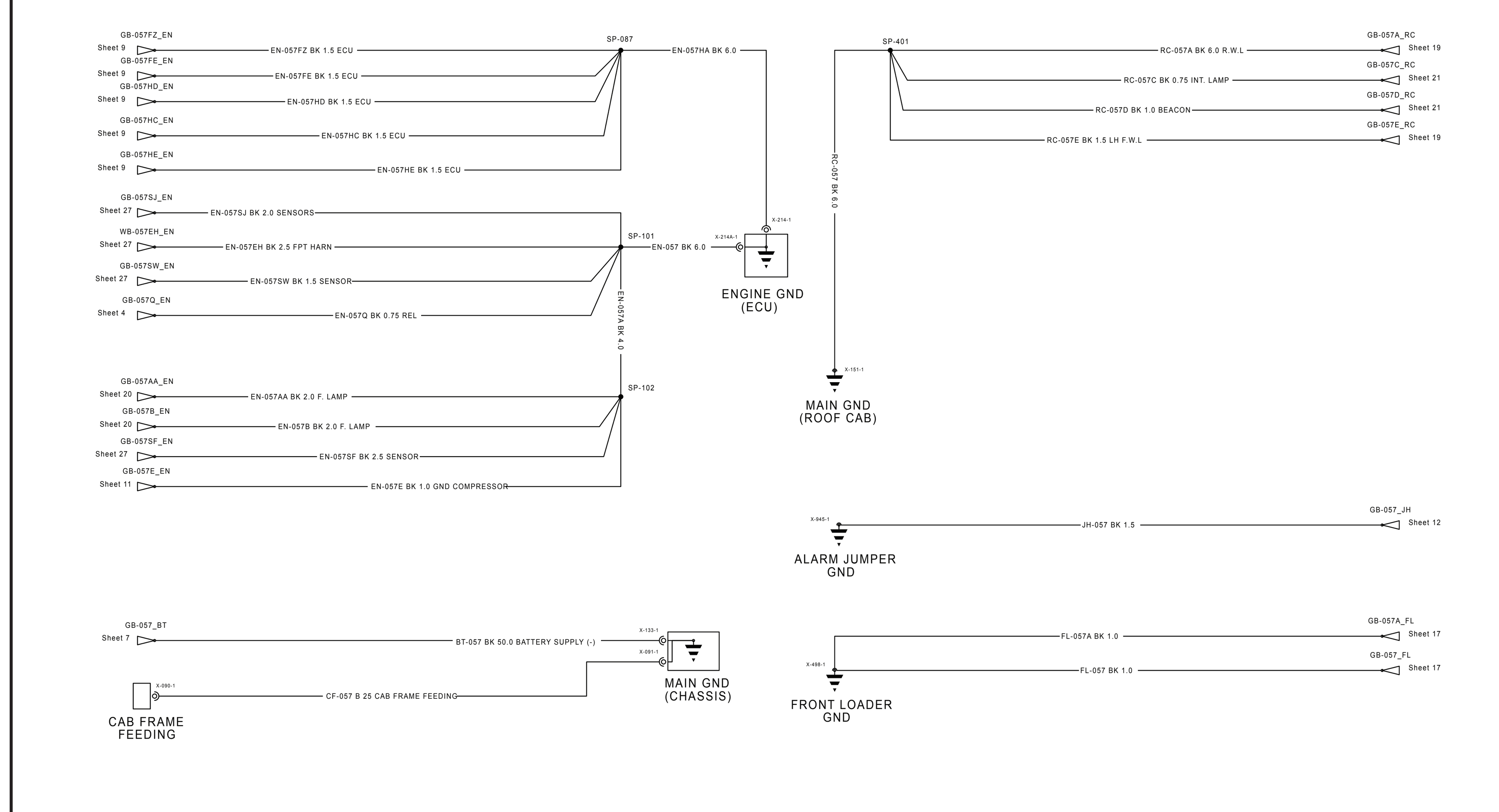
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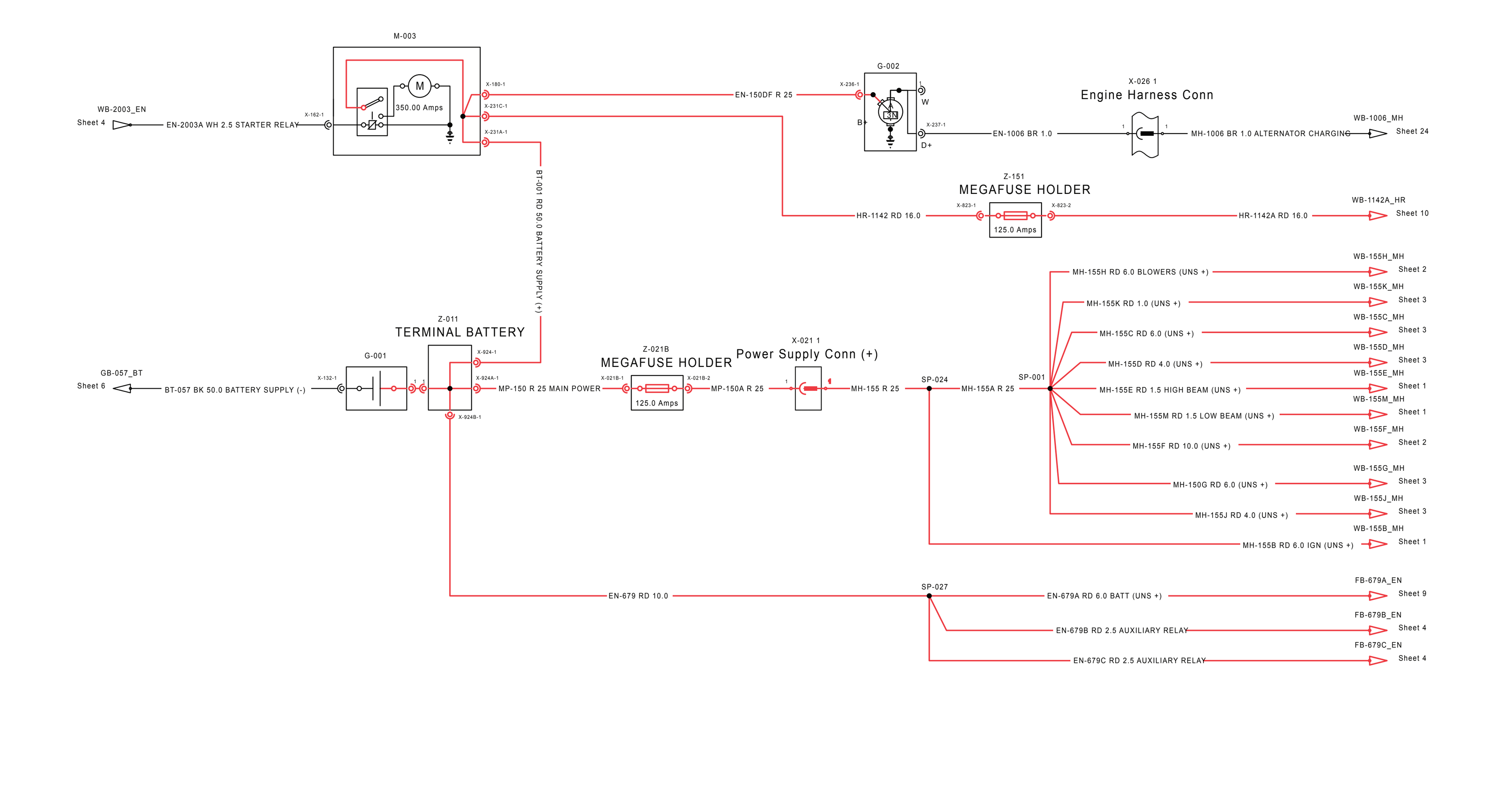
SHEET 4 - POWER DISTRIBUTION



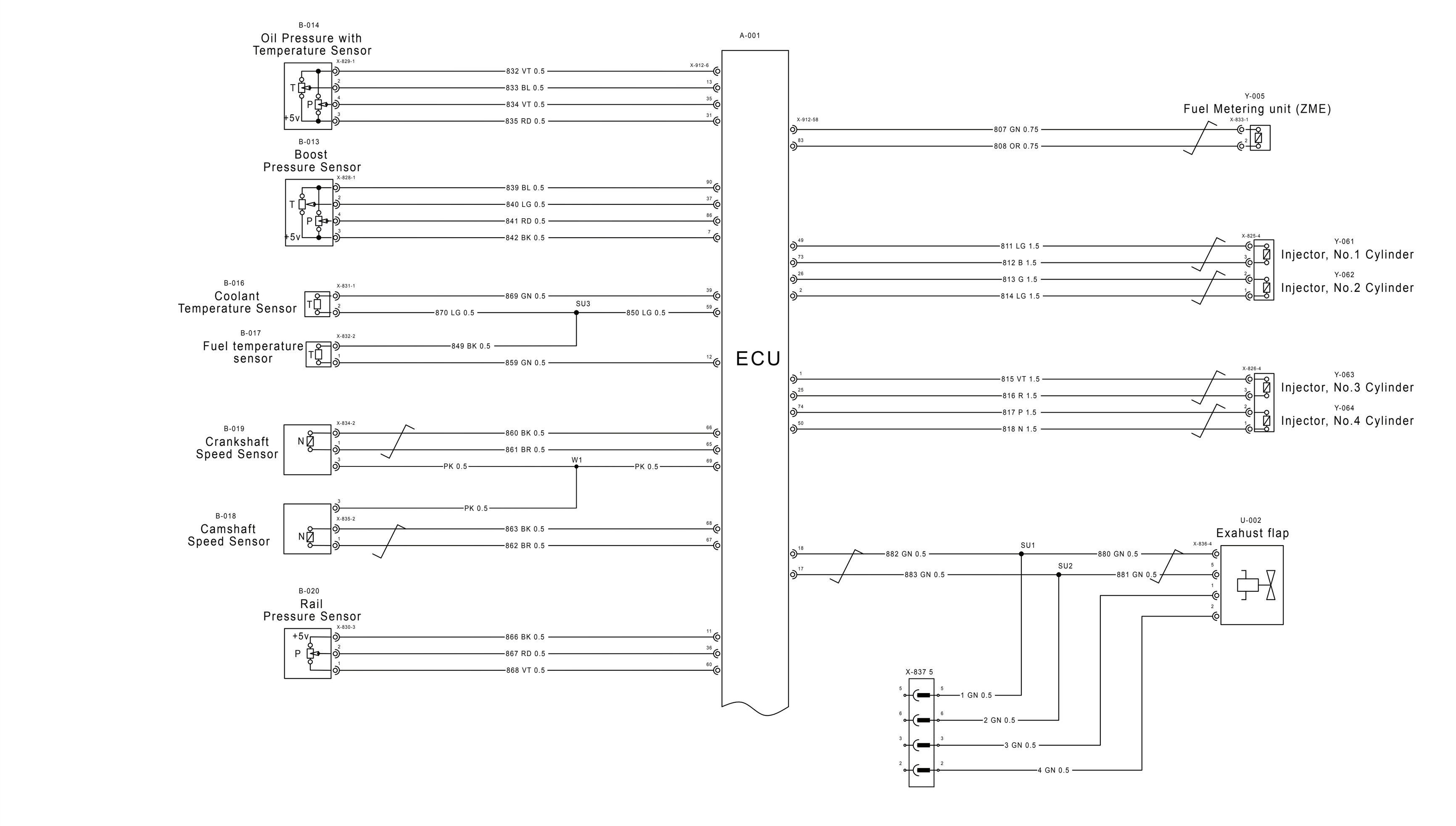
SHEET 5 - POWER DISTRIBUTION - GROUNDING SYSTEM



SHEET 6 - POWER DISTRIBUTION - GROUNDING SYSTEM



SHEET 7 - ENGINE - STARTING / CHARGING



SHEET 8 - ECU 1 - ENGINE CONTROLLER

TS6.1 SERIES TIER 4B (FINAL) TRACTOR

47815869

ELECTRICAL SCHEMATIC
CAB CONFIGURATIONS
PIN NT00001M AND ABOVE
1ST EDITION, OCTOBER 2015

DESCRIPTION	SHEET
POWER DISTRIBUTION - FUSE BOX	1
POWER DISTRIBUTION - FUSE BOX	2
POWER DISTRIBUTION - FUSE BOX	3
POWER DISTRIBUTION - PDU	4
POWER DISTRIBUTION - GROUNDING SYSTEM	5
POWER DISTRIBUTION - GROUNDING SYSTEM	6
ENGINE - STARTING / CHARGING	7
ECU 1 - ENGINE CONTROLLER	8
ECU 2 - ENGINE CONTROLLER	9
ECU 3 - ENGINE CONTROLLER	10
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TRANSMISSION CONTROL	13
TRANSMISSION CONTROL	14
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CIRCUIT COLOR INDEX

12V UNSWITCHED POWER
IGNITION KEY ON
STARTING SEQUENCE

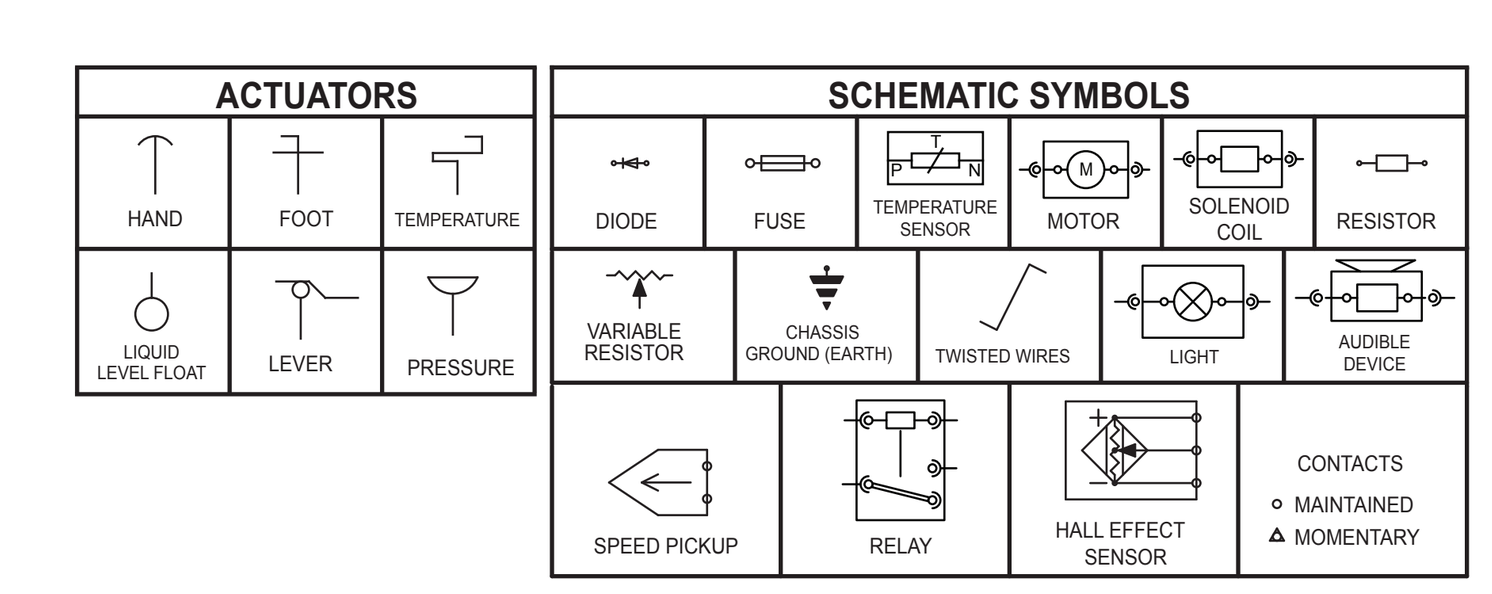
COMPONENT LEGEND

Label Prefix	Component Type
A	Electronics
B	Sensors
D	Diodes
E	Lights
F	Fuses
G	Generators
H	Audio
J	Outlets
K	Relays
M	Motors
Q	Circuit Breakers
R	Resistive
S	Switches
W	Splice Blocks
Y	Solenoids

WIRING REFERENCES

Color	Color Code	Function
Black	BK	Ground, Chassis
Blue	BL	Printed Circuit Ground
White	WH	Increasing Actuation
Gray	GY	Decreasing Actuation
Orange	OR	Power After Ignition
Yellow	YE	Signal Wires
Red	RD	Battery Voltage
Violet	VT	Lighting
Pink	PK	Reference Voltage

MF - 431 - YE
WIRE COLOR
CIRCUIT NUMBER
HARNESS CODE



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Wiring harnesses - Electrical schematic sheet 12 – Backup alarm

TS6.110 110 HP TIER 4B (final) engine, 2WD, and cab.	NA
TS6.110 110 HP TIER 4B (final) engine, 4WD, and cab.	NA
TS6.110 HC 110 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and cab.	NA
TS6.120 119 HP TIER 4B (final) engine, 2WD, and cab.	NA
TS6.120 119 HP TIER 4B (final) engine, 4WD, and cab.	NA
TS6.120 HC 119 HP TIER 4B (final) engine, High Clearance (HC), 4WD, and cab.	NA
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TS6.130 130 HP Tier 4B (final) engine, 4WD, and cab.	NA
TS6.140 139 HP TIER 4B (final) engine, 2WD, and cab.	NA
TS6.140 139 HP TIER 4B (final) engine, 4WD, and cab.	NA

Type	Component	Connector / Link	Description
Speaker	**H-001** H-001	**X-457**	Reverse alarm
Relay	**K-002**		Backup alarm relay
Relay	**K-021**		Backup alarm relay
Switch	**S-018**	**X-018**	Reverse switch
Switch	**S-027**	**X-027**	Neutral switch
Connector	**X-455**	**X-455**	Main harness to alarm harness connector
Connector	**X-947**	**X-947**	Alarm feeding connector
Sub-Assembly	**Z-003**	**X-048**	Fuse box
Sub-Assembly	**Z-005**	**X-946**	Relay holder

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DTC 1113-Engine coolant temperature sensor voltage is higher than expected

Control Module : ECU

Context:
The Electronic Control Unit (ECU) A-9000 monitors the engine coolant temperature B-9003 circuit for a voltage higher than expected condition. If the A-9000 detects a voltage greater than **4.93 V** in the B-9003 signal circuit, this fault will occur.

Cause:
The A-9000 has detected a voltage greater than **4.93 V** in the B-9003 signal circuit.

Possible failure modes:

1. Faulty B-9003, wiring.
2. Faulty B-9003, internal failure.
3. Faulty A-9000, software.

Solution:

1. Verify fault is present and active.

   Use the Electronic Service Tool (EST) to check the status of this fault.

   A. If the fault is present and active, continue with Step **2**.

   B. If the fault is no longer present or in an inactive state, the fault may be intermittent and not currently active. Continue with Step **6**.
2. Check the B-9003 circuit for an open circuit condition.

   Disconnect connector **X-9002**.

   Disconnect connector **X-9006**.

   The key must be in the OFF position.

   Use a multimeter to perform the following continuity check:

From	To	Value
X-9001 pin 39	**X-9006 pin 1**	There should be continuity.

   A. If there is no continuity, there is an open circuit condition in the B-9003 signal circuit, wire VE-014. Locate and repair the broken conductor.

   B. If there is continuity, leave both connectors disconnected and continue to Step **3**.
3. Check the B-9003 signal circuit for a short circuit condition.

   The key must be in the OFF position.

   Use a multimeter to perform the following continuity check:

From	To	Value
X-9001 pin 39	All pins in connector **X-9001**	There should be no continuity.

   A. If there is continuity, there is a short circuit condition in the B-9003 signal circuit, wire EN-014. Locate and repair the shorted conductor.

   B. If there is no continuity, leave both connectors disconnected and continue to Step **4**.

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