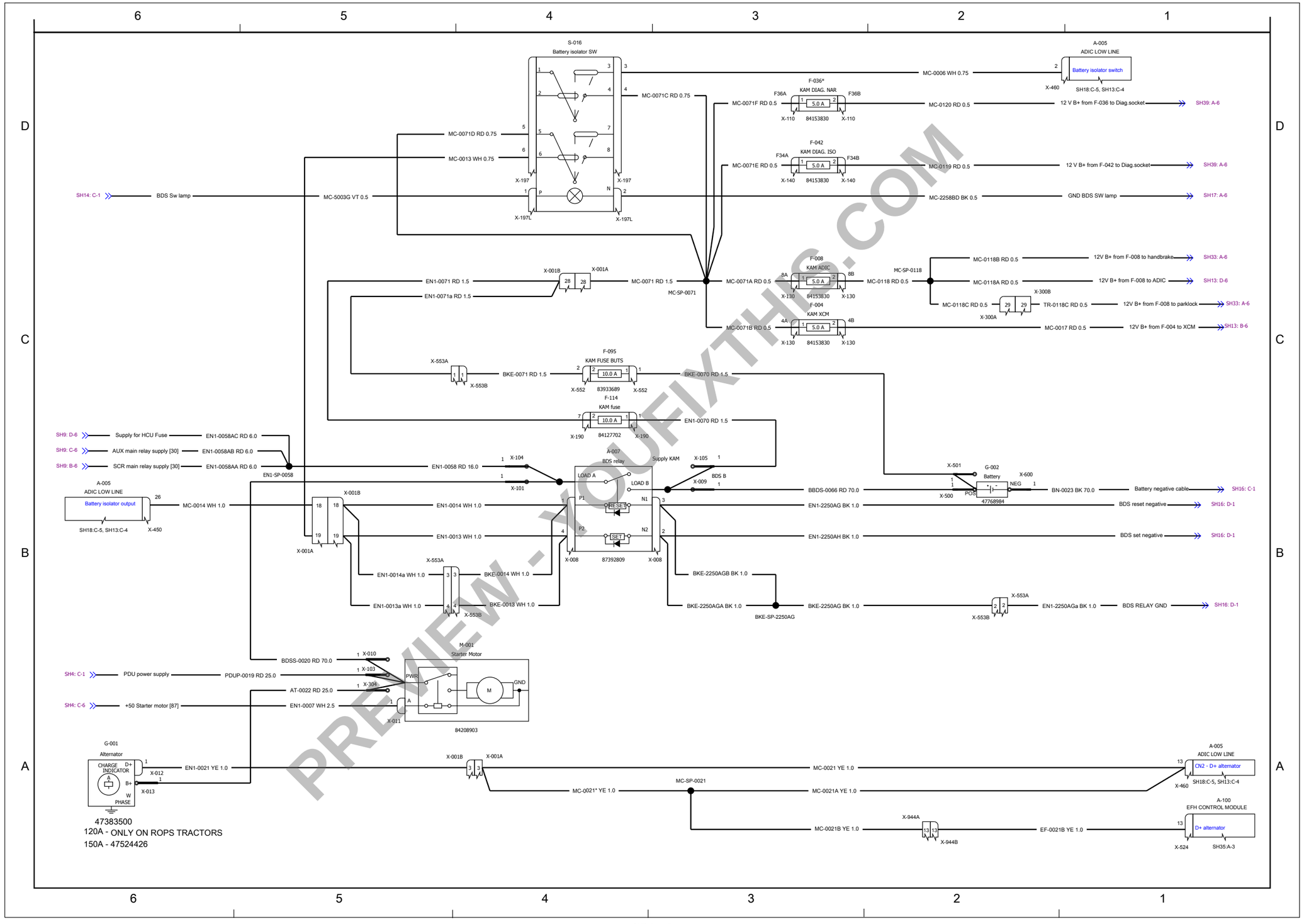
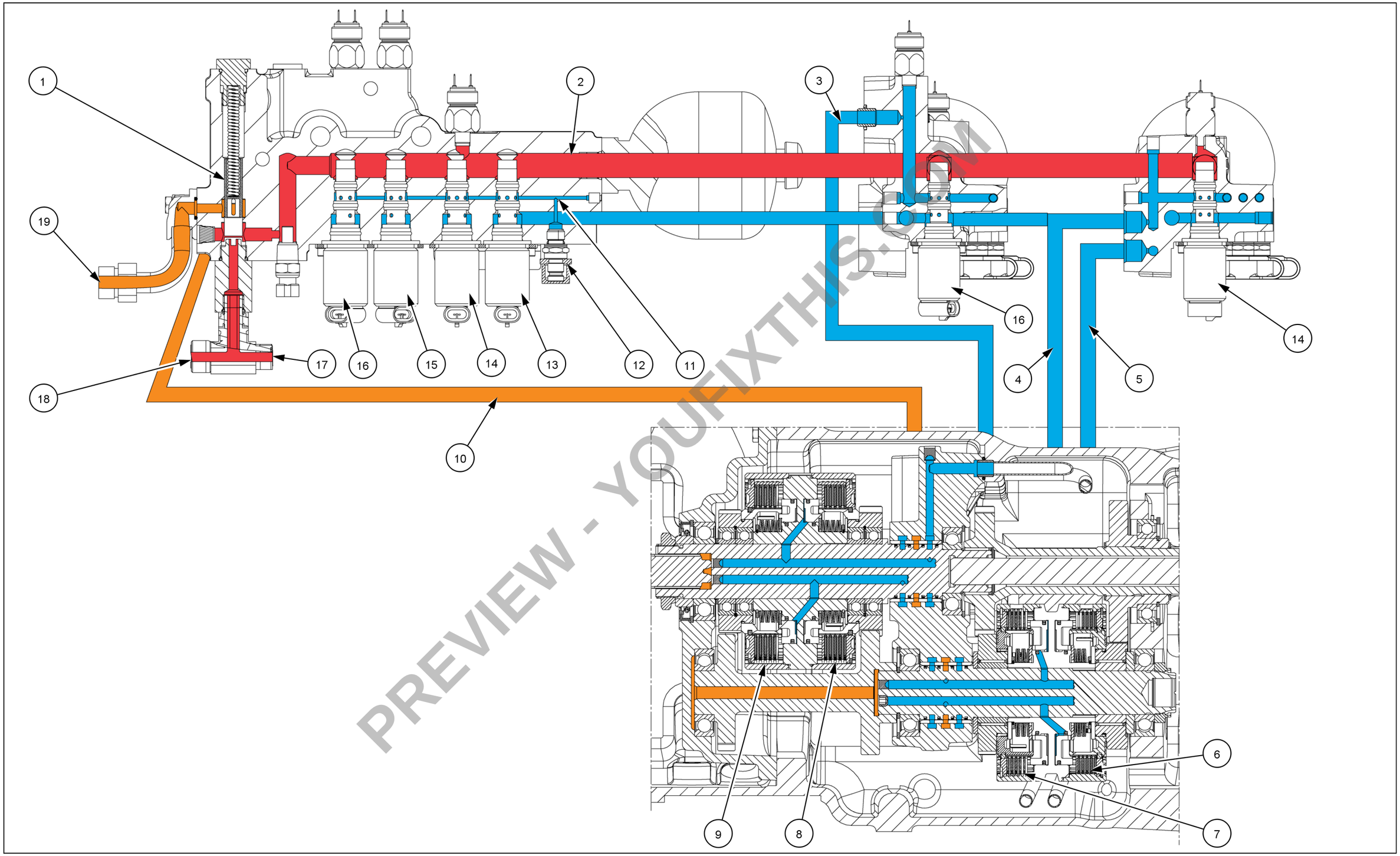


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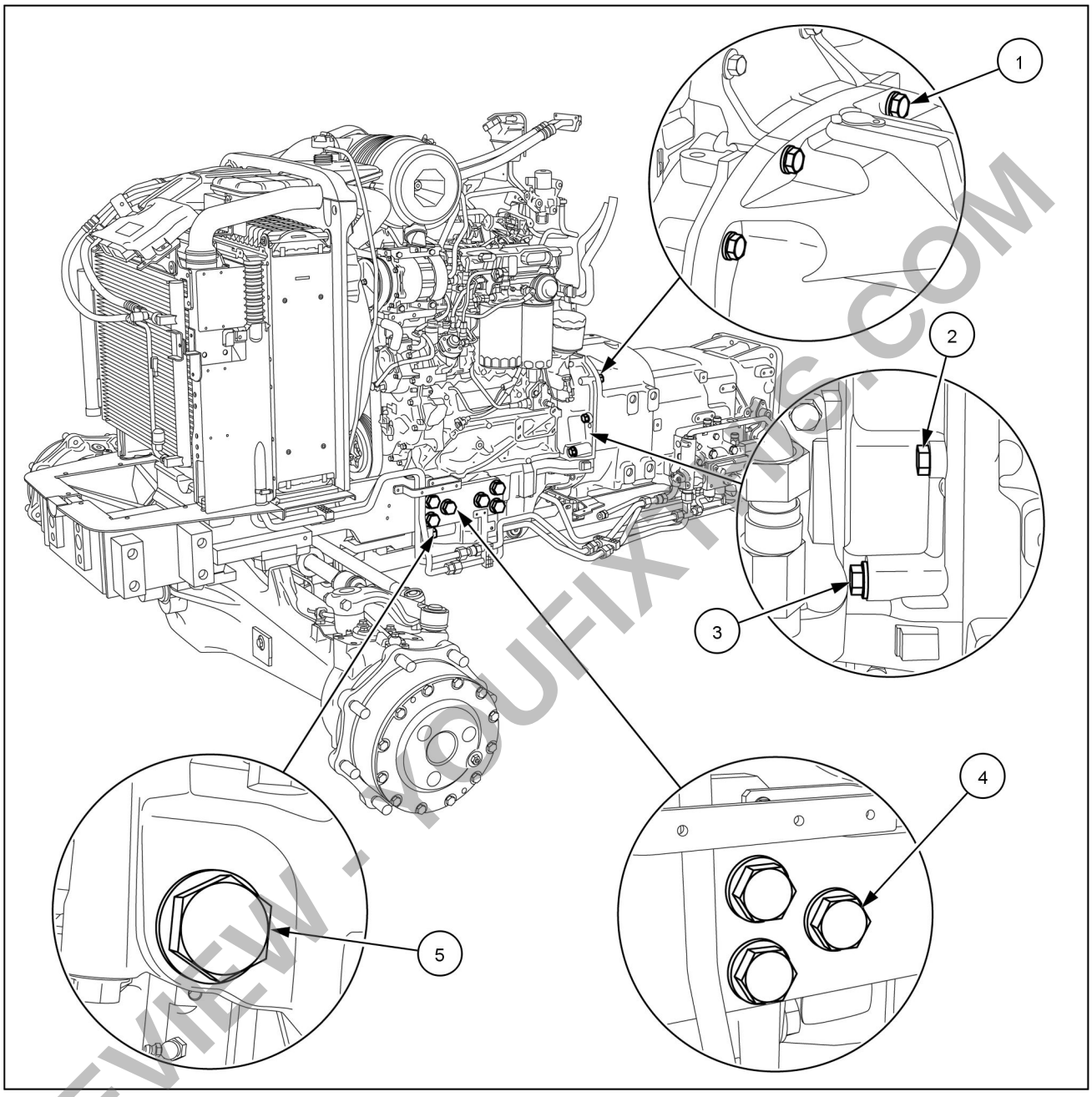


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Engine - Torque



MOIL17TR02997GA 1

Part to tighten	Thread	Tighten torque
Bolt **(5)** securing the front axle to the engine block	M20 x 1.5 x 130	**587 N·m** (**432.95 lb ft**)
Bolt **(4)** securing the engine block to the front axle	M20 x 1.5 x 110	**587 N·m** (**432.95 lb ft**)
Bolt **(1)** securing the gearbox to the engine block	M12 x 1.25 x 50	**121 N·m** (**89.25 lb ft**)
Bolt **(2)** securing the engine block to the gearbox	M12 x 1.25 x 50	**121 N·m** (**89.25 lb ft**)
Bolt **(3)** securing the engine block to the gearbox	M12 x 1.25 x 90	**121 N·m** (**89.25 lb ft**)

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Link Product / Engine

Product	Market Product	Engine
Farmall® 100C Without cab, with Mechanical transmission	North America	F5GFL413H*C006
Farmall® 100C With cab, with Mechanical transmission	North America	F5GFL413H*C006
Farmall® 100C Without cab, with Power Shuttle transmission [ELRFC100AJLF50127 -]	North America	F5GFL413H*C006
Farmall® 100C With cab, with Power Shuttle transmission [ELRFC100TJLF50006 -]	North America	F5GFL413H*C006
Farmall® 100C Without cab, with Hi-Lo transmission [HLRFC100AJLF03784 -]	North America	F5GFL413H*C005
Farmall® 100C With cab, with Hi-Lo transmission [HLRFC100EHLF10099 -]	North America	F5GFL413H*C005
Farmall® 110C Without cab, with Mechanical transmission	North America	F5GFL413G*C006
Farmall® 110C With cab, with Mechanical transmission	North America	F5GFL413G*C006
Farmall® 110C Without cab, with Power Shuttle transmission [ELRFC110JJLF50034 -]	North America	F5GFL413G*C006
Farmall® 110C With cab, with Power Shuttle transmission [ELRFC110VJLF50013 -]	North America	F5GFL413G*C006
Farmall® 110C Without cab, with Hi-Lo transmission [HLRFC110VJLF00235 -]	North America	F5GFL413G*C006
Farmall® 110C With cab, with Hi-Lo transmission [HLRFC110JJLF01558 -]	North America	F5GFL413G*C006
Farmall® 120C Without cab, with Mechanical transmission	North America	F5GFL413F*C011
Farmall® 120C With cab, with Mechanical transmission	North America	F5GFL413F*C011
Farmall® 120C Without cab, with Power Shuttle transmission	North America	F5GFL413F*C011
Farmall® 120C With cab, with Power Shuttle transmission [ELRFC120EJLF50025 -]	North America	F5GFL413F*C011
Farmall® 120C Without cab, with Hi-Lo transmission [HLRFC120CHLF10070 -]	North America	F5GFL413F*C010
Farmall® 120C With cab, with Hi-Lo transmission [HLRFC120LHLF01896 -]	North America	F5GFL413F*C010
Farmall® 90C Without cab, with Mechanical transmission	North America	F5GFL413J*C006

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Hydraulic control components - Troubleshooting

Problem	Possible Cause	Correction
Hard steering.	Hydraulic pump faulty.	Repair the pump.
	Non-return valve **(5)** held open by foreign bodies or due to absence of ball.	Eliminate foreign bodies and clean filter; put a new ball into the seat (if missing).
	Pressure relief valve **(22)** incorrectly set.	Calibrate the valve correctly.
	Pressure relief valve **(22)** jammed or held open by foreign bodies.	Eliminate foreign bodies and clean the filter.
	Steering column has become stiff on its bushing due to rusting, seizing, etc.	Eliminate the causes.
Excessive steering wheel play.	Excessive play between the steering column and the coupling with the rotating valve (**(12)**, figure 2 in **Power steering system - Dynamic description Diagram showing 4WD power steering operation (41.200)**).	Replace the worn parts.
	Excessive play in the coupling between the shaft (**(21)**, **Hydraulic control components - Exploded view (41.200)**) and the trim pin **(12)**.	Replace the worn parts.
	Excessive play in the splined coupling between the shaft **(21)** and the rotor **(18)**.	Replace the worn parts.
	Combination of excessive play as described in the previous points.	Replace the excessively worn parts.
	Leaf springs **(11)** damaged or fatigued.	Replace springs.
The steering wheel turns normally, but the steering is: **a. Low.** **b. Null.**	Inadequate control cylinder seal.	Replace seal.
	Cylinder rod broken	Replace the damaged part.
	Rotor drive shaft **(21)** or pin **(12)** broken.	Replace the damaged part.
With the engine stopped, the steering wheel can be turned without turning the wheels.	Excessive wear between rotor and fixed ring .	Replace the worn parts.
	Non-return valve damaged.	Replace control valve assy.
Steering wheel jolts, uncontrollable steering, wheels turning in the opposite direction to that desired.	Incorrect synchronization of hydrostatic steering.	Synchronize correctly.
	Pipes to cylinder inverted.	Correct the connections.
The wheels do not maintain the desired alignment and steering must be continually corrected with the steering wheel.	Hydraulic cylinder piston seal worn.	Replace seal.
	Back flow valve (**(2)**, **Hydraulic control components - Exploded view (41.200)**) held open by foreign bodies or damaged.	Eliminate foreign bodies and clean filter or replace the control valve.
	Mechanical wear of control valve.	Replace control valve assy

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Air conditioning - Troubleshooting - No cooling

Problem	Possible Cause	Correction
The air coming out from the vents (evaporator) is not cooled.	Presence of air, non-condensable gas or humidity in the air-conditioning system.	Check the pressure in the air-conditioning system using the recovery, emptying and refilling station, see **Air conditioning - Pressure test - Test 2 (50.200)**. Replace the dryer element and the filter, see **Receiver-dryer - Replace - Filter and drier element (50.200)**. Evacuate non-condensable gas and the humidity from the air-conditioning system leaving in operation the vacuum pump of the recovery, emptying and refilling station for at least **15'**, see **Air conditioning - Vacuum test (50.200)**.
	The thermostatic expansion valve integrated in the evaporator sends an excessive flow of refrigerant to the evaporator. The valve may be locked in the open position.	Check the pressure in the air-conditioning system using the recovery, emptying and refilling station, see **Air conditioning - Pressure test - Test 2 (50.200)**. Replace the evaporator with integrated expansion valve, see **Air-conditioning evaporator - Disassemble (50.200)**.
	The air-conditioning system is damaged.	Check the pressure in the air-conditioning system using the recovery, emptying and refilling station, see **Air conditioning - Vacuum test (50.200)**. Replace the air-conditioning compressor, see **Air-conditioning compressor - Remove (50.200)**.
The A/C system is not cooling at all. The tractor engine overheats in some cases.	Condenser malfunctioning.	Check the pressure in the air-conditioning system using the recovery, emptying and refilling station **Air conditioning - Pressure test - Test 3 (50.200)**. Check the tension (see **Compressor drive belt - Check (50.200)**) and the appearance of the belt, and replace it if required, as described in **Compressor drive belt - Remove (50.200)**. The loose or worn belt may cause a malfunction of the compressor, generating pressure values that are too high in the air conditioning system. Check that the condenser and radiator fins are clean and free from any build-up of dirt; if this is not the case, clean them (see **Air-conditioning condenser - Cleaning (50.200)** and **Radiator - Cleaning (10.400)**). Replace the condenser if it appears to be unduly dirty or clogged (see **Air-conditioning condenser - Remove (50.200)**).
The air-conditioning system does not start; nor does the compressor.	The A/C system power switch does not work.	Check the switch **S-055**, see **Air-conditioning system thermostat and switch - Electrical test (55.051)**.
	The A/C system switch circuit is broken.	Check the integrity of the fuse **F-086**, see **Fuse and relay box - Component localization (55.100)**, and replace if necessary. Then check the system is working correctly.
	Anti-freeze thermostat not working.	Replace the anti-freeze thermostat **B-030**, see **Temperature sensor - Replace (55.050)** and check the correct operation of the system.

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Product	Market Product	Engine
Farmall® 90C With cab, with Mechanical transmission	North America	F5GFL413J*C006
Farmall® 90C Without cab, with Power Shuttle transmission [ELRFC090LJLF50126 -]	North America	F5GFL413J*C006
Farmall® 90C With cab, with Power Shuttle transmission [ELRFC090CJLF50096 -]	North America	F5GFL413J*C006
Farmall® 90C Without cab, with Hi-Lo transmission [HLRFC090VJLF05112 -]	North America	F5GFL413J*C005
Farmall® 90C With cab, with Hi-Lo transmission [HLRFC090LJLF00494 -]	North America	F5GFL413J*C005

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-], Farmall® 120C Without cab, with Mechanical transmission, Farmall® 120C Without cab, with Power Shuttle transmission, Farmall® 90C With cab, with Hi-Lo transmission [HLRFC090LJLF00494 -], Farmall® 90C With cab, with Mechanical transmission, Farmall® 90C With cab, with Power Shuttle transmission [ELRFC090CJLF50096 -], Farmall® 90C Without cab, with Hi-Lo transmission [HLRFC090VJLF05112 -], Farmall® 90C Without cab, with Mechanical transmission, Farmall® 90C Without cab, with Power Shuttle transmission [ELRFC090LJLF50126 -]

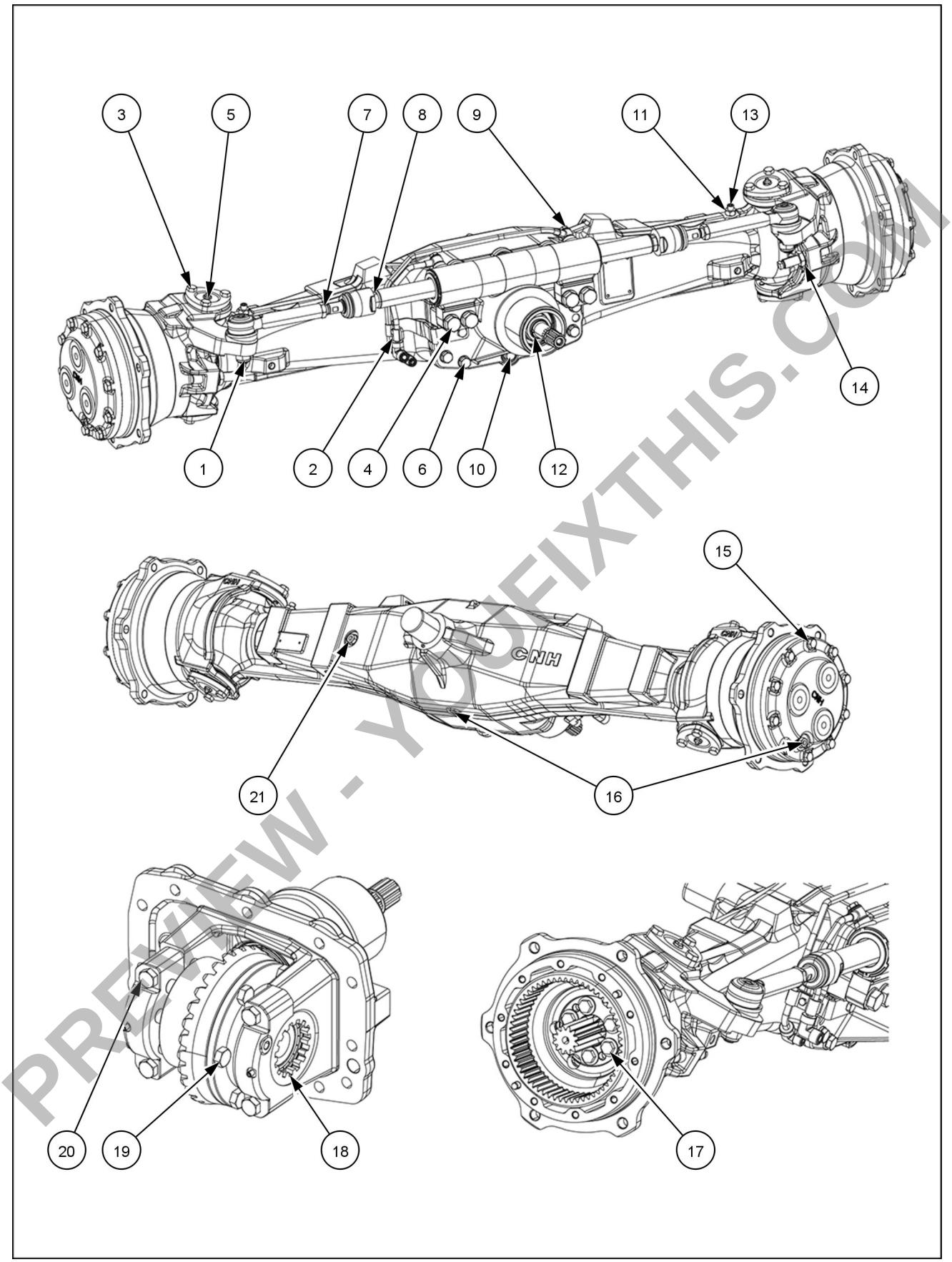
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(6) Clutch D pressure control fitting.
(7) Clutch C pressure control fitting.
(8) Clutch B pressure control fitting.
(9) Clutch A pressure control fitting
(10) Clutch D control solenoid valve.
(16) Control oil pressure control valve.
(17) By−pass valve.
(18) By−pass valve spring.
(19) Gearbox oil pressure switch **10 bar** (**145.00 psi**).

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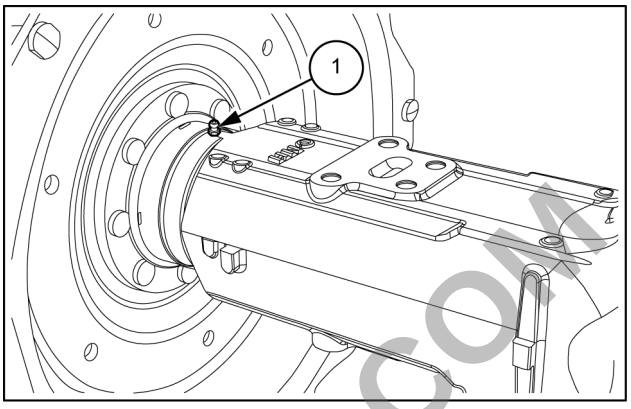
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Driving wheel shaft - Grease - Bearing (4WD)

1. Using a pump inject **CASE IH AKCELA 251H EP MULTI-PURPOSE GREASE** grease and pump just a few times to avoid damaging the internal seal. For best results, inject the grease, then rotate the wheels through 120 ° and then inject grease again, then rotate a further 120 ° for final application, this will ensure grease is evenly distributed around the bearing (to rotate the wheels, simply drive forward slightly after each application).

NOTE: *Grease will NOT emerge from the seal, surplus will be dispersed within the transmission housing.*

NOTE: *Apply grease on both sides of the axle.*

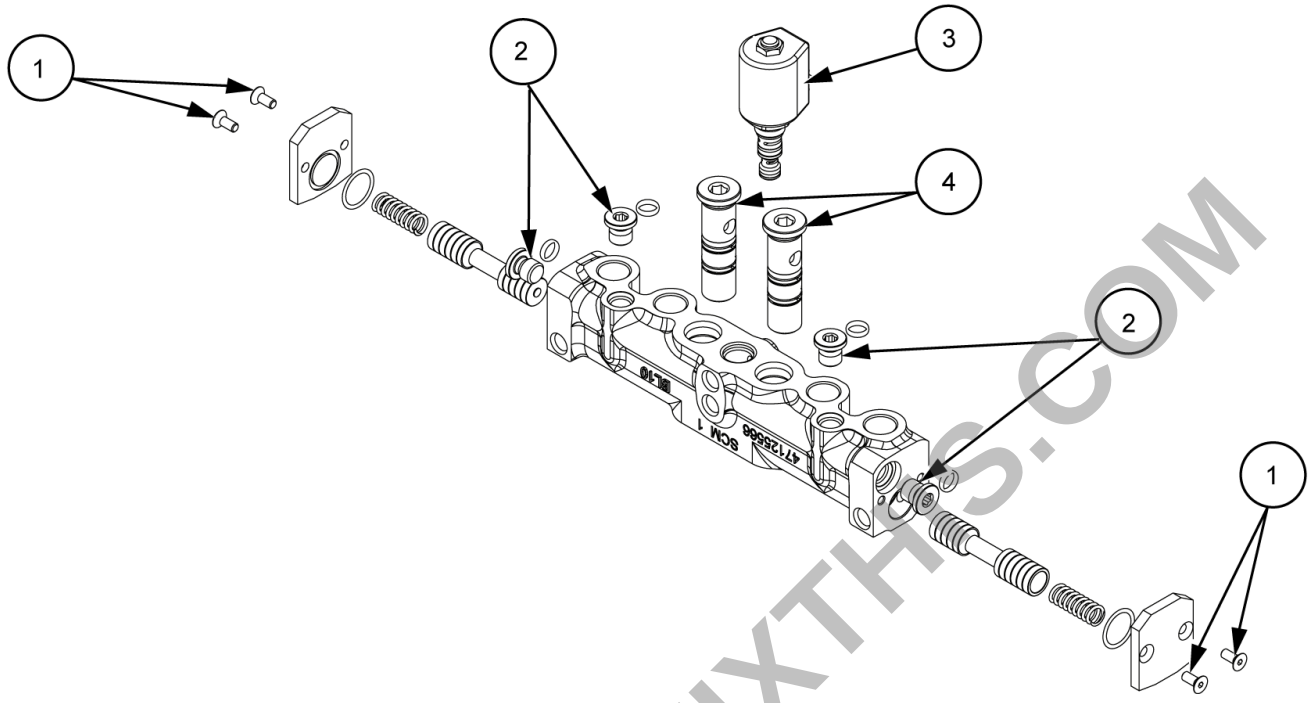


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Remote control valve - Torque - Diverter



Torque rates

Parts to be torqued	Thread	Torque rates
Side cover fixing screws **(1)**	—	**6.6 N·m** (**4.9 lb ft**)
Plug **(2)**	—	**24.0 N·m** (**17.7 lb ft**)
Solenoid Valve **(3)**	**5/8 in** - 18 UNF 2B	**40.0 – 45.0 N·m** (**29.5 – 33.2 lb ft**)
Sleeves **(4)**	M18 x 1,5	**40.0 – 45.0 N·m** (**29.5 – 33.2 lb ft**)

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Power steering control valve - Install

⚠ 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.

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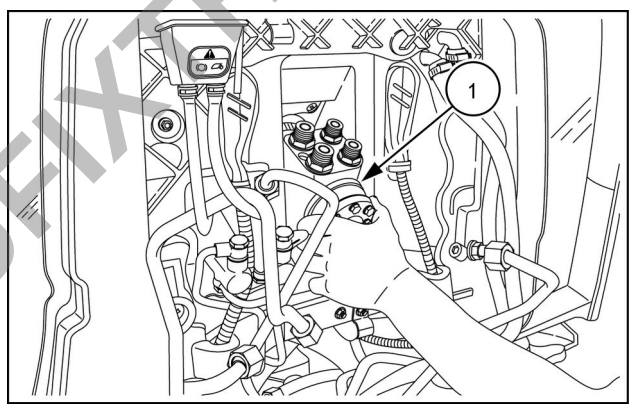
⚠ WARNING

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.

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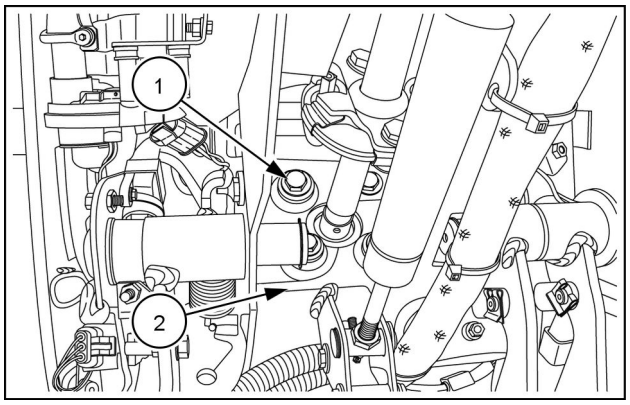
Prior operation:
Power steering control valve - Remove (41.200)

1. Position the power steering control valve **(1)** correctly.



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2. Inside the cab, tighten the fastening screws **(1)** on the valve to the support **(2)**.



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CONNECTIONS	DESCRIPTION
X-041	Air-conditioning temperature potentiometer
X-042	Air-conditioning minimum pressure switch
X-043	Air Conditioning actuator
X-044	Frost thermostat
X-045	Air-conditioning control unit
X-046A	Main wiring harness - Left fan intermediate connection
X-047A	Main wiring harness - Right fan intermediate connection
X-049	Fuse Engine 3
X-051	Operator’s compartment light
X-052	Operator’s compartment light
X-053	Operator’s compartment light
X-054	Spot lamp
X-055	Rear right-hand work light on roof
X-056	Rear left-hand work light on roof
X-062A	Main wiring harness - Roof intermediate connection
X-062B	Roof intermediate connection - Main wiring harness
X-064	Door switch
X-065	Work light selector
X-068	Front right-hand roof work light
X-069	Front left-hand roof work light
X-072	**30 A** / **40 A** service socket
X-074	Front windscreen wiper motor
X-076	Front window washer pump
X-077	Rear washer pump
X-080	Cigar lighter connector
X-081	Cigar socket right instrument cluster
X-082	Front right-hand radio speaker
X-083	Front right-hand radio speaker
X-084	Front left-hand radio speaker
X-085	Front left-hand radio speaker
X-088	Air-conditioning compressor solenoid valve
X-090	Flasher unite
X-091	Road lights control handle
X-092	Hazard switch
X-093	Left-hand brake pedal switch
X-094	Right-hand brake pedal switch
X-098A	Main harness - Trailer brake intermediate connection
X-101	Battery cut-off relay
X-102	PDU Power Supply
X-103	Starter motor
X-104	Battery cut-off relay
X-105	Battery cut-off relay
X-110	Cab fuse and relay compartment
X-120	Cab fuse and relay compartment
X-130	Cab fuse and relay compartment
X-140	Cab fuse and relay compartment
X-150	Roof fuse and relay compartment
X-188	Stationary vehicle power take-off operating switch
X-190	Heating system control unit fuse (HCU)
X-196	Transmission oil pressure switch
X-196*	Transmission oil pressure switch
X-199	Low range switch (L)
X-200	Central control unit (Central Control Unit, CCU)
X-210	Central control unit (Central Control Unit, CCU)
X-220	Central control unit (Central Control Unit, CCU)

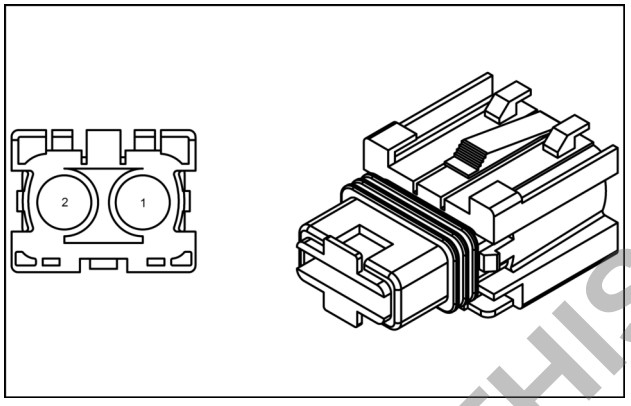
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Wire connectors - Component diagram 55

Farmall® 100C With cab, with Hi-Lo transmission [HLRFC100EHLF10099 -]	
Farmall® 110C With cab, with Hi-Lo transmission [HLRFC110JJLF01558 -]	
Farmall® 120C With cab, with Hi-Lo transmission [HLRFC120LHLF01896 -]	
Farmall® 90C With cab, with Hi-Lo transmission [HLRFC090LJLF00494 -]	

X-552 - KAM FUSE HOLDER [F-095] (84175724) (Receptacle)

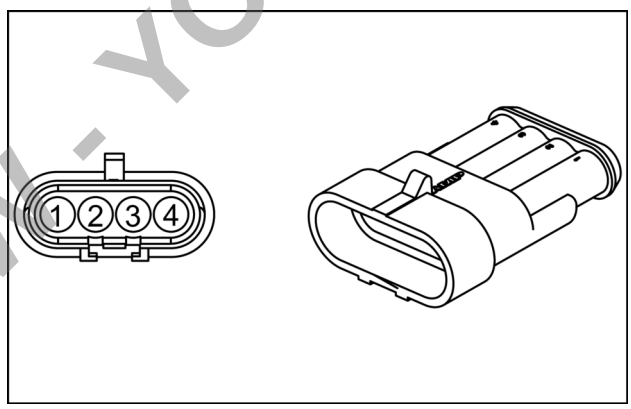


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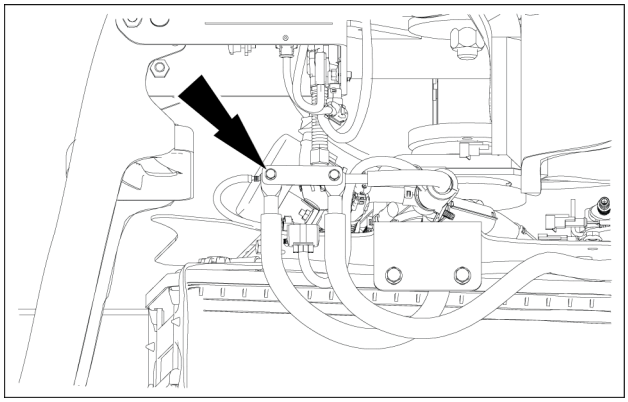
Pin	From	Wire	Description	Color-Size	Frame
1	**X-501 (Plug) pin 1** - (84301913)	BKE-0070	MAIN B+	RD - 1.5	**SHEET 03 SH-003_POWER DISTRIBUTION_MAIN_BATTERY**
2	**X-553B (Receptacle) pin 1** - ENGINE 1 - BATTERY BOX INLINE (87687242)	BKE-0071	KAM FROM F-095	RD - 1.5	

X-553A - ENGINE 1 - BATTERY BOX INLINE (87680652) (Plug)



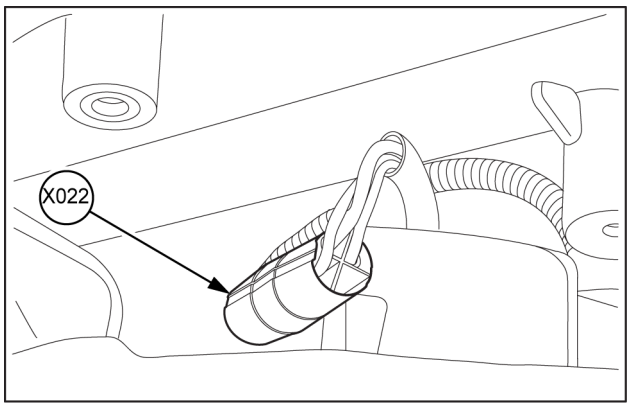
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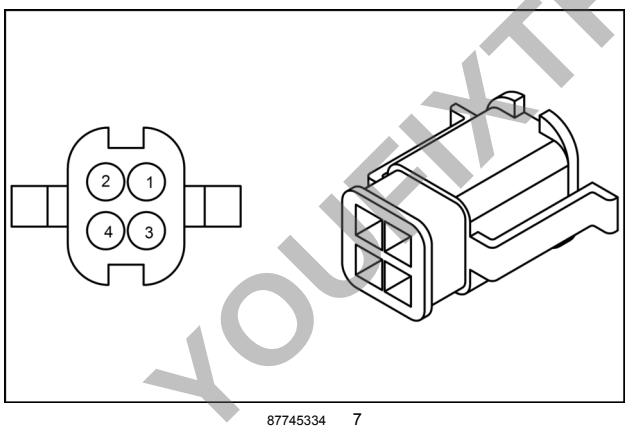
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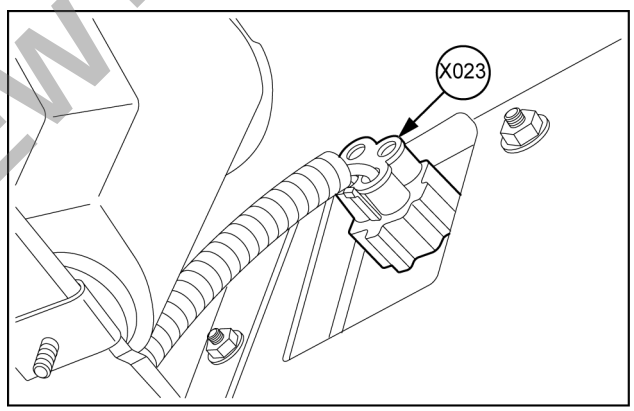
Pin	From	Wire	Description	Color-Size	Frame
2		MR-2260C	GND RH front SMV	BR - 1.0	**SHEET 38 SH40 - LIGHTS DIRECTION**
3	**X-062B pin 22** - ROOF-MAIN INLINE (47741345)	MR-0360B	Direction light RH	BL - 1.0	

X-023 - LH REAR FENDER LAMP [E-014] (87745334) (Receptacle)



87745334 7

87745334



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Pin	From	Wire	Description	Color-Size	Frame
1		MC-2258S*	Rear fender light LH GND CIH	BK - 1.0	**SHEET 39 SH41* - LIGHTS ROAD REAR**
2	MC-SP-0359-P-X	MC-0359C	Direction light LH	VT - 1.0	**SHEET 38 SH40 - LIGHTS DIRECTION**
3		MC-5002L	Position light to Lh rear lamp cih nar	VT - 0.75	**SHEET 39 SH41* - LIGHTS ROAD REAR**
4	SH30: D-6-P-PIN1	MC-0402E	Stop lights LH cih	VT - 1.0	**SHEET 30 SH31- TRACTOR BRAKES**

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Pin	From	Wire	Description	Color-Size	Frame
5B	**X-001A (Receptacle) pin 25** - CAB - ENGINE 1 INLINE (84142902)	MC-5695A	12 V Key engine	OR - 1.0	**SHEET 11 SH09 - POWER DISTRIBUTION ENGINE**
6B	MC-SP-1805-P-X	MC-1805	12 V from F-006 cranking	YE - 1.0	**SHEET 08 SH06 - POWER DISTRIBUTION IGNITION KEY**
7B	SH9: C-1-P-PIN1	MC-5696	12V from ADIC fuse	OR - 0.5	**SHEET 09 SH07 - POWER DISTRIBUTION IGNITION**
8B	MC-SP-0117-P-X	MC-0117	12V B+ from F-008	RD - 0.5	**SHEET 04 SH03 - POWER DISTRIBUTION MAIN BATTERY**
8B	F-008-P-2	WIRE4459	WIRE4459		
9B	**X-300A (Plug) pin 6** - CAB - TRANSMISSION INLINE (84414690)	MC-5100	12V from F-009 to speed sensor	OR - 0.5	**SHEET 10 SH08 - POWER DISTRIBUTION TRANSMISSION**
10B		MC-0119	12 V B+ from F-010 to Diag.socket	RD - 0.5	**SHEET 04 SH03 - POWER DISTRIBUTION MAIN BATTERY**
10B	F-010-P-2	WIRE4473	WIRE4473		
13B	SH16: B-1-P-PIN1	MC-5007	12V from F-013	OR - 1.0	**SHEET 16 SH15- POWER DISTRIBUTION LIGHTS**
15B		MC-1890	12V B+ from F-015 to 8A socket	RD - 1.0	**SHEET 13 SH12 - POWER DISTRIBUTION POWER SOCKET**
16B		MC-0366*	position light to 7 pole socket NAR	VT - 1.5	**SHEET 15 SH15* - POWER DISTRIBUTION LIGHTS**
16B		MC-0366	Position light to 7 pole ISO	VT - 1.5	
19B	SH16: C-1-P-PIN1	MC-5006	12V B+ from F-019	RD - 1.5	**SHEET 16 SH15- POWER DISTRIBUTION LIGHTS**
20B		MC-5004	12V B+ from F-020 to high beam relay [30]	RD - 1.5	
21B	SH30: B-6-P-PIN1	MC-0403	12V 58 Key from F-021	OR - 1.5	
26B		MC-5404	12V B+ from F-026 to lighter	RD - 1.5	**SHEET 13 SH12 - POWER DISTRIBUTION POWER SOCKET**
27B		MC-5005	12V B+ from F-027 to low beam relay [30]	RD - 1.5	**SHEET 16 SH15- POWER DISTRIBUTION LIGHTS**
30B	MC-SP-5411-P-X	MC-5411	+15 from F-030 to NAR 7 pole socket	OR - 4.0	**SHEET 12 SH11 - POWER DISTRIBUTION IMPLEMENTS TRAILER**
30B	F-030-P-2	WIRE4445	WIRE4445		
31B		MC-5400*	12V B+ from F-031 to 25A socket	RD - 6.0	**SHEET 13 SH12 - POWER DISTRIBUTION POWER SOCKET**
31B	SH32: D-6-P-PIN1	MC-5400	12V B+ from F-031 to 30/40 bale socket	RD - 6.0	
32B	**X-509 (Receptacle) pin 1** - KEY SW [S-043] (87747155)	MC-1800	12 V from F-032	RD - 6.0	**SHEET 08 SH06 - POWER DISTRIBUTION IGNITION KEY**

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Wiring harnesses - Electrical schematic sheet 22 SH-021_ENGINE_3_F5C_T4B

Farmall® 100C Without cab, with Hi-Lo transmission [HLRFC100AJLF03784 -]	
Farmall® 110C Without cab, with Hi-Lo transmission [HLRFC110VJLF00235 -]	
Farmall® 120C Without cab, with Hi-Lo transmission [HLRFC120CHLF10070 -]	
Farmall® 90C Without cab, with Hi-Lo transmission [HLRFC090VJLF05112 -]	

Type	Component	Connector / Link
ECU	**A-005** - ADIC LOW LINE (ECU)	**X-450** - ADIC LOW LINE CN1 [A-005] (82028493) **X-460** - ADIC LL-CN2 [A-005] (82016219)
Sensor	**B-010** - Fuel level sender (Sensor)	**X-354** - FUEL LEVEL SENDER [B-010] (82012083)
Sensor	**B-013** - Electronic Hand throttle (Sensor)	**X-324** - ELECTRONIC HAND THROTTLE [B-013] (87694694)
Sensor	**B-014** - Electronic Foot throttle (Sensor)	**X-321** - ELECTRONIC FOOT THROTTLE [B-014] (87702265)
Relay	**K-007** - ENGINE FUEL HEATER RELAY (Relay)	
Resistor	**R-006** - Fuel heater (Resistor)	**X-362** - ENGINE FUEL HEATER [R-006] (84546837)
Switch	**S-046** - CRPM +/- (Switch)	**X-369** - CRPM +/- SW [S-046] (87745329) **X-369L** - CRPM +/- SW LAMP [S-046] (84131048)
Switch	**S-047** - CRPM 1/2 (Switch)	**X-303** - CRPM 1/2 SW [S-047] (87745329) **X-303L** - CRPM 1/2 SW LAMP [S-047] (84131048)
Switch	**S-059** - ENGINE INTAKE (Switch)	**X-357** - ENGINE INTAKE FILTER [S-059] (84607243)
Connector	X-001A	**X-001A** - CAB-ENGINE INLINE (84142902)
Connector	X-001B	**X-001B** - ENGINE -CAB INLINE (84142903)

Type	Component	Connector / Link
Connector	X-110	**X-110** - MODULE RELAY R1-R8 FUSE F33-F36 [F-036*] (87314762)
Connector	X-300A	**X-300A** - CAB-TRANSMISSION INLINE (87708541)
Connector	X-300B	**X-300B** - TRANSMISSION -CAB INLINE (87708538)
Connector	X-303	**X-303** - CRPM 1/2 SW [S-047] (87745329)
Connector	X-303L	**X-303L** - CRPM 1/2 SW LAMP [S-047] (84131048)
Connector	X-321	**X-321** - ELECTRONIC FOOT THROTTLE [B-014] (87702265)
Connector	X-324	**X-324** - ELECTRONIC HAND THROTTLE [B-013] (87694694)
Connector	X-354	**X-354** - FUEL LEVEL SENDER [B-010] (82012083)
Connector	X-357	**X-357** - ENGINE INTAKE FILTER [S-059] (84607243)
Connector	X-362	**X-362** - ENGINE FUEL HEATER [R-006] (84546837)
Connector	X-369	**X-369** - CRPM +/- SW [S-046] (87745329)
Connector	X-369L	**X-369L** - CRPM +/- SW LAMP [S-046] (84131048)
Connector	X-450	**X-450** - ADIC LOW LINE CN1 [A-005] (82028493)
Connector	X-460	**X-460** - ADIC LL-CN2 [A-005] (82016219)

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S-019 - GROUND speed PTO switch (Switch)

Component Type	Switch
Wiring frames	**SHEET 27 SH-026_PTO FRONT AND REAR**
Connectors	**X-352 (Receptacle)** - GROUND SPEED PTO SW [S-019] (82012083)

S-022 - Lights control switch (Switch)

Component Type	Switch
Wiring frames	**SHEET 35 SH-038_ACOUSTIC_DEVICES** **SHEET 37 SH-040_LIGHTS_DIRECTION** **SHEET 39 SH-041_LIGHTS_ROAD**
Connectors	**X-091 (Receptacle)** - LIGHTS LEVER SW [S-022] (87747425)

S-026 - MECHANICAL JOYSTICK (Switch)

Component Type	Switch
Wiring frames	**SHEET 30 SH-029_FRONT_LOADER_READY**
Connectors	**X-323a (Receptacle)** - FRONT LOADER SW 2 [S-026] (87715977) **X-323b (Receptacle)** - FRONT LOADER SW 1 [S-026] (82012083)

S-029 - Front loader SW (Switch)

Component Type	Switch
Wiring frames	**SHEET 30 SH-029_FRONT_LOADER_READY**
Connectors	**X-323 (Receptacle)** - 3RD DISTRIBUTOR SW [S-029] (87715977)

S-030 - Brake pedal sw - RH (Switch)

Component Type	Switch
Wiring frames	**SHEET 31 SH-031_TRACTOR_BRAKES**
Connectors	**X-094 (Receptacle)** - BRAKE PEDAL SW RH [S-030] (82918052)

S-031 - Brake pedal sw - LH (Switch)

Component Type	Switch
Wiring frames	**SHEET 31 SH-031_TRACTOR_BRAKES**
Connectors	**X-093 (Receptacle)** - BRAKE PEDAL SW LH [S-031] (82918052)

S-032 - Brake fluid level sw (Switch)

Component Type	Switch
Wiring frames	**SHEET 31 SH-031_TRACTOR_BRAKES**
Connectors	**X-360 (Receptacle)** - BRAKE FLIUD LEVEL SW [S-032] (82012083)

S-034 - Handbrake sw (Switch)

Component Type	Switch
Wiring frames	**SHEET 31 SH-031_TRACTOR_BRAKES**
Connectors	**X-358 (Receptacle)** - HANDBRAKE SW [S-034] (82867472)

S-035 - TRIPLE LINE SW (Switch)

Component Type	Switch
Wiring frames	**SHEET 32 SH-033_HYDR/PNEUM/ITALY/TRIPLE BRAKE**
Connectors	**X-194 (Plug)** - TRIPLE LINE SW [S-035] (82012083)

S-036 - Brakes not latched (Switch)

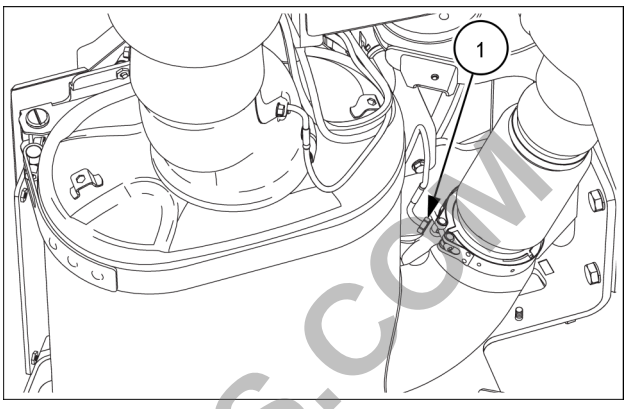
Component Type	Switch
Wiring frames	**SHEET 31 SH-031_TRACTOR_BRAKES**

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Selective Catalytic Reduction (SCR) temperature sensors - Install

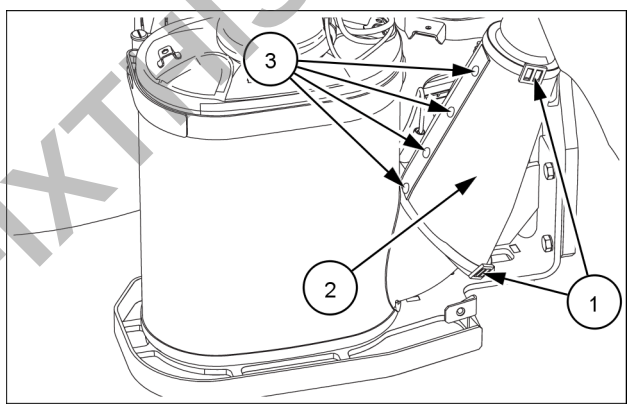
Temperature sensor upstream of the muffler and Selective Catalytic Reduction (SCR)

1. Fit the temperature sensor **(1)** upstream of the muffler and catalyst for the Selective Catalytic Reduction (SCR) and tighten it to the specified tightening torque; see **Selective Catalytic Reduction (SCR) electrical system - Torque (55.988)**.



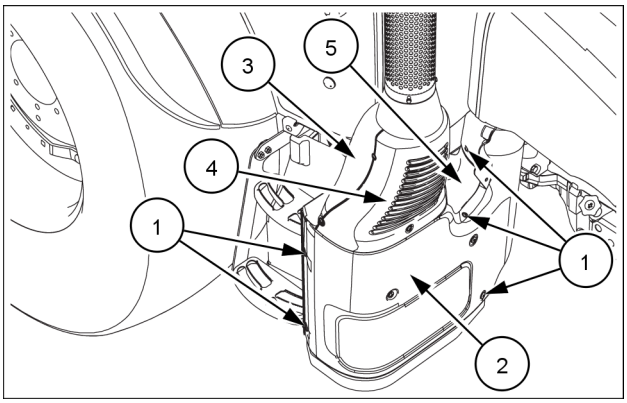
MOIL18TR00687AA 1

2. Put the insulating cover **(2)** in position and lock the quick couplings **(3)**.
3. Fit and tighten the retaining rings **(1)** for the insulating cover **(2)**.



MOIL18TR00686AA 2

4. Fit the upper side cover **(5)** for the muffler and the Selective Catalytic Reduction (SCR) catalyst and tighten the fastening screw.
5. Fit the lower cover **(2)** for the muffler and the Selective Catalytic Reduction (SCR) catalyst and tighten the fastening screw **(1)**.
6. Fit the upper covers **(3)** and **(4)** for the muffler and Selective Catalytic Reduction (SCR) catalyst and tighten the fastening screws.



MOIL18TR00685AA 3

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-], Farmall® 120C Without cab, with Mechanical transmission, Farmall® 120C Without cab, with Power Shuttle transmission, Farmall® 90C With cab, with Hi-Lo transmission [HLRFC090LJLF00494 -], Farmall® 90C With cab, with Mechanical transmission, Farmall® 90C With cab, with Power Shuttle transmission [ELRFC090CJLF50096 -], Farmall® 90C Without cab, with Hi-Lo transmission [HLRFC090VJLF05112 -], Farmall® 90C Without cab, with Mechanical transmission, Farmall® 90C Without cab, with Power Shuttle transmission [ELRFC090LJLF50126 -]

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3027 (DTC 34D3) - Defect fault check for plausibility from digital sensor

Control Module: ECU

Context:
The Engine Control Unit (ECU) **A-010** monitors the oil pressure switch **S-101** for proper operation. The oil pressure switch **S-101** changes from its off to on state between **0.6 – 0.9 bar** (**8.7 – 13.0 psi**). If the oil pressure switch **S-101** does not return to its off state, once the engine is switched OFF, this fault will occur.

Cause:
The ECU **A-010** has sensed that the oil pressure switch **S-101** did not return to its off state.

Possible failure modes:

1. Faulty oil pressure switch **S-101**, failed internally.
2. Faulty oil pressure switch **S-101** circuit wiring, open circuit.
3. Faulty ECU **A-010**, software.

Solution:

1. Verify that the 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 **5**.
2. Check the condition of the oil pressure switch **S-101**.

   Disconnect the engine harness (EN) from the oil pressure switch **S-101** connector.

   Use a multimeter to check for continuity on the component side :

From	To	Result
Oil pressure switch connector, pin 1	chassis ground	There should be continuity.

   A. If there is continuity, leave oil pressure switch connector disconnected and continue with Step **3**.

   B. If there is no continuity, the oil pressure switch **S-101** has failed internally, replace the switch.
3. Check the oil pressure switch **S-101** circuit for an open circuit condition.

   Carefully disconnect the vehicle harness (VE) from the ECU **A-010** at connector **X-939**.

   Place a jumper wire between connector **X-939** pin 6, wire EN2-0080 (YE) and chassis ground.

   Use a multimeter to check for continuity on the engine harness (EN) side :

From	To	Result
Oil pressure switch connector, pin 1	chassis ground	There should be continuity.

   A. If there is no continuity, leave the jumper wire in place and oil pressure switch and **X-939** connectors disconnected and continue with Step **4**.

   B. If there is continuity, check the ECU **A-010** for the appropriate software and re-flash, if necessary.
4. Locate the open circuit condition.

   Carefully disconnect the vehicle harness (VE) from the engine interface connector **X-941A**.

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8033 - Front PTO Switch In Cab Normally Closed Open Circuit

NOTE: *After remedying the cause of the error clear the error code and carry out a functional check of the system.*

Context:
PTO disabled.

Cause:

Possible failure modes:

1. Faulty connector
2. Faulty front PTO switch
3. Wiring harness faulty
4. Fault controller

Solution:

1. Check the **X-348** connector of the front PTO cab switch and the **X-230** and **X-240** controller connectors.
   A. Ensure the connectors are connected and not damaged, that the pins are in the correct position and the fit is tight. Repair or replace as required..
   B. If the connectors are okay, continue to step **2**
2. Check the front PTO cab switch.
   A. Disconnect the front PTO cab switch connector **X-348**. While operating the switch, check between the component side of connector:
   X-348 (Receptacle) pin 1 and **X-348 (Receptacle) pin 2**. An open circuit must be indicated when disengaged. A resistance of approximately **3900 Ohms** must be indicated when engaged. An open circuit must be indicated when only the yellow button is pressed.
   X-348 (Receptacle) pin 1 and **X-348 (Receptacle) pin 3**. A resistance of approximately **3900 Ohms** must be indicated when disengaged. An open circuit must be indicated when engaged. An open circuit must be indicated when only the yellow button is pressed.
   X-348 (Receptacle) pin 2 and **X-348 (Receptacle) pin 3**. An open circuit must be indicated when disengaged, engaged or when only the yellow button is pressed.
   If the switch operation is not as indicated, remove and replace the PTO switch.
   B. If the switch is okay, continue to step **3**
3. Check whether a voltage of **+12 Volts** is present.
   A. Turn the keystart ON. Measure the voltage between **X-348 (Receptacle) pin 1** 0.5 MC-5100 (OR) and ground. If a voltage of **+12 Volts** is not indicated, repair or replace the wire harness as required.
   B. If a voltage of **+12 Volts** is indicated, continue to step **4**
4. Check for a open circuit.
   A. Leave the ignition key switch in the OFF position. Disconnect the connector **X-230** and **X-240** of the controller. Check between:
   X-348 (Receptacle) pin 2 0.5 MC-1063 (YE) and **X-240 (Receptacle) pin 32** 0.5 MC-1063 (YE)
   X-348 (Receptacle) pin 3 0.5 MC-1062 (YE) and **X-240 (Receptacle) pin 22** 0.5 MC-1062 (YE)
   If an open ground circuit is indicated, repair or replace the harness as required.
   B. If a open circuit is not indicated, continue to step **5**
5. Check for short to ground.
   A. Check between:
   X-240 (Receptacle) pin 32 0.5 MC-1063 (YE) and ground
   X-240 (Receptacle) pin 22 0.5 MC-1062 (YE) and ground

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19080 (DTC 294A) - DEF/AdBlue under pressure failure

Control Module: ECU

Context:
The Engine Control Unit (ECU) **A-010** monitors DEF/AdBlue® pressure using a pressure sensor inside of the DEF/AdBlue® supply module **A-021**. If the ECU **A-010** determines that DEF/AdBlue® pressure is below **3.90 bar** (**56.55 psi**), this fault will occur.

Possible failure modes:

1. Faulty DEF/AdBlue® tank level, too low.
2. Faulty DEF/AdBlue® system, leakage on the pressure side.
3. Faulty DEF/AdBlue® system, blockage in tank ventilation.
4. Faulty DEF/AdBlue® system suction side, pre-filter in DEF/AdBlue® tank sending unit.
5. Faulty DEF/AdBlue® system suction side, air entrance from leaking DEF/AdBlue tank sending unit
6. Faulty DEF/AdBlue® supply module, failed DEF/AdBlue® pump.
7. Faulty DEF/AdBlue® supply module, failed DEF/AdBlue® pressure sensor.
8. Faulty ECU **A-010**, software.

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Platform, cab, bodywork, and decals - 90

Cab doors and hatches - 154

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