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FARMALL® 40C
FARMALL® 50C
Tier 4B (final)
Compact Tractor

SERVICE MANUAL

Part number 47941906
2nd edition English
March 2016
Replaces part number 47700459

CASE IH AGRICULTURE

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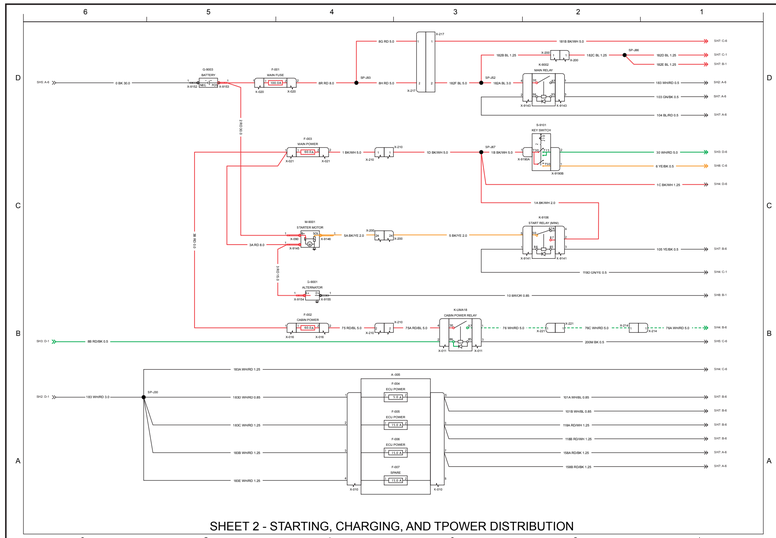
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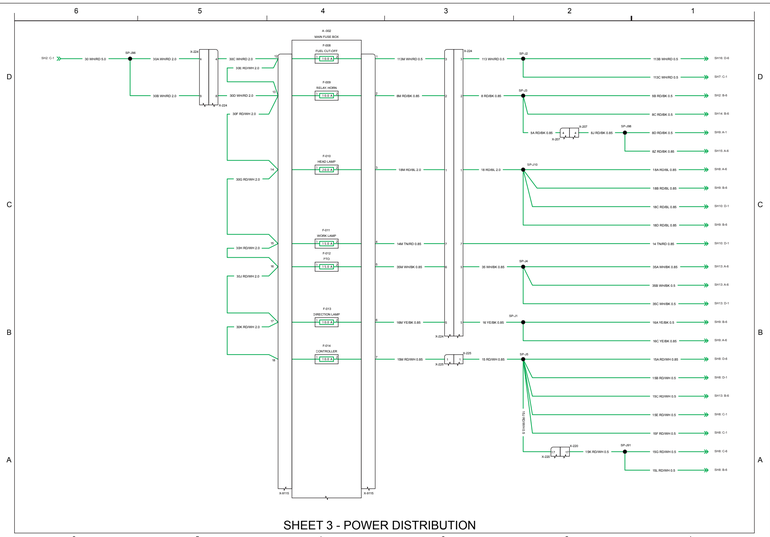
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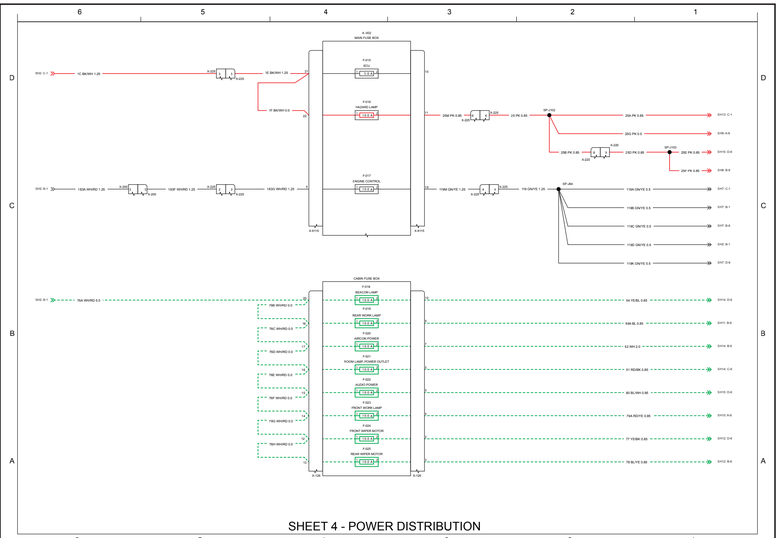
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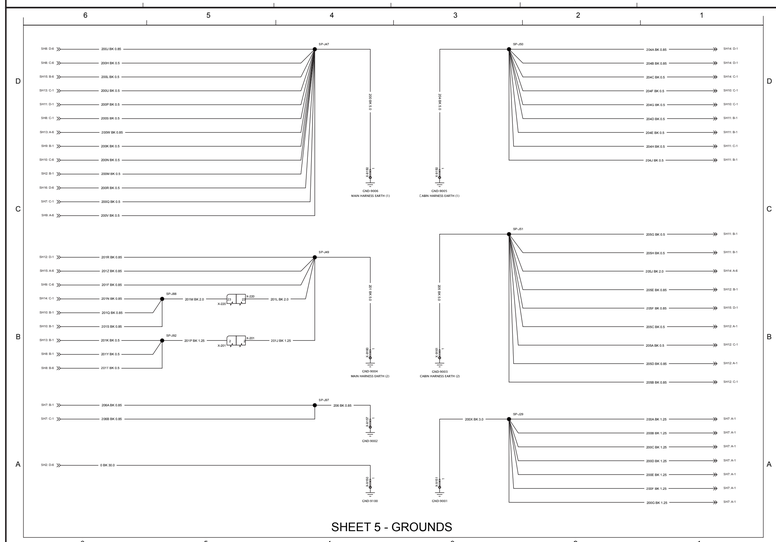
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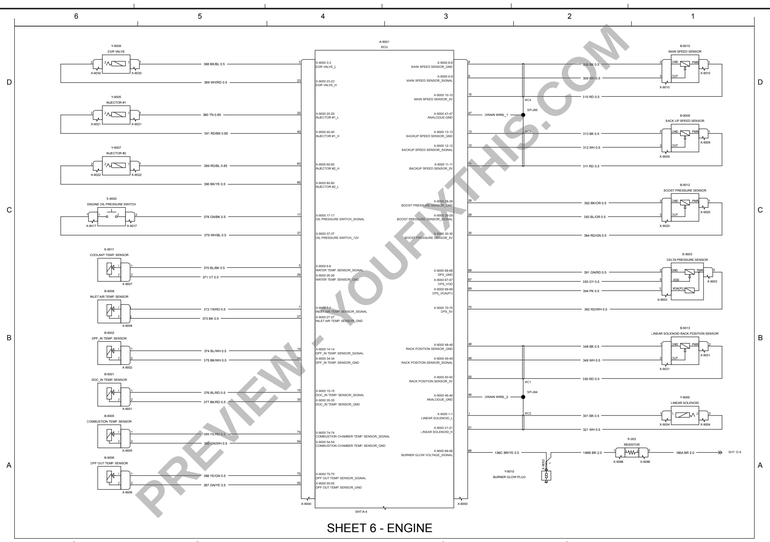
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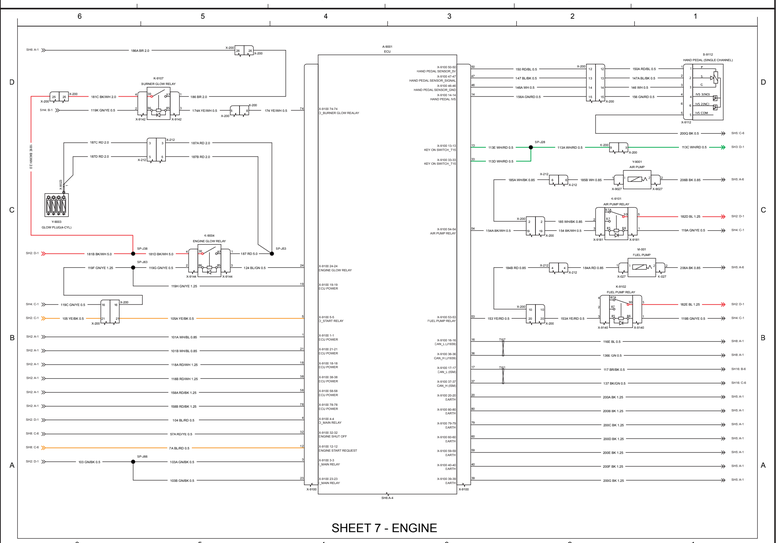
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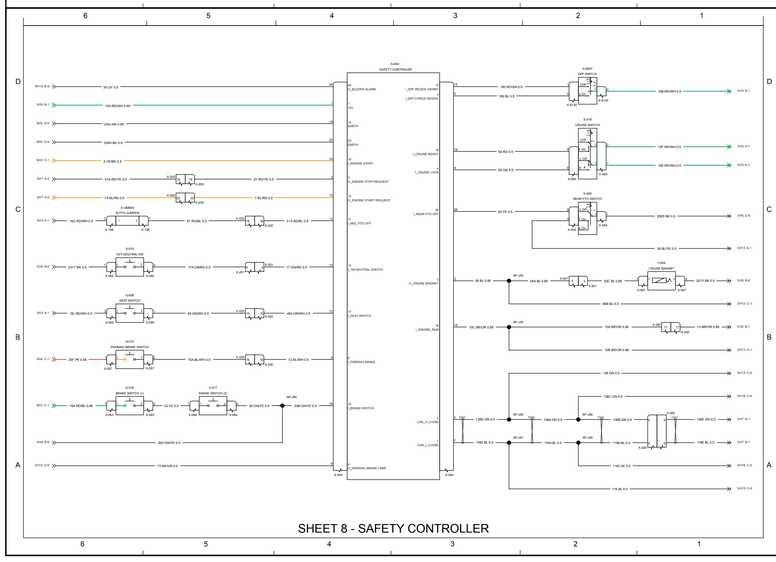
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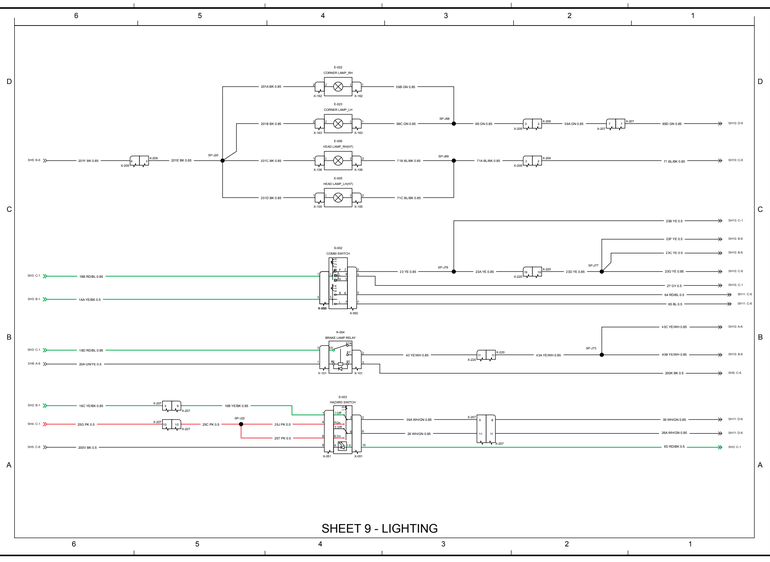
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FARMALL® 35C, FARMALL® 40C, FARMALL® 50C COMPACT TRACTOR

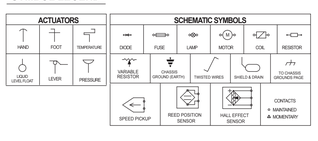
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ELECTRICAL SCHEMATIC
CAB - HYDROSTATIC TRANSMISSION
1ST EDITION

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12V UNSWITCHED POWER
IGNITION KEY ON
IGNITION KEY ON - AFTER CAB POWER RELAY
CRANKING

COMPONENT LEGEND

Label Prefix	Component Type	Label Prefix	Component Type
A	Electronics	K	Relays
B	Sensors	M	Motors
D	Diodes	Q	Circuit Breakers
E	Lights	R	Resistive
F	Fuses	S	Switches
G	Generators	W	Splice Blocks
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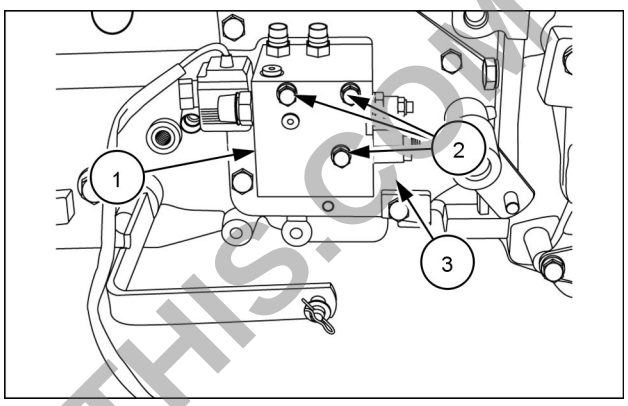
Separate the center casing from the axle casing

⚠ 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

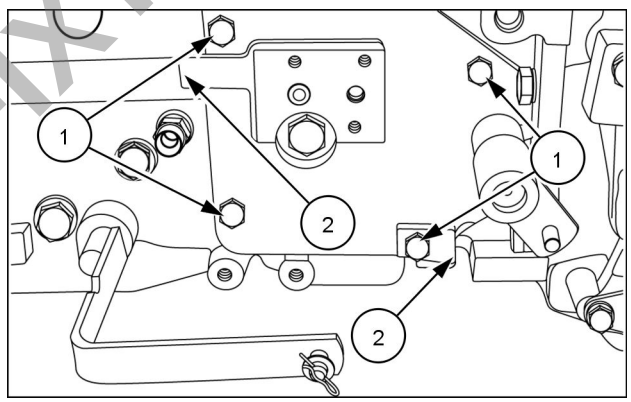
1. Remove the Power Take-Off (PTO) control valve **(1)** from the range shift cover assembly **(3)** by disconnecting all the hydraulic lines and the three bolts **(2)** that attach the control valve to the range shift cover.



93112267 20

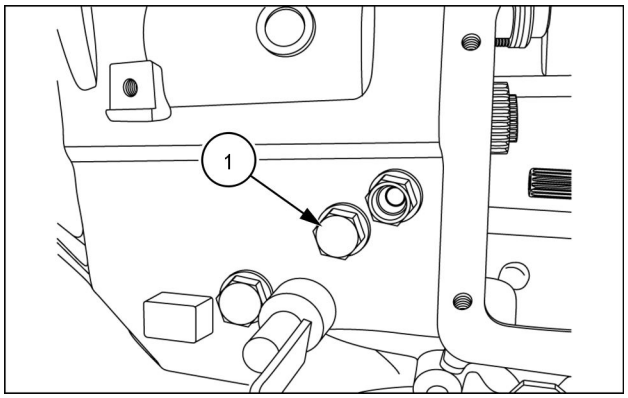
2. Remove range shift cover by removing five M10 x 25 bolts **(1)**.
3. Pry the cover away from the casing using the tabs on the cover casting **(2)**. It may be necessary to move the range lever cam to the neutral (center) position to remove the range cover and cam assembly can be removed.

NOTICE: *It is not necessary to disassemble the range cover and range lever cam to remove them from the center casing. The range cover and range lever cam assembly can only be removed with the range lever in the neutral (center position).*



93112268A 21

4. Remove the range fork pin **(1)**.



93112269 22

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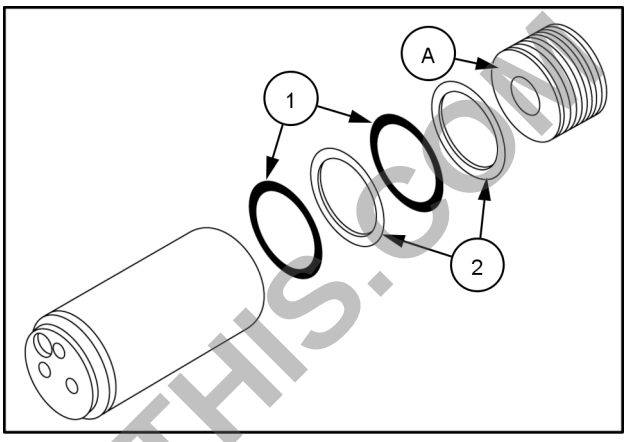
Rear three-point hitch - Assemble

Farmall® 40C	NA
Farmall® 50C	NA

Prior operation:
Rear three-point hitch - Disassemble (37.110)

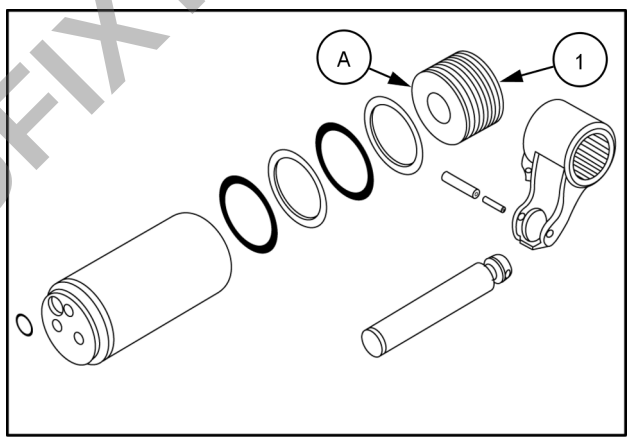
1. Install the O-rings **(1)** and back up rings **(2)** into the grooves in the piston. Lubricate rings with petroleum jelly during installation.

NOTE: *The O-rings will be installed towards the face **(A)** of the piston and the back up rings will be installed towards the concave side of the piston.*



76109558 1

2. Install the piston **(1)** assembly into the cylinder tube with the face of the piston **(A)** towards the base of the cylinder



93102621 2

Next operation:
Rear three-point hitch - Install – Hydraulic Power Lift (HPL) housing (37.110)

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Air-conditioning compressor lines - Disconnect

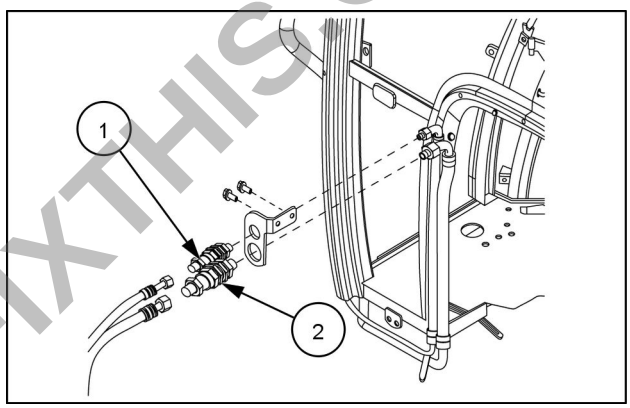
Farmall® 40C TIER 4B (FINAL), Cab	NA
Farmall® 50C TIER 4B (FINAL), Cab	NA

⚠ WARNING

Explosion hazard!
Air-conditioning refrigerant boils at -26 °C (-15 °F)!
-NEVER expose any part of the air-conditioning system to a direct flame or excessive heat.
-NEVER disconnect or disassemble any part of the air-conditioning system.
Discharging refrigerant gas into the atmosphere is illegal in many countries.
Failure to comply could result in death or serious injury.

W0340B

1. Disconnect the refrigerant lines in the engine compartment.
2. Disconnect the two male and female quick connects **(1)** and **(2)**.

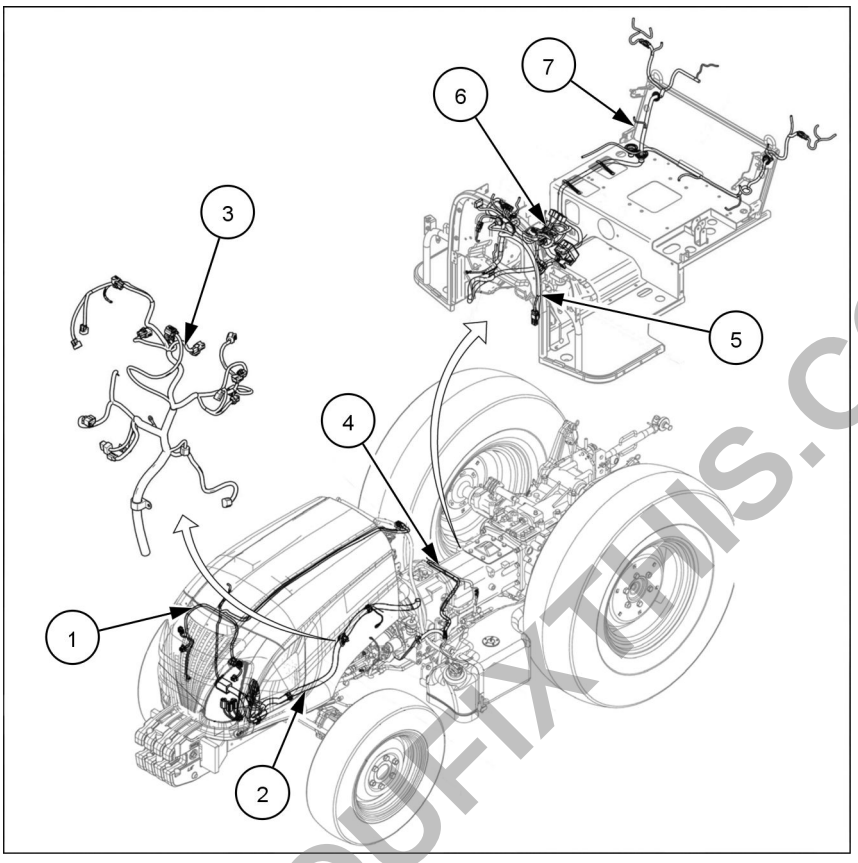


NHIL15CT01081AA 1

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Wiring harnesses - Identification



NHIL14CT00230GB 1

Wire harnesses

The tractor wiring harness is divided into seven separate harnesses.

1. Front **(1)**
2. Engine tractor frame **(2)**
3. Engine tier 4 controls **(3)**
4. Middle **(4)**
5. Main **(5)**
6. Switches **(6)**
7. Rear **(7)**

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SERVICE

Diesel Particulate Filter (DPF) regeneration inhibit switch

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Install (*) 6

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