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TC5040 [9622 -] , TC5050 [9622 -] , TC5060 [9622 -] , TC5070 [9622 -] , TC5070 , TC5080 Hillside , TC5080 [9622 -] , TC5080

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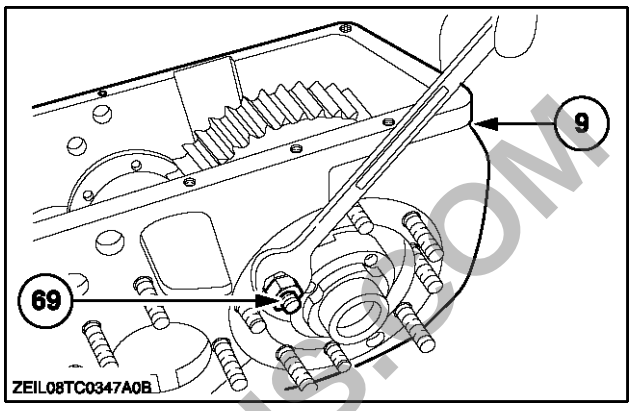
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Gearbox housing - Disassemble

TC5040, TC5050, TC5060

NOTE: *Refer to* ***Driven shaft - Exploded view (21.145)*** *and* ***Differential - Exploded view (21.182)****.*

1. Remove the studs **(69)** of the gearbox **(9)**.

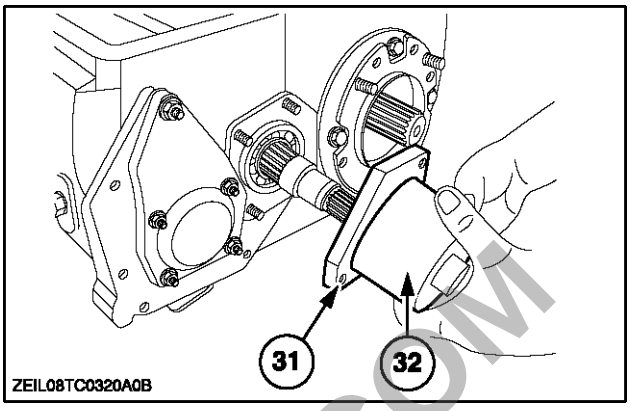


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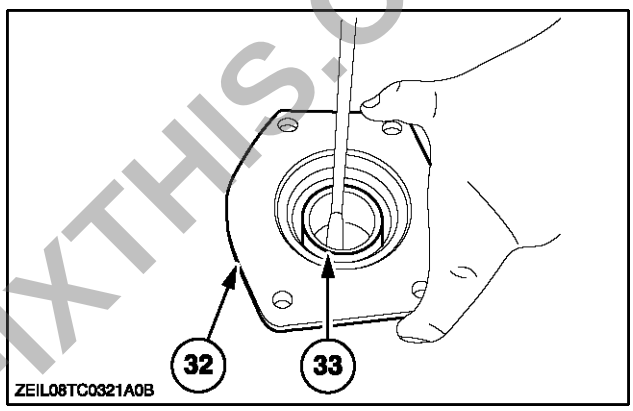
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3. Loosen the nuts **(31)**, remove the front carrier **(32)** together with the shims **(116)**.



ZEIL08TC0320A0B 3

4. Remove the shaft seal **(33)** from the front carrier **(32)** using a screw driver.

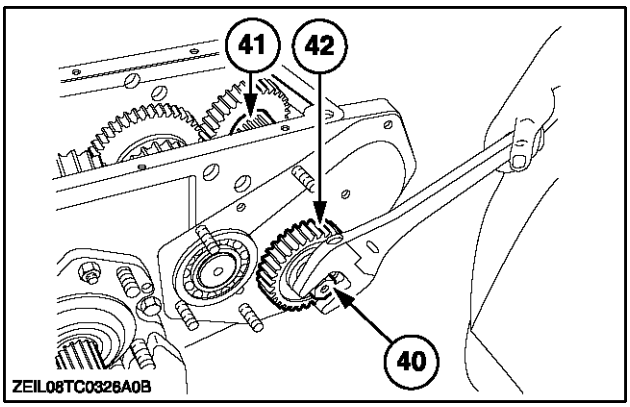


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TC5040 and TC5060

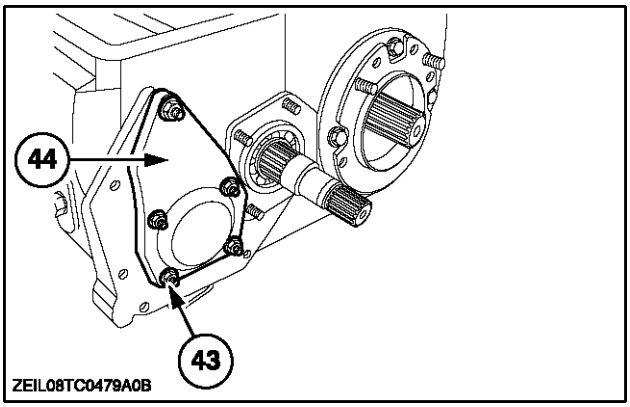
NOTE: *For more details, refer to* ***Drive shaft Intermediate shaft - Exploded view (21.145)***

5. Loosen the nut **(40)** from the input shaft **(41)** and remove the gear **(42)**.



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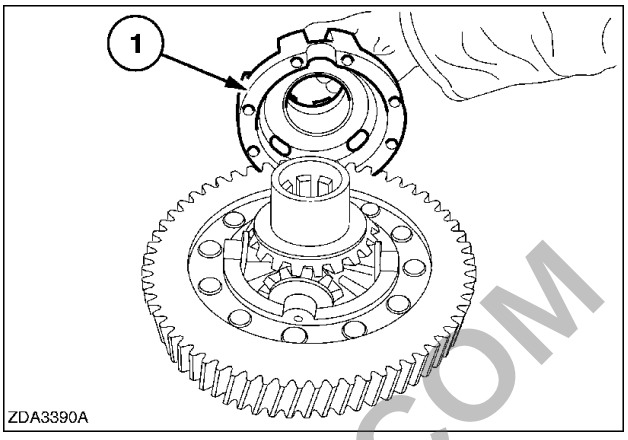
6. Loosen the nuts **(43)** and remove the cover **(44)**. Remove the shims **(100)**from the cover **(44)**.
For more details, refer to **Driven shaft - Exploded view (21.145)**.



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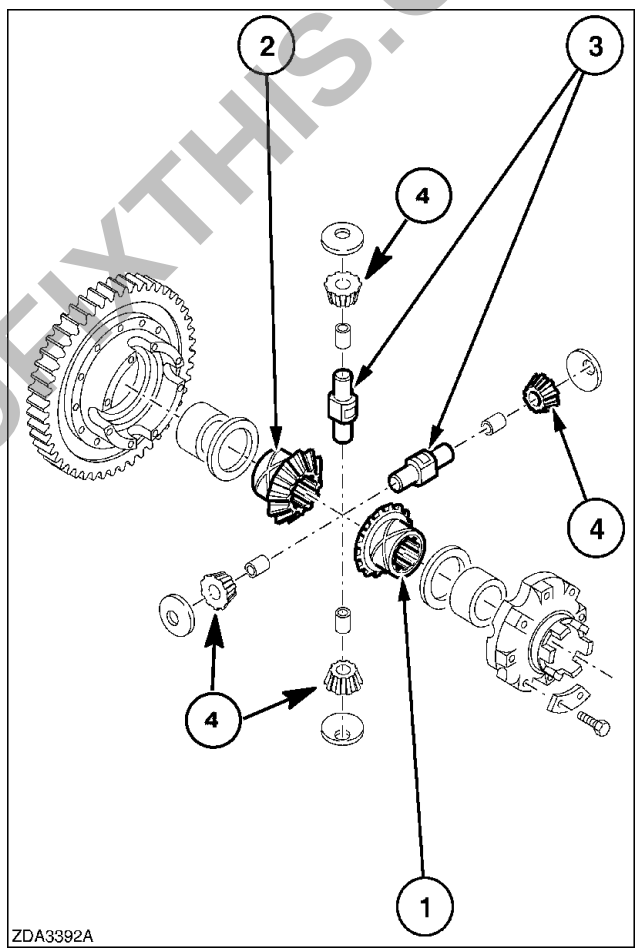
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4. Remove the upper part **(1)** of the differential housing.



ZDA3390A 4

5. Remove the differential output gear **(1)**.
Remove the two planet gear shafts **(3)** with the planet gears **(4)**.
Remove the differential output gear **(2)**.



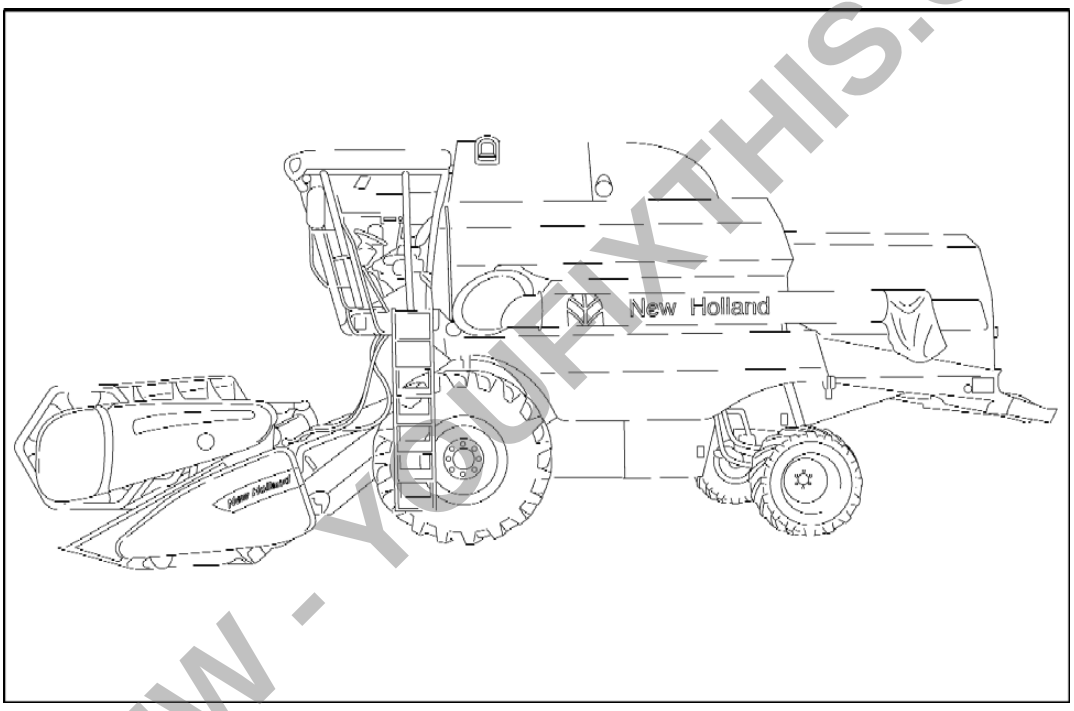
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SERVICE MANUAL

Rear axle system



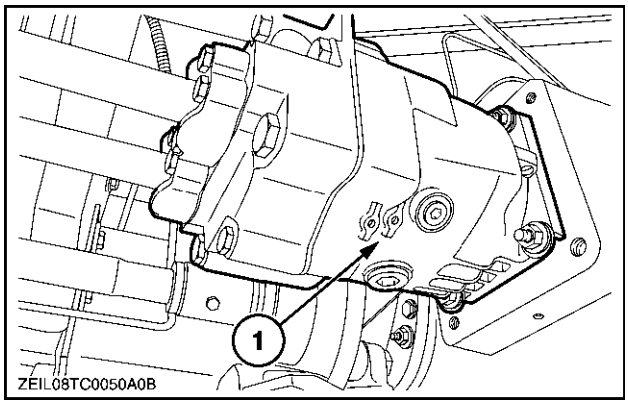
TC5040 [9622 -] , TC5050 [9622 -] , TC5060 [9622 -] , TC5070 [9622 -] , TC5070 , TC5080 Hillside , TC5080 [9622 -] , TC5080

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Hydrostatic drive motor

The hydrostatic motor **(1)** is mounted to the main transmission and is driven hydraulically by the hydrostatic pump. The hydrostatic motor supplies the drive input to the main transmission.



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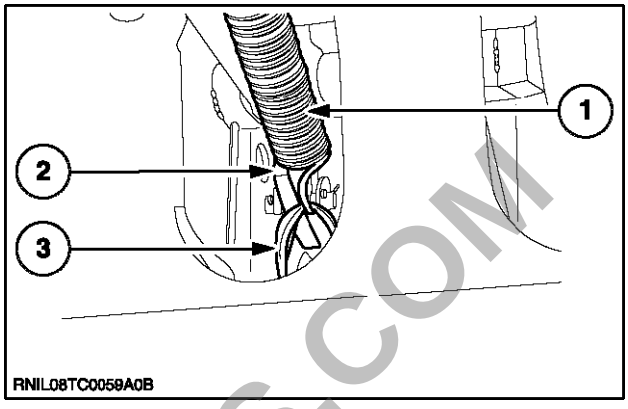
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Brake pedals - Adjust

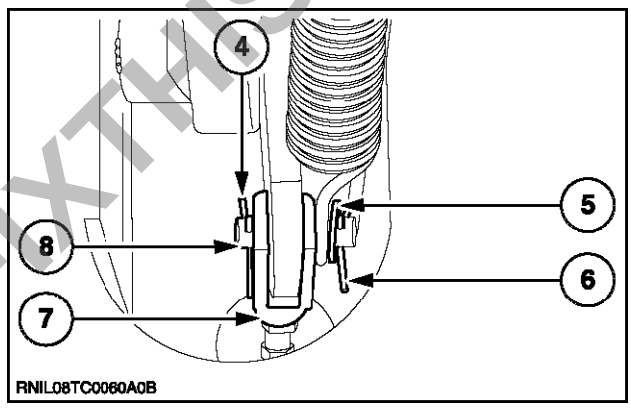
TC5040, TC5050, TC5060, TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

1. Disconnect the spring **(1)** of the both brake pedals **(2)**, using a rope **(3)**.



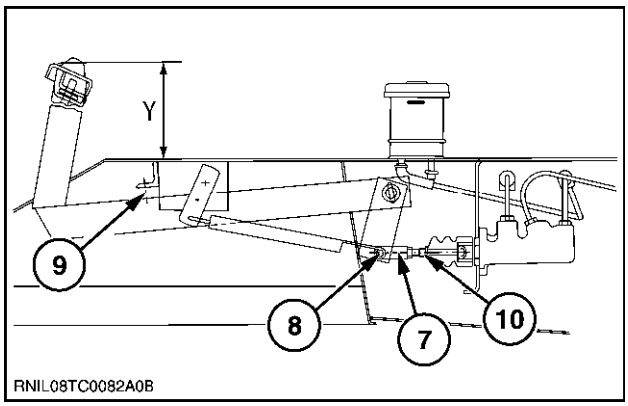
RNIL08TC0059A0B 1

2. Remove the cotter pins **(4)** and **(6)**, the washer **(5)**, the pin **(8)** and disconnect the fork **(7)** of the both pedals.

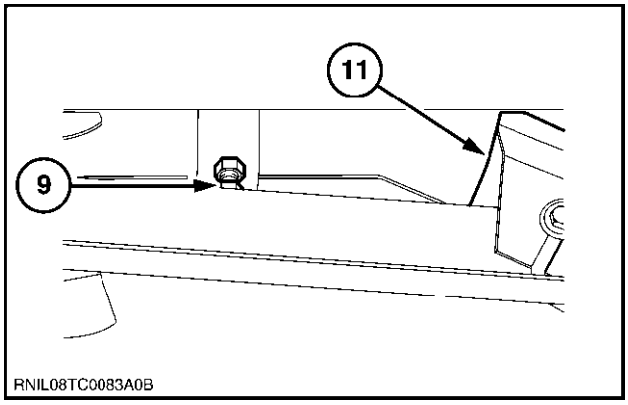


RNIL08TC0060A0B 2

3. Adjust the height of the pedal Y = **224 mm** (**8.8 in**) with the adjusting screw **(9)** (the rubber **(11)** should be pressed lightly to the frame see fig. **4**).
Take out the rod **(10)** and adjust the fork **(7)** until the pin **(8)** can be fitted easily.
The empty travel should be **50 - 60 mm** (**2.0 - 2.4 in**).



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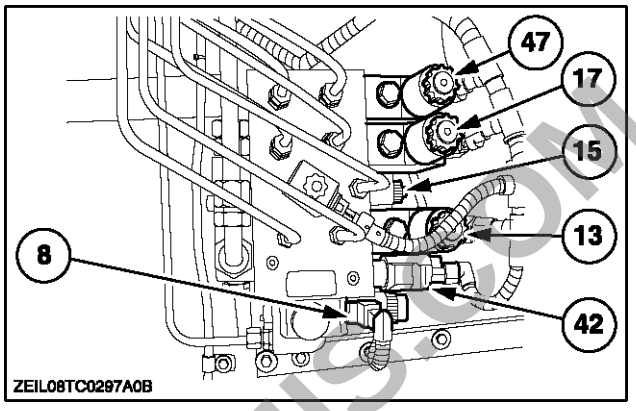
RNIL08TC0083A0B 4

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Operation of the unloading tube valve (13) and the reel horizontal adjustment valve (17)

When switching one of these valves, the pilot valve is activated as well to connect the pressure line with the load sensing line and close the load sensing spool. Full oil flow is available towards the hydraulic cylinder.
Lockout valves are installed in the connections towards the cylinder.



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Reel hydraulic pump - General specification

TC5070 [9622 -], TC5080 [9622 -], TC5070, TC5080

Type	Silence gear type
Direction of rotation	Right-hand rotation
Pump speed	**2106 rpm**
Output per revolution	**16 cc/rev**
Maximum oil flow (engine @ **2100 RPM**)	**33.6 l/min** (**8.9 US gpm**)

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Air conditioning - Pre delivery inspection

TC5040, TC5050, TC5060, TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

1. Keep door and window closed.
2. Use the air-conditioning as much as possible.
3. Use the air-conditioning only with the ventilator in position I or II.
4. Control the desired temperature with the air-conditioning knob (thermostat).
5. Regularly pay attention to the following:
   The status of the sight glass and the moisture indicator.
   The cleanliness of the condenser and evaporator.
   The cleanliness of the air intake filters.
   The cleanliness of the air recycling filter.
   The water dropping at the drain tubes.

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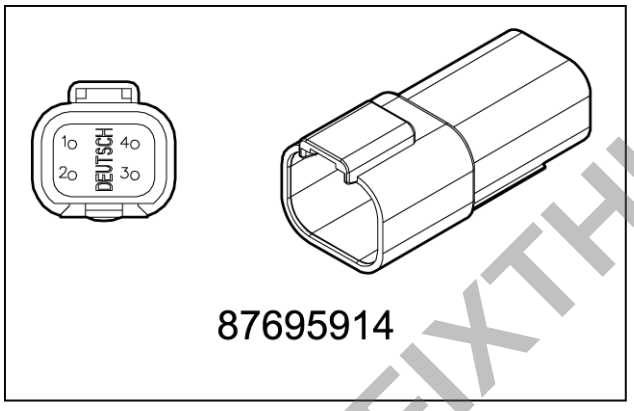
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CONNECTOR X-017MECH

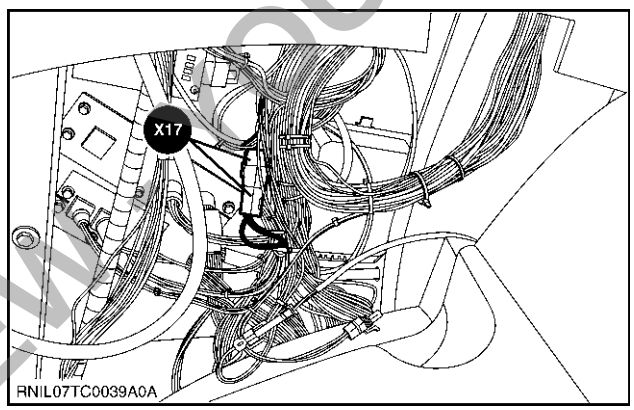
CONNECTOR X-017MECH Between connector TCM engagement control (mechanical engagement)			
Position	**Wire number**	**Circuit reference**	**Electrical schematic frame**
1	307 (WH)	To X-003-5	**Wire harnesses - Electrical schematic frame 23 (55.100)**
2	378 (OR)	To SP-378	
3	223 (WH)	To X-003-6	
4	-	-	-

NOTE: *For the wiring color code refer to,* ***Electrical system - Electrical standard (55.000)****.*



87695914 17

NOTE: *For connector service tools refer to,* ***Electrical system - Special tools 3 (55.000)****.*



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Inside cab - right-hand side (under fuse print)

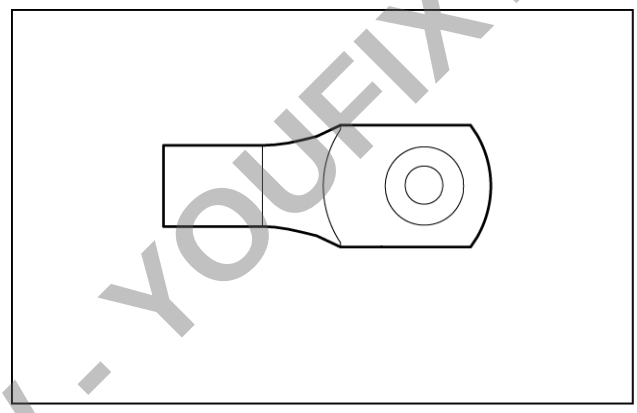
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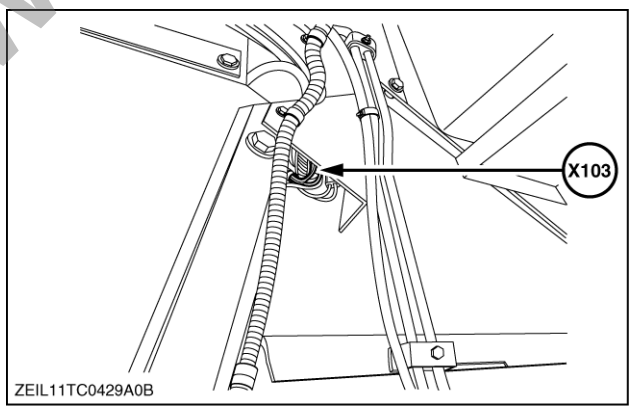
CONNECTOR X-103

CONNECTOR X-103 Ground straw walker panel right-hand			
Position	**Wire number**	**Circuit reference**	**Electrical schematic frame**
-	414 (BK)	From SP-008	**Wire harnesses - Electrical schematic frame 06 (55.100)**
-	414 (BK)	From E-041 (plate illumination)	**Wire harnesses - Electrical schematic frame 45 (55.100)**
-	525 (BK)	From E-005 (direction indicator light right on straw hood)	**Wire harnesses - Electrical schematic frame 47 (55.100)**
-	526 (BK)	From E-006 (direction indicator light right on arm)	
-	528 (BK)	From E-003 (direction indicator light left on arm)	
-	529 (BK)	From E-004 (direction indicator light left on straw hood)	
-	523 (BK)	From X-030-31	**Wire harnesses - Electrical schematic frame 49 (55.100)**

NOTE: *For the wiring color code refer to,* ***Electrical system - Electrical standard (55.000)****.*



RING TERMINAL 5



ZEIL11TC0429A0B 6

Mid right-hand side

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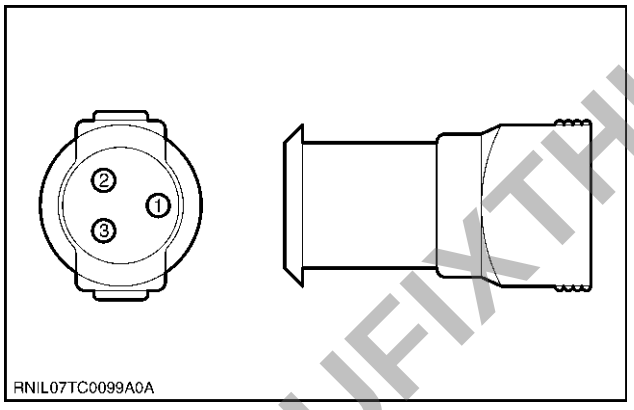
Wire harnesses - Component diagram 22

TC5040, TC5050, TC5060, TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

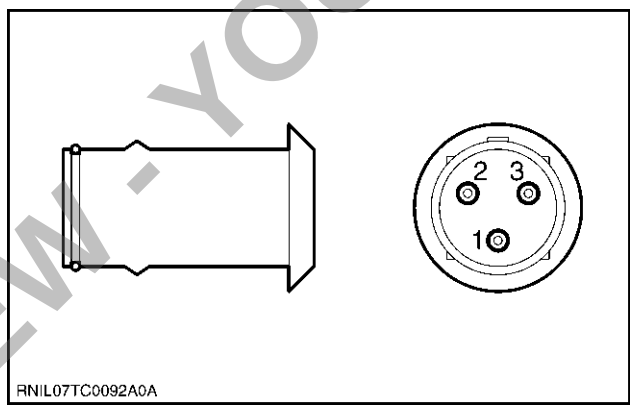
CONNECTOR X-220

CONNECTOR X-220 Stubble light right			
Position	**Wire number**	**Circuit reference**	**Electrical schematic frame**
1	-	-	-
2	358 (PU)	To E-035 stubble light right	**Wire harnesses - Electrical schematic frame 48 (55.100)**
3	166 (BK)		

NOTE: *For the wiring color code refer to,* ***Electrical system - Electrical standard (55.000)****.*

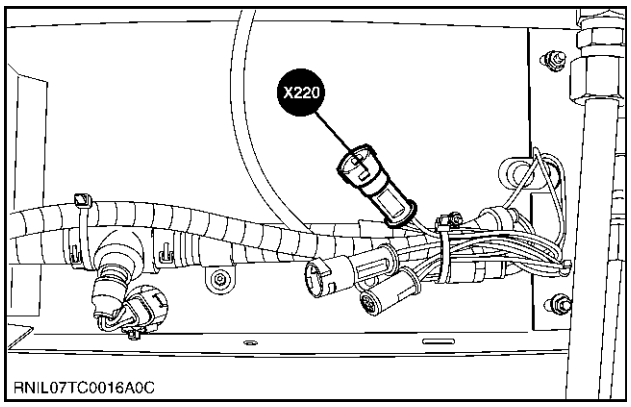


RNIL07TC0099A0A 1



RNIL07TC0092A0A 2

NOTE: *For connector service tools refer to,* ***Electrical system - Special tools 2 (55.000)****.*



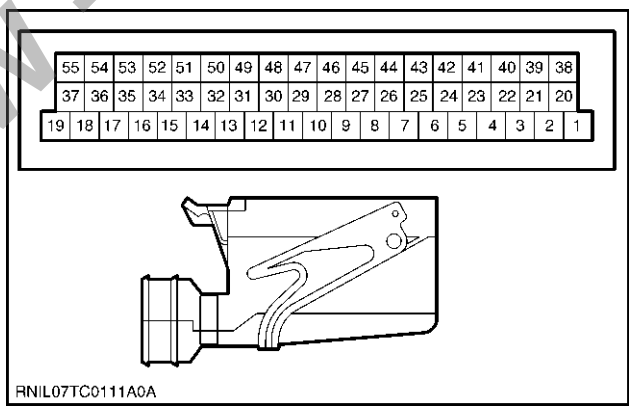
RNIL07TC0016A0C 3

Front right-hand side

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CONNECTOR X-690 Header height control box			
Position	**Wire number**	**Circuit reference**	**Electrical schematic frame**
32	442 (GR)	To X-686-15	**Wire harnesses - Electrical schematic frame 35 (55.100)**
33	443 (WH)	To X-686-17	
34	200 (WT)	To X-686-10	
35	509 (BL)	To X-686-2	
36	445 (GR)	To X-677-2	
37	518 (WH)	To X-686-14	
38	734 (BL)	To B-043-2 (**Autofloat™** pressure sensor)	**Wire harnesses - Electrical schematic frame 36 (55.100)**
39	758 (PK)	To SP-758	
40	-	-	-
41	521 (BL)	To X-686-3	**Wire harnesses - Electrical schematic frame 35 (55.100)**
42	-	-	-
43	-	-	-
44	-	-	-
45	-	-	-
46	731 (WH)	To Y-059 (**Autofloat™** compensation valve)	**Wire harnesses - Electrical schematic frame 36 (55.100)**
47	-	-	-
48	-	-	-
49	-	-	-
50	-	-	-
51	512 (BL)	To X-686-4	**Wire harnesses - Electrical schematic frame 35 (55.100)**
52	-	-	-
53	-	-	-
54	-	-	-
55	-	-	-

NOTE: *For the wiring color code refer to,* ***Electrical system - Electrical standard (55.000)****.*



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NOTE: *For connector service tools refer to,* ***Electrical system - Special tools 5 (55.000)****.*

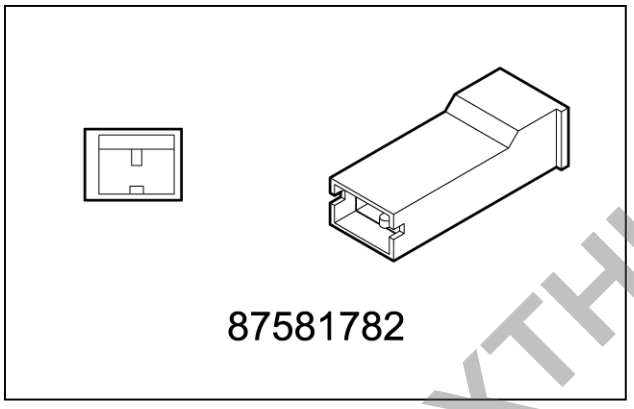
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CONNECTOR X-822

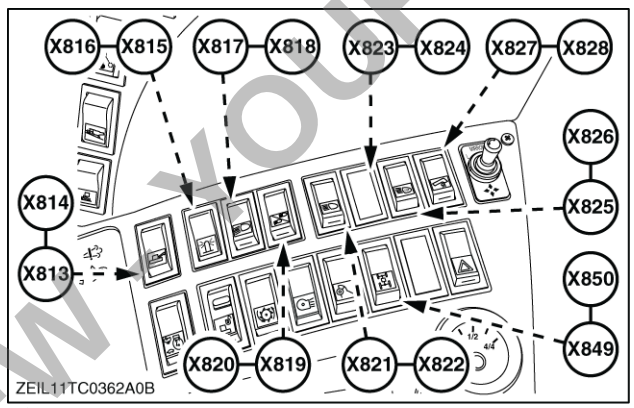
CONNECTOR X-822 Connector switch light (work lights)			
Position	**Wire number**	**Circuit reference**	**Electrical schematic frame**
1	066 (BK)/ 108 (BK)	To X-820-1/X-824-1 (ground)	**Wire harnesses - Electrical schematic frame 48 (55.100)**

NOTE: *For the wiring color code refer to,* ***Electrical system - Electrical standard (55.000)****.*



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NOTE: *For connector service tools refer to,* ***Electrical system - Special tools 2 (55.000)****.*



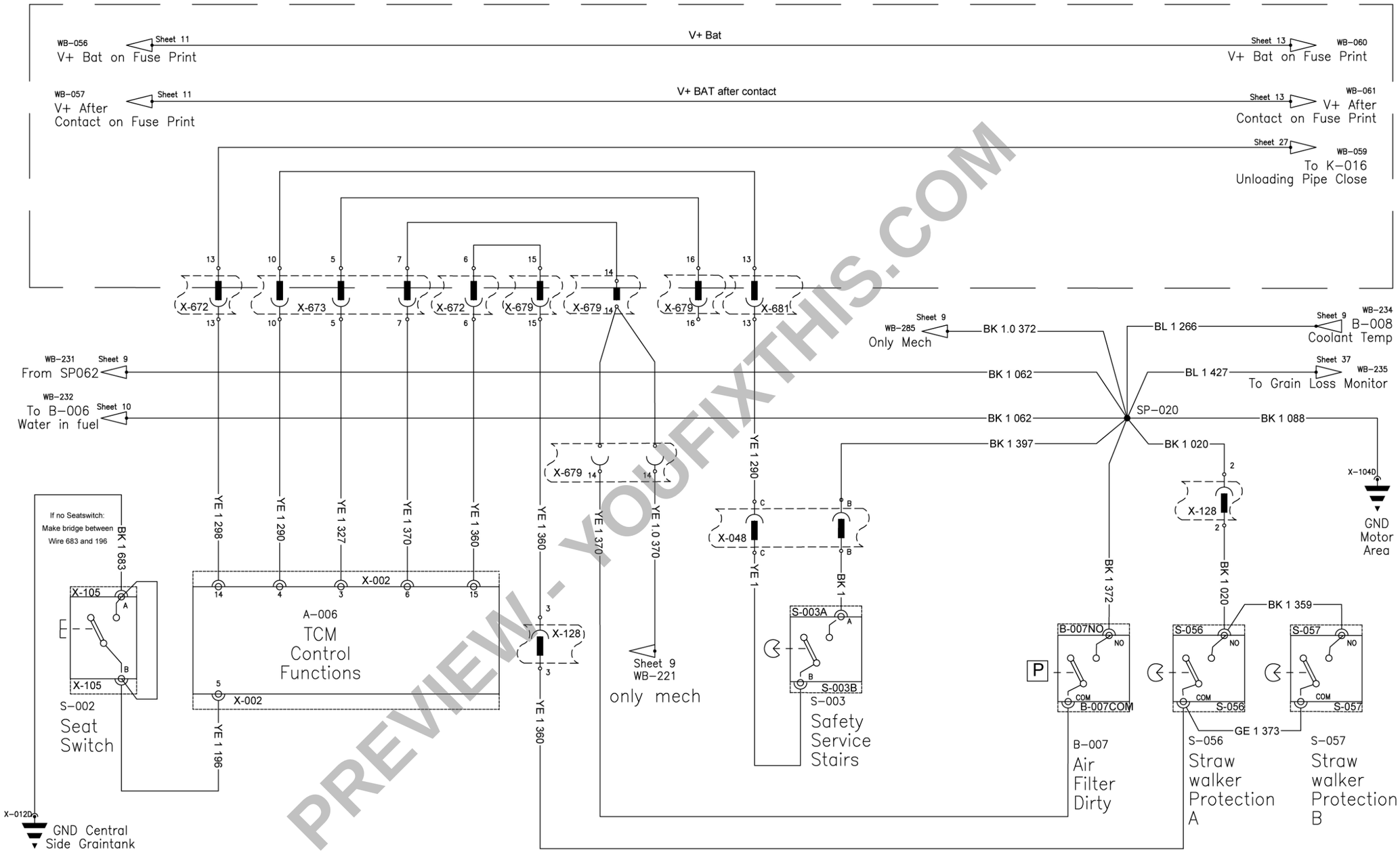
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Inside cab - right-hand side (RHM)

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12a



Alarm Functions (2)

ZEIL11TC0375J0A

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Wire harnesses - Electrical schematic frame 41

TC5080 Hillside

41a	HILLSIDE MACHINE (1)
	TC5080 Hillside 9622 > ….

Code	Description
A-041	Operating control box
S-105	Switch manual lateral levelling
S-106	Switch hillside end of stroke right up
S-107	Switch hillside end of stroke left up
X-012H	Ground central side grain tank
X-216	Connector - operating control box
X-678	Connector fuse print

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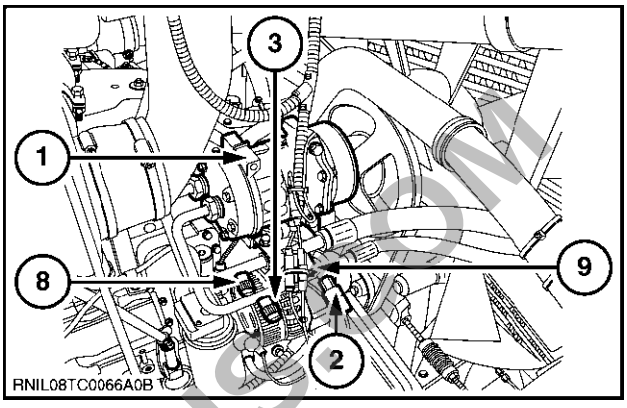
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Air-conditioning system control Limit switch - Install

TC5070, TC5080, TC5070, TC5080, TC5080 Hillside

High pressure switch

1. Install the high pressure switch **(2)** into the system.



RNIL08TC0066A0B 1

2. Recharge the refrigerant system in accordance with the Recharge/Refilling procedure **Air conditioning - Filling (50.200)**.

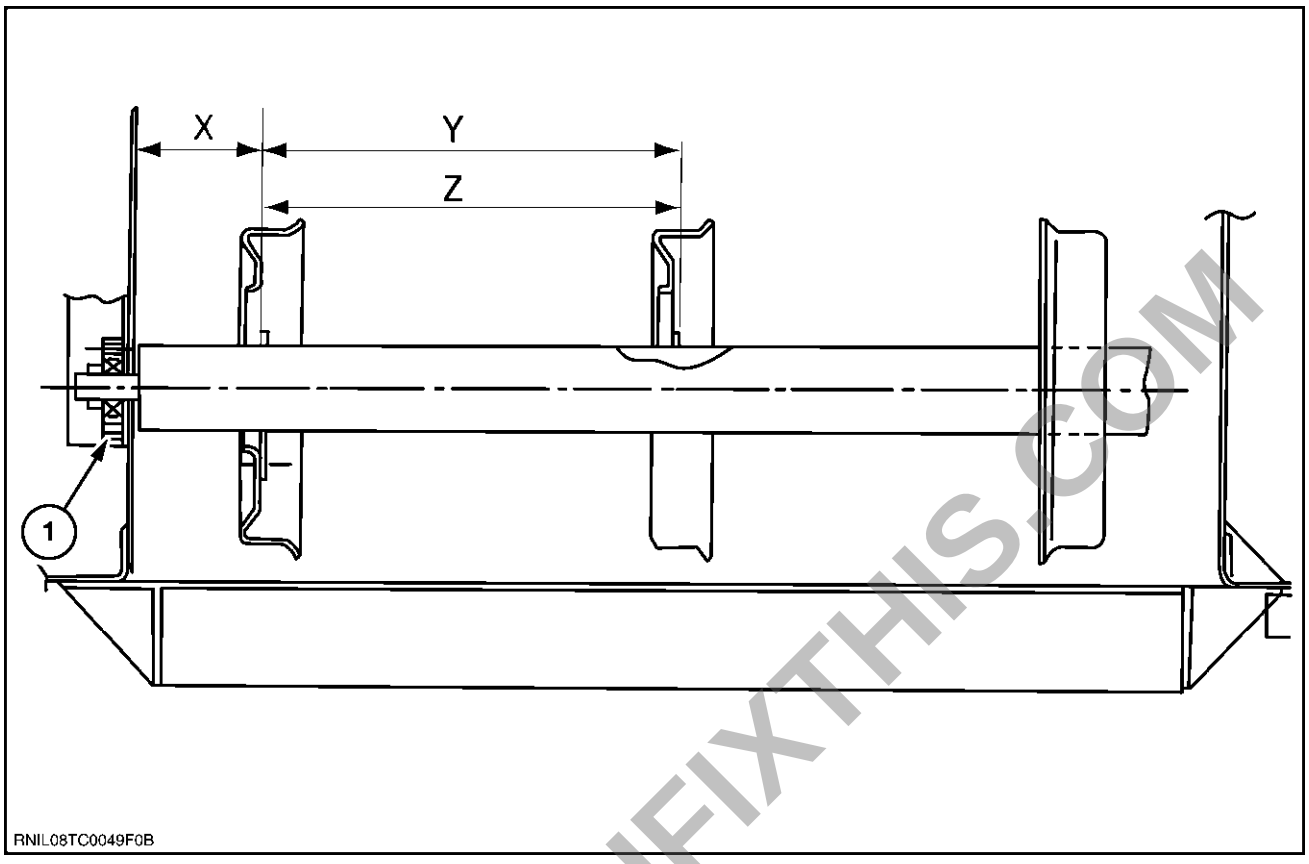
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Message	Description	Controller
F596	Open oil pressure sensor	
F705	Atmospheric pressure sensor	
F384	Battery voltage sensing	DCU
F384	Battery voltage sensing	DCU
F385	Temperature sensor after catalyst	DCU
F385	Temperature sensor after catalyst	DCU
F386	Temperature sensor before catalyst	DCU
F386	Temperature sensor before catalyst	DCU
F387	Sensor supply 2 (5V internal; for UREA pressure sensors)	DCU
F387	Sensor supply 2 (5V internal; for UREA pressure sensors)	DCU
F388	UREA pressure sensor in box	DCU
F388	UREA pressure sensor in box	DCU
F388	UREA pressure sensor in box	DCU
F389	UREA temperature sensor in box	DCU
F389	UREA temperature sensor in box	DCU
F390	Voltage supply internal heaters 1 (UB1)	DCU
F390	Voltage supply internal heaters 1 (UB1)	DCU
F391	Voltage supply 2 - tube heaters (UB2)	DCU
F391	Voltage supply 2 - tube heaters (UB2)	DCU
F391	Voltage supply 2 - tube heaters (UB2)	DCU
F392	Voltage supply 3 - Coolant control valve and reverting valve (UB3)	DCU
F392	Voltage supply 3 - Coolant control valve and reverting valve (UB3)	DCU
F392	Voltage supply 3 - Coolant control valve and reverting valve (UB3)	DCU
F393	Monitoring VDD11 voltage - Dosing valve	DCU
F393	Monitoring VDD11 voltage - Dosing valve	DCU
F394	Urea level sensor	DCU
F394	Urea level sensor	DCU
F394	Urea level sensor	DCU
F395	UREA temperature sensor in tank	DCU
F395	UREA temperature sensor in tank	DCU
F396	Dosing valve	DCU
F396	Dosing valve	DCU
F396	Dosing valve	DCU
F396	Dosing valve	DCU
F397	Urea pump speed	DCU
F397	Urea pump speed	DCU
F397	Urea pump speed	DCU
F397	Urea pump speed	DCU
F398	Cooling control valve short circuit to battery or open load	DCU
F398	Cooling control valve short circuit to battery or open load	DCU
F399	Cooling control valve short circuit to ground	DCU
F400	Reverting valve	DCU
F400	Reverting valve	DCU
F400	Reverting valve	DCU

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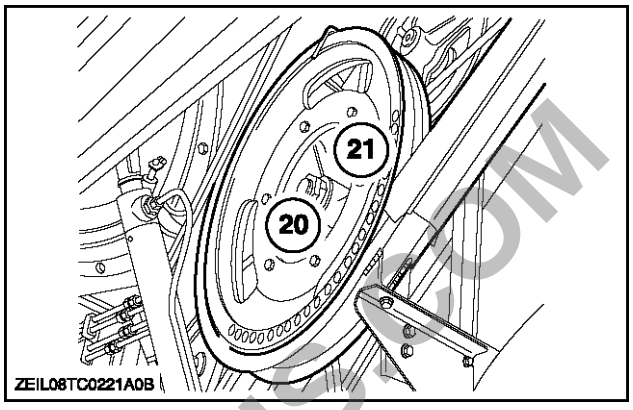
4. Install the stud bolts **(8)** and **(6)** on both sides.
5. Install the plate on the front part of the straw elevator.
6. Adjust the compensation springs **(7)** of the bottom shaft to a length of **112 mm** (**4.4 in**) or **89 mm** (**3.5 in**) for maize.

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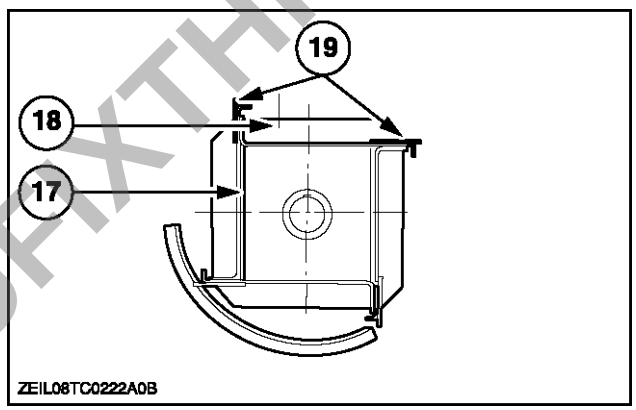
On the left-hand side, in sequence:

9. Remove the hinged guard.
10. Remove the drive belt **(7)** of the eccentric shaft.
11. Remove the six bolts **(20)** and the pulley **(21)**.



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12. Remove the beater parts (access to the grain tank) in the following order:
    - All stripper plates **(19)**.
    - The cover plates **(18)**.
    - Both headed keys **(10)**.



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13. Remove the left bearing **(11)**.
14. Remove the four fastening bolts on the right bearing housing **(12)** and take out the beater shaft with the bearing, pushing to the right.

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Cleaning - 74

Cleaning drive systems - 101

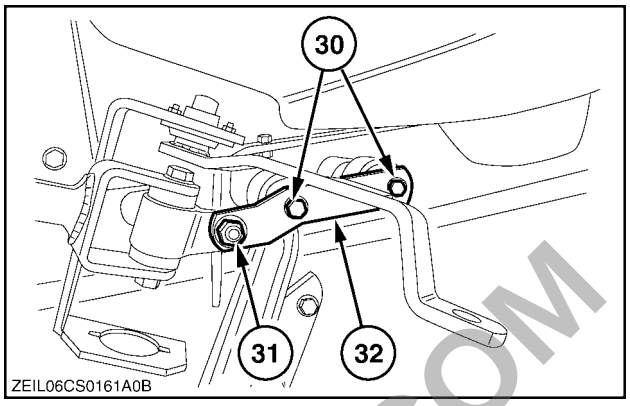
TC5040 [9622 -] , TC5050 [9622 -] , TC5060 [9622 -] , TC5070 [9622 -] , TC5070 , TC5080 Hillside , TC5080 [9622 -] , TC5080

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6. Install the plate **(32)** with the bolts and the lock washers **(30)**.

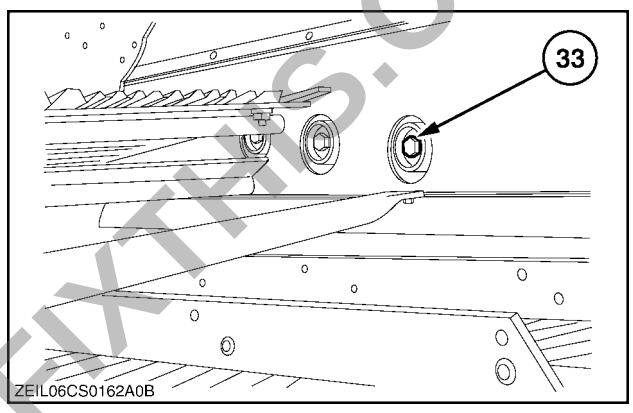
7. Adjust the position of the hinge joint **(38)** (see fig. **4**) towards the plate **(32)** and install the bolts, the lock washers and the nuts **(31)**.



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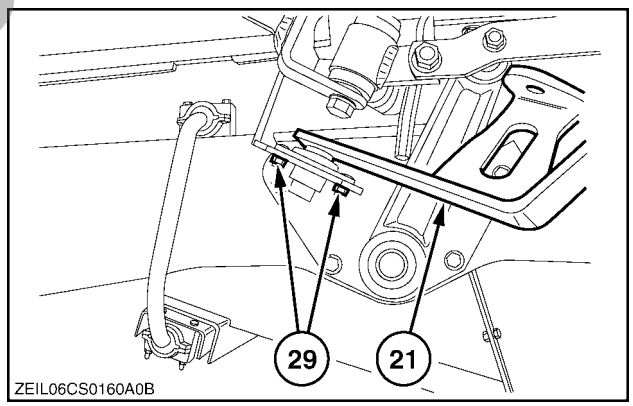
8. At the inside, install the bolt **(33)** and the lock washer and tighten in place.

NOTE: *Install the bolt **(33)** with thread locking compound, **LOCTITE® 242**, **OMNIFIT 50M** or **PERMABOND® 113**.*



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9. Install the bracket and bearing assembly **(21)** in place with the carriage bolts, the lock washers and the nuts **(29)**.

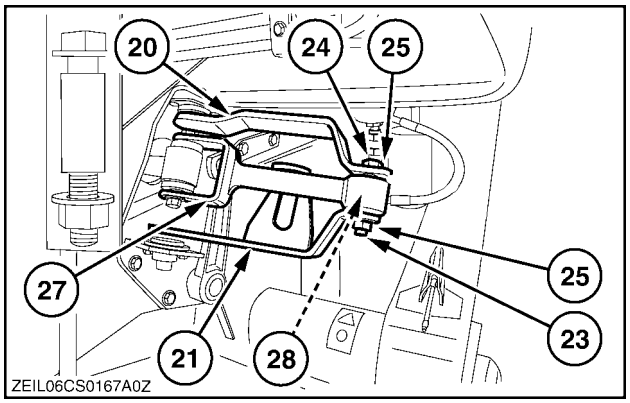


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10. Move the brackets **(20)** and **(21)** in the bearings **(35)** (see fig. **2**) to install the arm **(27)** between the brackets **(20)** and **(21)** using the bolt **(24)**, the lock washers **(25)**, the bushing **(28)** and the nut **(23)**.

NOTE: *For easy installing the levelling system actuator, tighten this connection after you have installed the actuator (refer to **Leveling system motor - Install (55.834)**).*

11. Lock the bearings **(35)** from the brackets **(20)** and **(21)** in place with the lock collars **(36)** (see fig. **2**).



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