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Coffee Express 100
Coffee Express Harvester

SERVICE MANUAL

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English
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CASE IH AGRICULTURE

Contents

INTRODUCTION

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

Hitches, drawbars, and implement couplings 37

[37.110] Rear three-point hitch 37.1

Frames and ballasting 39

[39.100] Frame 39.1

Electrical systems 55

[55.927] Shaking control system 55.1

[55.100] Harnesses and connectors 55.2

[55.520] Cab harvesting controls 55.3

Cleaning 74

[74.000] Cleaning 74.1

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Torque

Use the torques in this chart when special torques are not given. These torques apply to fasteners with both UNC and UNF threads as received from suppliers dry, or when lubricated with engine oil. Not applicable if special graphite lubricants, Molydisulfide greases, or other extreme pressure lubricants are used.

Decimal hardware

Grade 5 bolts, nuts, and studs

Size	Nm	lb in/lb ft
1/4 in	12 – 15 Nm	108 – 132 lb in
5/16 in	23 – 28 Nm	204 – 252 lb in
3/8 in	48 – 57 Nm	420 – 504 lb in
7/16 in	73 – 87 Nm	54 – 64 lb ft
1/2 in	109 – 130 Nm	80 – 96 lb ft
9/16 in	149 – 179 Nm	110 – 132 lb ft
5/8 in	203 – 244 Nm	150 – 180 lb ft
3/4 in	366 – 439 Nm	270 – 324 lb ft
7/8 in	542 – 651 Nm	400 – 480 lb ft
1 in	787 – 944 Nm	580 – 696 lb ft
1-1/8 in	1085 – 1193 Nm	800 – 880 lb ft
1-1/4 in	1519 – 1681 Nm	1120 – 1240 lb ft
1-3/8 in	1980 – 2278 Nm	1460 – 1680 lb ft
1-1/2 in	2631 – 2983 Nm	1940 – 2200 lb ft

Markings for Grade 5 hardware



Grade 8 bolts, nuts, and studs

Size	Nm	lb in/lb ft
1/4 in	16 – 20 Nm	144 – 180 lb in
5/16 in	33 – 39 Nm	288 – 348 lb in
3/8 in	61 – 73 Nm	540 – 648 lb in
7/16 in	95 – 114 Nm	70 – 84 lb ft
1/2 in	149 – 179 Nm	110 – 132 lb ft
9/16 in	217 – 260 Nm	160 – 192 lb ft
5/8 in	298 – 358 Nm	220 – 264 lb ft
3/4 in	515 – 618 Nm	380 – 456 lb ft
7/8 in	814 – 976 Nm	600 – 720 lb ft
1 in	1220 – 1465 Nm	900 – 1080 lb ft
1-1/8 in	1736 – 1953 Nm	1280 – 1440 lb ft
1-1/4 in	2468 – 2712 Nm	1820 – 2000 lb ft
1-3/8 in	3227 – 3688 Nm	2380 – 2720 lb ft
1-1/2 in	4285 – 4827 Nm	3160 – 3560 lb ft

Markings for Grade 8 hardware



NOTE: *Use thick nuts with Grade 8 bolts.*

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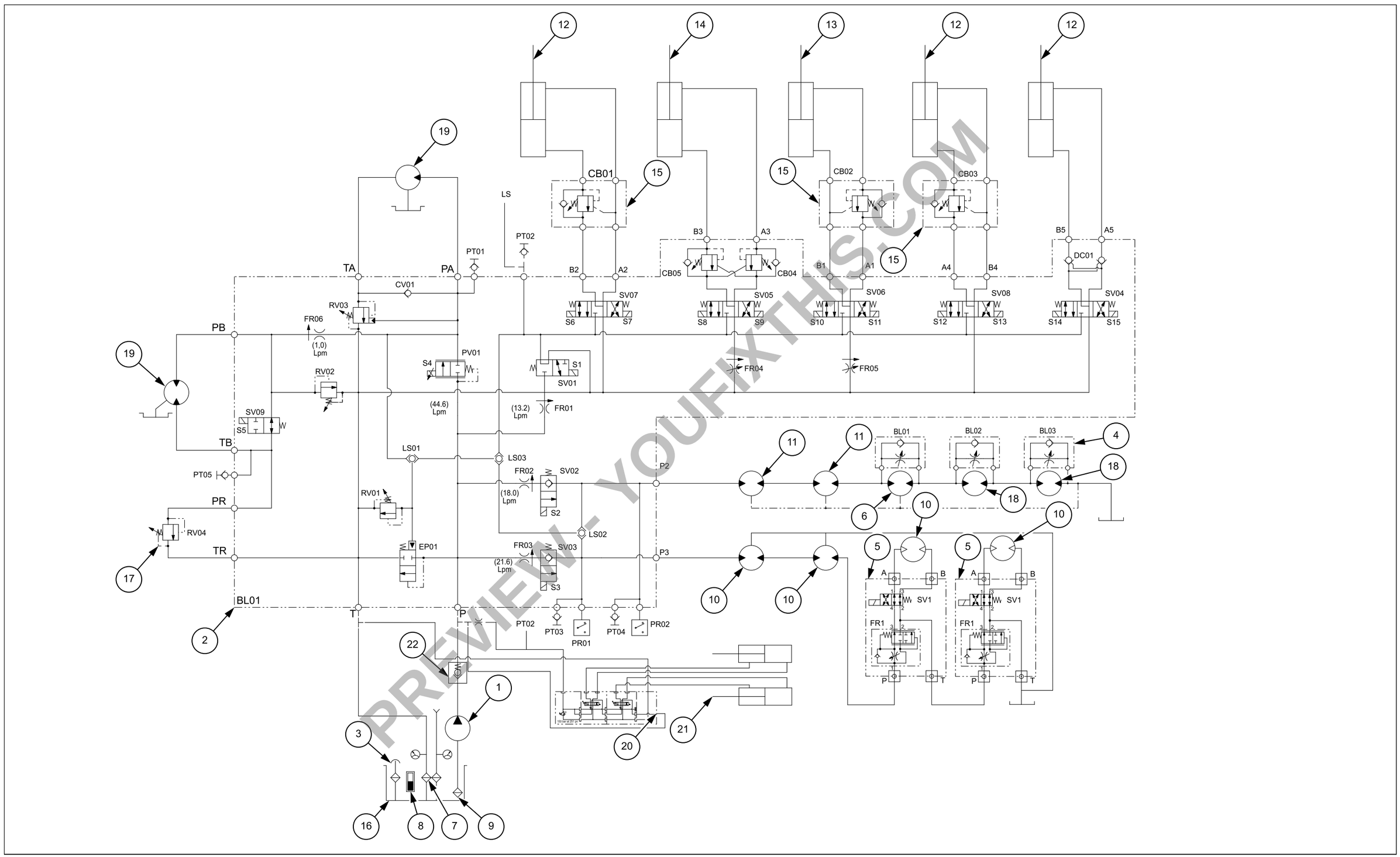
Power specification

Technical data of the harvester

Tractor	
Necessary power	**55 kW** (**75 Hp**)
Power take-off speed	**540 RPM**
Required speed range	**0,4 km/h** to **2 km/h**
Minimum power take-off power	**29 kW** (**40 Hp**)
Lifting capacity	**2000 kg**
Number of splines on power take-off	6
Maximum width	**1500 mm**
Minimum alternator current	**90 A**

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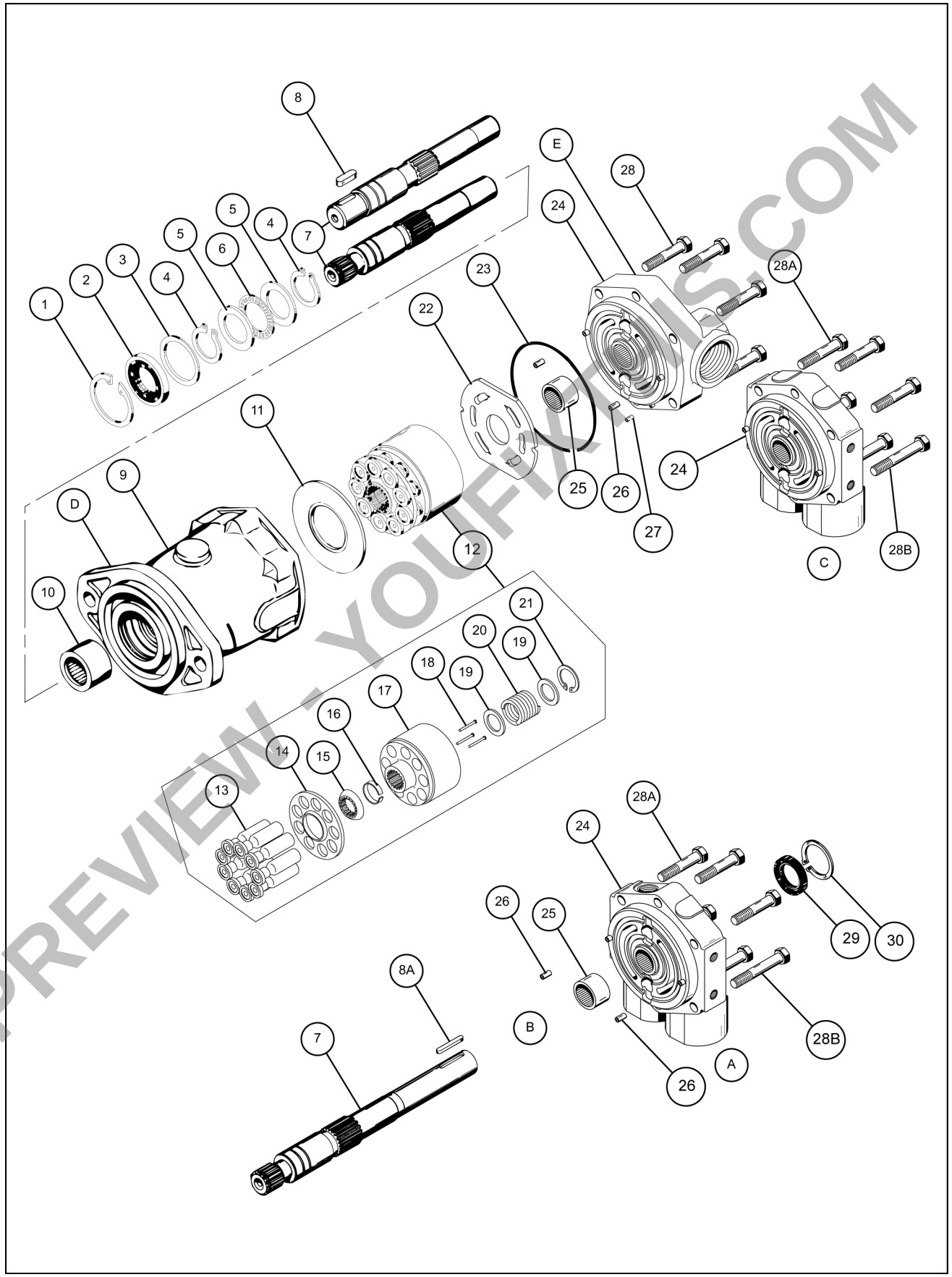
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Hydraulic motors - Exploded view

Parts drawing



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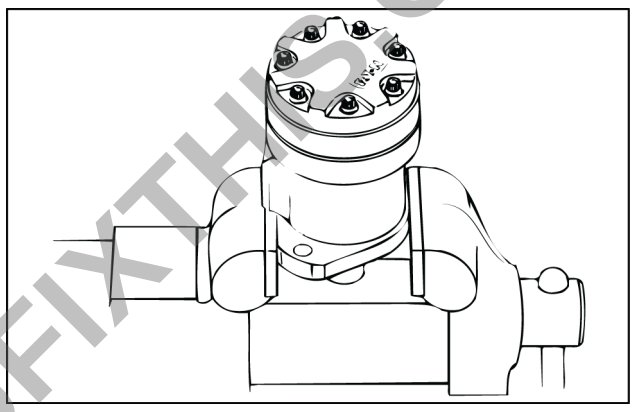
Hydraulic motors - Disassemble

Cleanliness is extremely important when repairing motors.

Work in a clean area. Before disconnecting the lines, clean port area of motor. Remove key when used. Check shaft and key slot, remove burrs, nicks or sharp edges and polish around the key slot. Before starting disassembly, drain oil from motor, then plug ports and thoroughly clean exterior of motor.

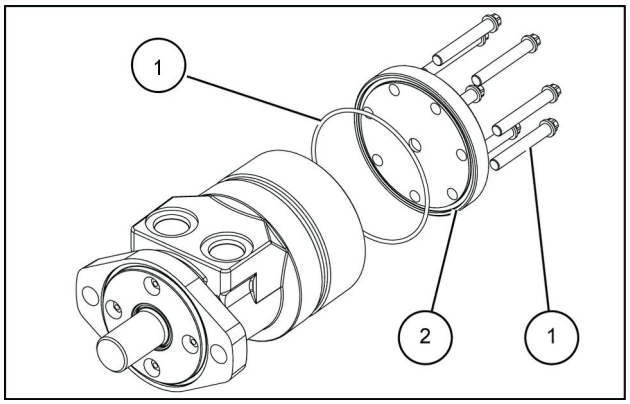
Although not all drawings show the motor in a vise, we recommend that you keep the motor in the vise during disassembly. Follow the clamping procedures explained throughout the manual.

1. Place motor in vise, clamp across edge of flange with output shaft down. When clamping, use protective device on vise, such as soft jaws, pieces of hard rubber or wood, see Fig. **1**.
2. Some motors may have a case drain plug in the end cap. If external case drain is not used, it is not necessary to replace the seal **(3)** unless leakage occurs.



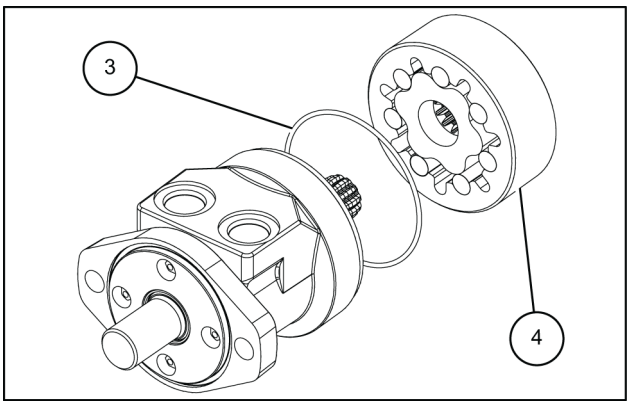
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3. Remove end cap **(2)**, see Fig **2**.
4. Remove seal **(3)** from end cap **(2)**.



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5. Remove Geroler-retain rollers in the outer Geroler ring **(4)**, see Fig. **3**.
6. Remove seal from spacer plate, see Fig. **3**.



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Hydraulic systems - Troubleshooting Diagnostic and checks

Model with grain tank, as from the chassis PRCYE200LEPB00186

OPERATION

Inspection and Verification

1. To test, operate each of the systems. Observe each system to identify possible causes.
2. If you find any issues, go to the “Table of Symptoms”.

Visual Inspection Table

Mechanical
Conveyor components.
Fixing bolt(s)
Spring(s)
Cradle(s)
Shaker bearing(s)
Non-OEM (factory original) parts or modifications

3. If an obvious cause is found for an issue seen or reported, correct the cause (if possible) before you proceed to the next step.

TROUBLESHOOTING

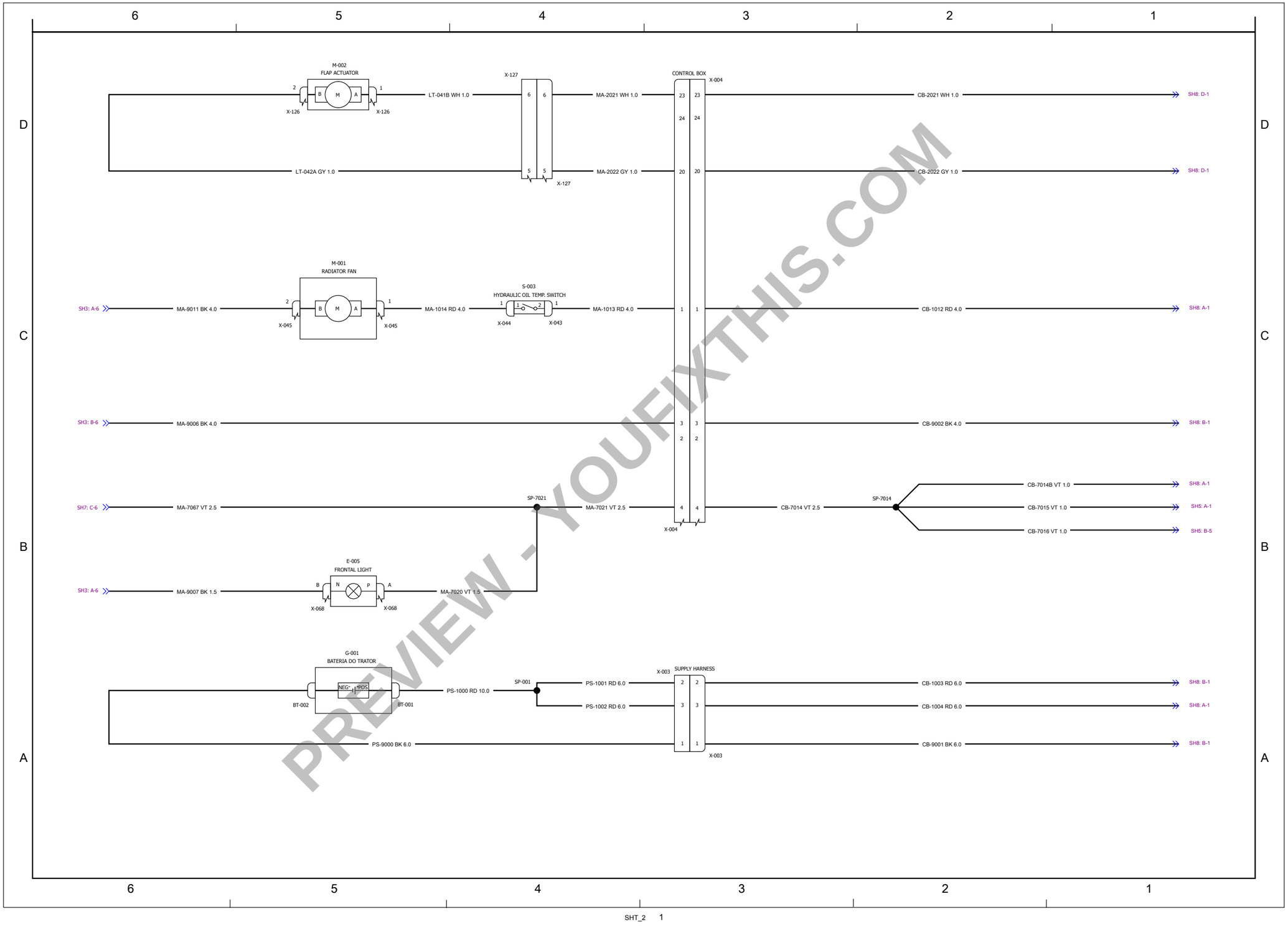
Table of Symptoms

1. Conveyor system

Symptoms	Likely Causes	Corrective Action
Hydraulic motor of the horizontal conveyors has a leak.	Faulty internal seals.	Check the system pressure Replace the hydraulic motor. For more information, see item **Hydraulic motors - Remove - Horizontal conveyor (35.000)** or **Hydraulic motors - Install - Horizontal conveyor (35.000)**.
Shaker rollers turn more than three turns per minute on their axle.	Faulty intensity hydraulic motor, caused when internal oil leak through the drain is noticed.	Replace the hydraulic motor. For more information, see item **Hydraulic motors - Remove - Horizontal conveyor (35.000)** or **Hydraulic motors - Install - Horizontal conveyor (35.000)**.
	Faulty intensity valve. The closed valve allows the passage of oil.	Replace the intensity valve
Low flow from the blowers, side conveyors, and transverse conveyors system	Pressure below the factory-specific value.	Adjust the relief valve to 2000 psi
Low flow from the horizontal and vertical conveyors system	Pressure below the factory-specific value.	Adjust the relief valve to 2000 psi
Shaker roller rotation above 1000 rpm	PWM plate with values related to maximum PWM changed.	Adjust the PWM plate. If the fault is not corrected, replace the PWM plate
Side conveyor does not raise when the switch is engaged	Fault in the safety switch P/N 82026949.	Replace the switch.For more information, see the item “Side conveyor switch – Replace”, in this section.
	Missing switch P/N 82026949.	Order and install the switch.For more information, see the item “Side conveyor switch – Replace”, in this section.

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Index

Hydraulic systems - 35

Hydraulic systems - 000

Hydraulic motors - Assemble 40
Hydraulic motors - Disassemble 36
Hydraulic motors - Exploded view 21
Hydraulic motors - Install - Horizontal conveyor 52
Hydraulic motors - Overview 24
Hydraulic motors - Remove - Horizontal conveyor 49
Hydraulic systems - Flow test - Blowers 30
Hydraulic systems - Hydraulic schema 17
Hydraulic systems - Overview 3
Hydraulic systems - Overview 5
Hydraulic systems - Overview 7
Hydraulic systems - Overview 9
Hydraulic systems - Overview 11
Hydraulic systems - Overview 15
Hydraulic systems - Power test - Blowers 32
Hydraulic systems - Pressure test - Blowers 31
Hydraulic systems - Service instruction - 2000 series and S series Char-Lynn motor and steering control 25
Hydraulic systems - Troubleshooting Diagnostic and checks 54

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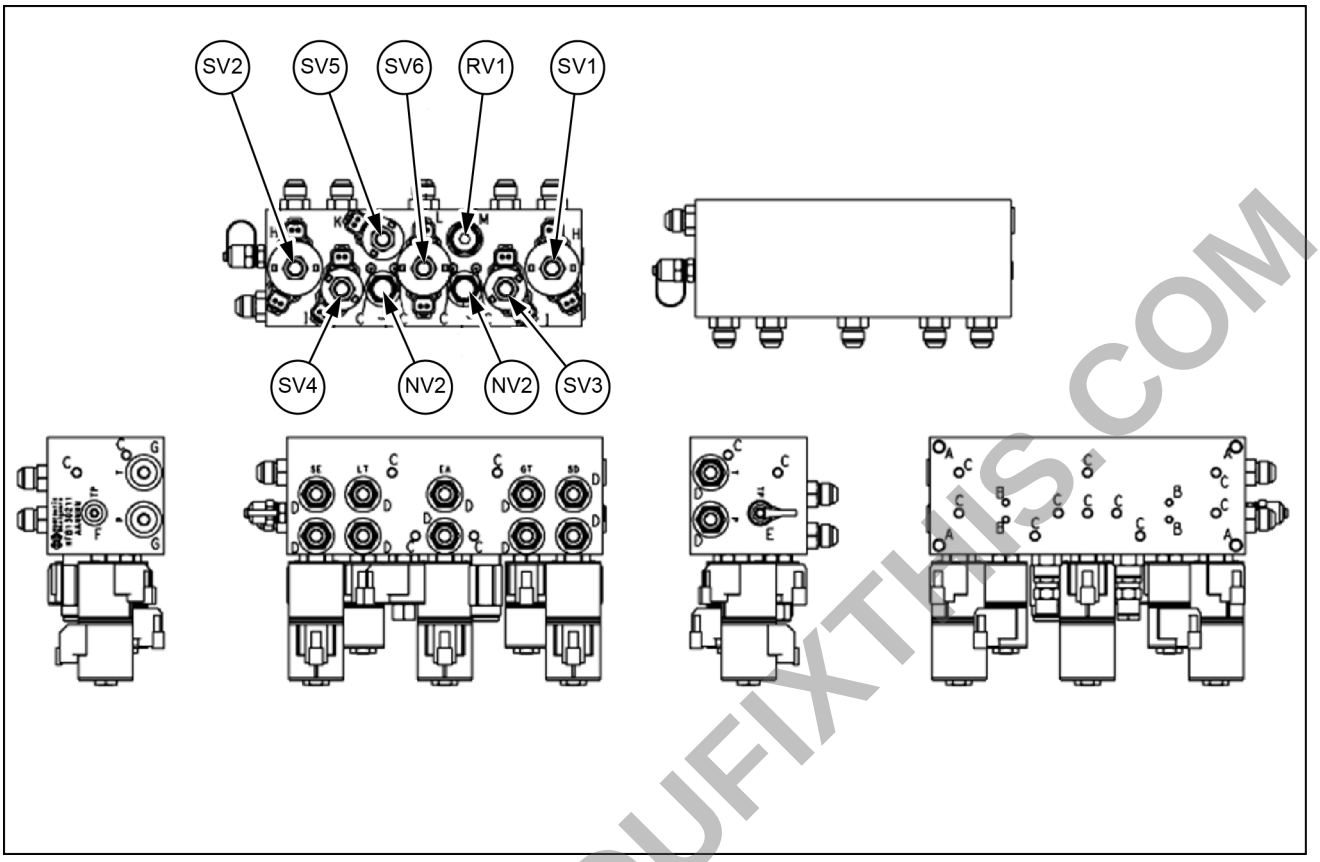
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INTRODUCTION

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Valve reference dimensions and identification/torques:



SOIL14COF0130FB 3

Valve port torque specification:

Port	QTY	Torque value
A	4	--------
B	4	--------
C	22	--------
D	12	**35 N·m**
E	1	**17 N·m**
F	1	**17 N·m**
G	2	**25 N·m**
H	2 4	**35 N·m** **7 N·m**
I	2 4	**25 N·m** **7 N·m**
J	2	**25 N·m**
K	1	**25 N·m** **7 N·m**
L	1 2	**35 N·m** **7 N·m**
M	1	**25 N·m**

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Symptoms	Likely Causes	Corrective Action
	Inversion in the position of the wires on the wiring harness connector.	Check the position of the wires. The wires must be in position 01 and 02 of connector pins.

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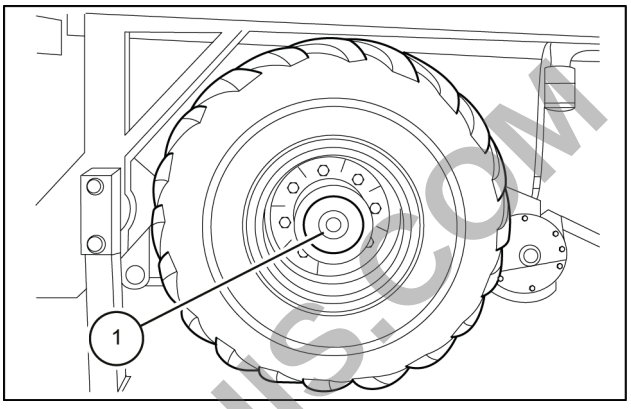
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Frame - Check

Wheel hubs

Filling it Up

The hub oil change should be performed according to the table.
To check the oil in the hub, position the wheel so that the plug **(1)** stays level with the center of the wheel.



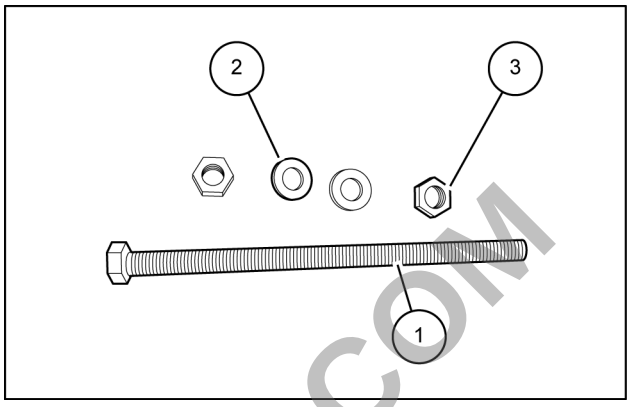
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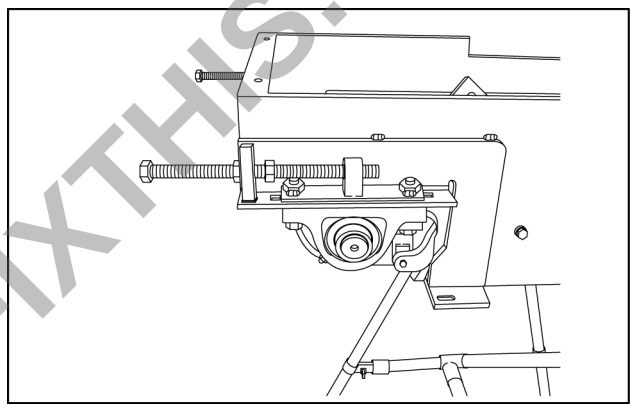
Frame - Install Track Tensioners

1. Separate the adjusting bolt item **(1)**, washers item **(2)** and nuts item **(3)**.



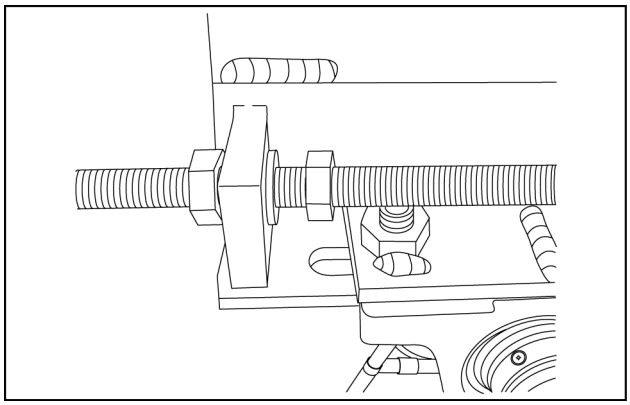
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2. Install the adjusting bolts **(1)**, as shown, noting the positions of the washers, nut and lock nut.
   Use a **17 mm** fixed wrench.

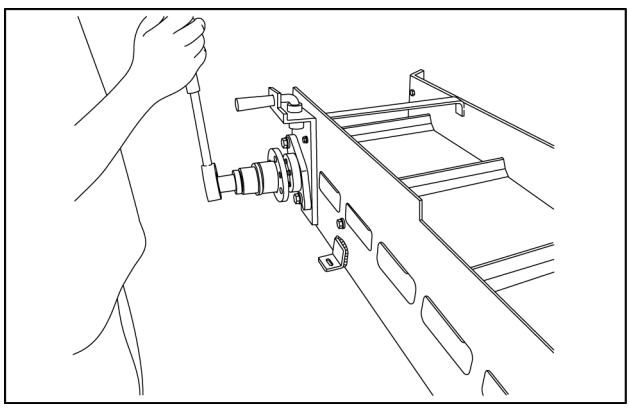


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3. Per Fig. **3** and Fig. **4**, adjust and align the track using the adjustment bolts item **(1)**.
   Use a suitable ratchet wrench.
   To obtain the correct adjustments and track alignment, tighten and lock the assembly using the nut and lock nut.



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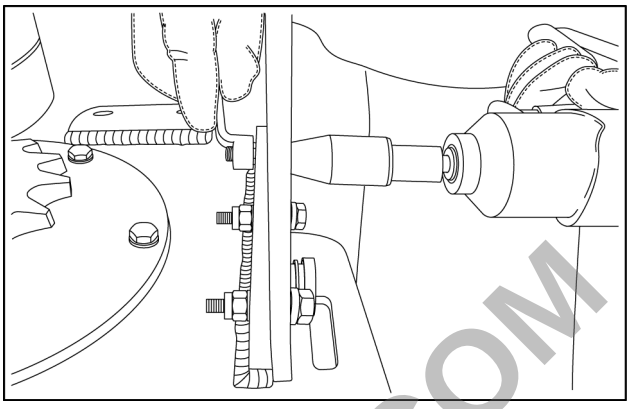


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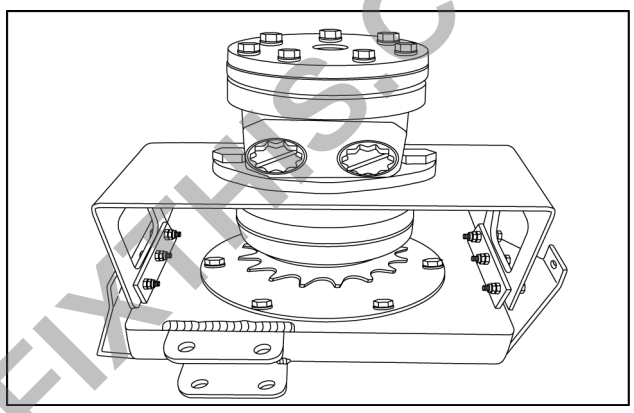
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4. Secure the bolts and the assembly using a **10 mm** socket wrench.



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Electrical systems - 55

Shaking control system - 927

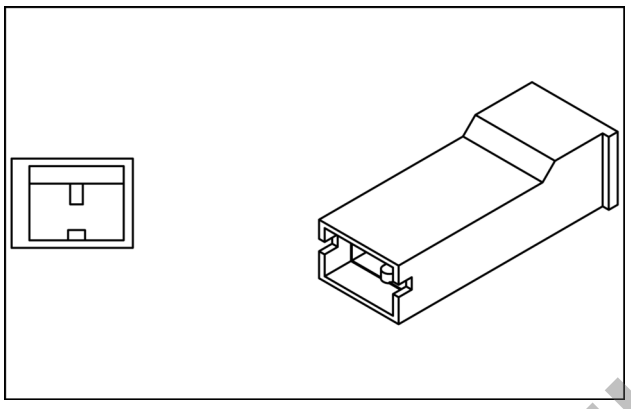
Coffee Express 100 Model year 2016 [PRCYE100VGPB00320 - PRCYE100LHPB00393]

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Pin	From	Wire	Description	Color-Size	Frame
1	SP-018-P-X	MA-8009	MA-8009	YE - 1.0	**SHEET 05 SH05 - PWM, GAUGES, PRESSURE SWITCH**

X-062A - PRESSURE SWITCH GND [S-011] (87675193) (Receptacle)

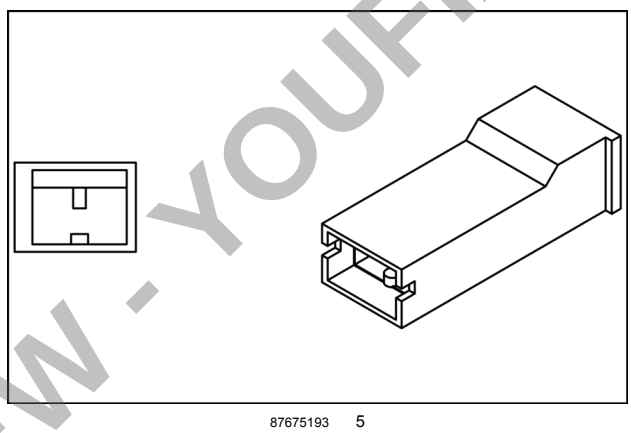


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Pin	From	Wire	Description	Color-Size	Frame
1	SP-9031-P-X	MA-9027	MA-9027	BK - 1.0	**SHEET 05 SH05 - PWM, GAUGES, PRESSURE SWITCH**

X-063 - PRESSURE SWITCH [S-010] (87675193) (Receptacle)

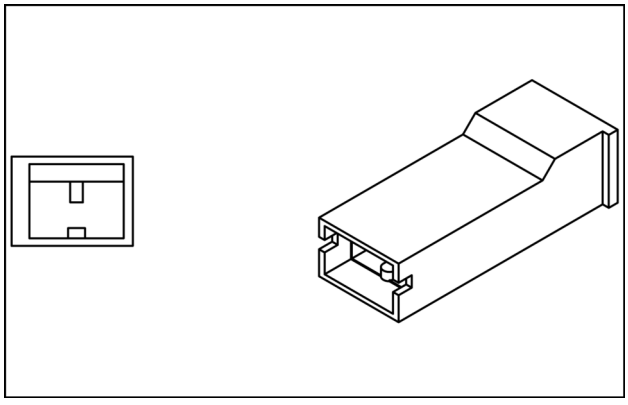


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Pin	From	Wire	Description	Color-Size	Frame
1	SP-018-P-X	MA-8008	MA-8008	YE - 1.0	**SHEET 05 SH05 - PWM, GAUGES, PRESSURE SWITCH**

X-063A - PRESSURE SWITCH GND [S-010] (87675193) (Receptacle)



87675193 6

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