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RB545 Silage Pack
Round baler

SERVICE MANUAL

Part number 48126528
English
April 2017
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CASE IH AGRICULTURE

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Safety rules

RB545 SP	

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation that, if not avoided, could result in machine or property damage.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information that clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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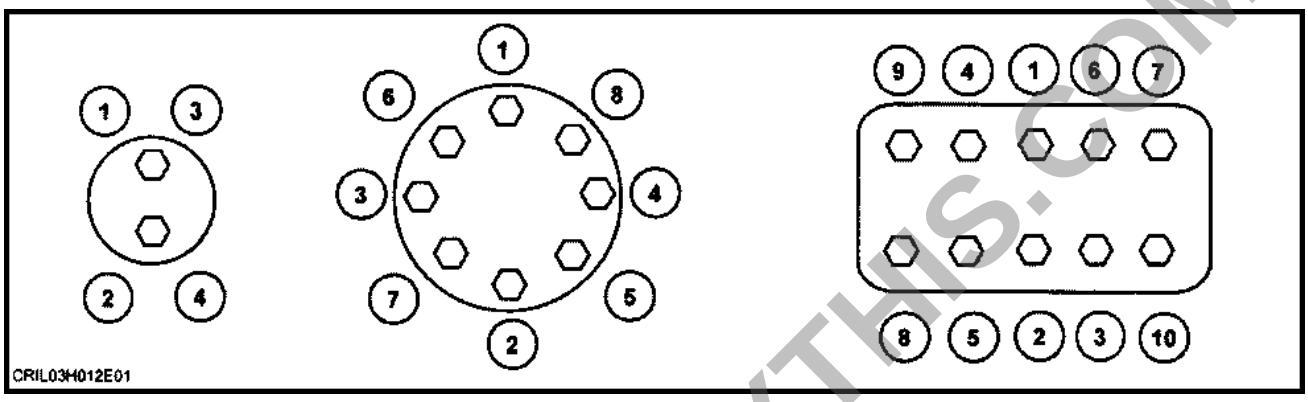
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Torque

Minimum hardware tightening torques (in N m or lb in /lb ft) for normal assembly applications unless otherwise stated

NOTICE: *Shown below is the suggested initial torque tightening sequences for general applications, tighten in sequence from item 1 through to the last item of the hardware.*

The minimum hardware tightening torque on drawings, in specifications etc. have priority.
The applicable CNH Standard is ENS7001.

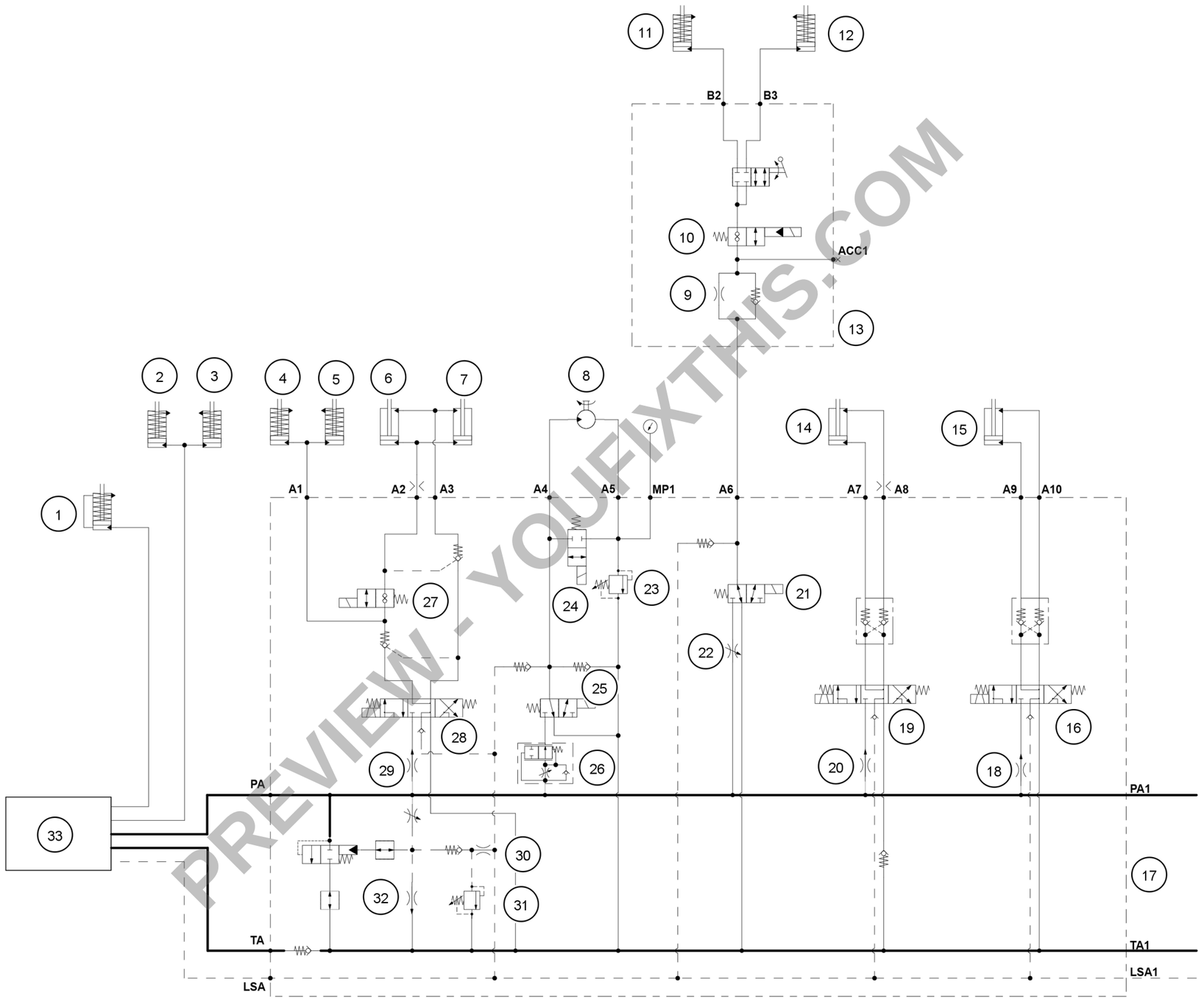


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Metric hardware

	Class 8.8 in N m (lb in or lb ft)			Class 10.9 in N m (lb in or lb ft)		
Nominal Size	Plated nut	Lock nut	Hardened nut	Plated nut	Lock nut	Hardened nut
M3	1.3 N·m (11.5 lb in)	0.7 N·m (6.2 lb in)	1.2 N·m (10.6 lb in)	1.8 N·m (15.9 lb in)	0.9 N·m (8.0 lb in)	1.6 N·m (14.2 lb in)
M4	2.9 N·m (25.7 lb in)	1.6 N·m (14.2 lb in)	2.6 N·m (23.0 lb in)	4.2 N·m (37.2 lb in)	2.3 N·m (20.4 lb in)	3.7 N·m (32.7 lb in)
M5	5.9 N·m (52.2 lb in)	3.2 N·m (28.3 lb in)	5.3 N·m (46.9 lb in)	8.5 N·m (75.2 lb in)	4.6 N·m (40.7 lb in)	7.6 N·m (67.3 lb in)
M6	10.1 N·m (89.4 lb in)	5.5 N·m (48.7 lb in)	9.1 N·m (80.5 lb in)	14.5 N·m (10.7 lb ft)	7.9 N·m (69.9 lb in)	13 N·m (9.6 lb ft)
M8	24.5 N·m (18.1 lb ft)	13.5 N·m (10.0 lb ft)	22 N·m (16.2 lb ft)	35.1 N·m (25.9 lb ft)	19.3 N·m (14.2 lb ft)	31.5 N·m (23.2 lb ft)
M10	48.7 N·m (35.9 lb ft)	26.8 N·m (19.8 lb ft)	43.8 N·m (32.3 lb ft)	69.5 N·m (51.3 lb ft)	38.2 N·m (28.2 lb ft)	62.5 N·m (46.1 lb ft)
M12	85 N·m (62.7 lb ft)	46.7 N·m (34.4 lb ft)	76.5 N·m (56.4 lb ft)	121 N·m (89.2 lb ft)	66.5 N·m (49.0 lb ft)	108.9 N·m (80.3 lb ft)
M14	135 N·m (99.6 lb ft)	74.2 N·m (54.7 lb ft)	121.5 N·m (89.6 lb ft)	193 N·m (142.3 lb ft)	106.1 N·m (78.3 lb ft)	173.7 N·m (128.1 lb ft)
M16	210 N·m (154.9 lb ft)	115.5 N·m (85.2 lb ft)	189 N·m (139.4 lb ft)	301 N·m (222 lb ft)	165.5 N·m (122.1 lb ft)	270.9 N·m (199.8 lb ft)
M18	299 N·m (220.5 lb ft)	164.4 N·m (121.3 lb ft)	269.1 N·m (198.5 lb ft)	414 N·m (305.4 lb ft)	227.7 N·m (167.9 lb ft)	372.6 N·m (274.8 lb ft)
M20	425 N·m (313.5 lb ft)	233.72 N·m (172.4 lb ft)	382.5 N·m (282.1 lb ft)	587 N·m (432.9 lb ft)	322.8 N·m (238.1 lb ft)	528.3 N·m (389.7 lb ft)
M22	579 N·m (427 lb ft)	318.4 N·m (234.8 lb ft)	521.1 N·m (384.3 lb ft)	801 N·m (590.8 lb ft)	440.5 N·m (324.9 lb ft)	720.9 N·m (531.7 lb ft)
M24	735 N·m (542.1 lb ft)	404.2 N·m (298.1 lb ft)	661.5 N·m (487.9 lb ft)	1016 N·m (749.4 lb ft)	558.8 N·m (412.1 lb ft)	914.4 N·m (674.4 lb ft)
M27	1073 N·m (791.4 lb ft)	590.1 N·m (435.2 lb ft)	967.5 N·m (713.6 lb ft)	1486 N·m (1096 lb ft)	817.3 N·m (602.8 lb ft)	1337 N·m (986.1 lb ft)
M30	1461 N·m (1077.6 lb ft)	803.5 N·m (592.6 lb ft)	1315 N·m (969.9 lb ft)	2020 N·m (1489.9 lb ft)	1111 N·m (819.4 lb ft)	1818 N·m (1340.9 lb ft)

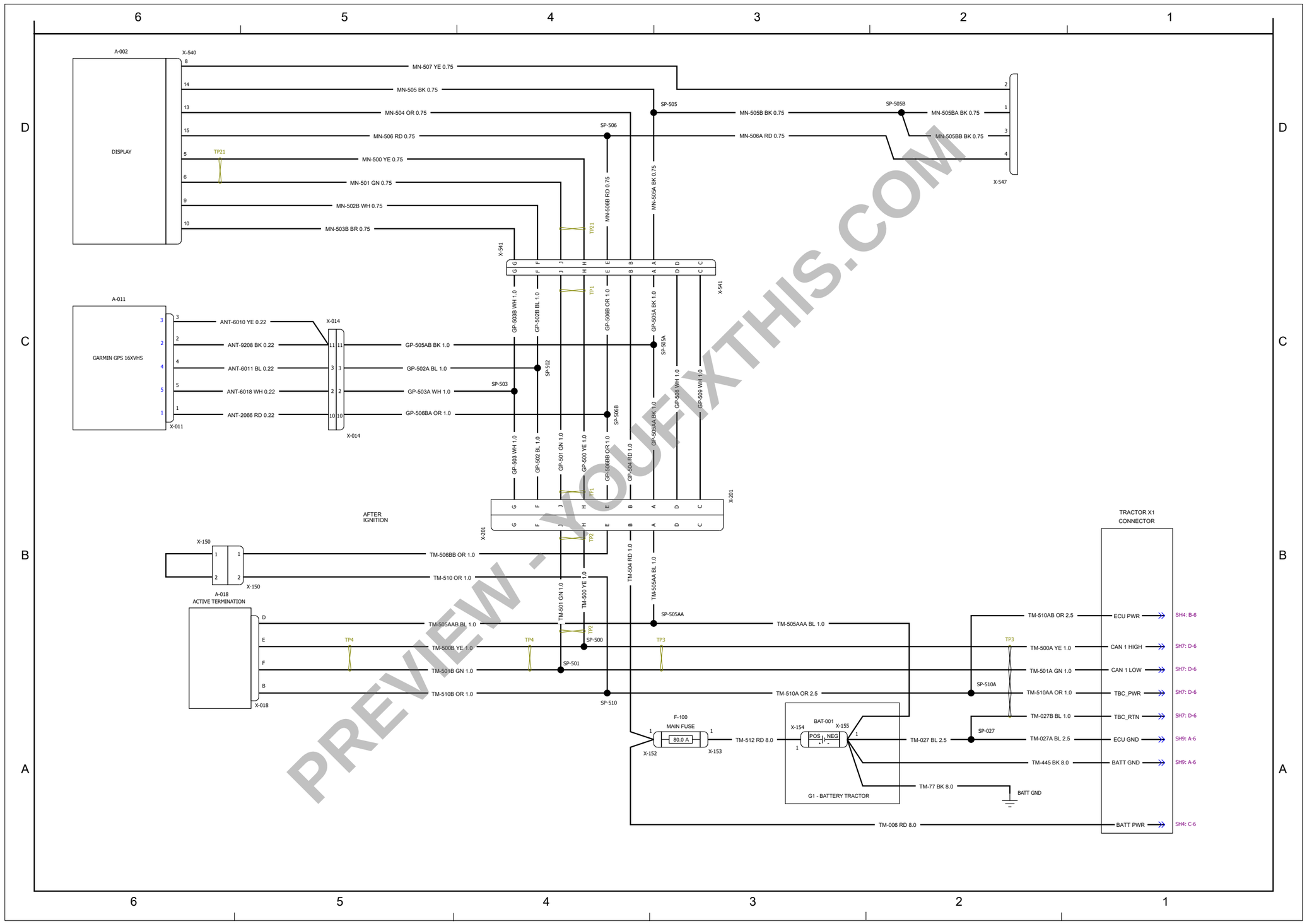
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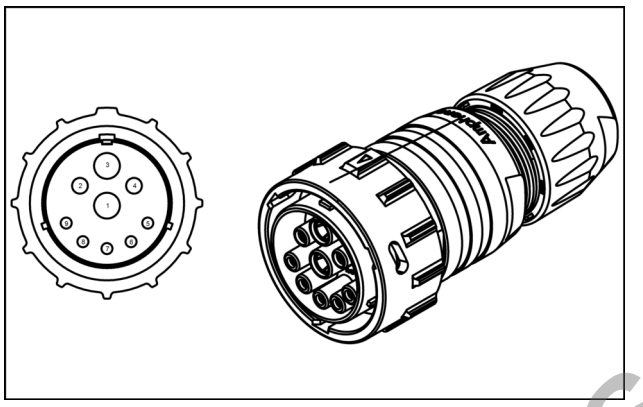
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Wire connectors - Component diagram 00

X-001 - TRACTOR X1 CONNECTOR ISOBUS BREAKAWAY [SH3: A-1] (Receptacle)



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Pin	From	Wire	Description	Color-Size	Frame
1	**X-155 (Plug) pin 1**	TM-445	BATTERY GROUND	BK - 8.0	**Wiring harnesses - Electrical schematic sheet 09 (55.100)**
1	**X-902 (Receptacle) pin 2** ISOBUS BATTERY	IB-445	BATTERY GROUND	BK - 8.0	
2	**X-903 (Receptacle) pin 1**	IB-027A	ELECTRONIC CONTROL UNIT GROUND	BK - 2.5	**Wiring harnesses - Electrical schematic sheet 03 (55.100)**
2	SP-027-P-X	TM-027A	ELECTRONIC CONTROL UNIT GROUND	BL - 2.5	
3	**X-152 (Plug) pin 1**	TM-006	BATTERY POWER	RD - 8.0	**Wiring harnesses - Electrical schematic sheet 04 (55.100)**
3	**X-902 (Receptacle) pin 1** ISOBUS BATTERY	IB-006	BATTERY POWER	RD - 8.0	
4	SP-510A-P-X	TM-510AB	ELECTRONIC CONTROL UNIT POWER	OR - 2.5	**Wiring harnesses - Electrical schematic sheet 03 (55.100)**
4	**X-903 (Receptacle) pin 6**	IB-510A	ELECTRONIC CONTROL UNIT POWER	RD - 2.5	
6	SP-510A-P-X	TM-510AA	TERMINATING BIAS CIRCUIT POWER	OR - 1.0	**Wiring harnesses - Electrical schematic sheet 07 (55.100)**
6	**X-903 (Receptacle) pin 2**	IB-510AB	TERMINATING NODE CONTROLLER POWER	RD - 1.0	
7	SP-027-P-X	TM-027B	TERMINATING BIAS CIRCUIT RETURN	BL - 1.0	
7	**X-903 (Receptacle) pin 3**	IB-027B	TERMINATING NODE CONTROLLER RETURN	BK - 1.0	
8	SP-500-P-X	TM-500A	CONTROLLER AREA NETWORK (CAN) 1 HIGH	YE - 1.0	
8	**X-903 (Receptacle) pin 4**	IB-500A	CAN 1 HIGH	YE - 1.0	
9	SP-501-P-X	TM-501A	CAN 1 LOW	GN - 1.0	
9	**X-903 (Receptacle) pin 5**	IB-501A	CAN 1 LOW	GN - 1.0	

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FAULT CODES - DTC

DIAGNOSTIC

1 - 8V5 reference - current below normal or grounded [UCM] 7
2 - 8V5 reference - shorted to a high source [UCM]. 9
3 - 5V1 reference - current below normal or grounded [UCM] 12
4 - 5V1 reference - shorted to a high source [UCM]. 13
5 - 5V2 reference - current below normal or grounded [UCM] 14
6 - 5V2 reference - shorted to a high source [UCM]. 15
7 - 5V3 reference - current below normal or grounded [UCM] 16
8 - 5V3 reference - shorted to a high source [UCM]. 18
9 - 12VP reference - current below normal or grounded [UCM]. 21
10 - 12VP reference - shorted to a high source [UCM] 23
11 - 12VA1 reference - current below normal or grounded [UCM]. 25
12 - 12VA1 reference - shorted to a high source [UCM] 27
13 - 12VB reference - current below normal or grounded [UCM]. 29
14 - 12VB reference - shorted to a high source [UCM] 31
15 - 12VD reference - current below normal or grounded [UCM] 33
16 - 12VD reference - shorted to a high source [UCM] 35
17 - 12VF1 reference - current below normal or grounded [UCM]. 37
18 - 12VF1 reference - shorted to a high source [UCM] 39
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23 - 12VS2 reference - current below normal or grounded [UCM] 49
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26 - 12VB reference - current below normal or grounded [UCM]. 55
27 - 12VD reference - current below normal or grounded [UCM] 57
28 - 12VF1 reference - open circuit [UCM] 59
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30 - 12VH1 reference - open circuit [UCM] 63
31 - 12VS2 reference - open circuit [UCM] 65

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1 - 8V5 reference - current below normal or grounded

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.*

Cause:
The Universal Control Module (UCM) **A-013** has detected the 8V5 reference voltage at connector **X-002-CN1A (Receptacle) pin 6**, wire MF-153 (PK) is less than **7.8 V**.

Possible failure modes:

1. Faulty connector.
2. Faulty wiring harness.
3. Faulty table roller speed sensor **B-109**.
4. Faulty wrapper pulse sensor **B-111**.
5. Faulty **A-013** software.
6. Faulty **A-013**.

Solution:

1. Verify fault is present and active.

   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. Inspect the wiring harness and connectors.
   Check the **A-013** connector **X-002-CN1A**, the **B-109** connector **X-109**, the **B-111** connector **X-111** and the wiring harness connectors **X-901** and **X-904**.
   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.
   Turn the ignition switch OFF.
   Disconnect the connector **X-002-CN1A**.
   Use a multimeter to perform the following continuity check:

From	To	Result
X-002-CN1A (Receptacle) pin 6, wire MF-153 (PK)	Ground	Should be greater than **0.3 Ω**

   A. If the resistance indicated is greater than **0.3 Ω**, the **A-013** may have failed internally. Download the correct level of software to the **A-013** and check for correct operation of the machine.
   If the fault recurs, remove and replace the **A-013** and check for correct operation of the machine.

   B. If the resistance indicated is less than **0.3 Ω**, continue to Step **4**.

4. Check for a short circuit.
   Disconnect the connector **X-109**.
   Use a multimeter to perform the following continuity check:

From	To	Result
X-002-CN1A (Receptacle) pin 6, wire MF-153 (PK)	Ground	Should be greater than **0.3 Ω**

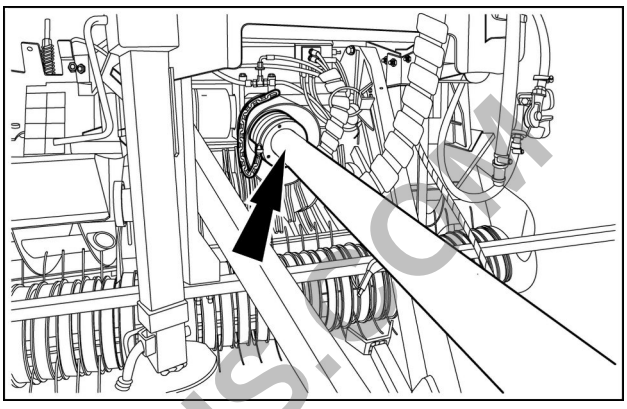
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Gearbox - Remove

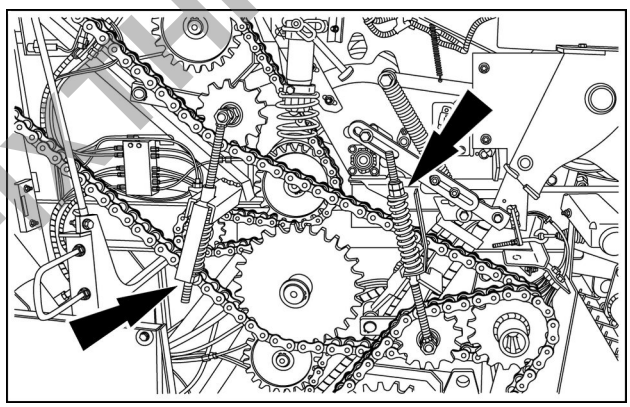
Prior operation:
Remove the net and plastic wrapper, see **Net and plastic wrapper - Remove (68.200)**.

1. Remove the Power Take-Off (PTO) shaft.



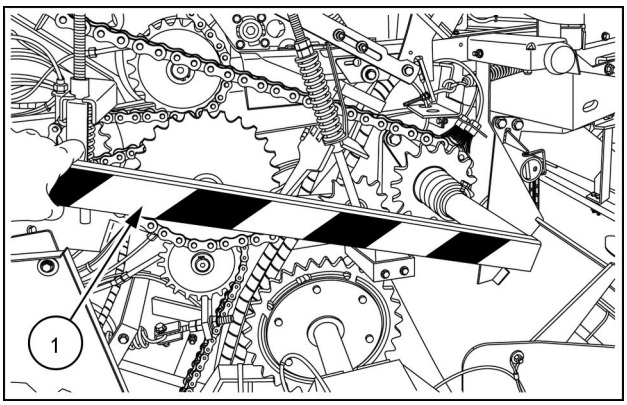
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2. Release the tension of the rotor/pickup main drive chain and the front/rear rollers main drive chain, see the operator's manual.



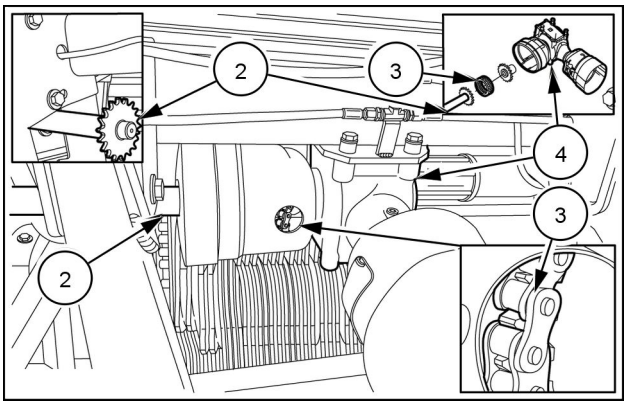
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3. Install the wrench **(1)** onto the output shaft of the gearbox.



ZEIL16RB00039AA 3

4. Use the wrench to turn the shaft **(2)** to allow access to the connector link of the chain **(3)**.
5. Remove the chain **(3)** from the sprocket on the gearbox **(4)** and the sprocket on the shaft **(2)**.



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Platform, cab, bodywork, and decals 90

[90.105] Machine shields and guards 90.1

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Hydraulic systems - 35

Hydraulic systems - 000

RB545 SP Silage Pack

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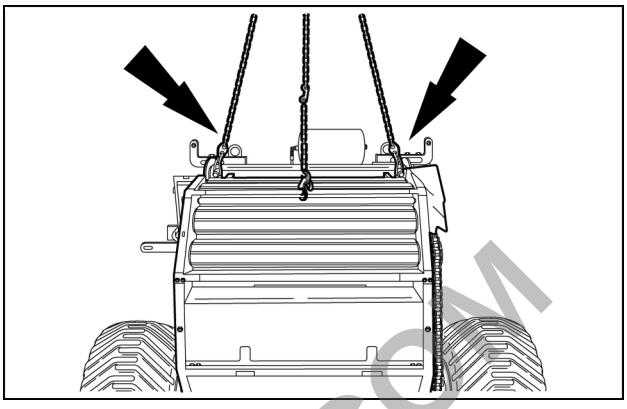
26. **⚠ WARNING**

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

W0398A

Using suitable lifting equipment, support the tailgate.

NOTE: *Satellite arm shown removed for clarity.*



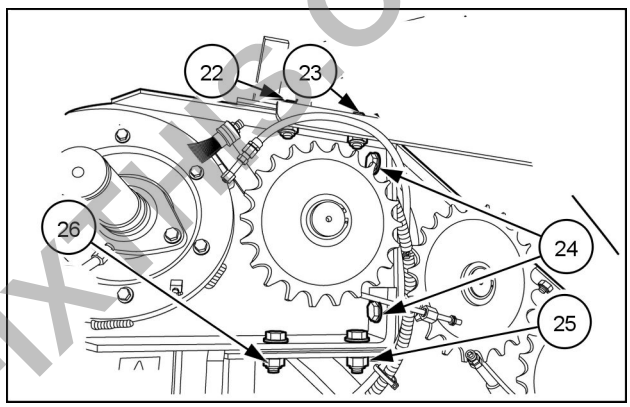
ZEIL16RB00535AA 16

On both sides of the tailgate, remove the nuts and bolts **(22)** and **(23)**.

27. Remove the bolts **(24)**.

28. Remove nuts and bolts **(25)** and **(26)**.

NOTICE: *Retrieve the shims from between the main body and the tailgate.*



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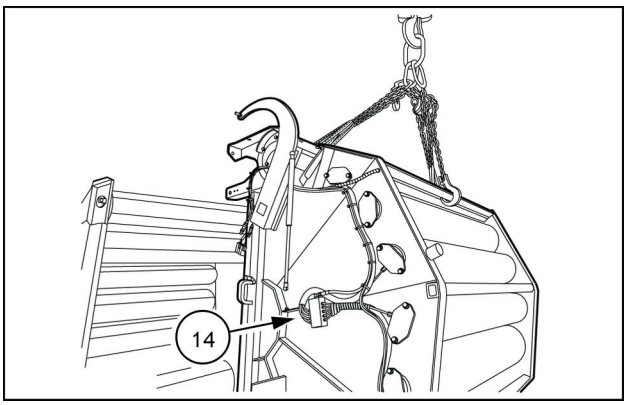
29. **⚠ WARNING**

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

W0398A

Using suitable lifting equipment, remove the tailgate **(14)**.

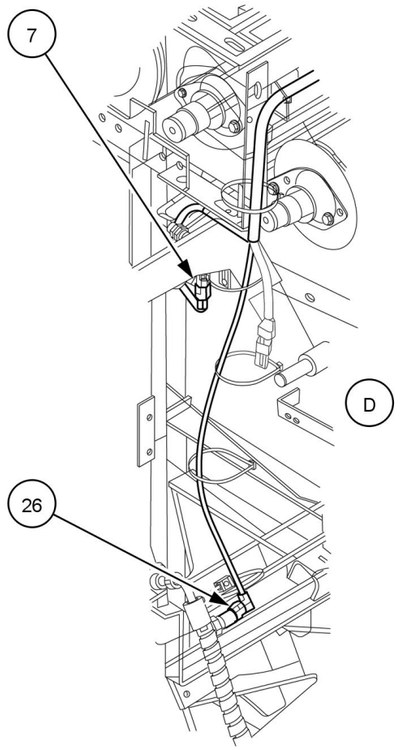
NOTE: *Satellite arm shown removed for clarity.*

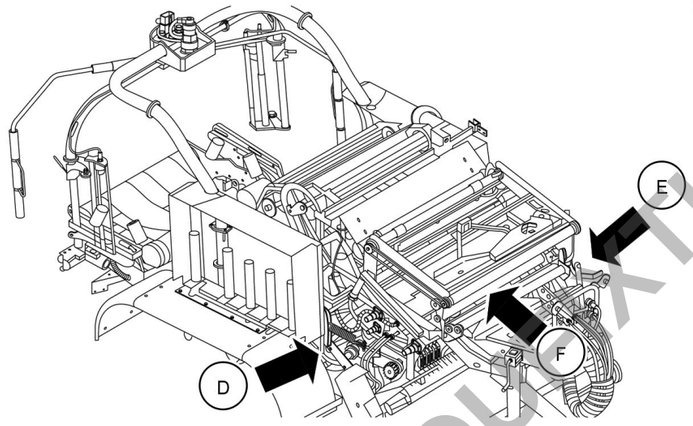


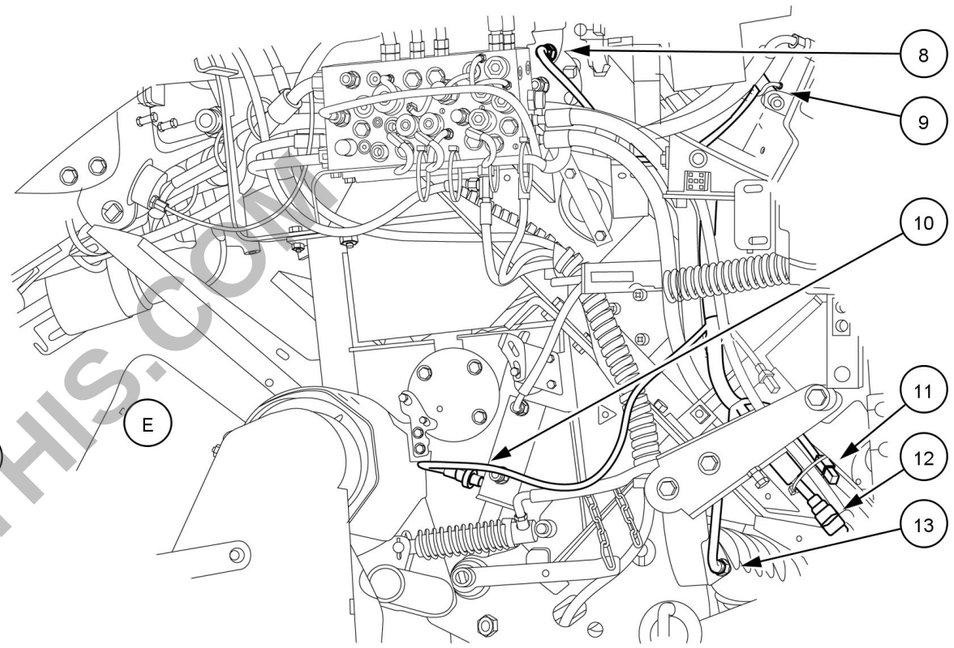
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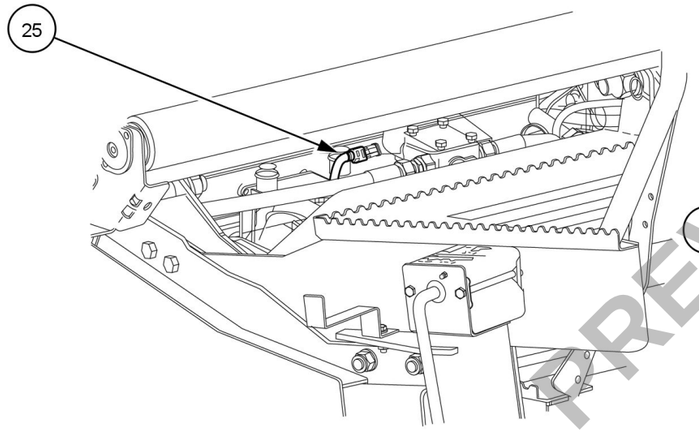
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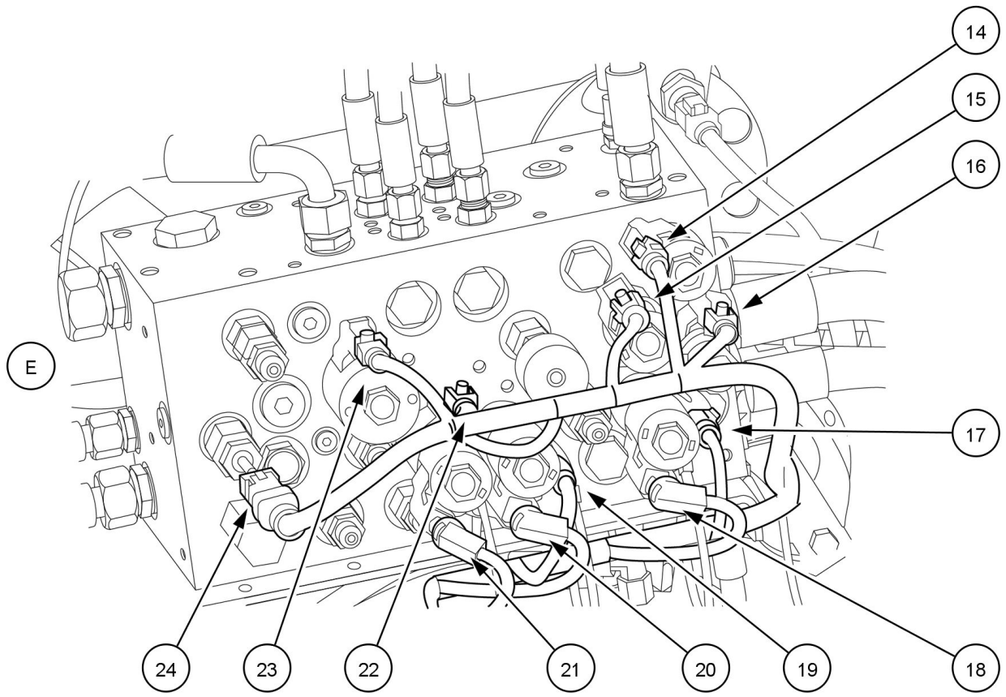
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Wiring harnesses - Electrical schematic sheet 26 SH26 - ROTATING BEACON

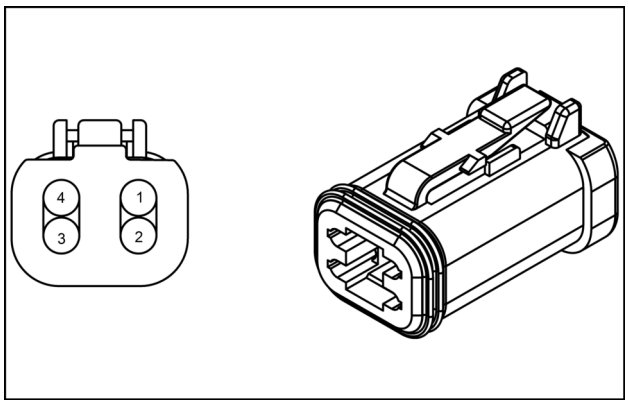
Type	Component	Connector / Link	Description
ECU	**A-013**	**X-002-CN1A** **X-002-CN2A**	UCM CONTROLLER
Lamp	**E-202**	**X-437** **X-438**	ROTATING BEACON
Fuse	**F-023**		ROTATING BEACON
Relay	**K-023**		K-023 ROTATING BEACON
Connector	X-002-CN2A	**X-002-CN2A**	
Connector	X-022	**X-022**	LIGHTS MODULE
Connector	X-437	**X-437**	BEACON +
Connector	X-438	**X-438**	BEACON -
Connector	X-906	**X-906**	MAIN FRAME INTERCONNECT

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Wire connectors - Component diagram 62

X-626 - LEFT-HAND SAFETY SWITCH [S-626] (47416267) (Receptacle)

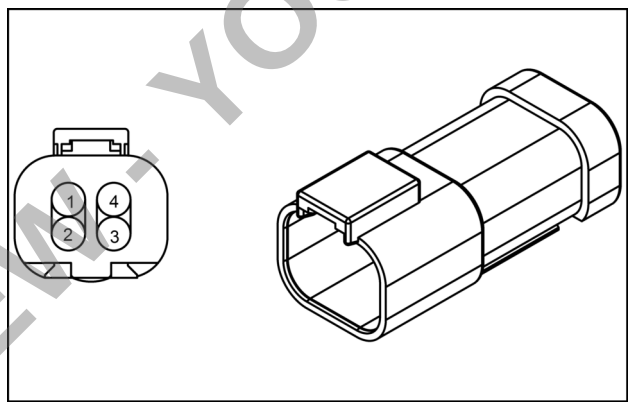


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47416267

Pin	From	Wire	Description	Color-Size	Frame
1	**X-901 (Plug) pin 25** MAIN FRAME INTERCONNECT	WF-033	RIGHT-HAND EMERGENCY BUTTON	OR - 1.5	**Wiring harnesses - Electrical schematic sheet 04 (55.100)**
2	**X-901 (Plug) pin 26** MAIN FRAME INTERCONNECT	WF-038	LEFT-HAND EMERGENCY BUTTON	OR - 1.0	
3	**X-901 (Plug) pin 24** MAIN FRAME INTERCONNECT	WF-035	LEFT-HAND EMERGENCY BUTTON	OR - 1.5	
4	**X-901 (Plug) pin 23** MAIN FRAME INTERCONNECT	WF-039	LEFT-HAND EMERGENCY BUTTON STATUS	WH - 1.0	

X-626 Term - USE IF EMERGENCY SWITCH IS NOT I (47416274) (Plug)



47416274 2

47416274

Pin	From	Wire	Description	Color-Size	Frame
1	**X-626 Term (Plug) pin 3** USE IF EMERGENCY SWITCH IS NOT I	WF-601	ELECTRONIC CONTROL UNIT POWER	OR - 1.0	**Wiring harnesses - Electrical schematic sheet 04 (55.100)**
2	**X-626 Term (Plug) pin 4** USE IF EMERGENCY SWITCH IS NOT I	WF-602	SWITCH STATUS	WH - 1.0	
3	**X-626 Term (Plug) pin 1** USE IF EMERGENCY SWITCH IS NOT I	WF-601	ELECTRONIC CONTROL UNIT POWER	OR - 1.0	
4	**X-626 Term (Plug) pin 2** USE IF EMERGENCY SWITCH IS NOT I	WF-602	SWITCH STATUS	WH - 1.0	

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A. If the voltage indicated is greater than **16 V**, repair or replace the wiring harness as required.

B. If the voltage indicated is approximately **12 V**, continue to Step **6**.

6. Check for a positive voltage.
   Turn the ignition switch OFF.
   Disconnect the connector **X-002-CN1A**.
   Connect the connector **X-021**.
   Turn the ignition switch ON.
   Use a multimeter to perform the following voltage check:

From	To	Result
X-002-CN1A (Receptacle) pin 20, wire MF-032G (OR)	Ground	Should be approximately **12 V**

A. If the voltage indicated is greater than **16 V**, repair or replace the wiring harness as required.

B. If the voltage indicated is approximately **12 V**, the **A-013** may have failed internally. Download the correct level of software to the **A-013** and check for correct operation of the machine.
If the fault recurs, remove and replace the **A-013** and check for correct operation of the machine.

7. 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 04 (55.100)

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37 - No battery power - open circuit

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.*

Cause:
The Universal Control Module (UCM) **A-013** has detected a voltage less than **11 V** at the connector **X-002-CN2B (Receptacle) pin 24**, wire MF-006B (RD).

Possible failure modes:

1. Faulty wiring harness.
2. Faulty **A-013** software.
3. Faulty **A-013**.

Solution:

1. Verify fault is present and active.

   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. Inspect the wiring harness and connectors.
   Check the **A-013** connector **X-002-CN2B**, and the wiring harness connectors **X-001** and **X-902**.
   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 the supply voltage.
   Disconnect connector **X-902**.
   Turn the ignition switch ON.
   Use a multimeter to perform the following voltage check:

From	To	Result
X-902 (Plug) pin 1, wire IB-006 (RD)	Ground	Should be approximately **12 V**

   A. If the voltage indicated is not approximately **12 V**, repair or replace the wiring harness as required.

   B. If the voltage indicated is approximately **12 V**, Continue to Step **4**.

4. Check for an open circuit.
   Turn the ignition switch OFF.
   Disconnect connector **X-002-CN2B**.
   Use a multimeter to perform the following continuity check:

From	To	Result
X-002-CN2B (Receptacle) pin 24, wire MF-006B (RD)	**X-902 (Plug) pin 1**, wire MF-006 (RD)	Should be continuity

   A. If a fault is indicated, repair or replace the wiring harness as required.

   B. If a fault is not indicated, Continue to Step the **5**.

5. Check for a short circuit.
   Use a multimeter to perform the following continuity check:

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Use a multimeter to perform the following continuity checks:

From	To	Result
X-002-CN3B (Receptacle) pin 21, wire MF-060 (YE)	Ground	Should be no continuity
X-002-CN3B (Receptacle) pin 21, wire MF-060 (YE)	All other pins in connector **X-002-CN3B**	Should be no continuity

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

B. If a short circuit is not indicated, the fault code is still present and the wiring harness is okay, download the correct level of software to the **A-013** and check for correct operation of the machine.
If the fault recurs, remove and replace the **A-013** and check for correct operation of the machine.

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 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 16 (55.100)

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Use a multimeter to perform the following continuity checks:

From	To	Result
X-002-CN4A (Receptacle) pin 23, wire MF-057 (YE)	Ground	Should be no continuity
X-002-CN4A (Receptacle) pin 23, wire MF-057 (YE)	All other pins in connector **X-002-CN4A**	Should be no continuity

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

B. If a short circuit is not indicated, the fault code is still present and the wiring harness is okay, download the correct level of software to the **A-013** and check for correct operation of the machine.
If the fault recurs, remove and replace the **A-013** and check for correct operation of the machine.

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 16 (55.100)

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322 - Bundle roller close - open circuit

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.*

Cause:
The Universal Control Module (UCM) **A-013** has detected an open circuit at connector **X-002-CN3A (Receptacle) pin 22**, wire MF-096 (WH) from the bundle roller closed solenoid **Y-3062**.

Possible failure modes:

1. Faulty connector.
2. Faulty wiring harness.
3. Faulty **Y-3062**.
4. Faulty **A-013** software.
5. Faulty **A-013**.

Solution:

1. Verify fault is present and active.

   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 **7**.

2. Inspect the **Y-3062** condition.
   Visually inspect the **Y-3062** condition, checking for security, damage, contamination and blockages.

   A. If the **Y-3062** is insecure, damaged, contaminated or operation blocked, repair the fault. Refresh the fault codes list and check for correct operation of the machine.

   B. If there is no visual fault with the **Y-3062**, continue to Step **3**.

3. Inspect the wiring harness and connectors.
   Check the **A-013** connector **X-002-CN3A** and the **Y-3062** connector **X-3062**.
   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 **4**.

4. Check for an open circuit.
   Turn the ignition switch OFF.
   Disconnect the connector **X-3062**.
   Use a multimeter to perform the following continuity check:

From	To	Result
X-3062 (Plug) pin 1, wire MF-402BC (BK)	Ground	Should be continuity

   A. If an open circuit is indicated, repair or replace the wiring harness as required.

   B. If an open circuit is not indicated, continue to Step **5**.

5. Check for an open circuit.
   Turn the ignition switch OFF.
   Disconnect the connector **X-002-CN3A**.
   Use a multimeter to perform the following continuity check:

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349 - Tailgate pressurize - shorted to a 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.*

Cause:
The Universal Control Module (UCM) **A-013** has detected a voltage greater than **11 V** at connector **X-002-CN2B (Receptacle) pin 25**, wire MF-475 (WH) from the tailgate pressurize solenoid **Y-3005**.

Possible failure modes:

1. Faulty connector.
2. Faulty wiring harness.
3. Faulty **Y-3005**.
4. Faulty **A-013** software.
5. Faulty **A-013**.

Solution:

1. Verify fault is present and active.

   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 **7**.

2. Inspect the **Y-3005** condition.
   Visually inspect the **Y-3005** condition, checking for security, damage, contamination and blockages.

   A. If the **Y-3005** is insecure, damaged, contaminated or operation blocked, repair the fault. Refresh the fault codes list and check for correct operation of the machine.

   B. If there is no visual fault with the **Y-3005**, continue to Step **3**.

3. Inspect the wiring harness and connectors.
   Check the **A-013** connector **X-002-CN2B** and the **Y-3005** connector **X-3005**.
   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 **4**.

4. Check for a short circuit.
   Turn the ignition switch OFF.
   Disconnect the connector **X-3005**.
   Turn the ignition switch ON.
   Use a multimeter to perform the following voltage check:

From	To	Result
X-3005 (Plug) pin 1, wire MF-418C (RD)	Ground	Should be approximately **12 V**

   A. If the voltage indicated is not approximately **12 V**, repair or replace the wiring harness as required.

   B. If the voltage indicated is approximately **12 V**, continue to Step **5**.

5. Check for a short circuit.
   Turn the ignition switch OFF.
   Disconnect the connector **X-002-CN2B**.
   Turn the ignition switch ON.
   Use a multimeter to perform the following wiring checks:

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From	To	Result
X-002-CN2A (Receptacle) pin 23, wire MF-114 (GY)	Ground	Should be no voltage
X-002-CN2A (Receptacle) pin 23, wire MF-114 (GY)	All other pins in connector **X-002-CN2A**	Should be no continuity

A. If a fault is indicated, repair or replace the wiring harness as required.

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

6. Check for a short circuit.
   Use a multimeter to perform the following continuity check:

From	To	Result
Relay **K-023** pin 85	Relay **K-023** pin 86	Should be between **50 – 130 Ω**

A. If the resistance indicated is not between **50 – 130 Ω**, repair and replace **K-023**.

B. If the resistance indicated is between **50 – 130 Ω** and the wiring harness is okay, download the correct level of software to the **A-013** and check for correct operation of the machine.
If the fault recurs, remove and replace the **A-013** and check for correct operation of the machine.

7. 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 error has been resolved.

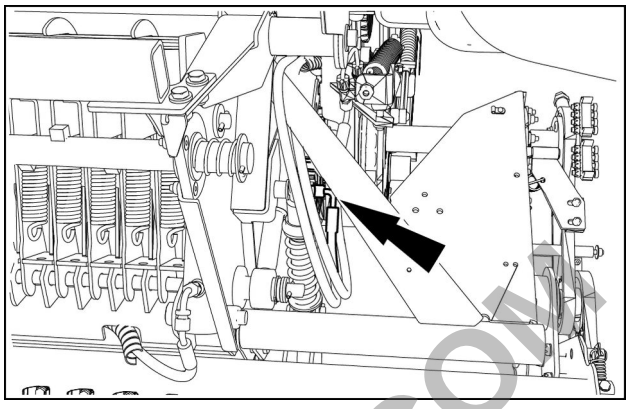
B. If you do not find damage and the display indicates only normal readings, then erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 26 (55.100)

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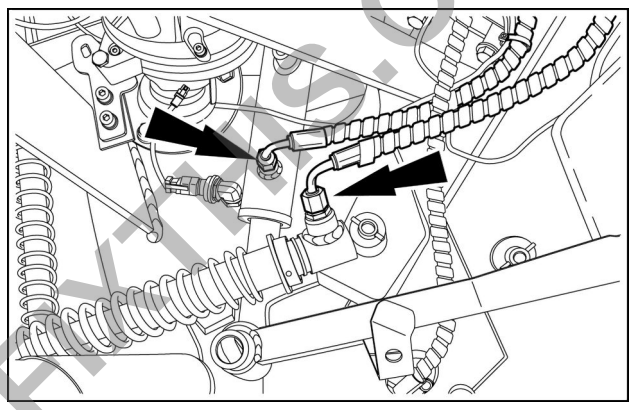
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10. On the right-hand side of the machine, remove the blanking caps and connect the hydraulic hose.



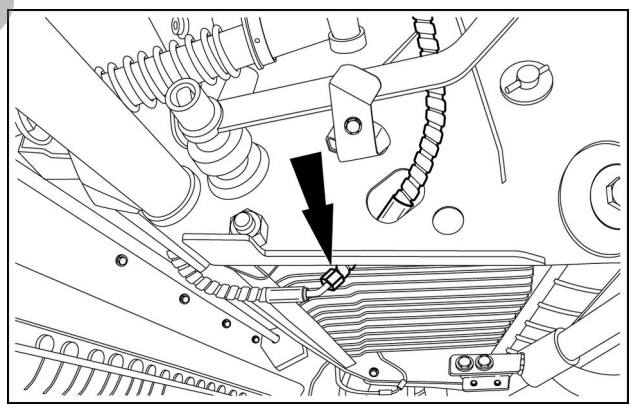
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11. On the left-hand side of the machine, remove the blanking caps and connect the hydraulic connections to the drop floor and pickup.



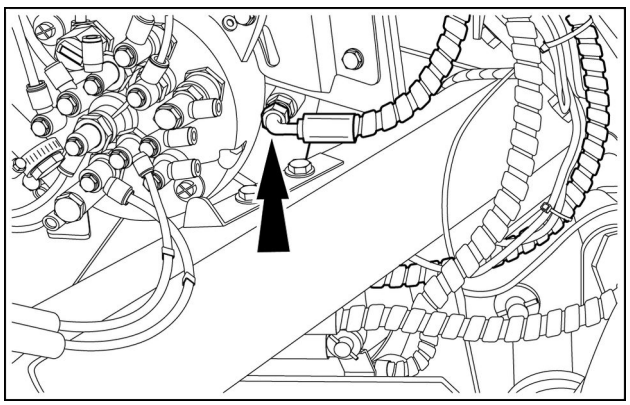
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12. On the left hand side of the machine, remove the blanking caps and connect the hydraulic hose.



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13. On the left-hand side of the machine, remove the blanking caps and connect the hydraulic hose.

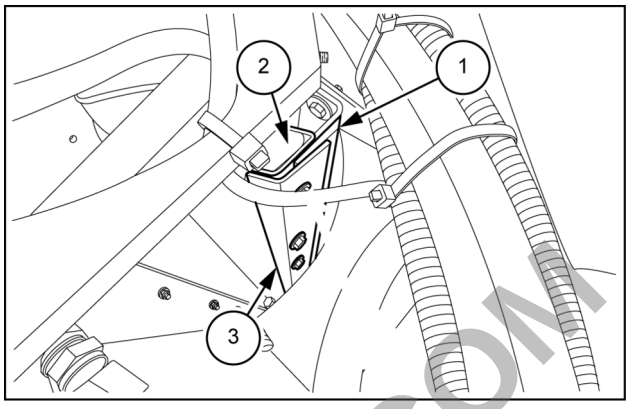


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NOTE: *The cutting blade **(1)** is clamped between the cutting blade holder **(2)** and the clamp **(3)**.*

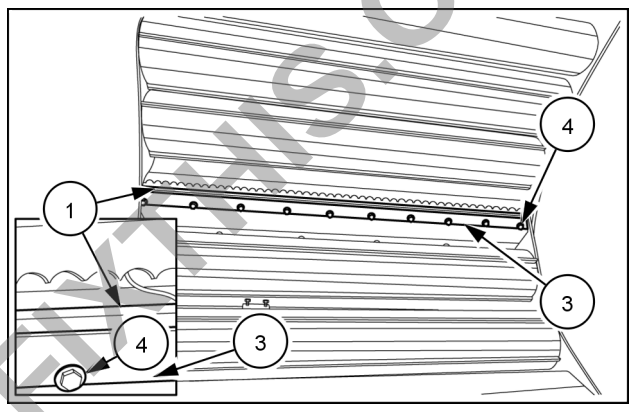


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5. Loosen all the bolts **(4)** until the clamp **(3)** is loose enough to allow the cutting blade **(1)** to be removed.

NOTE: *It is not necessary to remove the bolts **(4)**.*

6. Remove the cutting blade(s) **(1)**.



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