SERVICE MANUAL

TK4.80V
TK4.80N
TK4.80F
Tractor

FIXTHIS.COM

Part number 51543561
English
March 2019

NEW HOLLAND AGRICULTURE

Engine - Remove - With mechanical disengagement control for clutch

⚠ 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.

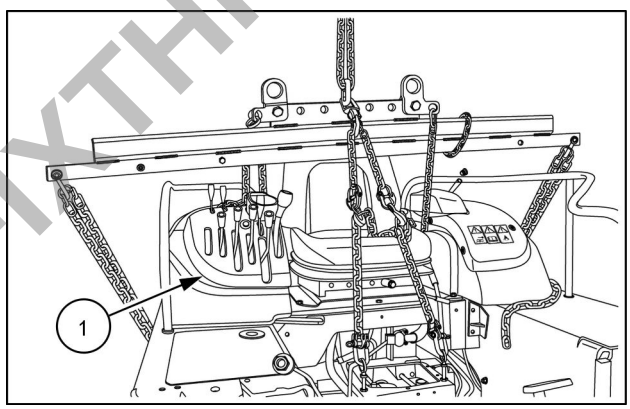
W0208A

⚠ DANGER

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.

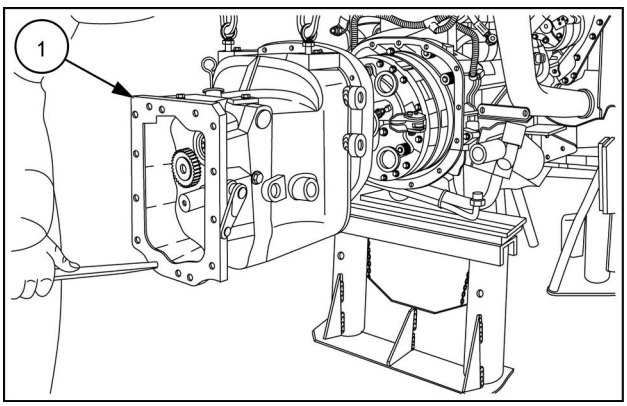
D0076A

1. Separate the rear-wheel assembly **(1)** complete with transmission housing from the engine assembly and clutch housing, as described in **Clutch - Remove - With mechanical disengagement control (18.110)**.



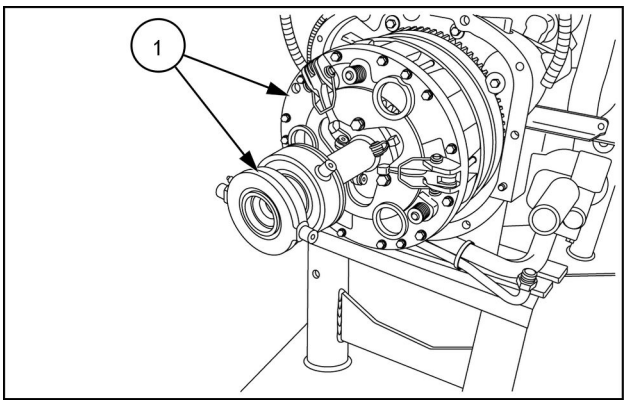
MOIL17TR01082AA 1

2. Remove the clutch housing **(1)** from the engine assembly as described by point 77 in **Clutch - Remove - With mechanical disengagement control (18.110)**.



MOIL17TR00935AA 2

3. Remove the whole clutch **(1)** from the engine assembly as described by point 132 in **Clutch - Remove - With mechanical disengagement control (18.110)**.



MOIL17TR00938AA 3

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

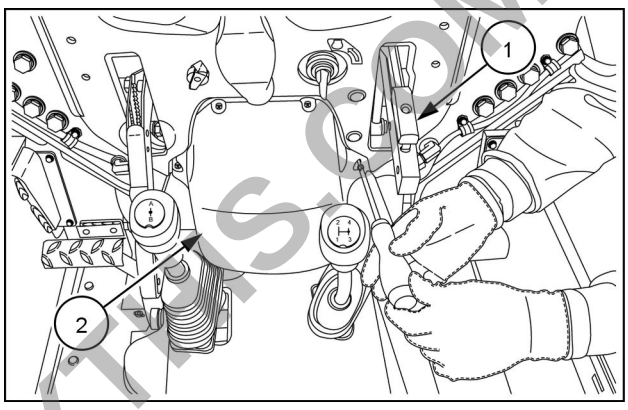
Power Take-Off (PTO) clutch release control link - Adjust

⚠ 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.

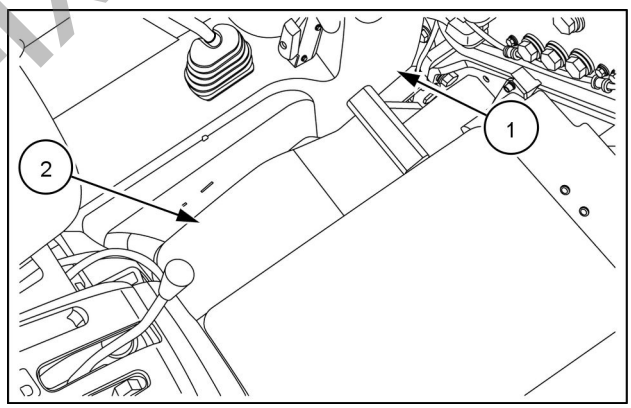
W0208A

1. Bring the clutch control lever **(1)** for the power take-off (PTO) into the rest position (fully lowered).
2. Loosen the fastening screws and, if present, remove the central cover **(2)** for the dashboard panel.



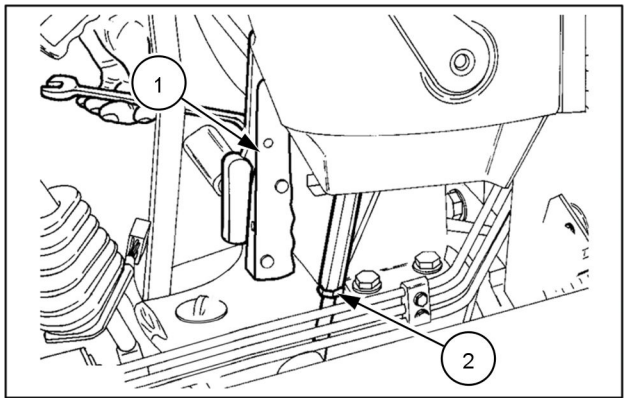
MOIL17TR00234AA 1

3. Remove the right-hand rubber footboard **(2)**, as described in **Platform floor cover - Remove - Rubber footboard (90.110)**.
4. Raise the front right-hand part **(1)** of the central rubber cover to allow the link rod on the control lever to be adjusted.



MOIL17TR00164AA 2

5. Raise the control lever **(1)** and check that the idle vertical stroke of the lock nut **(2)** (before disengaging the clutch) is **4.5 mm** (**0.18 in**).



MOIL17TR01163AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

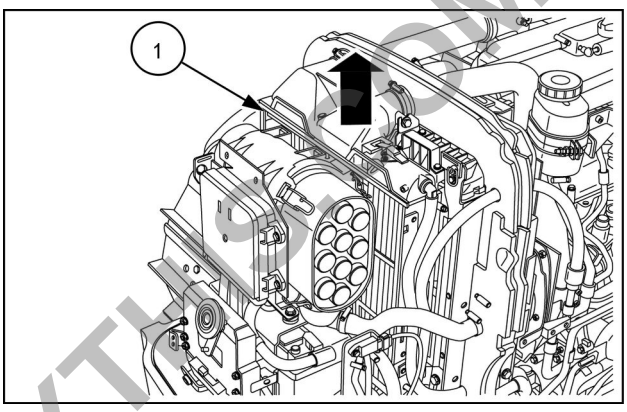
Transmission cooler - Remove

⚠ 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.

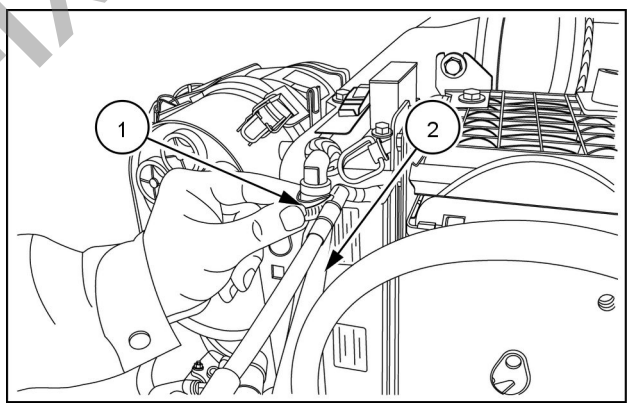
W0208A

1. Raise the engine hood.
2. Take off the protective net **(1)** upwards.



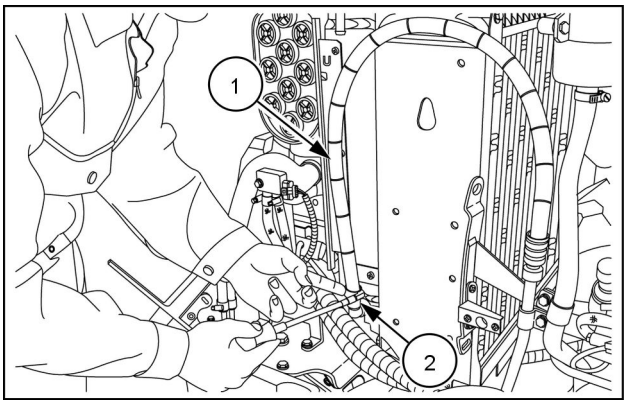
MOIL17TR01479AA 1

3. Slacken the clamp **(1)** and detach the upper flexible pipe **(2)** from the transmission oil cooler.



MOIL17TR01478AA 2

4. Slacken the clamp **(2)** and detach the lower flexible pipe **(1)** from the transmission oil cooler.



MOIL17TR01477AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Rear axle system - 27

Spur gear and final drives - 126

TK4.80F Without cab
TK4.80N Without cab
TK4.80V Without cab

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Power Take-Off (PTO) - 31

Two-speed rear Power Take-Off (PTO) - 114

TK4.80F Without cab
TK4.80N Without cab
TK4.80V Without cab

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Brake controls - Travel adjust - Service brake and parking brake

⚠ DANGER

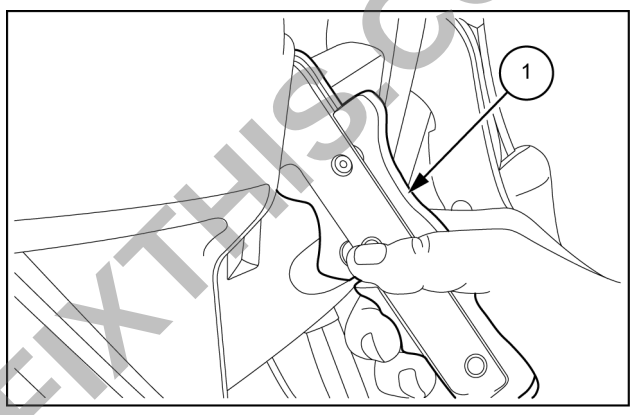
Heavy objects!
Lift and handle all heavy components using lifting equipment with adequate capacity. Always support units or parts with suitable slings or hooks. Make sure the work area is clear of all bystanders. Failure to comply will result in death or serious injury.

D0076A

NOTE: *With this type of mechanical service brake, it is necessary to first adjust the service brakes and then subsequently adjust the parking brake. The parking brake acts on the service brakes.*

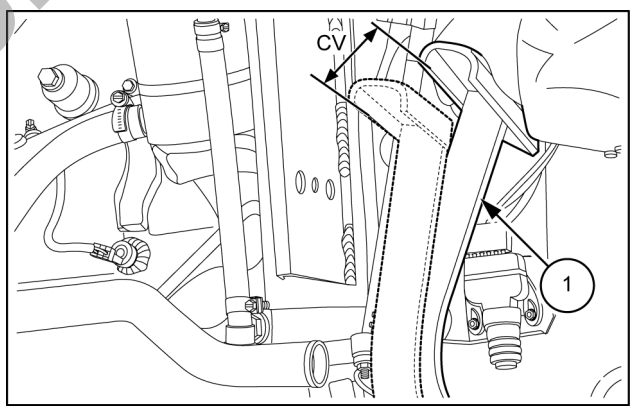
Service brakes

1. Disengage the parking brakes using the lever **(1)**.



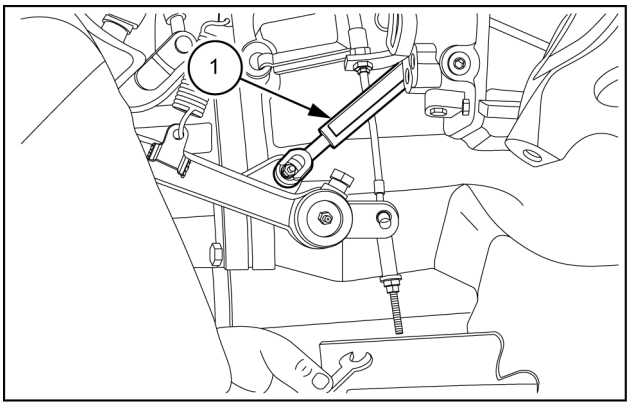
MOIL14TR00046AB 1

2. Check that the travel of the pedal **(1)**, on both sides, is:
   CV = **30 – 35 mm** (**1 – 1 in**) for special models
   CV = **50 – 60 mm** (**2 – 2 in**) for the full range



MOIL14TR00045AB 2

3. If the travel is more than this, restore the travel by means of the tie rods **(1)**.



MOIL14TR00047AB 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

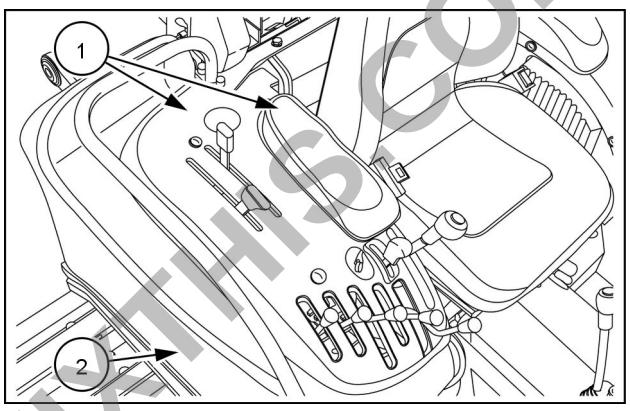
Remote control valve - Remove - Auxiliary control valve assembly with support

⚠ 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.

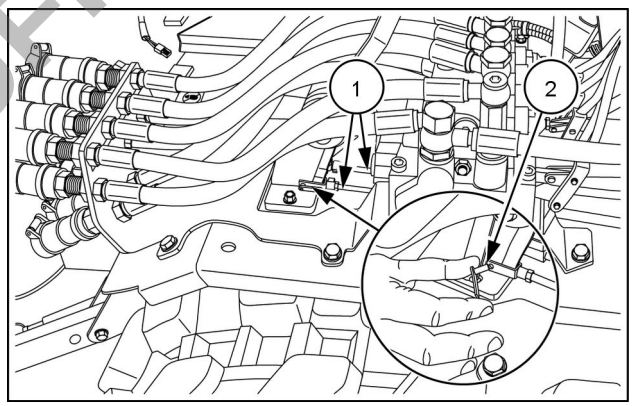
W0208A

1. Remove the protection **(1)** complete with armrest as described in **Fender guard - Remove - Right-hand side (90.116)**.
2. Remove the hood **(2)** for protecting the auxiliary control valves as described in **Fender guard - Remove - Hood for protecting the control valves (90.116)**.



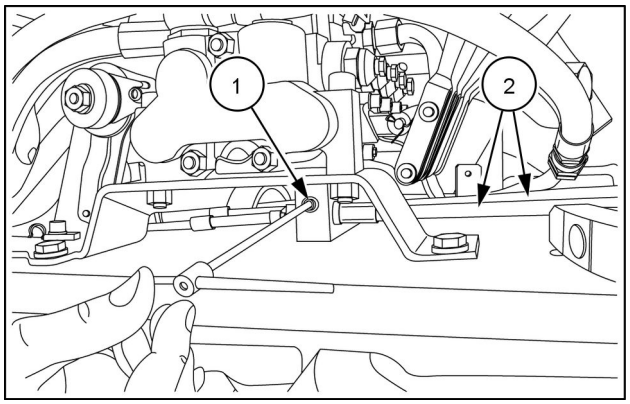
MOIL16TR03537AA 1

3. Disconnect the cables **(1)** from the control levers controlling position and draught by removing the clamps **(2)** with lock pin.



MOIL17TR00087AA 2

4. Loosen the locking screw **(1)** for the cables **(2)** on the support bracket.



MOIL17TR00099AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

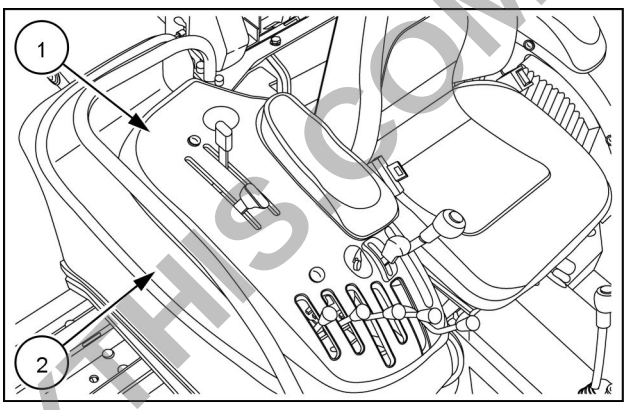
Control hand levers - Replace

⚠ 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.

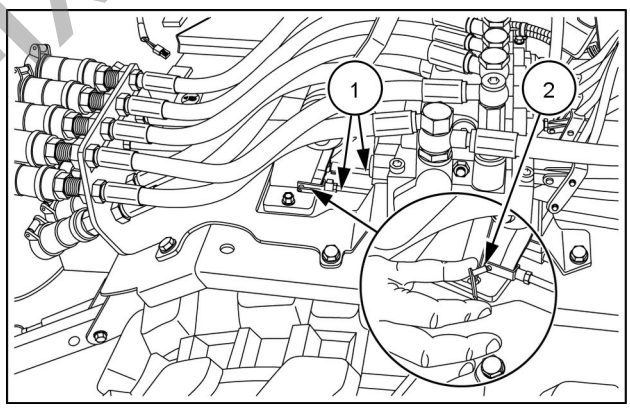
W0208A

1. Remove the guard **(1)**, as described in **Fender guard - Remove - Right-hand side (90.116)**.
2. Remove the hood **(2)** protecting the auxiliary control valves as described in **Fender guard - Remove - Hood for protecting the control valves (90.116)**.



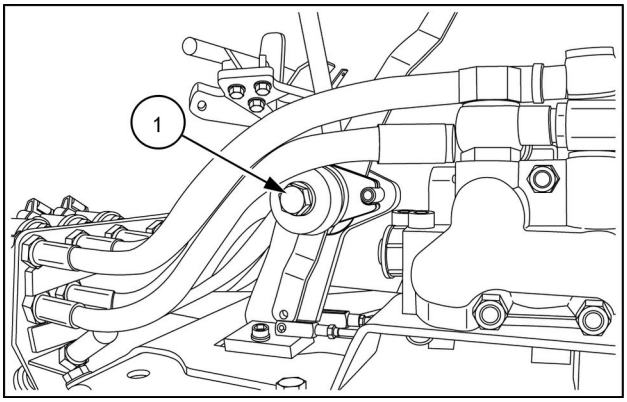
MOIL16TR03537AA 1

3. Disconnect the control cables **(1)** from the lever by removing the clamps **(2)** with the lock pin.



MOIL17TR00087AA 2

4. Loosen the screw **(1)** securing the levers while holding the rear nut.



MOIL17TR00090AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

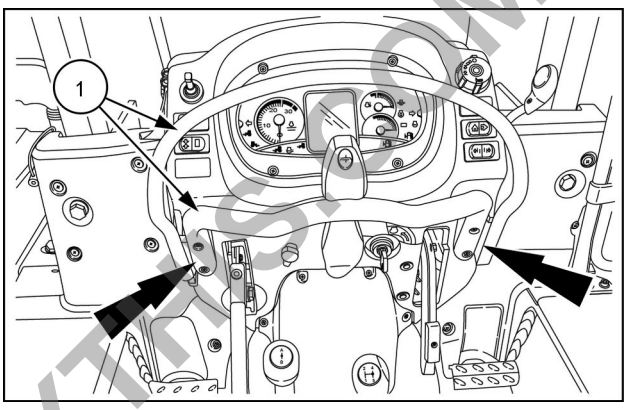
Steering control lever - Remove

⚠ 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.

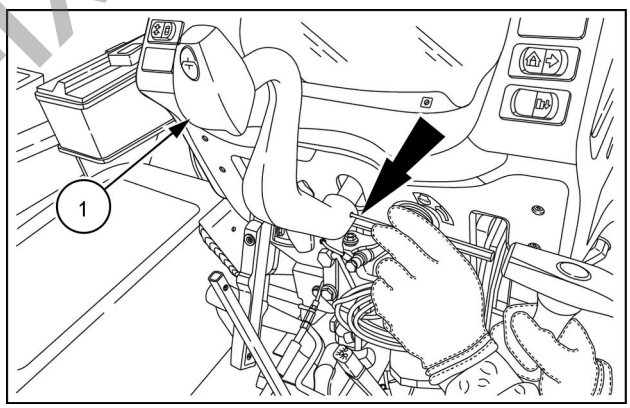
W0208A

1. Loosen the four retaining screws and remove the two hand rails **(1)** from the dashboard.



MOIL17TR00220AA 1

2. Remove the fastening spring pin and remove the steering control handle **(1)**.



MOIL17TR00221AA 2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Track chain - Tension adjust - From PIN ZEJK03735

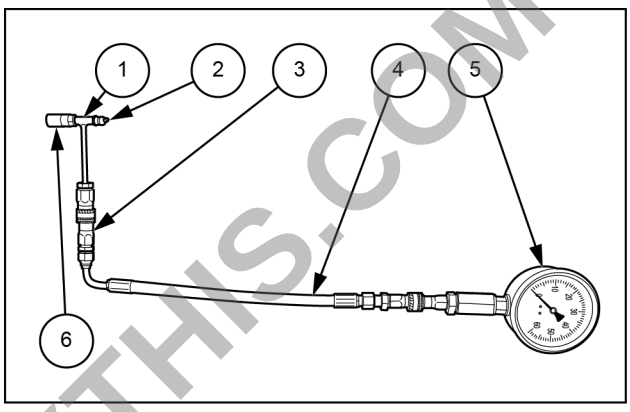
⚠ DANGER

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

To adjust the tension of the track it is necessary to build a device with which you can measure the pressure of the grease inside the cylinder, using the following items:

1. Key to device components:
   1. T-fitting
   2. Male grease nipple
   3. Series of fittings
   4. Hose
   5. **0 – 250 bar** (**0 – 3625 psi**) pressure gauge6. Female grease nipple

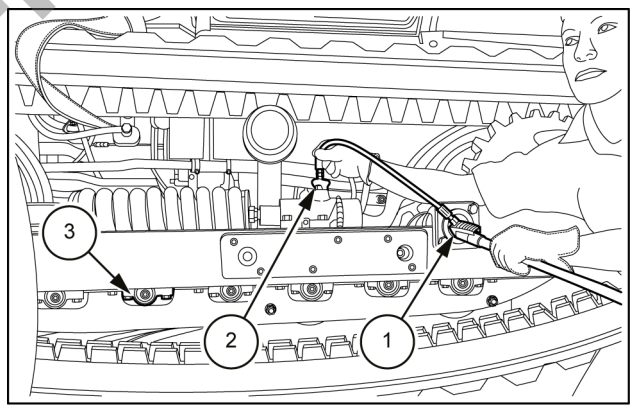


MOIL14TR00051AB 1

2. Remove the access plug to the track tension adjustment valve.
3. Ensure that the valve is closed at the end. Connect the assembled device (see fig. **1**) to the grease nipple. Then, connect the grease nipple pump to the device. Pump the grease (**NEW HOLLAND AMBRA GR-9 MULTI-PURPOSE GREASE**) until you reach a pressure of:
   For tracks measuring **450 mm** (**18 in**): **180 – 200 bar** (**2610 – 2900 psi**)
   For tracks measuring **300 mm** (**12 in**): **160 – 180 bar** (**2320 – 2610 psi**)

NOTE: *The pressure will only be shown by the pressure gauge on injection. During the filling stage of pumping, however, the ball valve will mean that the value indicated is close to zero.*

4. Reinsert the valve access plug.



MOIL14TR00042AB 2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Water-In-Fuel sensor - Remove

⚠ WARNING

Hot surface possible!
Wait for all components to cool before performing any operation.
Failure to comply could result in death or serious injury.

W0251A

⚠ WARNING

Burn hazard!
Be very careful to avoid contact with hot fluids. If fluid is extremely hot, allow it to cool to a moderately warm temperature before proceeding.
Failure to comply could result in death or serious injury.

W0362A

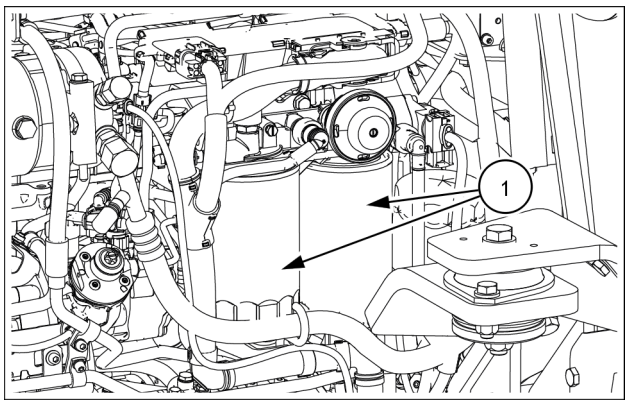
⚠ WARNING

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

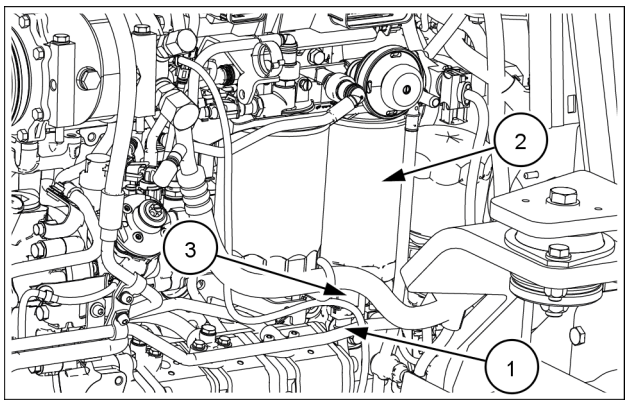
Prior operation:
A. Disconnect the battery negative (-) prong **Battery - Disconnect (55.302)**.
B. Remove the rear engine side panel **Side panels - Remove (90.100)**.

1. Thoroughly clean the fuel filter areas **(1)**.
2. Use suitable protection (cloths and/or sheets of absorbent paper) on the areas below the fuel filters.
3. Use a suitable sized container to catch the fuel under the fuel filters.



MOIL18TR01366AA 1

4. Disconnect the connector from the water sensor **(1)** for the fuel/water separator filter **(3)**.
5. Loosen the sensor from the fuel/water separator filter **(2)**.
6. Carefully clean any components contaminated by fuel leaks.



MOIL18TR01367AA 2

PREVIEW - YOUFIXTHIS.COM

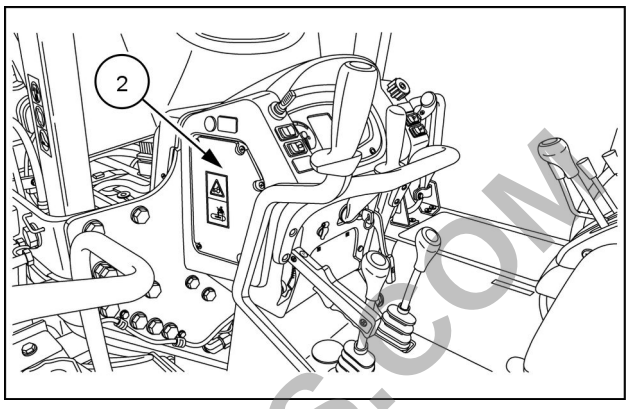
Download full manual at youfixthis.com

Fuse and relay box - Replace

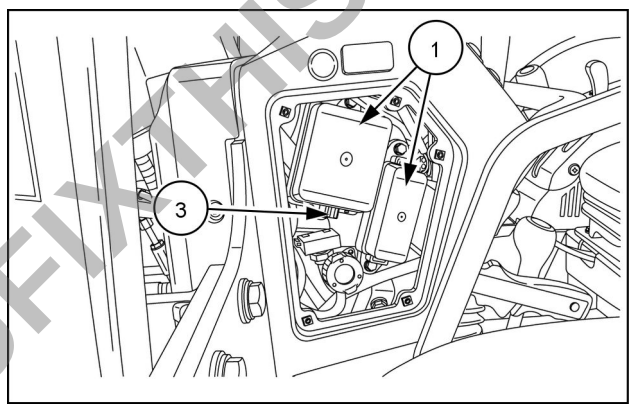
Primary fuse compartment

The fuse compartment **(1)** is kept on the left-hand side of the control unit console.
To access the fuse compartment and relay, remove the cover **(2)**
To remove the fuses from their seats, use the tweezers **(3)**.

NOTE: *Before replacing a blown fuse with another of the same amperage, identify and eliminate the fault that caused the problem.*



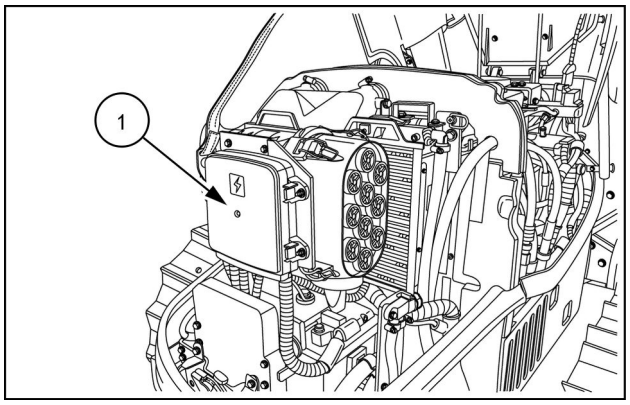
MOIL16TR03657AA 1



MOIL16TR03661AA 2

Power Distribution Unit (PDU)

The power distribution unit (PDU) **(1)** under the hood at the front.



MOIL16TR03760AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Engine starter - Remove

⚠ WARNING

Hot surface possible!
Wait for all components to cool before performing any operation.
Failure to comply could result in death or serious injury.

W0251A

⚠ CAUTION

Hot area!
Use care when working near hot components. Wear protective gloves.
Failure to comply could result in minor or moderate injury.

C0034A

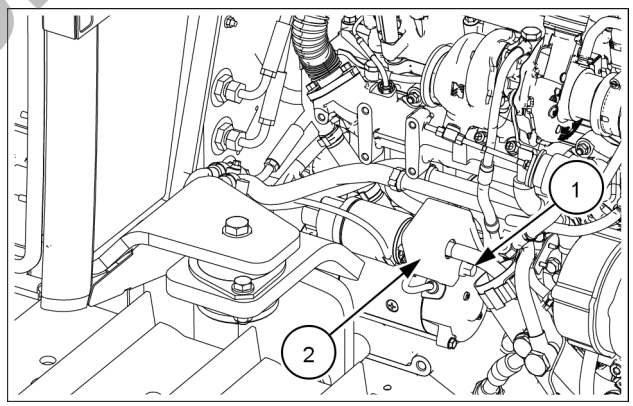
⚠ WARNING

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

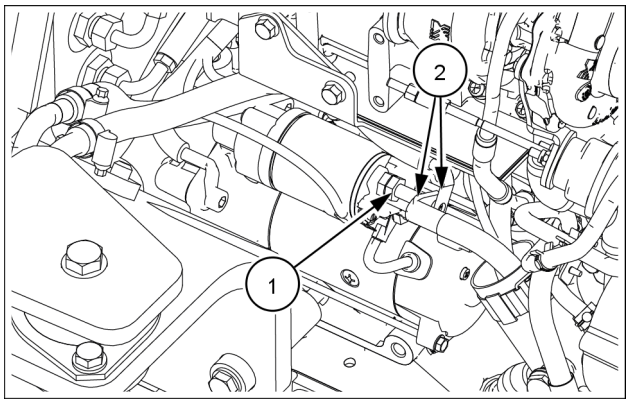
Prior operation:
A. Disconnect the negative battery prong (-) – See **Battery - Disconnect (55.302)**.
B. Remove the drain tube between the exhaust manifold and the silencer - See **Exhaust pipes - Remove (10.254)**.
C.Carefully clean the area around the engine starter motor .

1. Loosen the screw **(1)** on the terminal protection **(2)** for the positive prong (+) power supply cables for the starter motor **(3)**.



MOIL18TR01375AA 1

2. Move the protection along the power cable.
3. Loosen the retaining nut **(1)** securing the terminals of the positive prong (+) power supply cables.
4. Position the cables at the end to create the space necessary to remove the starter motor from its seat.



MOIL18TR01374AA 2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Headlight - Remove

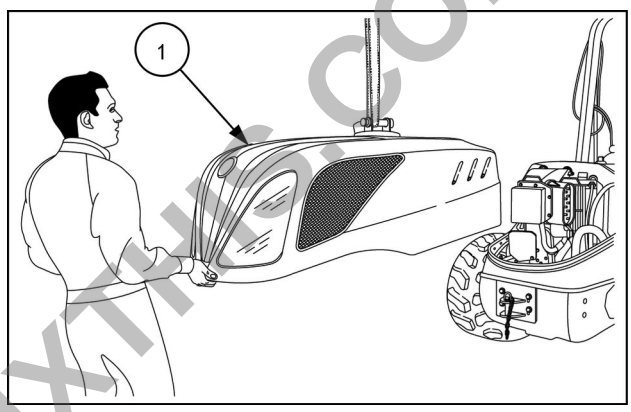
⚠ WARNING

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

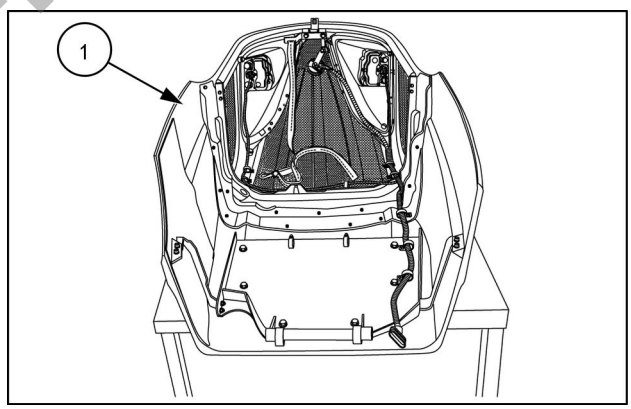
Right headlight

1. Remove the engine hood **(1)** as described in **Hood - Remove (90.100)**.



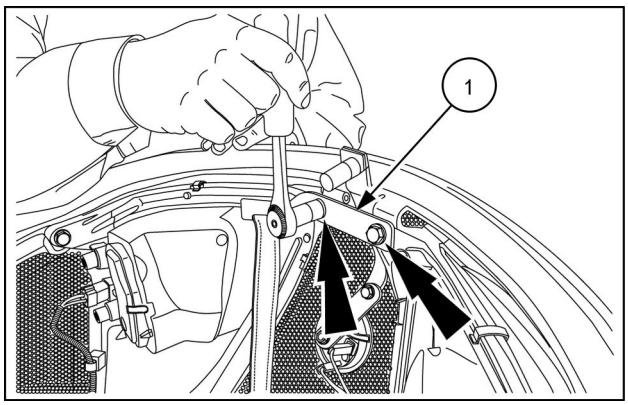
MOIL17TR00230AA 1

2. Position the hood **(1)** on a suitable repair bench.



MOIL17TR00323AA 2

3. Loosen the retaining screws and remove the bracket **(1)**.



MOIL17TR00325AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Electrical systems - 55

FAULT CODES - DTC

TK4.80F Without cab
TK4.80N Without cab
TK4.80V Without cab

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

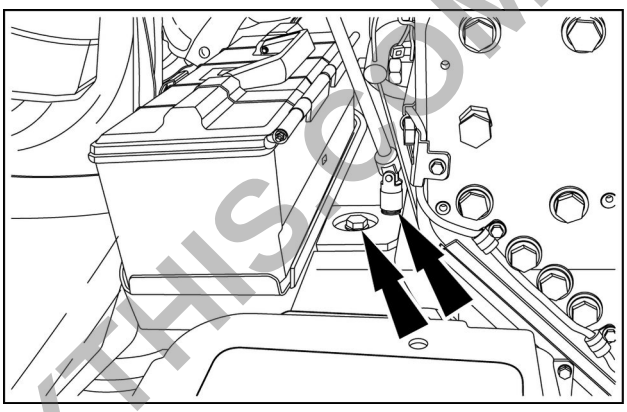
Tool box - Remove

⚠ 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.

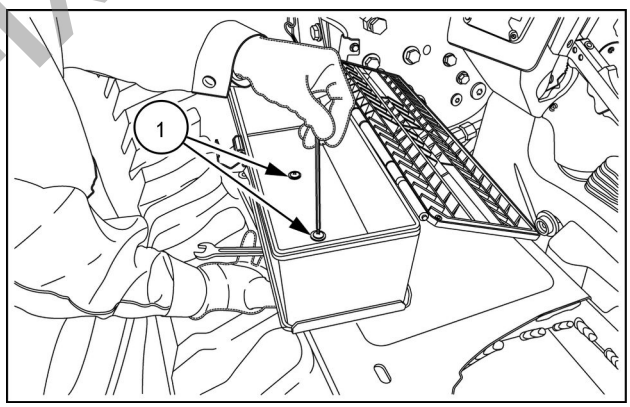
W0208A

1. Loosen the two retaining screws and remove the support complete with its toolbox.



MOIL17TR00116AA 1

2. Holding the lower nuts firmly in place, loosen the retaining screws **(1)** and separate the toolbox from the support.



MOIL17TR00117AA 2

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Contents

INTRODUCTION

Engine 10

[10.001] Engine and crankcase 10.1

[10.216] Fuel tanks 10.2

[10.400] Engine cooling system 10.3

[10.202] Air cleaners and lines 10.4

[10.206] Fuel filters 10.5

[10.310] Aftercooler 10.6

[10.254] Intake and exhaust manifolds and muffler 10.7

[10.414] Fan and drive 10.8

[10.501] Exhaust Gas Recirculation (EGR) exhaust treatment 10.9

Clutch 18

[18.104] Clutch hydraulic release control 18.1

[18.100] Clutch mechanical release control 18.2

[18.110] Clutch and components 18.3

Transmission 21

[21.109] Transmission cooler and lines 21.1

[21.118] Transmission/Rear drive 21.2

[21.130] Mechanical transmission external controls 21.3

[21.148] Transmission/Rear drive internal components 21.4

[21.160] Creeper 21.5

[21.162] Reverser 21.6

Rear axle system 27

[27.126] Spur gear and final drives 27.1

Power Take-Off (PTO) 31

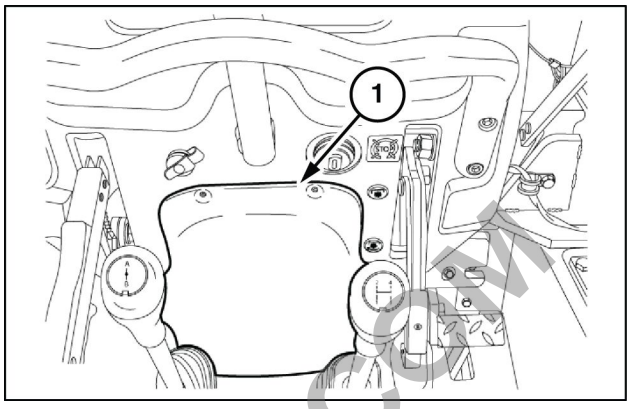
[31.114] Two-speed rear Power Take-Off (PTO) 31.1

Download full manual at youfixthis.com

PREVIEW - YOUFIXTHIS.COM

Central clutch adjustment

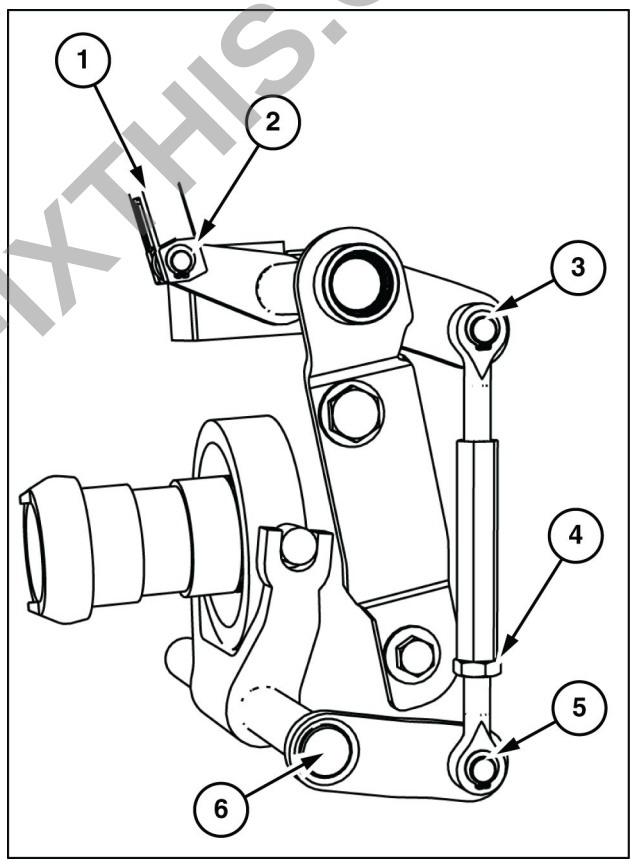
1. The clutch sleeve control lever **(6)**, (Fig. **10**) must be engaged with a torque of **137 – 152 N·m** (**101 – 112 lb ft**) measured on the lever.
   At the slightest sign of the clutch slipping, in order to prevent further damage to it, you need to adjust the clearance as follows:
2. Move the tractor over a pit, onto a lift or put shims under the tracks so as to get underneath it with less difficulty.



MOLI11K0155AB 8

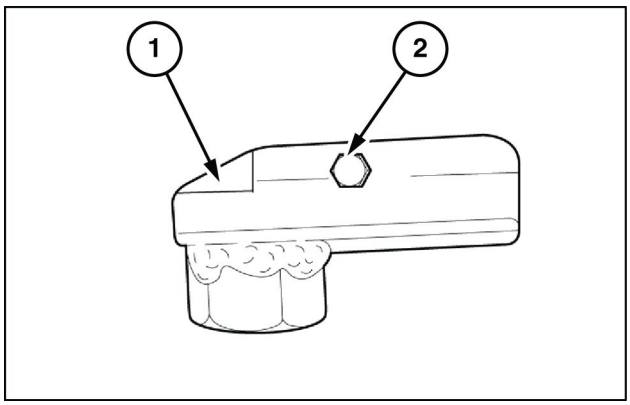
3. From the operator's seat, remove the guard **(1)** (Fig. **8**) under the joystick, so as to see the attachment of the servocontrol cylinder **(1)** to the linkage. Move the footboard onto the left-hand side so as to see the linkage of the servo-control.
   Still from the driving seat, remove the pin **(2)** so as to disconnect the end of the cylinder **(1)** from the linkage or, alternatively, from under the tractor, remove the tie-rod **(4)** by removing the clips **(3)** and **(5)**, again with the same aim, the adjustment must be made without acting on the piston.

   1. Hydraulic piston end
   2. Pin
   3. Hair clip pin
   4. Tie rod
   5. Hair clip pin
   6. Central clutch engagement sleeve fork control lever



MOLI11K0156BB 9

4. Use the adjuster tool **(1)**. After removing the fixing screw **(2)**, fit the adjuster tool on the lever **(6)** (Fig. **10**). Then re-fit the fixing screw (see Fig. **12**).

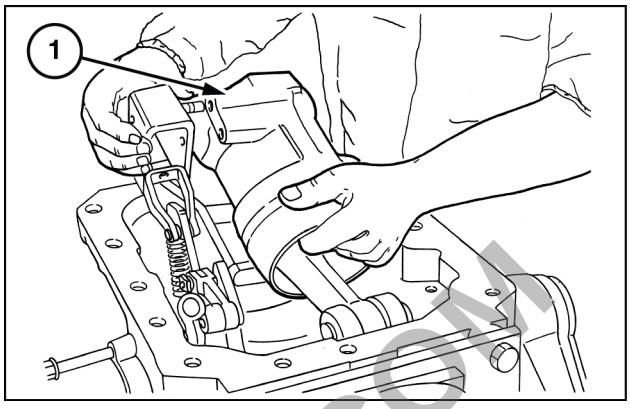


MOLI11K0157AB 10

PREVIEW - YOUFIXTHIS.COM

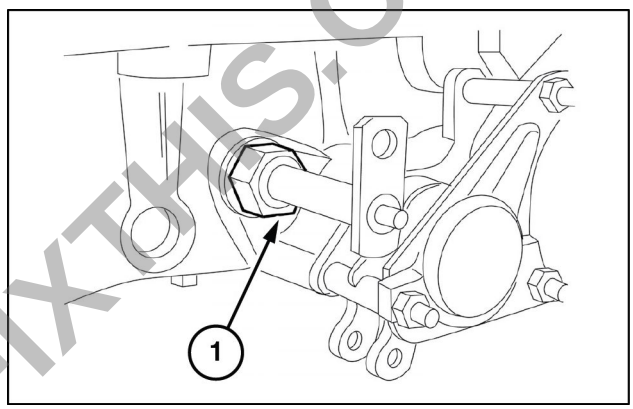
Download full manual at youfixthis.com

5. Remove the cylinder **(1)** and piston.



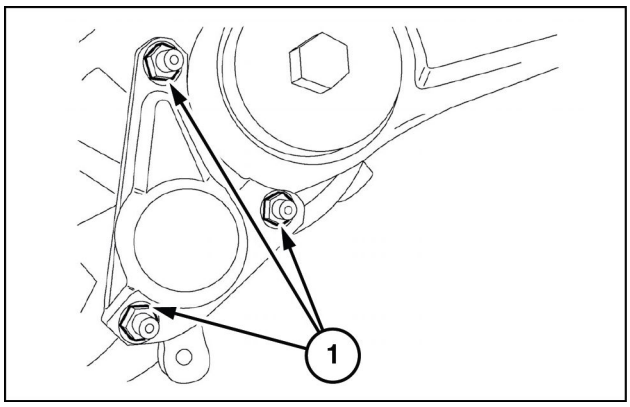
MOLI11K0364AB 3

6. Extract the retaining pin from the draft internal lever, unscrew the nut **(1)**, remove the internal levers assembly and the LIFT-O-MATIC Plus control lever.



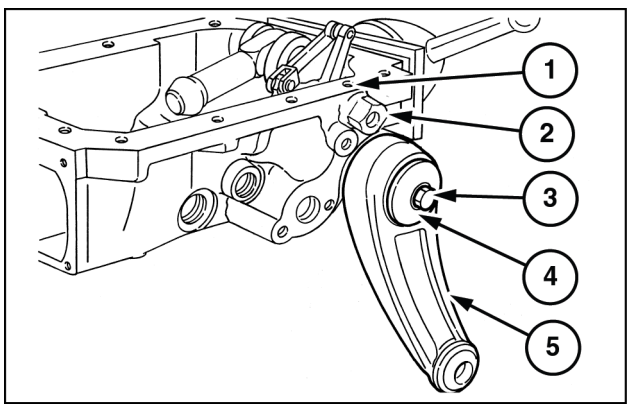
MOLI11K0365AB 4

7. Take out the screws **(1)** retaining the lever guard, the snap ring and remove the washer, external position control lever, related clutch disks, keys and, from the inside, extract the internal position and draft control levers together with spindles.



MOLI11K0366AB 5

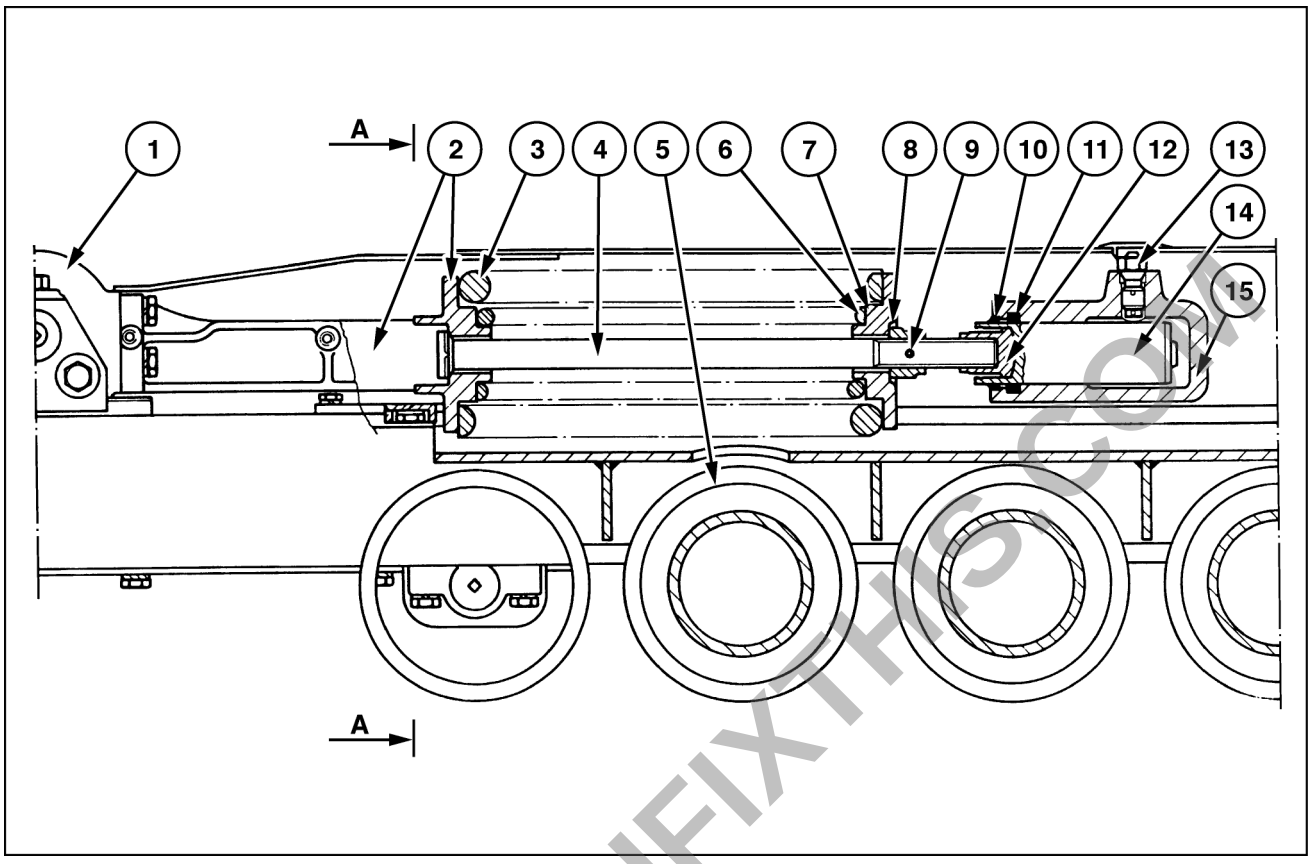
8. Loosen the grub-screw **(1)** on the eccentric pin **(2)**, extract and recover the internal levers.
9. Unscrew the screw **(3)**, remove the washer **(4)**, extract the lift arm **(5)** and recover the thrust washer on both arms.



MOLI11K0367AB 6

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



MOLI11K0547FA 1

Longitudinal cross-sectional view of the track tensioner device

1. Idler wheel support
2. Front fork support
3. Track tensioner external spring
4. Track tensioner spring rod
5. Upper roller
6. Track tensioner internal spring (only fitted on TK4.80V and TK4.80N models).
7. Spring shoulder rear disk
8. Retaining nut
9. Safety cotter pin
10. Cylinder seal
11. Cylinder seal
12. Track tensioner spring rod cap
13. Hydraulic adjuster valve
14. Chain adjuster hydraulic cylinder
15. Support with seat for hydraulic cylinder
16. Guide plate applied to the lower part of the fork support **(2)** (**Track tension units - Remove (48.134)**)
17. Lateral rails fixed to the crossbars of the track carriages
18. Protective shield of the track tensioner device

PREVIEW - YOUFIXTHIS.COM

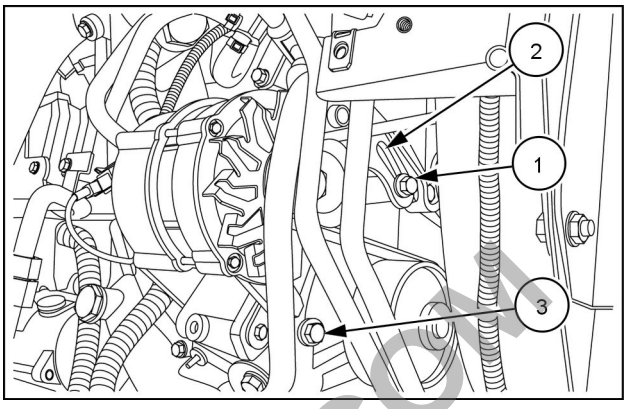
Download full manual at youfixthis.com

Pin	From	Wire	Description	Color-Size	frame
1	**X-080 (Receptacle) pin 1** - Cigarette socket LH pillar conne [J-012] (87705127)	MR-2258B	ROOF GND TO CIGARETTE SOCKET [1]	BK - 1.0	**SHEET 17 SH-017_GROUNDING_CHASSIS 2**
1	**X-076 (Receptacle) pin 1** - Washer pump - front connection [M-004] (82944110)	MR-2258M	ROOF GND TO FRONT WASHER PUMP [1]	BK - 1.0	
1	**X-077 (Receptacle) pin 1** - Washer pump - rear connection [M-005] (82944110)	MR-2258N	ROOF GND TO REAR WASHER PUMP [1]	BK - 1.0	
1	**X-038 (Receptacle) pin 2** - Wiper motor rear connection [SH26: A-1] (87736475)	MR-2261M	ROOF GND TO REAR WIPER MOTOR [2]	BK - 1.0	
1	**X-052L (Receptacle) pin 2** - Front washer sw lamp [S-058] (84131048)	MR-2257Q	ROOF GND TO FRONT WASHER SW LAMP [2]	BK - 0.5	
1	**X-036L (Receptacle) pin 2** - Rear wiper and washer sw lamp [S-053] (84131048)	MR-2260S	ROOF GND TO REAR WIPER MOTOR SW LAMP [2]	BK - 0.5	
1	**X-073 (Receptacle) pin 1** - Beacon light aux connection (87691950)	MR-2261	ROOF GND TO BEACON LIGHT AUX	BK - 1.0	
1	**X-053 (Plug) pin 1** - Roof lamp connection [E-019] (84149205)	MR-2260E	ROOF GND TO ROOF LAMP	BK - 0.5	
1	**X-032L (Receptacle) pin 2** - Rotary beacon sw lamp connection [SH31: A-1] (84131048)	MR-2261D	ROOF GND TO BEACON LIGHT SW LAMP [2]	BK - 0.5	
1	**X-071A (Receptacle) pin 2** - Roof - beacon inline (82012083)	MR-2261E	ROOF GND TO BEACON LIGHT	BK - 1.0	
1	**X-051L (Receptacle) pin 2** - Front wiper motor sw lamp [S-057] (84131048)	MR-2260T	ROOF GND TO FRONT WIPER MOTOR SW LAMP [2]	BK - 0.5	
1	**X-074 (Receptacle) pin 1** - Wiper motor front connection [M-002] (84163397)	MR-2257F	ROOF GND TO FRONT WIPER MOTOR [1]	BK - 1.0	
1	**X-055A (Receptacle) pin 2** - ROOF WORKLAMP REAR RH [SH36: B-1] (82012083)	MR-2260N	ROOF GROUND to REAR WORK LIGHT ON THE RIGHT HAND SIDE. [2]	BK - 1.0	
1	**X-065L (Receptacle) pin 2** - Worklight sw lamp connection [S-052] (84131048)	MR-2264	ROOF GND TO WORKLIGHT SW LAMP [2]	BK - 0.5	
1	**X-068A (Receptacle) pin 2** - ROOF WORKLAMP FRONT RH [SH36: C-1] (82012083)	MR-2260Q	ROOF GROUND to FRONT WORK LIGHT ON THE RIGHT HAND SIDE. [2]	BK - 1.0	
1	**X-069A (Receptacle) pin 2** - ROOF WORKLAMP FRONT LH [E-026] (82012083)	MR-2261G	ROOF GROUND to FRONT WORK LIGHT LEFT-HAND SIDE [2]	BK - 1.0	**SHEET 17 SH-017_GROUNDING_CHASSIS 2**
1	**X-056A (Receptacle) pin 2** - REAR LH ROOF WORK LIGHT - EXT [E-030] (82012083)	MR-2261L	ROOF GROUND to REAR WORK LIGHT LEFT-HAND SIDE [2]	BK - 1.0	
1	**X-039 (Receptacle) pin A8** - RADIO [A-017] (84163395)	MR-2260G	ROOF GND TO RADIO [A8]	BK - 0.75	
1	**X-150 (Receptacle) pin R1_85** - Fuse and Relay module - ROOF [SH36: B-6] (84529039)	MR-2260A	ROOF GND TO REAR WL RELAY [85]	BK - 0.5	
1	**X-150 (Receptacle) pin R4_85** - Fuse and Relay module - ROOF [SH36: B-6] (84529039)	MR-2260B	ROOF GND TO FRONT WL RELAY [85]	BK - 0.5	
1	**X-150 (Receptacle) pin R2_85** - Fuse and Relay module - ROOF [SH36: B-6] (84529039)	MR-2260	ROOF GND TO PWR ROOF RELAY [85]	BK - 0.5	

PREVIEW - YOUFIXTHIS.COM

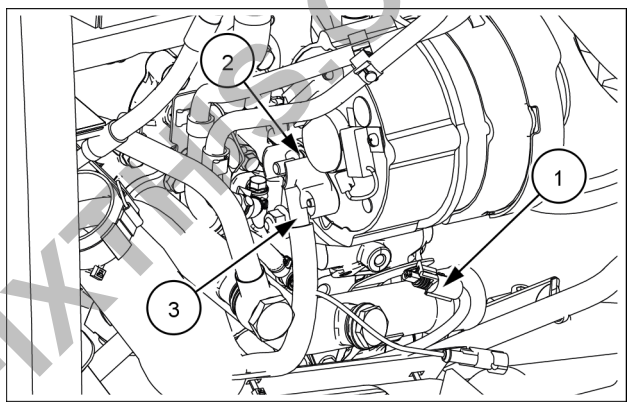
Download full manual at youfixthis.com

6. Tighten the upper side bolt **(1)** of the alternator adjustment bracket **(2)**.
7. Tighten the bolt **(3)** securing the lower bracket.



MOIL15TR03651AA 3

8. Clean the end of the positive (+) terminal cable with specific anti-corrosion products.
9. Clean the positive (+) terminal of the alternator with specific anti-corrosion products.
10. Connect the end of the positive (+) terminal cable **(3)**.
11. Tighten the nut **(2)** for the alternator positive (+) terminal cable **(3)**.
12. Clean the connector **(1)** with specific anti-corrosion products.
13. Connect connector **(1)**.



MOIL18TR01370AA 4

Next operation:
A. Check the engine services belt – See **Compressor drive belt - Check (50.200)**.
B. Refit the front and rear right side engine panels - See **Side panels - Install (90.100)**.
C. Connect the negative (-) battery terminal – See **Battery - Connect (55.302)**.
D. Start the engine and check it is working properly.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3200 - Injector Cylinder 4 Warning - Open Load

Context:
The Engine Control Unit (ECU) **A-010** monitors the fuel injector number 3 circuit. If the ECU **A-010** determines that there is an open circuit condition in the fuel injector number 3 circuit, this fault will occur.

Cause:
The ECU **A-010** has detected an open circuit in the fuel injector number 3 circuit.

Possible failure modes:

1. Faulty fuel injector number 3, internal failure.
2. Faulty fuel injector number 3 wiring, open circuit.
3. Faulty ECU **A-010**, 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 **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 **5**.

2. Check fuel injector number 3 for an internal failure.

   Disconnect fuel injector number 3 connector from fuel injector number 3.

   Use a multimeter to perform the following resistance check on the fuel injector pins :

From	To	Value
Fuel injector number 3 connector, pin 1	Fuel injector number 3 connector, pin 2	There should be approximately **0.3 – 0.5 Ω**.

   A. If the resistance is significantly greater than the specified range, the fuel injector has failed. Replace the fuel injector number 3.

   B. If the specified range is measured, leave fuel injector number 3 connector disconnected and continue to **3**.

3. Check the fuel injector number 3 injector harness (INJ) wiring for an open circuit.

   Disconnect connector **X-940A** from the engine interface connector.

   Use a multimeter to perform the following continuity check on the injector harness (INJ) side :

From	To	Value
X-940A pin D	Fuel injector number 3 connector, pin 1	There should be continuity.
X-940A pin C	Fuel injector number 3 connector, pin 2	There should be continuity.

   A. If there is no continuity, there is an open circuit in the fuel injector number 3 injector harness (INJ) wiring. Locate and repair the broken conductor.

   B. If there is continuity, leave fuel injector number 3 and **X-940A** connectors disconnected and continue to **4**.

4. Check the fuel injector number 3 vehicle harness (VE) wiring for an open circuit.

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

   Use a multimeter to perform the following continuity check on the vehicle harness (VE) side :

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

(1) Turn the key switch OFF.

(2) Disconnect the TVA solenoid valve terminals **M-102**. Disconnect the ECU connector **X-939**.

(3) Measure the resistance between the ECU connector **X-939** pin 49 and the chassis ground. The resistance should be greater than **20,000 Ω**. Wiggle the wiring during the measurement to reveal an intermittent condition.

(3) Measure the resistance between the ECU connector **X-939** pin 34 and the chassis ground. The resistance should be greater than **20,000 Ω**. Wiggle the wiring during the measurement to reveal an intermittent condition.

A. The resistance is greater than **20,000 Ω**. Go to step **5**.

B. The resistance is less than **20,000 Ω**.
There is a short circuit to chassis ground. Repair or replace wire as necessary.
Return the step **1** to confirm the elimination of the fault.

5. Measure the resistance of the TVA solenoid valve **M-102** to chassis ground.

(1) Turn the key switch OFF.

(2) Disconnect the TVA solenoid valve terminals **M-102**.

(3) Measure the resistance from the component side of the position sensor power supply terminal +5V, of the **M-102** TVA solenoid valve, to the chassis ground. The resistance should be greater than **20,000 Ω**.

A. The resistance is greater than **20,000 Ω**. Temporarily replace the ECU and retest.
Return to step **1** to confirm the elimination of the fault.

B. The resistance is less than **20,000 Ω**.
There is an internal short circuit to chassis ground.Temporarily replace the TVA solenoid valve and retest.
Return to step **1** to confirm the elimination of the fault.

Wiring harnesses - Electrical schematic sheet 20 SH-020_ENGINE 2_F5C_T4A (55.100.DP-C.20.E.20)
Wiring harnesses - Electrical schematic sheet 20 SH-020_ENGINE 2_F5C_T4A (55.100.DP-C.20.E.20)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 2023 pages

The full manual includes:

- All 2023 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

New Holland TK4.80V, TK4.80N, TK4.80F Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual