

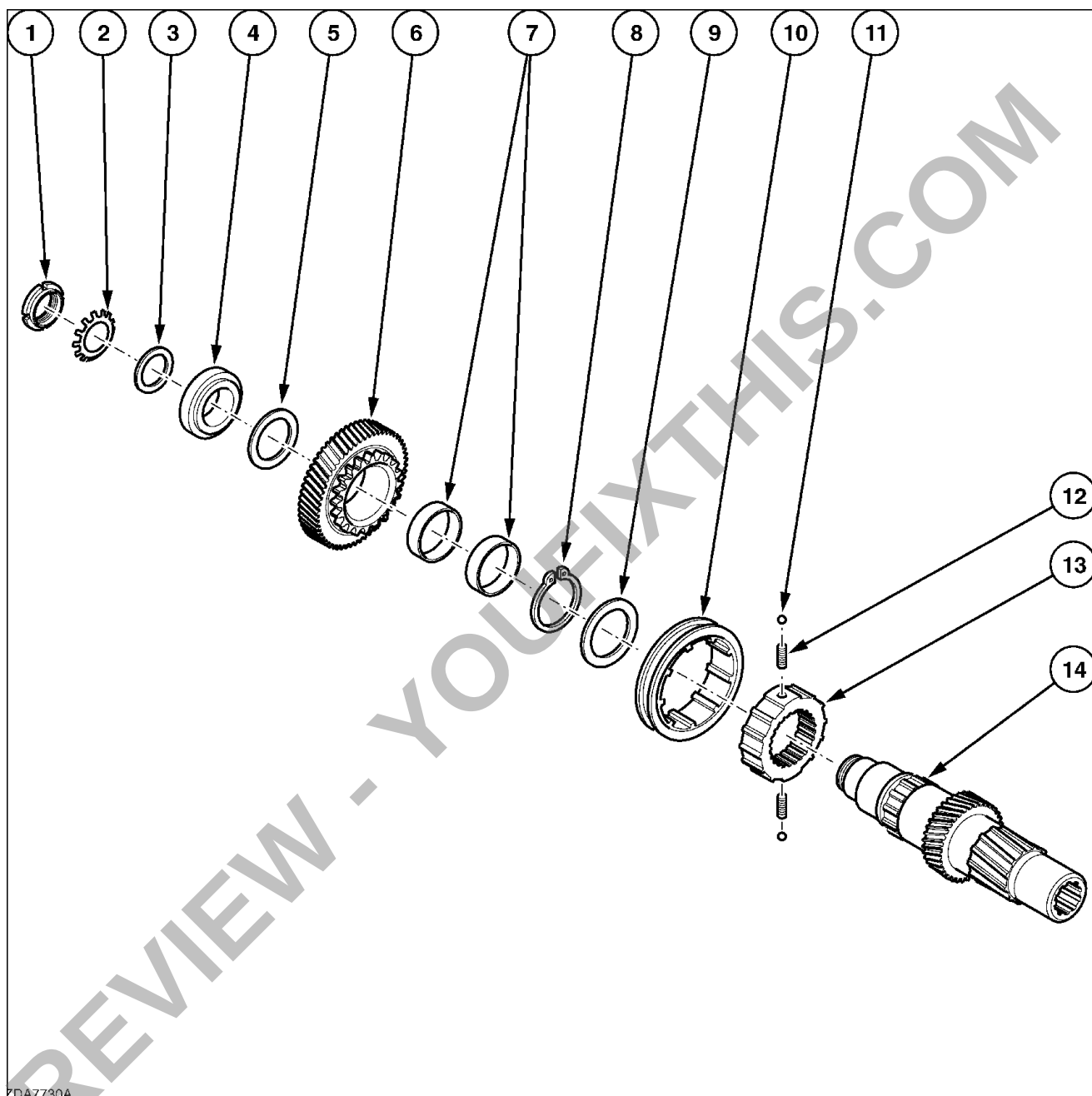
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Driven shaft - Exploded view

TC5.80	WE
TC5.90 Hillside	WE
TC5.90	WE



ZDA7730A

ZDA7730A 1

Input shaft

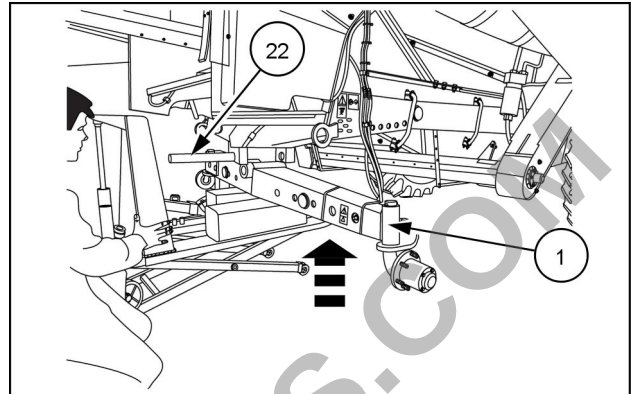
- 1 Nut
- 3 Washer
- 5 Washer
- 7 Needle bearing
- 9 Washer
- 11 Ball
- 13 Selector housing

- 2 Lock washer
- 4 Bearing
- 6 Gear
- 8 Retaining ring
- 10 Selector ring
- 12 Spring
- 14 Input shaft

Rear axle - Install

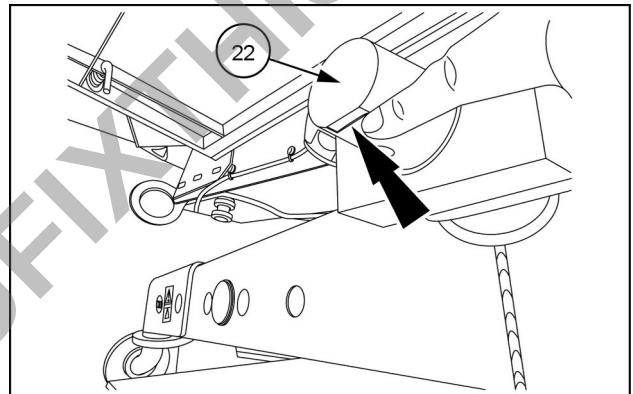
TC5.80	WE
TC5.90	WE

1. Place the rear axle **(1)** underneath the machine.
Use a suitable lifting device.
2. Lift the rear axle **(1)** in place.
3. Install the rear axle pin **(22)**.



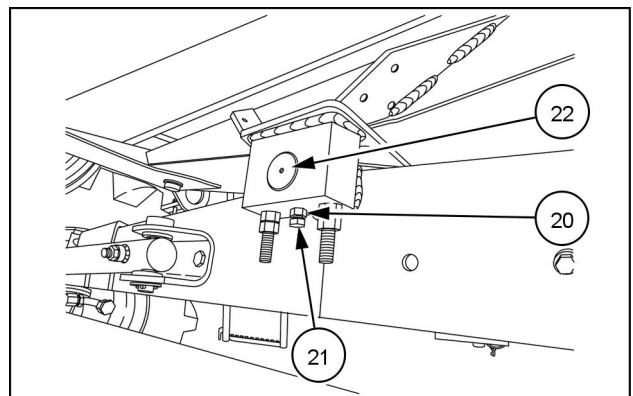
ZEIL15TC00068AA 1

4. Position the rear axle pin **(22)** so that the flat side is underneath and horizontal.



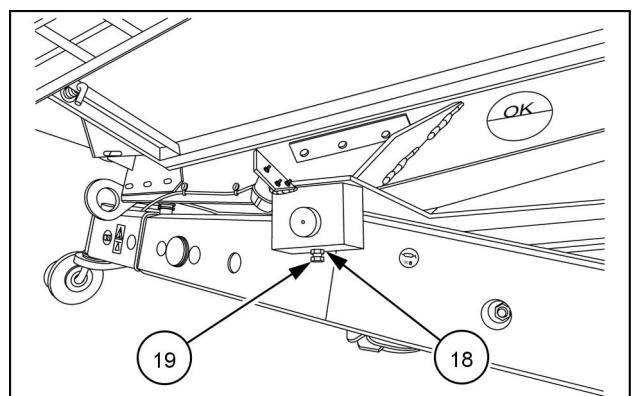
ZEIL15TC00069AA 2

5. Install the rear axle pin **(22)** in place.
6. At the front side of the rear axle, install the bolt **(21)** with the nut **(20)**.
7. Tighten the bolt **(21)** and secure it with the nut **(20)**.



ZEIL15TC00067AA 3

8. At the rear side of the rear axle, install the bolt **(19)** with the nut **(18)**.
9. Tighten the bolt **(19)** and secure it with the nut **(18)**.



ZEIL15TC00066AA 4

Contents

Brakes and controls - 33

Parking brake or parking lock - 110

SERVICE

Parking brake or parking lock

Replace (*)	3
Remove (*)	5
Install (*)	6
Adjust	7

(*) See content for specific models

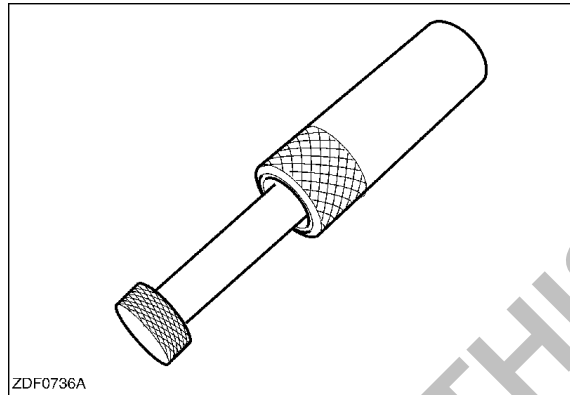
Hydraulic control components - Special tools

TC Harvest Suit™ Comfort Cab

WE

Description
Steering valve seal tool

Tool No.
380000305

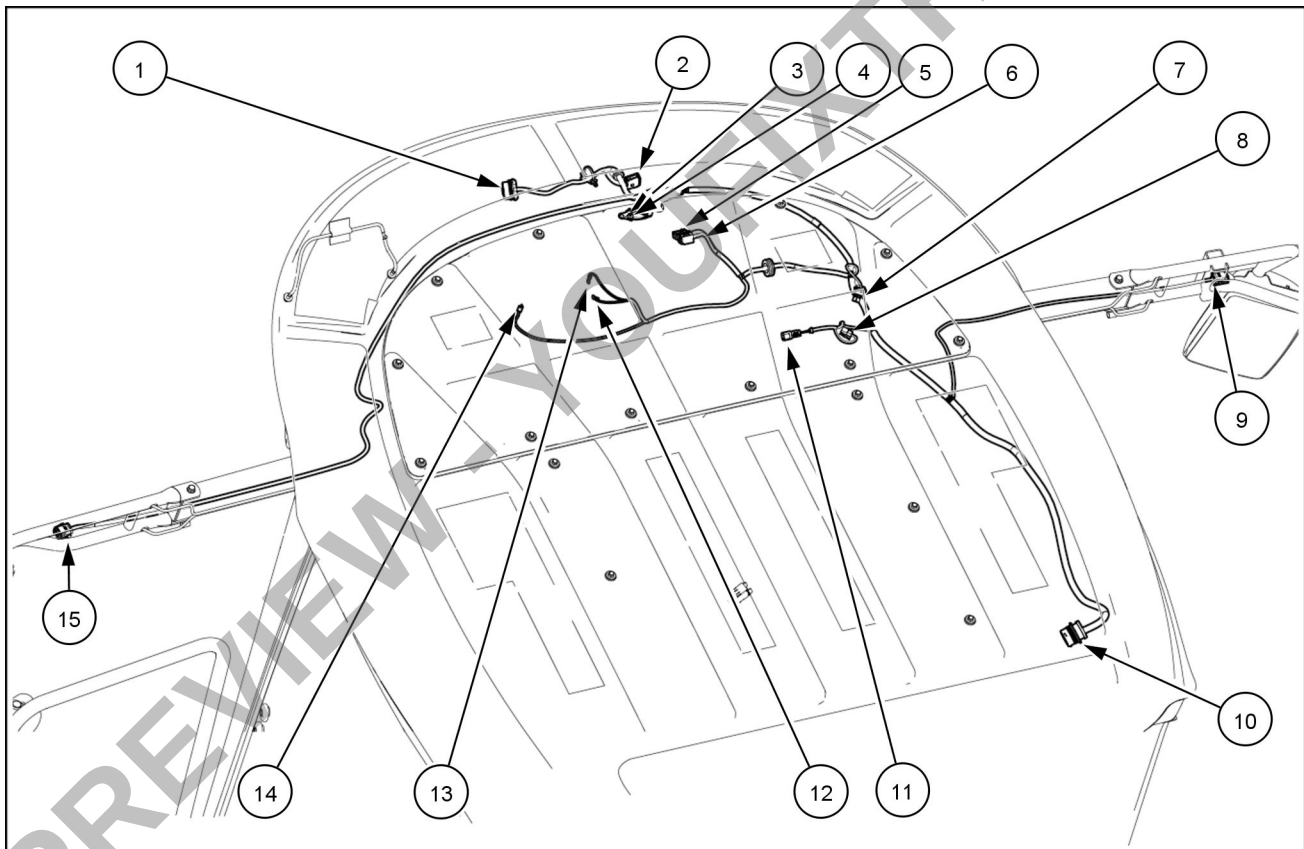


ZDF0736A

ZDF0736A 1

Cab roof upper (CRU)

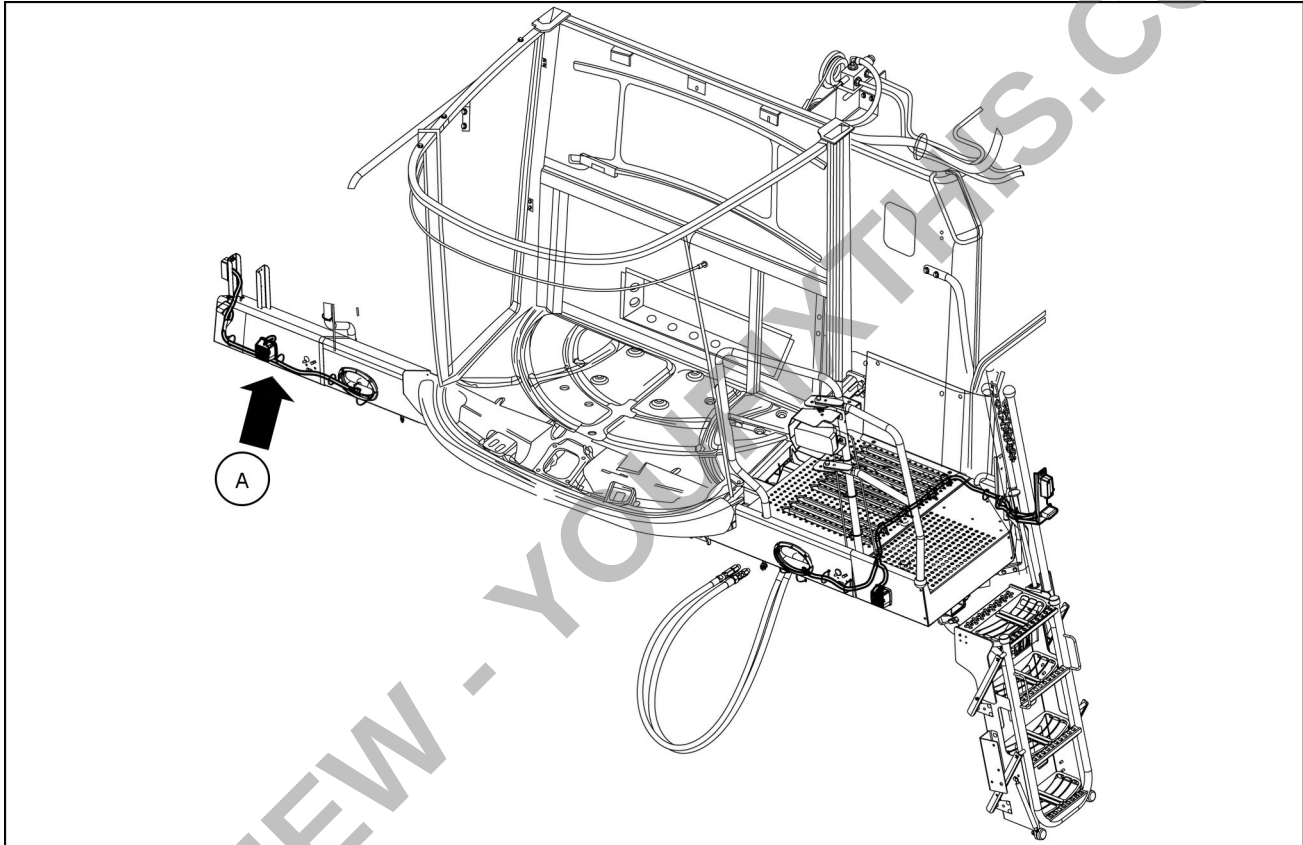
Item	Connector number	Description
1	X-401	Wiper motor
2	X-903	Cab roof light
3	X-051A	Ground
4	X-051B	Ground
5	X-402	Blower motor
6	X-006	Blower speed control module
7	X-403	Water/heater valve
8	X-624	Air-conditioning low pressure switch
9	X-406	Right-hand side power mirror
10	X-902	Cab lower roof to upper roof
11	X-105	Evaporator temperature automatic air-conditioning
12	X-006B2	Blower motor
13	X-006B1	Blower motor
14	X-103	Air outlet temperature automatic air-conditioning
15	X-407	Left-hand side power mirror



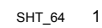
BAIL16TC00104FA 8

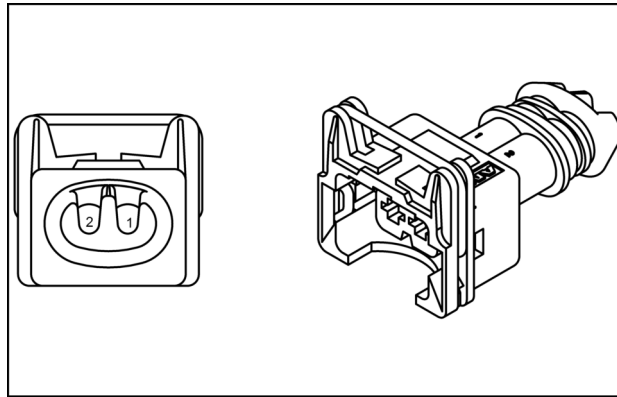
Light harness right- Italy - Hillside (FPE)

Item	Connector number	Description
View A	X-237B	Ground right-hand side position marker light
View A	X-237A	Right-hand side position marker light
View A	X-224C	Right-hand side front hazard light
View A	X-224A	Right-hand side front hazard light
View A	X-976	Front platform - hazard lights right
View A	X-224B	Right-hand side front hazard light
View A	X-241B	Ground right-hand side flashing marker light
View A	X-241A	Right-hand side front flashing marker light



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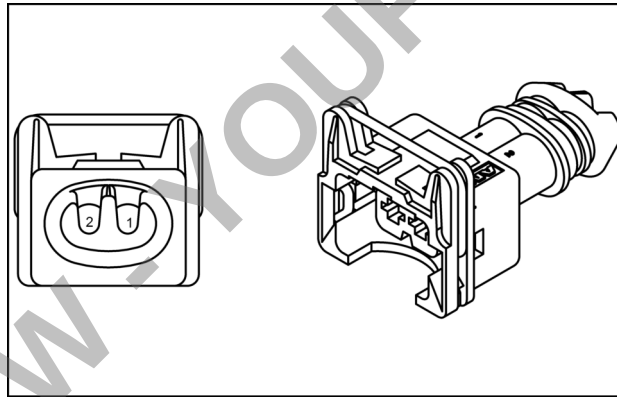


X-352 - VALVE UNLOAD TUBE OUT [Y-052] (84607243) (Female)

84607243 3

84607243

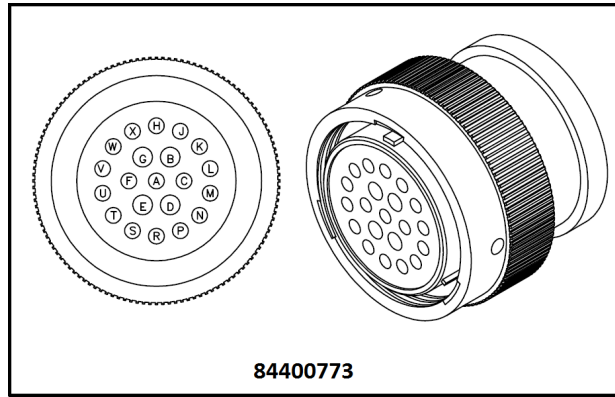
Pin	From	Wire	Description	Color-Size	Frame
1	X-945 (Female) pin 19 CAB MAIN TO LH FRAME HARNESS	LHM-131	SOLENOID UNLOAD TUBE OUT	WH - 0.75	SHEET 27
2	X-056A (Male) pin 1 GROUND BATTERY BOX - M8	LHM-056E	FRONT CHASSIS GROUND	BK - 0.75	
2	X-056A (Male) pin 1 GROUND BATTERY BOX - M8	LHM-056E	FRONT CHASSIS GROUND	BK - 0.75	

X-358 - VAVLE CHOPPER [Y-058] (84607243) (Female)

84607243 4

84607243

Pin	From	Wire	Description	Color-Size	Frame
1	X-957 (Male) pin 4 BETW. CONN. CHOPPER	CH-1440	CH-1440	WH - 0.75	SHEET 28
2	SP-058HD-P-X	CH-058HE	CH-058HE	BK - 0.75	

X-916 - CAB MAIN TO FRONT FRAME (84400773) (Male)

84400773 3

84400773

Pin	From	Wire	Description	Color-Size	Frame
A	X-1000 (Female) pin 26	FF-061	REEL SPEED DECREASE	GY - 2.0	SHEET 24
B	X-1000 (Female) pin 31	FF-190	FF-190	YE - 2.0	SHEET 26
C	X-1000 (Female) pin 20	FF-059	REEL SPEED INCREASE	WH - 2.0	SHEET 24
F	X-1000 (Female) pin 27	FF-068	SENSOR HEADER TYPE	YE - 0.75	SHEET 26
H	X-1000 (Female) pin 9	FF-070	SENSOR REEL POSITION VERTICAL	YE - 0.75	
J	X-1000 (Female) pin 7	FF-071	SENSOR REEL RPM	YE - 0.75	
K	X-1000 (Female) pin 1	FF-072	SENSOR HEADER HEIGHT/TILT LEFT	YE - 0.75	
L	X-1000 (Female) pin 2	FF-073	SENSOR HEADER HEIGHT/TILT RIGHT	YE - 0.75	
M	X-1000 (Female) pin 19	FF-156A	SOLENOID VERTICAL KNIFE RIGHT	WH - 1.0	SHEET 33
N	X-1000 (Female) pin 18	FF-157A	SOLENOID VERTICAL KNIFE LEFT	WH - 1.0	
P	SP-213-P-X	FF-213	FF-213	PK - 1.0	SHEET 07
R	SP-216B-P-X	FF-216B	FF-216B	BL - 0.75	
S	X-1000 (Female) pin 24	FF-270B	FF-270B	VT - 1.0	SHEET 36
T	X-1000 (Female) pin 8	FF-069	SENSOR REEL POSITION HORIZONTAL	YE - 0.75	SHEET 26
U	X-1000 (Female) pin 21	FF-055UE	FF-055UE	BK - 1.0	SHEET 40
V	X-1000 (Female) pin 3	FF-092	FF-092	YE - 0.75	SHEET 26
W	X-1000 (Female) pin 4	FF-093	FF-093	YE - 0.75	
X	X-1000 (Female) pin 30	FF-055UJ	FRONT FRAME CHASSIS GROUND	BK - 1.0	SHEET 40

Electrical components - Relay description

K-001 - ROAD LIGHTS (HIGH BEAM)

Component Type	Relay
Wiring frames	SHEET 40

K-002 - ROAD LIGHTS (LOW BEAM)

Component Type	Relay
Wiring frames	SHEET 40

K-003 - BRAKE LIGHT

Component Type	Relay
Wiring frames	SHEET 35

K-004 - STUBBLE LIGHTS

Component Type	Relay
Wiring frames	SHEET 35
Connectors	X-680B (Female)

K-005 - REAR WORK LIGHTS

Component Type	Relay
Wiring frames	SHEET 35

K-006 - TAIL LIGHTS

Component Type	Relay
Wiring frames	SHEET 36
Connectors	X-680C (Female)

K-007 - SIDE/EXIT/UNLOADING LIGHTS

Component Type	Relay
Wiring frames	SHEET 43

K-008 - BEACON LIGHTS

Component Type	Relay
Wiring frames	SHEET 36

K-009 - OUTER ROOF LIGHTS

Component Type	Relay
Wiring frames	SHEET 42

K-011 - BLOWER

Component Type	Relay
Wiring frames	SHEET 50

K-012 - INNER ROOF LIGHTS

Component Type	Relay
Wiring frames	SHEET 42

From	To	Result
X-015A (Female) pin 10 , wire CAB-142 (YE)	Ground	Should be no voltage
X-015A (Female) pin 10 , wire CAB-142 (YE)	All other pins in connector X-015A	Should be no continuity

A. If a fault is indicated, there is a short circuit. Repair or replace the wiring harness as required.

B. If a fault is not indicated, and the wiring harness is okay, download the correct level of software into the **A-001**.
If the fault recurs, remove and replace the **A-001**.

5. Check the **B-032** for a short circuit to positive voltage.
Use a multimeter to perform the following voltage checks:

From	To	Result
Component side of connector X-132 pin 1	Ground	Should be no voltage
Component side of connector X-132 pin 2	Ground	Should be no voltage

A. If a voltage is indicated, there is a short circuit. Repair or replace the **B-032** or wiring harness as required.

B. If a voltage is not indicated, continue to Step 6.

6. Check for a short circuit to positive voltage on the ground wire.
Use a multimeter to perform the following voltage check:

From	To	Result
X-132 (Female) pin 1 , wire CH-209ABAB (BL)	Ground	Should be no voltage

A. If a voltage is indicated, there is a short circuit. Repair or replace the wiring harness as required.

B. If a voltage is not indicated, continue to step 7

7. Check the **B-032**.
Turn the ignition switch OFF.
Remove and replace the **B-032**.
Connect the connector **X-132**.
Clear the fault codes and check for correct operation of the machine.

A. If the fault is still present and the wiring harness is okay, download the correct level of software into the **A-001**.
If the fault recurs, remove and replace the **A-001**.

8. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while monitoring the display.

A. If damage is detected or the display indicates abnormal display readings, then repair the damage discovered during the inspection or locate and repair the abnormal display condition and verify that the fault has been resolved.

B. If no damage is detected and the display indicates only normal readings, erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 28 (55.100)

- B. If an open circuit is not indicated, continue to Step **10**.
10. Check the **B-070**.
Remove and replace the **B-070**.
Connect the connectors **X-015B** and **X-170**.
Clear the fault codes and check for correct operation of the machine.
- A. If the fault is still present and the wiring harness is okay, download the correct level of software into the **A-001**.
If the fault recurs, remove and replace the **A-001**.
11. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while monitoring the display.
- A. If damage is detected or the display indicates abnormal display readings, then repair the damage discovered during the inspection or locate and repair the abnormal display condition and verify that the fault has been resolved.
- B. If no damage is detected and the display indicates only normal readings, erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 26 (55.100)

5. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while monitoring the display.
 - A. If damage is detected or the display indicates abnormal display readings, then repair the damage discovered during the inspection or locate and repair the abnormal display condition and verify that the fault has been resolved.
 - B. If no damage is detected and the display indicates only normal readings, erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 25 (55.100)

From	To	Result
Component side of connector X-333 pin 1	Ground	Should be no voltage
Component side of connector X-333 pin 2	Ground	Should be no voltage

A. If a voltage is indicated, there is a short circuit. Repair or replace the **Y-033** or wiring harness as required.

B. If a voltage is not indicated, continue to Step 5.

5. Check the **Y-033**.

Turn the ignition switch OFF.

Remove and replace the **Y-033**.

Connect the connectors **X-014B** and **X-333**.

Clear the fault codes and check for correct operation of the machine.

A. If the fault is still present and the wiring harness is okay, download the correct level of software into the **A-001**.
If the fault recurs, remove and replace the **A-001**.

6. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while monitoring the display.

A. If damage is detected or the display indicates abnormal display readings, then repair the damage discovered during the inspection or locate and repair the abnormal display condition and verify that the fault has been resolved.

B. If no damage is detected and the display indicates only normal readings, erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 24 (55.100)

E0165-03-Back up alarm - voltage above normal or shorted to high source

Control Module : UCM

NOTE: When the cause of the fault code has been rectified, clear the fault code and test the system for normal operation.

NOTE: If more than one fault code is present, using the electrical schematics, check for any common components, powers or grounds which may share a common cause before replacing the Universal Control Module (UCM) **A-001** if instructed.

Cause:

The **A-001** has detected a voltage above normal or is shorted to a high source at connector **X-013B (Female) pin 25**, wire CAB-180 (GY) from the back up alarm **H-007** connector **X-537A (Male) pin 1**, wire RHM-180 (GY).

Possible failure modes:

1. Faulty connector.
2. Faulty wiring harness.
3. Faulty **H-007**.
4. Faulty **A-001** software.
5. Faulty **A-001**.

Solution:

1. Verify fault is present and active.
Record all the fault codes present. Clear the fault codes and check for correct operation of the machine.
 - A. If the fault is present and active, continue to 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 to Step 6.
2. Check the **A-001** connector **X-013B**, the wiring harness connector **X-925B** and the **H-007** connectors **X-537A** and **X-537B**.
Make sure the connectors are connected, not damaged, the pins are in the correct position and that the fit is tight.
 - A. If a fault is indicated, repair or replace as required.
 - B. If the connectors are okay, continue to Step 3.
3. Check for a short circuit to positive voltage.
Disconnect the connectors **X-013B** and **X-537A**.
Turn the ignition switch ON.
Use a multimeter to perform the following wiring checks:

From	To	Result
X-013B (Female) pin 25 , wire CAB-180 (GY)	Ground	Should be no voltage
X-013B (Female) pin 25 , wire CAB-180 (GY)	All other pins in connector X-013B	Should be no continuity

- A. If a fault is indicated, there is a short circuit. Repair or replace the wiring harness as required.
 - B. If a fault is not indicated, continue to Step 4.
4. Check the **H-007** for a short circuit to positive voltage.
Use a multimeter to perform the following voltage check:

E0664-07-Drum speed adjustment switch (increase) - mechanical system not responding or out of adjustment

Control Module : RHM

NOTE: When the cause of the fault code has been rectified, clear the fault code and test the system for normal operation.

Cause:

The Right-Hand Module (RHM) **A-004** has detected an unexpected voltage at connector **X-032G (Female) pin 3**, wire RC-2226 (YE) from the drum adjustment switch **S-015** connector **X-621 (Female) pin 1**, wire RC-2226 (YE).

Possible failure modes:

1. **S-015** pressed when the ignition switch is being switched ON.
2. Faulty **S-015**.
3. Faulty connector.
4. Faulty wiring harness.
5. Faulty **A-004** software.
6. Faulty **A-004**.

Solution:

1. Verify the fault code is still present.
Record all the fault codes present. Clear the fault codes and check for correct operation of the machine.
 - A. If the fault code is still present, continue to Step 2.
 - B. If the fault code is not present, the fault may be intermittent or the **S-015** was pressed when the ignition switch was being switched ON. Check for correct operation of the machine.
2. Check the operation of the **S-015**.
Operate the **S-015** and check for signs of damage or sticking.
 - A. If the **S-015** shows signs of damage or sticking, remove and replace the **S-015**.
 - B. If the **S-015** does not show signs of damage or sticking, continue to Step 3.
3. Check the **S-015** for a short circuit.
Turn the ignition switch OFF.
Disconnect the **S-015** connector **X-621**.
With the **S-015** in the released position, use a multimeter to perform the following continuity check:

From	To	Result
Component side of connector X-621 pin 1	Component side of connector X-621 pin 2	Should be no continuity

- A. If a short circuit is indicated, remove and replace the **S-015**.
 - B. If a short circuit is not indicated, continue to Step 4.
4. Check the **A-004** connector **X-032G**.
Make sure the connector is connected, not damaged, the pins are in the correct position and that the fit is tight.
 - A. If a fault is indicated, repair or replace as required.
 - B. If a fault is not indicated, continue to Step 5.
5. Check for a short circuit.
Disconnect the connector **X-032G**.
Use a multimeter to perform the following continuity checks:

E17518 (DTC F29F)-SCR Inducement: Level 3 (creep mode), triggered by EGR valve blocked fault

Control Module : ECU

NOTE: Since this fault is part of the inducement strategy, it may be necessary to perform the Engine Restart Counter Reset / Unlock Inducement configuration with the Electronic Service Tool (EST) before you return the machine to service, unless this was accomplished as part of the resolution of the fault causing this fault.

Context:

This fault is only for informational purposes and requires no action other than the resolution of the active fault causing this fault to occur. One of the Exhaust Gas Regeneration (EGR) valve or related faults, active for more than **3.5 h**, will cause this fault to occur.

PREVIEW - YOUFIXTHIS.COM

E19108 (DTC613A)-DEF/AdBlue supply module pump motor short circuit to battery failure

Control Module : ECU

NOTE: When the cause of the fault code has been rectified, clear the fault code and test the system for normal operation.

Context:

The Engine Control Unit (ECU) **A-029B** monitors the **DIESEL EXHAUST FLUID (DEF)/AdBLUE®** supply pump **A-030B** circuit for a short to battery power condition. If the **A-029B** detects a short to battery power, this fault will occur.

Cause:

The **A-029B** has detected a short to battery power condition in the **A-030B** circuit.

Possible failure modes:

1. Faulty **A-030B** wiring.
2. Faulty **A-030B** internal failure.
3. Faulty **A-029B** 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 5.

2. Check the **A-030B** wiring for short to battery power condition.

Disconnect the **A-029B** connector **X-035-T4B**.

Disconnect the **A-030B** connector **X-037B**.

The ignition switch must be in the OFF position.

Use a multimeter to perform the following continuity checks:

From	To	Result
X-035-T4B (Female) pin 84 , wire T4B-055 (YE)	X-035-T4B (Female) pin 50 , wire T4B-048 (WH)	There should be no continuity
X-035-T4B (Female) pin 84 , wire T4B-055 (YE)	All other pins in connector X-035-T4B (Female)	There should be no continuity

A. If there is continuity, there is a short circuit condition in the **A-030B** wiring. Locate and repair the shorted conductor.

B. If there is no continuity, leave both connectors disconnected and continue to Step 3.

3. Check the **A-030B** wiring for short to ignition battery power condition.

The ignition switch must be in the ON position.

Use a multimeter to perform the following voltage check:

From	To	Result
X-035-T4B (Female) pin 84 wire T4B-055 (YE)	Chassis ground	Should be no voltage

- A. If it has been resolved, use the EST to perform the Engine Restart Counter Reset / Unlock Inducement configuration. See the corresponding configure menu in the EST. Then return the machine to service.
- B. If it has not been resolved, check the **A-029B** for the appropriate software and re-flash if necessary.
- 4. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while you monitor the display.
 - A. If you find damage or the display indicates other than normal display readings, then repair the damage discovered during the inspection or locate and repair the other than normal display condition and verify that the fault has been resolved.
 - B. If you do not find damage and the display indicates only normal readings, then erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 99 (55.100)

E3283 (DTC E32D)-ECU internal failure - Sensor 5 volt supply 2

Control Module : ECU

NOTE: When the cause of the fault code has been rectified, clear the fault code and test the system for normal operation.

Context:

The Engine Control Unit (ECU) **A-029B** provides three independent **5.0 V** voltage supplies for sensors. These voltages are monitored by hardware within the **A-029B** to make sure they are within a given range. If sensor supply 2 reference voltage is out of range, this fault will occur.

Cause:

The **A-029B** sensor supply 2 reference voltage is out of range.

Possible failure modes:

1. Faulty fuel filter clogging pressure sensor **B-9006** or sensor supply wire.
2. Faulty inlet water pump pressure sensor **B-9011** or sensor supply wire.

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 4.

2. The **B-9011** monitors this fault continuously. Disconnect each connector one at a time and use the EST to monitor the status of **E3283 (DTC E32D) - ECU internal failure - Sensor 5 volt supply 2**.

- Disconnect the **B-9006** at connector **X-9019**

- Disconnect the **B-9011** at connector **X-9027**

A. If **E3283 (DTC E32D) - ECU internal failure - Sensor 5 volt supply 2** is eliminated after a connector disconnection, the relevant component has failed. Replace the relevant component.

B. If **E3283 (DTC E32D) - ECU internal failure - Sensor 5 volt supply 2** has not been eliminated after connector disconnection, leave all of the connectors disconnected and continue to Step 3.

3. Check the all of the supply 2 circuits for a short circuit condition.

The ignition switch must be in the ON position.

Use a multimeter to perform the following voltage checks:

From	To	Result
X-9019 pin 3 , wire EN-037A (NC)	Chassis ground	Should be between 4.5 - 5.5 V
X-9027 pin 1 , wire EN-037B (NC)	Chassis ground	Should be between 4.5 - 5.5 V

A. If any of the circuits are not in the specified range, there is a short circuit condition in the relevant circuit. Locate and repair the shorted conductor.

B. If all of the circuits are within the specified range, check the **A-029B** for the appropriate software and re-flash if necessary.

E3756 (DTC E1DD)-ECU internal failure - Post injection quantity

Control Module : ECU

NOTE: When the cause of the fault code has been rectified, clear the fault code and test the system for normal operation.

Context:

Engine performance is assisted by the addition of pilot injections, main injections and three post injections. The Engine Control Unit (ECU) **A-029B** monitors the start angle and efficiency of post Injection 2. If the **A-029B** determines that the post Injection 2 is not within a plausible value, a calibration fault has occurred and this fault will occur.

Solution:

1. Check the **A-029B** for the appropriate software and re-flash if necessary.
 - A. If the fault has been resolved, return the machine to service.
 - B. If the fault has not been resolved, escalate an ASIST concern.

Feed roll - Install

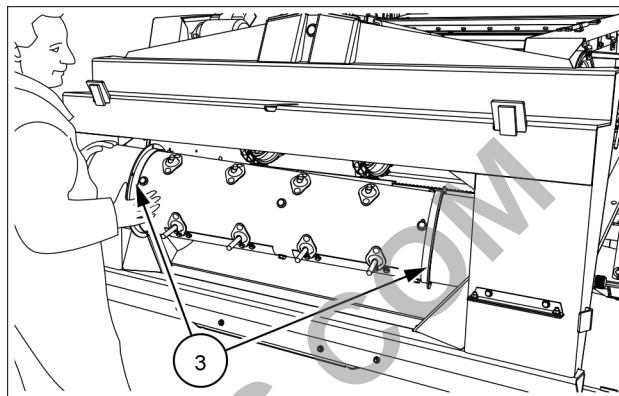
TC5.90 Hillside

WE

1. Make sure that the anti-wrap shields (**3**) are on the feed roll as shown.
2. Position the feed roll inside the feeder as shown (left-hand side first). Ask a second person to assist or use a suitable lifting device.

NOTE: The approximate weight of the feed roll is **75 kg (165.3 lb)**.

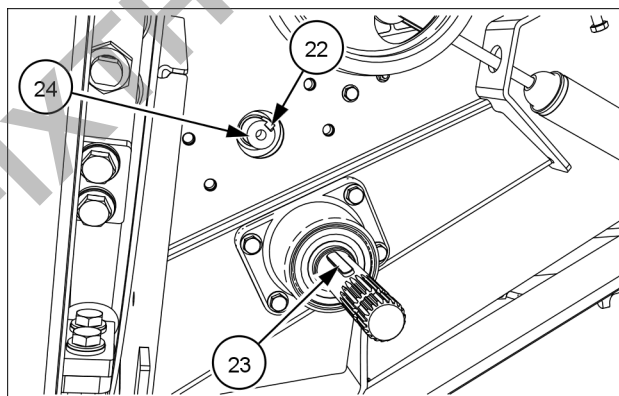
3. Inside the feeder, support the feed roll with wooden blocks to align the feed roll with the holes.



ZEIL16TC00041AA 1

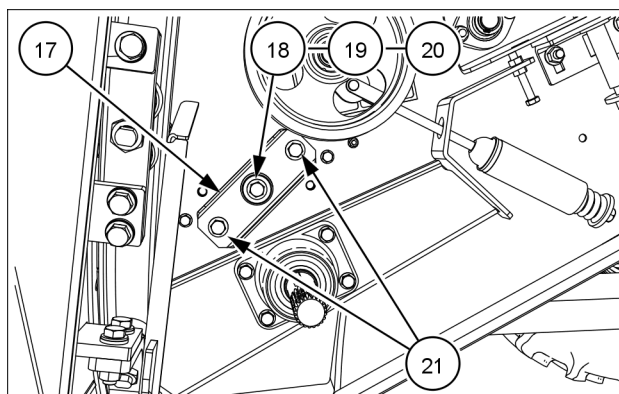
On the left-hand side:

4. Install the key (**22**) on the feed roll crankshaft (**24**).
5. Install the key (**23**) on the lower header drive shaft.



ZEIL16TC00038AA 2

6. Install the support (**17**) on the feed roll crankshaft. Use the hardware (**21**).
7. Install the bushing (**18**), the lock washer (**19**) and the bolt (**20**).



ZEIL16TC00037AA 3

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