SERVICE BRAKE Hydraulic. D.30.C
PARKING BRAKE Hydraulic D.32.C
WHEELS AND TRACKS Tracks D.50.B
FRAME AND CAB . . . . . E
SHIELD E.20.A
OPERATOR AND SERVICE PLATFORM E.30.A
USER CONTROLS AND SEAT E.32.A
USER CONTROLS AND SEAT Control E.32.B
USER CONTROLS AND SEAT Operator seat E.32.C
USER CONTROLS AND SEAT Instructor seat E.32.D
USER PLATFORM E.34.A
ENVIRONMENT CONTROL Heating, ventilation and air-conditioning E.40.D
SAFETY SECURITY ACCESSORIES Safety E.50.B
TOOL POSITIONING . . . . . G
LIFTING G.10.A
TILTING G.20.A
LEVELLING G.30.A
CROP PROCESSING . . . . . K
FEEDING Reel feeding K.25.B
FEEDING Header feeding K.25.D
FEEDING Feeder housing K.25.E
THRESHING Twin flow threshing K.40.D
SEPARATING Rotary separator K.42.C
STORING AND HANDLING Grain storing K.60.B
CLEANING Primary cleaning K.62.B
CLEANING Tailings return system K.62.C
CLEANING Self-levelling frame K.62.D
RESIDUE HANDLING Straw chopper K.64.C
RESIDUE HANDLING Spreader K.64.D
RESIDUE HANDLING Chaff spreader K.64.G

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PNEUMATIC SYSTEM - Overview - Air Compressor

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

The compressed air supply system is an optional accessory used to remove crop debris from the machine by using compressed air at high velocities through a hand operated nozzle attached to a length of hose.
The air compressor provides and maintains air under pressure to supply air for the compressed air supply system. It consists of two major subassemblies: Cylinder head and crankcase/cylinder block.
The cylinder head contains the inlet, discharge and unloader valving, as well as an integral relief valve. There are two engine coolant ports, marked Port 9, an air discharge port, marked Port 2, and an inlet port, marked Port 0. The cylinder head is mounted on the crankcase/cylinder block.
The crankcase/cylinder block contains the cylinder bore, piston, bearings, crankshaft, governor port and connecting rod.
The compressor is driven by the engine and its crankshaft turns continuously while the engine is running. Compression of air is controlled by the governor and by the compressor's unloading mechanism.
The governor maintains the system air pressure at preset maximum and minimum levels. The governor is mounted apart from the compressor, vertically. The governor port is located on the crankcase of the compressor.
The unloader mechanism controls the air compression cycle. An air compression cycle has three phases:

1. Induction: Air flows from the engine to the compressor, opening an inlet valve in the cylinder head of the compressor.
2. Compression: Air pressure is increased, causing the compressor's discharge valve to open.
3. Unloading: Air passes from the cylinder to the inlet chamber of the cylinder head via a port controlled by a sliding leaf valve. When system cut–in pressure is reached, air is exhausted from the unloader port.
4. After unloading, the unloader piston returns the sliding leaf valve to the loaded position. This seals the unloader ports and compression resumes.

Air in the circuit is distributed through galvanized steel lines at two locations, one on the engine platform and the other near the air tank reservoir on the left hand side of the unit off of a shield bracket. Both locations are conveniently accessible to reach most areas of the machine, and use quick coupler connections where the supplied hose and hand operated air nozzle can be connected.

Front-mounted compressor

The flange mounted compressor is mounted to the housing on the front of the engine in an accessory port below the fuel injection pump. The compressor is driven off of the accessory drive using a direct gear to gear engagement. The compressor is plumbed to utilize resources from the engine such as, pre–filtered air from the engine's intake manifold cover and engine coolant from water passages in the engine block. Oil for lubrication is also routed into the compressor through a hose from the engine, and returned back to the engine through a case drain in the compressor housing into the accessory drive housing.

Rear-mounted compressor

The flange mounted compressor setup is mounted to the housing on the rear of the engine in an accessory port above the starter motor. The compressor is driven off of the accessory drive using a direct gear to gear engagement. The compressor is plumbed to utilize resources from the engine such as, pre–filtered air from the engine's intake supply and engine coolant from water passages in the engine block. Oil for lubrication is also routed into the compressor through an O–ring sealed port at the compressor mounting flange, and returned back to the engine through a case drain in the compressor housing into the accessory drive housing.

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CONNECTOR X174 FEEDER ANGLE R-03			
Cavity	**Circuit ID**	**Description**	**Frame**
A	756 (BL)	Sensor reference ground from **CCM1** X019 J2-14	**Wiring harness - Electrical schematic frame 14 (A.30.A)**
B	740 (YE)	Signal to **CCM1** X019 J2-22	
C	751 (PK)	Sensor source voltage from **CCM1** X019 J2-31	

CONNECTOR X174 FEEDER ANGLE R-03			
Cavity	**Circuit ID**	**Description**	**Frame**
1	756 (BL)	Reference ground from HHC Module **A-07** X281 pin 4	**Wiring harness - Electrical schematic frame 14 (A.30.A)**
2	740 (YE)	Signal to HHC Module **A-07** X281 pin 14	
3	751 (PK)	Sensor reference voltage from HHC Module **A-07** X281 pin 5	

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Wiring harness - Electrical schematic frame 18

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA

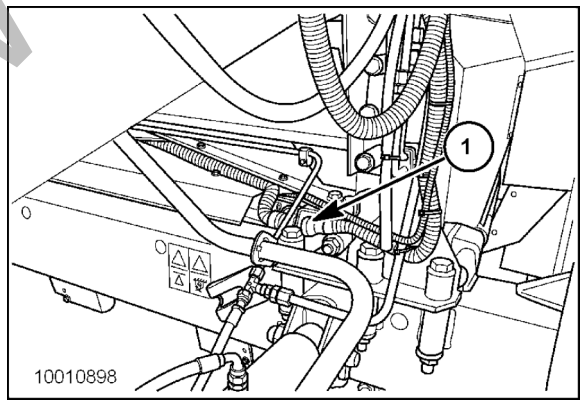
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Cavity	Circuit ID	Description	Frame
A	561 (WH)	Control signal to Feeder jog forward **L-20** from **CCM-1**	**Wiring harness - Electrical schematic frame 16 (A.30.A)**
B	590 (BK)	Feeder jog forward **L-20** to Frame ground 2	
C	562 (WH)	Control signal to Feeder jog reverse **L-21** from **CCM-1**	
D	591 (BK)	Feeder jog reverse **L-21** to Frame ground 2	
E	556 (WH)	Reel drive **L-17** control signal from **CCM-2**	**Wiring harness - Electrical schematic frame 12 (A.30.A)**
F	585 (BK)	Reel drive **L-17** to Frame ground 2	
G	549 (WH)	Lateral float CW **L-18** control signal from **CCM-1**	**Wiring harness - Electrical schematic frame 14 (A.30.A)**
H	554 (BL)	**CCM-1** current sense for Lateral float CW **L-18**	
J	548 (WH)	Lateral float CCW **L-19** control signal from **CCM-1**	
K	553 (BL)	**CCM-1** current sense for Lateral float CCW **L-19**	
L	558 (WH)	Reel up **L-14** control signal from **CCM-2**	**Wiring harness - Electrical schematic frame 12 (A.30.A)**
M	587 (BK)	Reel up **L-14** to frame ground 2	
N	557 (WH)	Reel down **L-13** control signal from **CCM-2**	
O	586 (BK)	Reel down **L-13** to frame ground 2	
P	560 (WH)	Reel fore **L-16** control signal from **CCM-2**	
Q	589 (BK)	Reel fore **L-16** to frame ground 2	
R	559 (WH)	Reel aft **L-15** control signal from **CCM-2**	
S	588 (BK)	Reel aft **L-15** to frame ground 2	
T	open		
U	open		
V	open		
W	open		
X	open		

Connector X022 - Main Frame Harness to Main Valve Stack

Connector X023 - Front Frame Harness to Lower Frame Harness



10010898_10 4

Left side of front axle, below feeder pivot

1. Connector X023

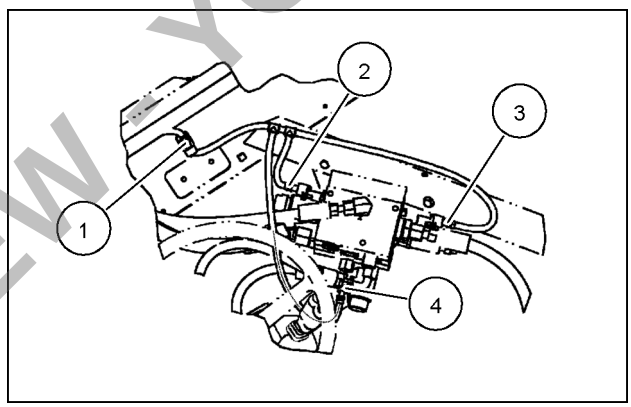
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Cavity	Circuit ID	Description	Frame
A	WH	Engine control unit **A-01** control signal to Fuel actuator 1 **L-34**	**Wiring harness - Electrical schematic frame 04 (A.30.A)**
B	RD	Engine control unit **A-01** control signal to Fuel actuator 1 **L-34**	
C	YE	Engine control unit **A-01** control signal to Fuel actuator 4 **L-36**	
D	RD	Engine control unit **A-01** control signal to Fuel actuator 4 **L-36**	
E	GN	Engine control unit **A-01** control signal to Fuel actuator 5 **L-38**	
F	RD	Engine control unit **A-01** control signal to Fuel actuator 5 **L-38**	
G	BL	Engine control unit **A-01** control signal to Fuel actuator 2 **L-35**	
H	GY	Engine control unit **A-01** control signal to Fuel actuator 2 **L-35**	
I	PU	Engine control unit **A-01** control signal to Fuel actuator 6 **L-39**	
L	GY	Engine control unit **A-01** control signal to Fuel actuator 6 **L-39**	
M	BK	Engine control unit **A-01** control signal to Fuel actuator 4 **L-37**	
N	GY	Engine control unit **A-01** control signal to Fuel actuator 4 **L-37**	

NOTE: *Wire colors are not generally visible due to harness sheathing.*

Connector X476 - Expansion Harness to AG4 Harness



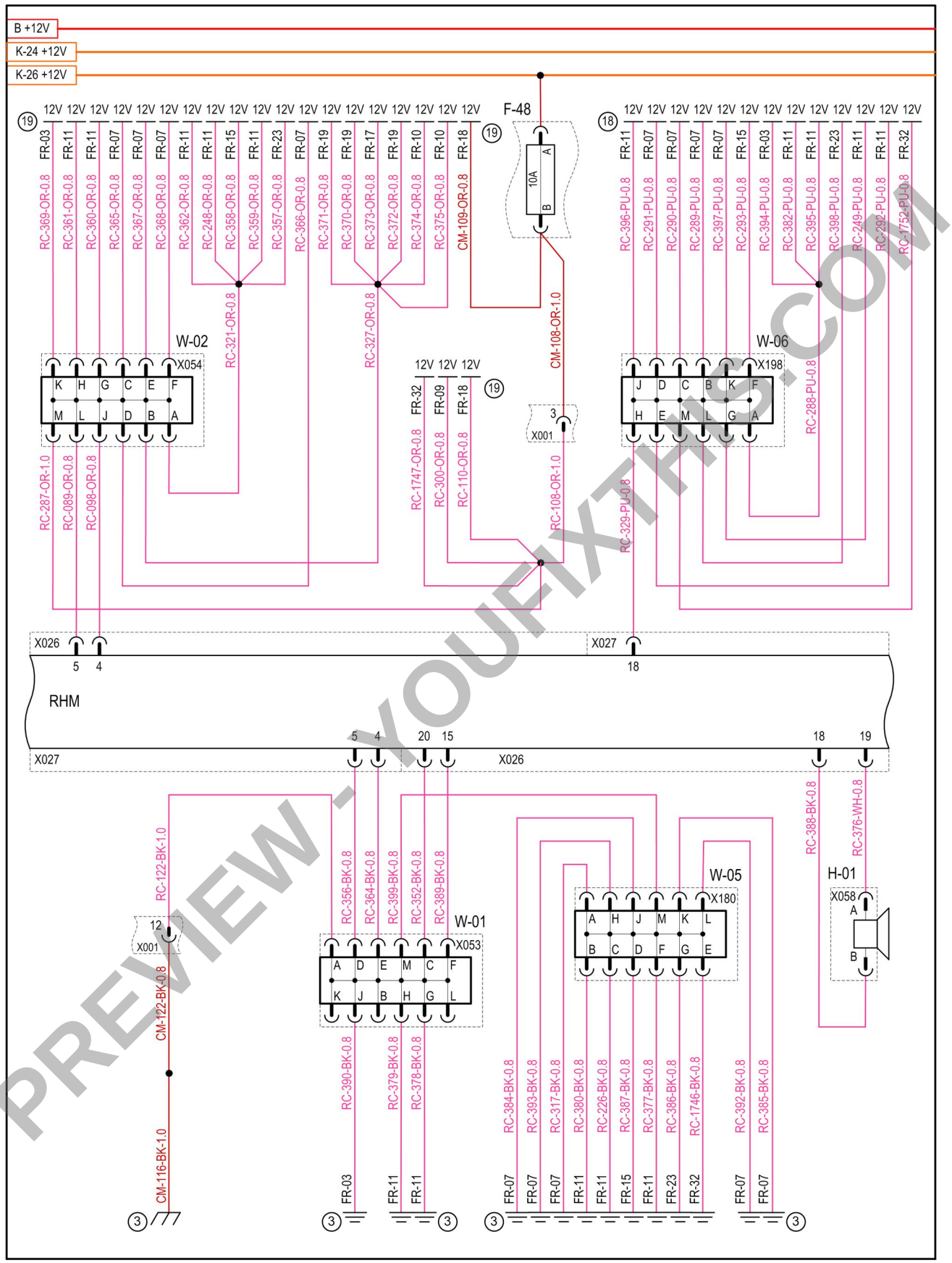
63064136 15

Under Cab, mounted on cab floor brace

1. Connector X476 - Steering valves
2. Connector X477 - Steer Right solenoid **L-58**
3. Connector X478 - Steer Left solenoid **L-57**
4. Connector X486 - Steer Enable solenoid **L-59**

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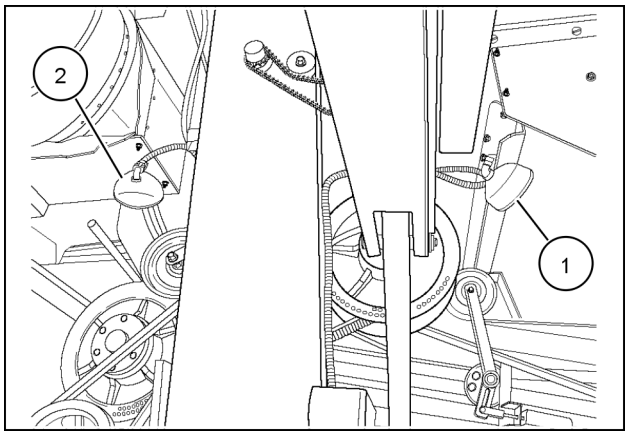


CR11-FRAME25 3

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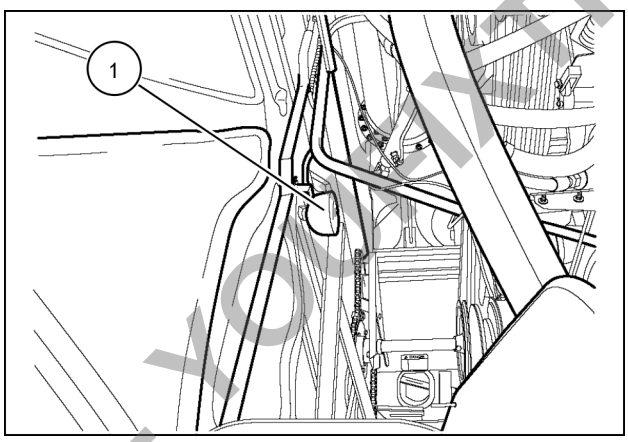
Under-shield Lighting



83060947 7

Right side under-shield lighting

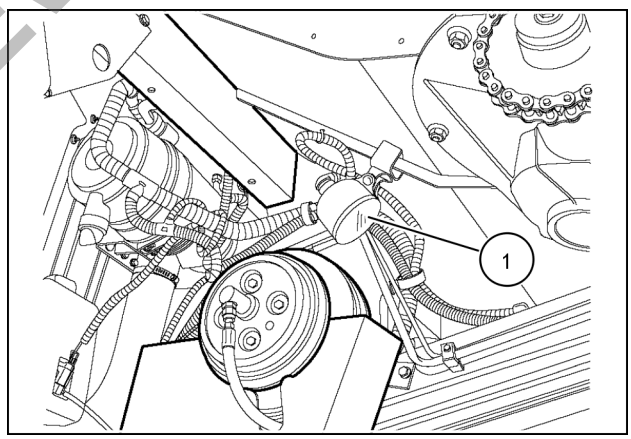
1. Right side under-shield light **E-44**, front
2. Right side under-shield light **E-45**, rear



83084363 8

Left side under-shield rear light

1. Left-side under-shield light **E-43**, rear



83084367 9

Left side under-shield front light

1. Left side under-shield light **E-42**, front

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E1286-14-ASP Sensitivity OFF -Special Instructions

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9080 [Y8G112001 - Y9G112788] NA

Control Module : ASP

Context:

Cause:
The ASP Amplifier **A-08** has detected that the ASP Sensitivity has been set to 0, disabling the ASP system.

Possible failure modes:

1. This is normal operation of the system.

Solution:

1. This fault will appear when the ASP sensitivity is adjusted to 0. The fault is simply notification that this event has occurred. The date and time of this action along with the number of times the ASP system sensitivity has been set to 0 will be permanently stored.

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B. If the voltage reading is low, less than **0.2 V**, then the short circuit is in the front frame (FF) harness between connector **X007** pin 17 and connector **X020** pin J3-17, wire 741 yellow. Locate and repair the shorted conductors.

6. With the Key switch **S-02** in the ON position, use a multi-meter to check for voltage between the feeder (FE) harness side of connector **X081** A and chassis ground. There should be **5.0 V**.

   A. If there is **5.0 V**, there is a broken and shorted conductor in the ground circuit between connector **X081** pin B and the feeder (FE) harness splice, wire 754 blue. Locate and repair the damaged conductors.

   B. If there is greater than **5.5 V**, there is a broken and shorted conductor in the supply circuit between connector **X081** pin A and the feeder (FE) harness splice, wire 757 pink. Locate and repair the damaged conductors.

7. Disconnect the feeder (FE) harness from the Lateral float pot **R-02** at connector **X081**. Use a multi-meter to check for continuity from the feeder (FE) harness side of connector **X081** pin B to chassis ground. There should be continuity.

   A. If there is continuity, either the Lateral float pot **R-02** is out of adjustment or has failed internally. Perform sensor adjustment, then check to see that this error has been resolved or replace the potentiometer.

   B. If there is no continuity, there is an open ground circuit condition in the feeder (FE) harness between connector **X081** pin B and the feeder (FE) harness splice, wire 745 blue. Locate and repair the broken conductor.

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 found or other than normal display readings are indicated, 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 no damage or other than normal display readings are indicated, erase the fault code and continue operation.

Wiring harness - Electrical schematic frame 14 (A.30.A.88 - C.20.E.14)
Wiring harness - Electrical schematic frame 26 (A.30.A.88 - C.20.E.26)

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E0130-05-Trans Shift Position 2 Sensor - Line Disconnected

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA

Control Module : CM2

Cause:
The transmission shift position "2" sensor **B-37** circuit is open.

Possible failure modes:

1. Sensor or circuit wiring is open.
2. Controller internal failure (internal regulator failure).

⚠ **WARNING** ⚠

Before you do service under the machine, put the machine on a level surface, engage the parking brake and stop the engine. Put blocks at the front and rear of the tires. Failure to comply could result in death or serious injury.

46-77A

Solution:

1. Using the Display Monitor diagnostics capability to view "Parameter" status, reference **Monitor - Detailed view (A.50.A)**, if needed, to check the voltage range. The proper voltage when in shift position 2 is **5.6 - 7.3 volts**, normally **6.6 V** when target is present.
   The proper voltage when not in shift position 2 is **0.5 - 5.6 volts**, normally **4.6 V** when target is not present.

   A. If the voltage reading is **7.3 - 9.0 volts**, continue with step **2**.

   B. If the voltage reading is within the proper limits, continue the troubleshooting at step **6**.

   NOTE: *Visually inspect the wiring harness and connectors. Verify that the connector is fully installed. Inspect the terminals and wires at the connector for pushed back or corroded terminals or damaged wires. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned.*
2. Disconnect the transmission shift position sensor from the transmission at connector **X093**. Use a jumper wire to short connector **X093** pin 3 to chassis ground.

   A. If the voltage drops to **0 - 0.5 volts** indicating a short to ground, the open circuit is not in the supply side of the circuit. Continue with step **4**.

   B. If the voltage remains at **7.3 - 9.0 volts**, continue with step **3**.
3. Disconnect the lower frame (LF) harness from the front frame (FF) harness at connector **X023**. Use a jumper wire to short connector **X023** pin 9 to chassis ground.

   A. If the voltage drops to **0 - 0.5 volts** indicating a short to ground, there is an open circuit in the lower frame (LF) harness between connector **X023** pin 9 and connector **X093** pin 3 wire 406 yellow. Locate the open and repair.

   B. If the voltage remains at **7.3 - 9.0 volts**, there is an open circuit in the front frame (FF) harness between connector **X023** pin 9 and connector **X017** pin J3-37 wire 406 yellow. Locate the open and repair.
4. Disconnect the transmission shift position sensor from the transmission at connector **X093**. Use a multi-meter to check for continuity between the harness end of connector **X093** pin 6 to chassis ground. There should be continuity to ground.

   A. If there is continuity to ground, the ground path for the sensor is complete, and the fault is in the sensor itself. Replace the sensor.

   B. If there is no continuity to ground, the ground path for the sensor is open. Continue with step **5**.

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5. Operate the combine while monitoring the voltage on the Display.

   A. If no high out of range voltage readings are seen, erase the error code and continue operation.

Wiring harness - Electrical schematic frame 29 (A.30.A.88 - C.20.E.29)

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B. If there is no continuity, there should be other errors relevant to the CCM sensor ground reference. Continue the troubleshooting at Step **9**.

6. Disconnect connector **X072** between the lower frame rear (LR) and straw hood front (SW) harnesses. Use a multi-meter to check for voltage on the straw hood front (SW) harness side of connector **X072** between pin G and chassis ground. There should not be any voltage.

   A. If there is no voltage, there is a short in the lower frame rear (LR) harness between connector **X072** and connector **X227** wire 475 yellow. Locate the short and repair.

   B. If there is voltage **>5.2 volts**, continue with Step **7**.

7. Disconnect connector **X025** between the expansion (EX) and straw hood front (SW) harnesses. Use a multi-meter to check for voltage on the expansion (EX) harness side of connector **X025** between pin 3 and chassis ground. There should not be any voltage.

   A. If there is no voltage, there is a short in the straw hood front (SW) harness between connector **X072** and connector **X025** wire 475 yellow. Locate the short and repair.

   B. If there is voltage **>5.2 volts**, there is a short in the expansion (EX) harness between connector **X025** and connector **X013** wire 475 yellow. Locate the short and repair.

8. Visually inspect the harness and connectors for damage, bent or dislocated pins, broken or pinched wires.

   A. Repair any damage found during visual inspection.

   B. If no damage is found, erase the fault code and continue operation.

9. Carefully disconnect the expansion (EX) harness from **CCM3** at connector **X013**. Use a multi-meter to check for continuity on the module between pin J2-14 and chassis ground. There should be continuity.

   A. If there is continuity, there is an open circuit in the expansion (EX) harness between connector **X013** and connector **X025** wire 439 or 1723 blue.Locate the open circuit and repair.

   B. If there is no continuity, the module has failed. Replace **CCM3**.

Wiring harness - Electrical schematic frame 21 (A.30.A.88 - C.20.E.21)

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E1566-03-Oil Temp. Sensor

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788], CR9040 [Y9G113001 - YAG113831], CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788], CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788], CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831], CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

Control Module : ECU

NOTE: *This diagnostic procedure references the integrated Oil Pressure Sensor/Oil Temperature Sensor (OPS/OTS). Since the temperature portion of the sensor is only being referenced, it will be referred to as the OTS sensor.*

Context:
The Engine Control Unit (ECU) generated a fault associated with the Oil Temperature Sensor (OTS). This error could result from a OTS signal out of range, a plausibility check against the Coolant Temperature Sensor (CTS) or CAN message processing. The ECU prohibits any plausibility checking when there are any ADC signal errors on the OTS or CTS sensors.

Cause:
The Oil Temperature Sensor (OTS) **B-75** signal to the ECU is out of range of the upper threshold limit.

Possible failure modes:

1. Faulty OTS sensor **B-75**
2. Faulty electrical wiring, signal short to HIGH (B+) or open circuit condition.
3. Faulty ECU, supply voltages or grounds.

Solution:

1. Operation: Electrical Inspection.
   Vehicle Status: Key Off Engine Off.

   Remove OTS sensor connector **X517** and inspect housing body/latch, pins and wiring harness for damage or corrosion. Also, inspect connector portion of the OTS sensor **B-75**.

   A. If damage is determined after careful inspection, repair wiring and/or replace connector parts to ensure a good and sound electrical connection. Replace OTS sensor **B-75** if damaged.

   B. If no damage is determined, proceed to step **2**.
2. Operation: Check Open Circuit Voltages for OTS Sensor **B-75**.
   Vehicle Status: Key On Engine Off.

   Remove **X517** connector from OTS sensor **B-75** and check for voltages (DC) between connector pins outlined in the table below. Use the test lead labeled "Air Press/Temp Sensor" from the Tier II (NEF) Diagnostic Repair Kit **380040185** to access the pins on the connector.

Test Type	From	To	Expected Results
1. Voltage	**X517** (Pin 3)	**X517** (Pin 1)	Approx. **5 volts** (DC)
2. Voltage	**X517** (Pin 2)	**X517** (Pin 1)	Approx. **5 volts** (DC)
3. Voltage	**X517** (Pin 4)	**X517** (Pin 1)	Approx. **5.4 volts** (DC)

   A. If the voltage test is successful, proceed to step **4**.

   B. If the voltage test is not successful, proceed to step **3**.
3. Operation: Check for Faulty Wiring.
   Vehicle status: Key Off Engine Off.

   Remove and perform continuity tests between connectors **X517** and **X516** on engine wiring harness. Flex harness during test to check for any intermittent operation. Use the test lead labeled "Air Press/Temp Sensor" from the Tier II (NEF) Diagnostic Repair Kit **380040185** to be able to access the pins on the sensor connector **X517**. Also,

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E0513-05-Header Lift Pressure sens Line Disconnected

CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

Control Module : HHC

Context:

Cause:
The header lift pressure sensor **B-29** circuit is open or shorted to ground.

Possible failure modes:

1. Sensor signal wiring is open or shorted to ground.
2. Loss of power to the sensor.
3. Module internal failure - internal regulator failure.

Solution:

1. Use the display monitor diagnostic capability to view item status, reference **Monitor - Detailed view (A.50.A)**, if needed, to check voltage range. Fully raise and lower the feeder several times while monitoring the voltage; the voltage should stay within the range, and should change smoothly with feeder movement. The proper operating voltage range of the sensor is **2.5 - 7.5 V**.

   A. If the voltage reading is low (< **0.3 V**) out of range continue with Step **2**.

   B. If the voltage reading is within the proper limits, the circuit may not be open at this time. Visually inspect the wiring harness and connectors. Verify that the connector was fully installed. Inspect the terminals and wires at the connector for pushed back or corroded terminals or damaged wires. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Continue the troubleshooting at Step **8**.

2. Disconnect connector **X279**, and use a multimeter to test for voltage on connector **X279** pin 3 on the main frame ,MF, harness side. There should be **10.0 V** present.

   A. If **10.0 V** is found, continue with Step **5**.

   B. If no voltage is found, continue with Step **3**.

3. Disconnect connector **X281** from the HHC module. Use a multimeter to test for continuity between connector **X279** pin 3 and connector **X281** pin 5.

   A. If continuity is found, continue with **4**.

   B. If no continuity is found, there is an open circuit in the main frame, MF, harness between connector **X279** pin 3 and connector **X281** pin 5 wire 728 pink or 474 pink. Locate the open and repair.

4. Use a multimeter to test for continuity between connector **X281** pin 5 on the main frame, MF, harness side and chassis ground.

   A. If continuity is found, the regulated voltage circuit is shorted to ground, and the HHC module is no longer powering this circuit. Check for fault code **E0525** HHC **10.0 V** Reference Voltage in the error history, and correct this fault.

   B. If no continuity is found, the HHC module is not powering the **10.0 V** Reference Voltage circuit due to an internal fault.Replace the HHC module.

5. The voltage reading on the display monitor is low out of range. Disconnect connector **X279**. Use a multimeter to check for continuity between connector **X279** pin 2 on the main frame, MF, harness side and ground.

   A. If continuity is found, continue with Step **6**.

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ENGINE AND PTO IN - B

AIR INTAKE SYSTEM - 30.A

Air cleaner - Cleaning 30
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831], CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831], CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA
Air cooler - Install 36
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788], CR9040 [Y9G113001 - YAG113831], CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788], CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA
Air cooler - Install 42
CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA
Air cooler - Install 48
CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA
Air cooler - Remove 32
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA
Air cooler - Remove 39
CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA
Air cooler - Remove 45
CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA
AIR INTAKE SYSTEM - General specification 4
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788], CR9040 [Y9G113001 - YAG113831], CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788], CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000], CR9070 [HAJ111001 - HAJ111579], CR9070 [Y8G112001 - Y9G112788], CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788], CR9080 [Y9G113001 - YAG113831], CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA
AIR INTAKE SYSTEM - Install 13
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831], CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA
AIR INTAKE SYSTEM - Install 20
CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA
AIR INTAKE SYSTEM - Install 26
CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA
AIR INTAKE SYSTEM - Remove 10
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831], CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA
AIR INTAKE SYSTEM - Remove 17
CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA
AIR INTAKE SYSTEM - Remove 23
CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA
Sensing system - Torque 5
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788], CR9040 [Y9G113001 - YAG113831], CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788], CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000], CR9070 [HAJ111001 - HAJ111579], CR9070 [Y8G112001 - Y9G112788], CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831], CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

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Install 127
CR9070 [HAJ110001 - HAJ111000], CR9070 [HAJ111001 - HAJ111579], CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831]

Charge pressure relief valve - Replace 129
CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579], CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831]

Charge pressure relief valve - Check 130
CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579], CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831]

DIAGNOSTIC

Command

Transmission command - Testing Ground speed potentiometer 131
CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

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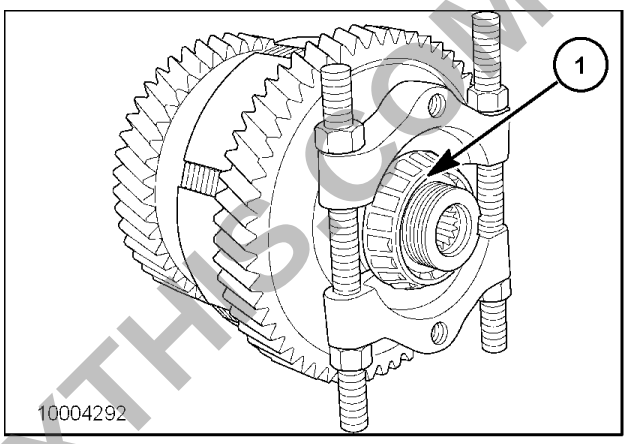
Clutch Unload clutch - Disassemble

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579], CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831], CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579], CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831], CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831], CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

Prior operation:
Clutch - Remove (C.50.B).

1. Remove the outside tapered bearing **(1)** from the unload clutch, by means of a bearing puller.

NOTE: *The image shown is of the main clutch and being used for reference only.*



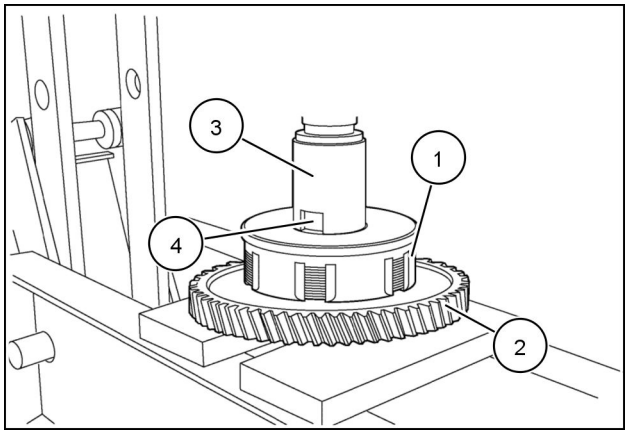
10004292 1

⚠ CAUTION ⚠

Do not, under any circumstances, remove snap ring in front of the multi-disk clutch until pressure is removed from the pressure plate. The pressure plate is under very high spring pressure. Failure to comply may result in minor or moderate injury.

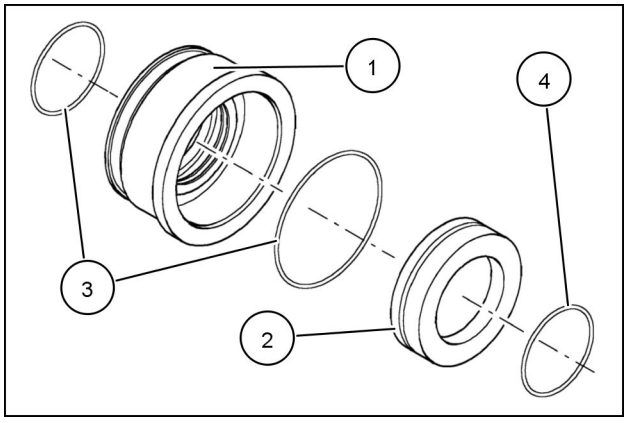
M1254

2. Place the unload clutch assembly **(1)** on a press, with it resting on the spur gear **(2)**.
3. Place a slotted press sleeve **(3)** over shaft and press piston enough to relieve pressure from snap ring **(4)**.
4. Remove the snap ring.
5. Retract the press and remove clutch assembly from the press.



56063805 2

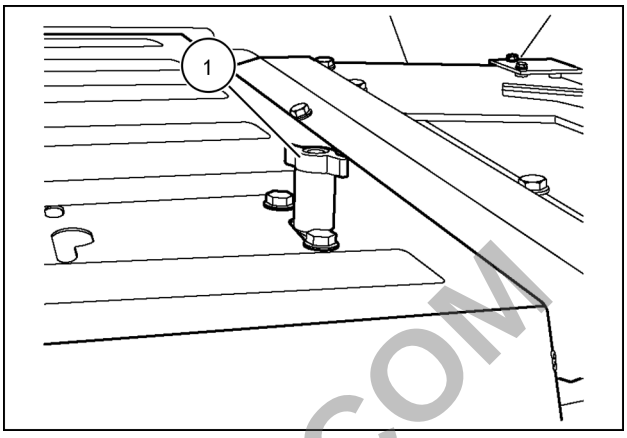
6. Remove the piston **(1)** and the cylinder **(2)** together from the unload shaft.
7. Remove the seals **(3)** from the piston. One inner seal O-ring and one outer seal O-ring. Remove the seal from the cylinder **(4)**. Check seals if worn or damaged.



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12. Lock the top shield lock **(1)** by turning it to engage the lock mechanism.



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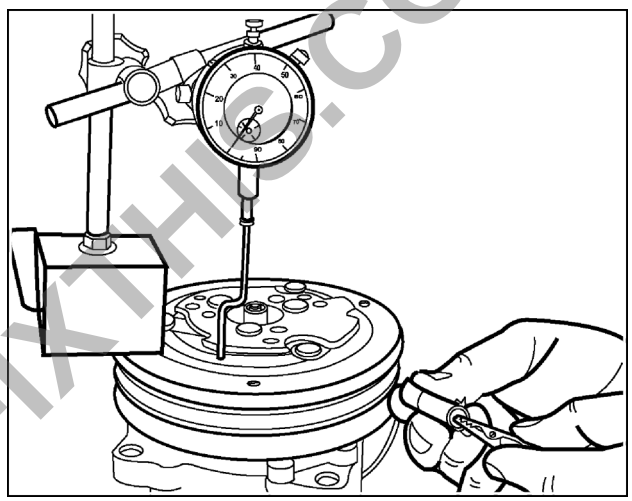
Compressor Magnetic clutch - Adjust air gap

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

Prior operation:
Compressor Magnetic clutch - Install (E.40.D).

NOTE: *Two methods can be used to measure and adjust air gap between clutch plate and pulley. See Step **1** for the magnetic dial method. See Step **2** for the spark plug gauge method. Use only one method to adjust the air gap.*

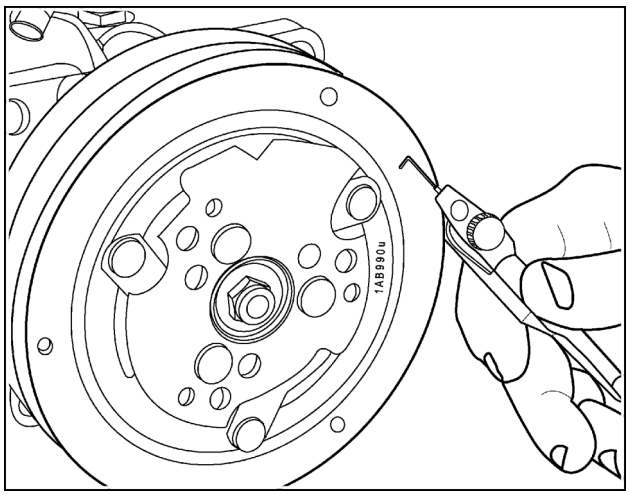
1. Magnetic Dial – Mount a magnetic base dial indicator on the outer face of pulley so that there is no interference with the clutch plate. Apply battery ground to compressor body and **12 V** B+ to clutch wire lead. Position the dial indicator pointer on the flat surface on the outer diameter of the clutch plate midway between any two outer rivets or on one of the outer rivet heads. Clutch plate travel should measure from **0.41 - 0.79 mm** (**0.016 - 0.031 in**). This measurement should be taken between each of the three rivets or on each outer rivet head to get an average measurement. If necessary, lightly lift or push down on the plate to even the gap.



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2. Spark Plug Gauge – If a dial indicator is not available to check air gap clearance, a spark plug gauge with **90 °** wire feelers may be used to check initial air gap in the field. Slip the wire between clutch plate and pulley and check gap at the three rivets. Gap must be **0.41 - 0.79 mm** (**0.016 - 0.031 in**). The gap must be even all the way around the plate. If necessary, lightly lift or push down on plate to make gap even.

NOTE: *If the gap does not meet the above specifications remove front plate and add or subtract clutch shims as required.*

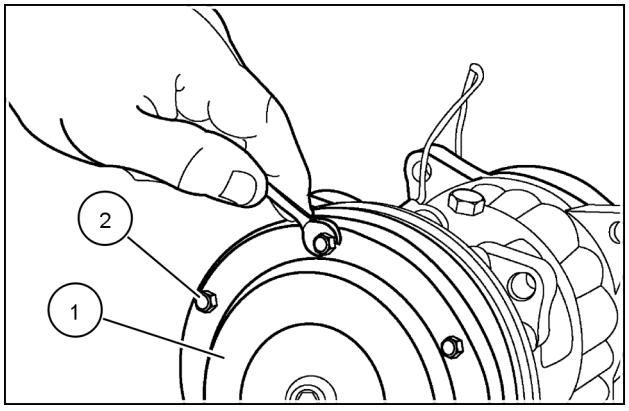


RCPH07CCH072AAC 2

3. Install the clutch dust cover **(1)**.
Install and tighten three M5 Torx® socket head screws **(2)** that attach dust cover to compressor clutch. A T25 driver is required. Torque to **7 - 11 Nm** (**5 - 8 lb ft**).

NOTICE: *Over torque of dust cover screws will cause air gap to become out of spec.*

NOTE: *Figure does not show correct quantity or style of screw head, but is representative.*



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CLEANING Tailings return system K.62.C
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9080 [YAG113901 -] NA

CLEANING Self-levelling frame K.62.D
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9080 [YAG113901 -] NA

RESIDUE HANDLING Straw chopper K.64.C
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9080 [YAG113901 -] NA

RESIDUE HANDLING Spreader K.64.D
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9080 [YAG113901 -] NA

RESIDUE HANDLING Chaff spreader K.64.G
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9080 [YAG113901 -] NA

RESIDUE HANDLING Positive straw discharge (PSD) K.64.H
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9080 [YAG113901 -] NA

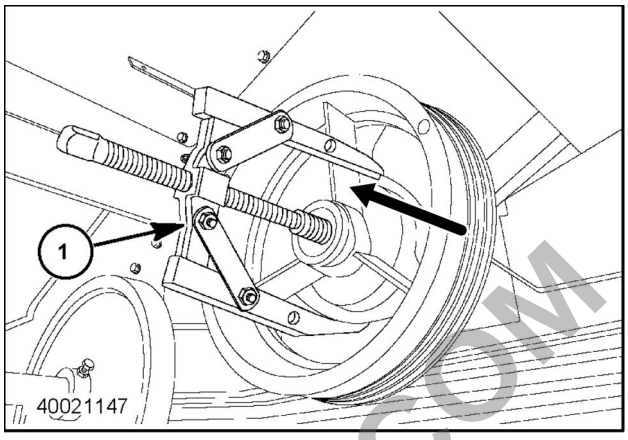
UNLOADING Grain unloading K.72.B
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PROTECTION SYSTEMS Stone trapping K.90.E
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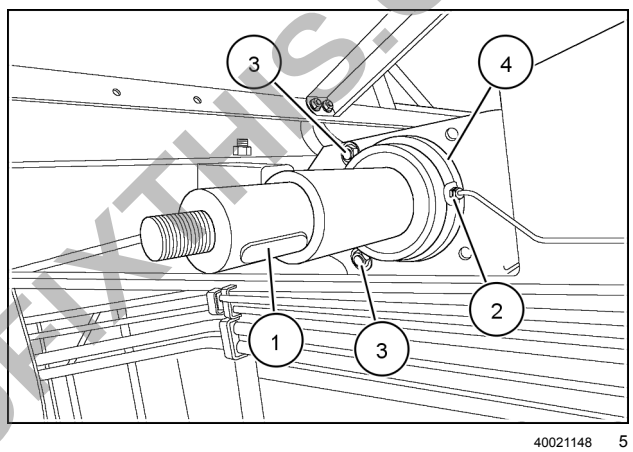
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4. Install a large puller **(1)** onto the sheave and main shaft. The arms of the puller are placed at the center of the pulley. Use the puller to remove the sheave from the cross shaft.



40021147 4

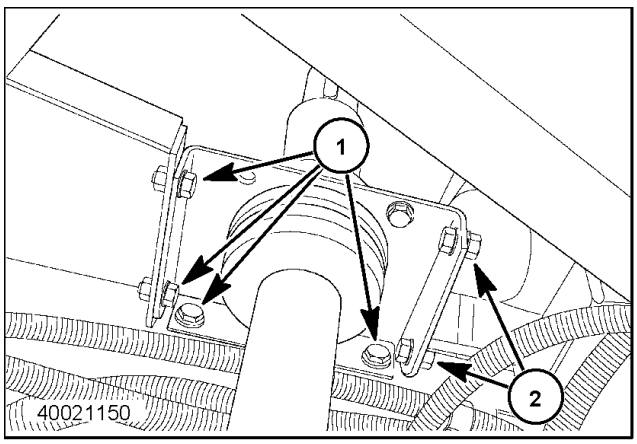
5. Remove the key **(1)** from the cross shaft.
6. Disconnect fitting **(2)** for the grease line from the bearing housing **(4)**.
7. Remove two bolts **(3)** from the side of the bearing retainer plate.



40021148 5

NOTE: *The bolts for each bearing mounting plate can be reached easier from the rear access panel in the combine grain tank. The bolts can also be removed from the side of the combine, if access is not possible through the grain tank.*

8. Remove four bolts **(1)** securing the left side bearing plate to combine frame.
9. Remove two bolts **(2)** which secure the bracket for the hydraulic fluid accumulator to the bearing plate. Position the accumulator away from cross shaft.



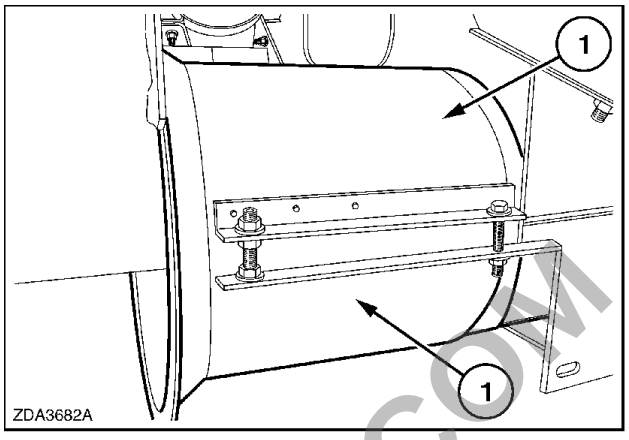
40021150 6

NOTE: *Any missing step numbers indicate material omitted for models and PIN's not specified.*

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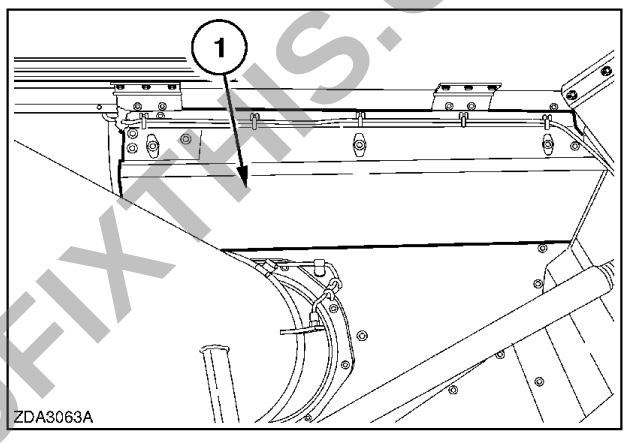
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6. Loosen the bolts to remove clean grain cross auger tube halves **(1)**.



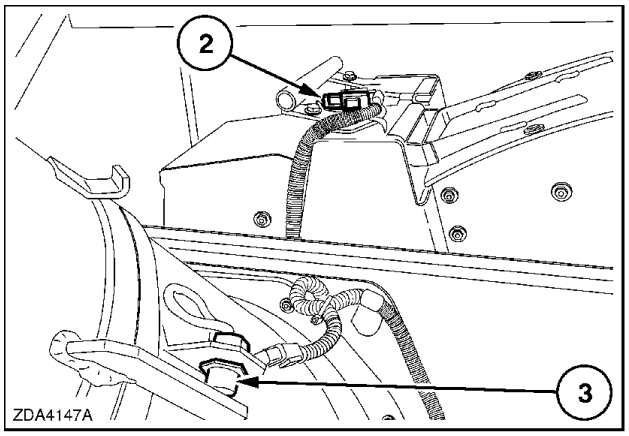
ZDA3682A 4

7. Remove cover **(1)**.



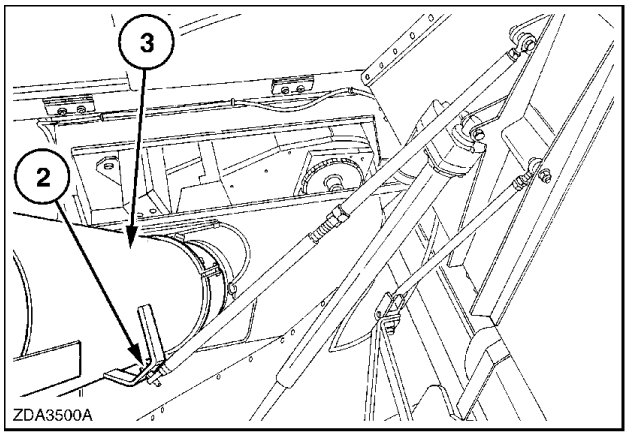
ZDA3063A 5

8. Disconnect the wires of grain flow sensor **(2)** and remove bubble-up tube sensor **(3)**, if installed.



ZDA4147A 6

9. Remove bolt **(2)** to open bubble-up tube **(3)**.



ZDA3500A 7

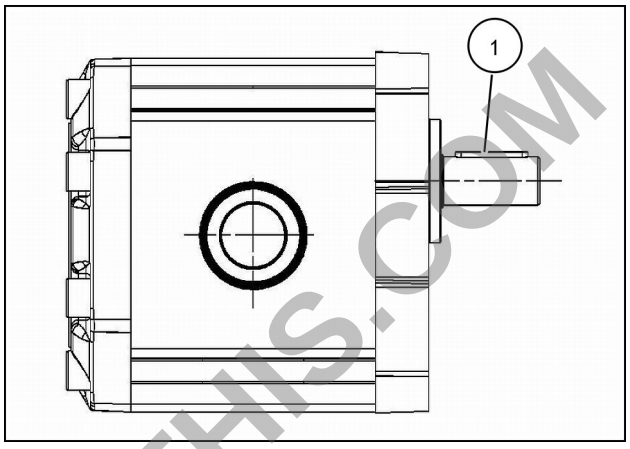
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Fan Motor - Install

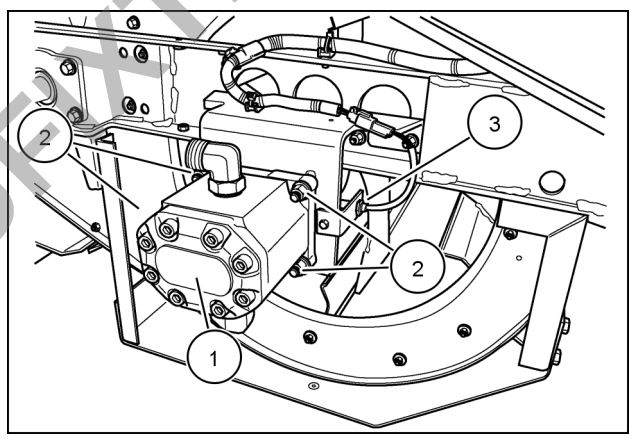
CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

1. Inspect key for wear. Use new key if necessary. Install 5 x 5 x 30 mm round end key **(1)** on the motor shaft.



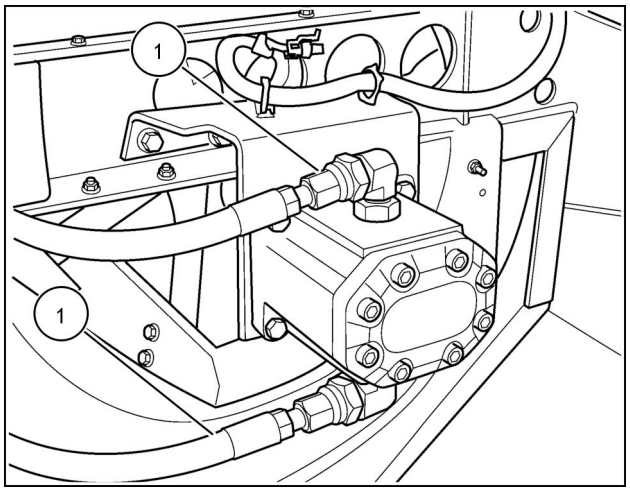
23082236 1

2. Slide the motor shaft into the shaft coupler. Secure the motor **(1)** to the motor bracket using four M10 x 45 mm bolts, washers, lock washers, and nuts **(2)**. Be sure the motor and fan shafts are aligned before tightening the bolts. Adjust the motor and motor bracket if necessary to align the shafts. Tighten the hardware.
3. Check the sensor **(3)** to be sure the adjustment has not changed. The sensor should be **1 - 2 mm** (**0.04 - 0.08 in**) from the nine-lobed flange target.



13051858 2

4. Connect the upper and lower hoses **(1)** to the motor following the proper routing as indicated when removed. Torque the fittings to **90 - 95 Nm** (**66 - 70 lb ft**). Orient the 90 degree elbow fittings approximately 20 degrees outboard from the machine to allow a more natural hose routing. Torque the upper fitting to **75 - 108 Nm** (**55 - 80 lb ft**). Torque lower fitting to **163 - 224 Nm** (**120 - 165 lb ft**).



10051783 3

5. Fill the hydraulic reservoir per recommendations in Operator's Manual.

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RESIDUE HANDLING Chaff spreader - Install

CR9040 [HAJ110001 - HAJ111000] NA, CR9040 [HAJ111001 - HAJ111579] NA, CR9040 [Y8G112001 - Y9G112788] NA, CR9040 [Y9G113001 - YAG113831] NA, CR9040 [YAG113901 -] NA, CR9060 [HAJ110001 - HAJ111000] NA, CR9060 [HAJ111001 - HAJ111579] NA, CR9060 [Y8G112001 - Y9G112788] NA, CR9060 [Y9G113001 - YAG113831] NA, CR9060 [YAG113901 -] NA, CR9070 [HAJ110001 - HAJ111000] NA, CR9070 [HAJ111001 - HAJ111579] NA, CR9070 [Y8G112001 - Y9G112788] NA, CR9070 [Y9G113001 - YAG113831] NA, CR9070 [YAG113901 -] NA, CR9080 [Y8G112001 - Y9G112788] NA, CR9080 [Y9G113001 - YAG113831] NA, CR9065 [Y9G113001 - YAG113831] NA, CR9065 [YAG113901 -] NA

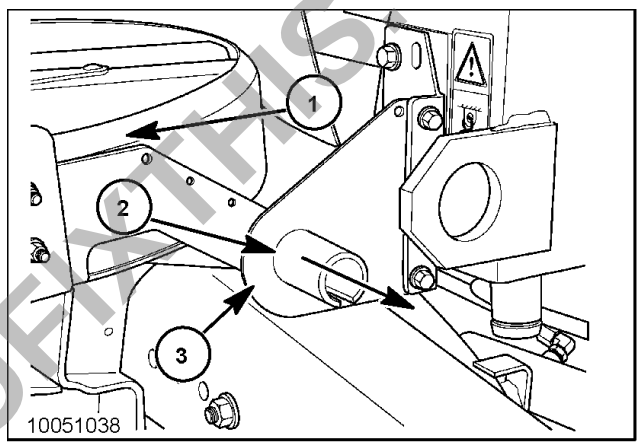
Prior operation:
RESIDUE HANDLING Chaff spreader - Remove (K.64.G).

⚠ CAUTION ⚠

Some components of this machine are very heavy. Use suitable lifting equipment or additional help as instructed in the Service Manual. Failure to comply may result in minor or moderate injury.

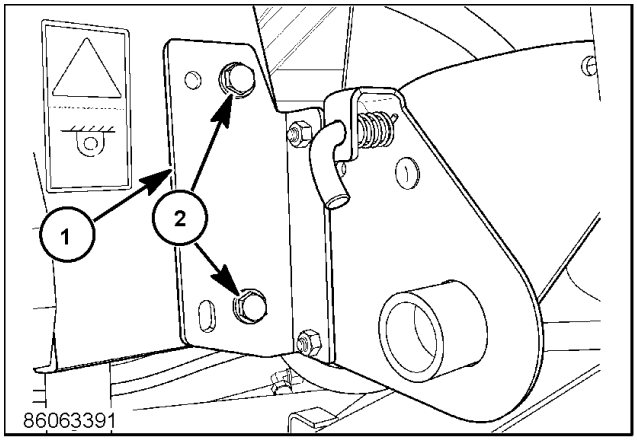
M501

1. With helper assistance, lift Wide Spreader frame **(1)** and slide the right hand support shaft **(2)** through the hole of the right hand bracket **(3)**.
   Mount the left hand side of spreader as shown in following figures for the specific application for wide and narrow combines.



10051038_227 1

2. For wide frame combines, align spreader with attached mainframe bracket **(1)** to main frame, and then install two M12 x 30 cap screws **(2)** with lock washers.
   Tighten hardware.
   Proceed to Spring and Spring Cage installation in step **4**.



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