SERVICE MANUAL

V110
Soil Compactor

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May 2018

NEW HOLLAND CONSTRUCTION

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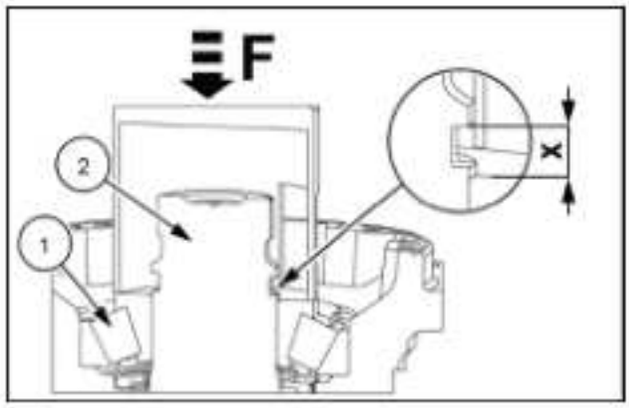
Engine - Troubleshooting

Problem	Possible Cause	Correction
Engine does not start even though starter is cranking.	Empty fuel tank	• Replenish fuel • Bleed the fuel system.
	Fuel system leaks	• Inspect the connections for leaks. • Eliminate leaks. • Prime the fuel with the hand priming pump.
	Air in the fuel system	Bleed the fuel system.
	Clogged precleaner, fuel cleaner or distribution system.	• Clean the distribution system. • Replace the filter elements.
	Precleaner, fuel cleaner or distribution system clogged with paraffi n deposits in the winter.	• Clean the system. • Use winter-grade fuel.
	The starter turns slowly – poorly charged battery, oxidized terminals or loose clamps at the terminals.	• Inspect the state of the battery. • Replenish electrolyte. • Clean the contacts. • Grease and tighten the clamps.
	Oil used too dense during winter season.	Use oil suitable for the actual ambient temperature.
	The engine is stopped after starting by the "engine shut-off" device. The hydraulic oil level indicator lamp is on.	Replenish hydraulic oil up to the prescribed level.
	The engine is stopped after starting by the "engine shut-off" device. The hydraulic oil level indicator lamp is off.	• Check the hydraulic oil level indicator lamp. • Check voltage at the engine stop magnet Y5 (inspect the fuse F3, cables, relay K3, connectors).
	Faulty delivery valve at the injection pump.	Contact your authorized engine dealer.
Engine does not start and starter does not crank.	The machine electrical system is disconnected.	Turn on the battery master switch to activate the electrical system.
	Starting conditions are not met.	The tilting arm of the travel controller is lifted or the emergency brake button is depressed.
	Problem with electric supply.	Repair or replace the electrical supply harness.
	The travel controller is not in the neutral position and the neutral position indicator lamp is off.	Move the travel controller to the neutral position.
	Faulty battery or connections.	• Test the battery voltage, • Check the cables and connections.
	Starter	Inspect the starter connection and check whether the pinion shifts out.
	Switch box	Check the function and connection of the switch box (cables, function of the relay K4, terminal switches S13, S10, S11, terminals, etc.).
	Mechanical failure of the engine, the clutch or the hydrostatic system.	Verify whether the engine can turn over by turning the belt pulley at the crankshaft.
Engine is overheating.	Insufficient coolant	• Quickly stop the engine. • Replenish coolant. • Find the leak and repair it.
	Clogged radiator	Clean the radiator.
	Incorrect belt tension or broken belt.	• Adjust the tension. • Replace the belt.

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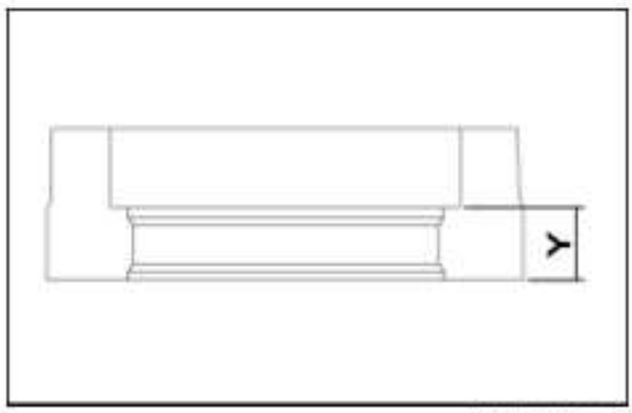
Option C

1. While applying the Fx force, measure the gap X between the rear bearing **(1)** and the upper edge of the bearing support shaft's **(2)** groove.



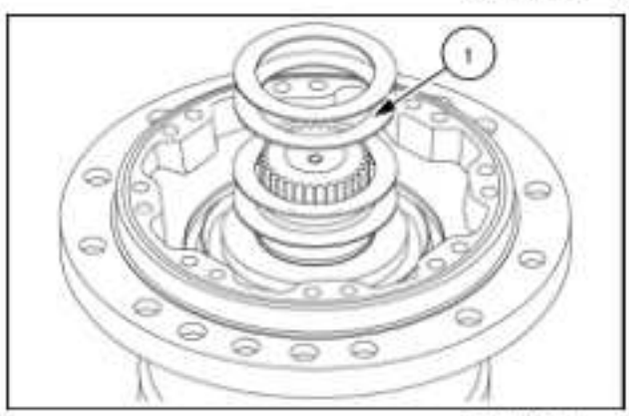
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2. Take the dimension Y from the dimension X to obtain shimming value.



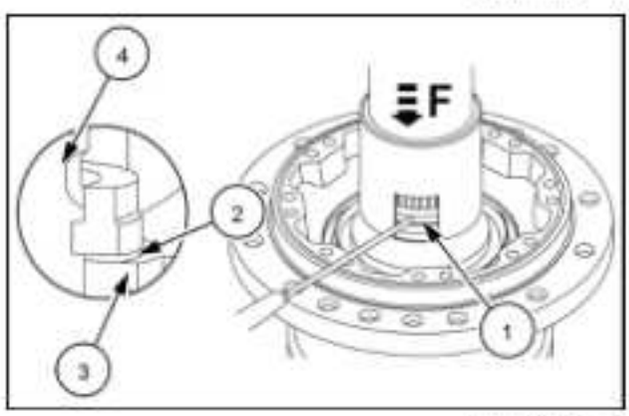
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3. Release the pressure.
4. Take shims with overall dimension = X-Y.
5. Insert the set of shims **(1)** through the shaft onto the bearing.



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6. Install the ground split ring **(1)** through the bearing support shaft onto the shims **(2)**.
7. Apply the pressure Fx.
8. Using a drift punch tap the ground split ring **(3)** in its grove in the shaft **(4)**.



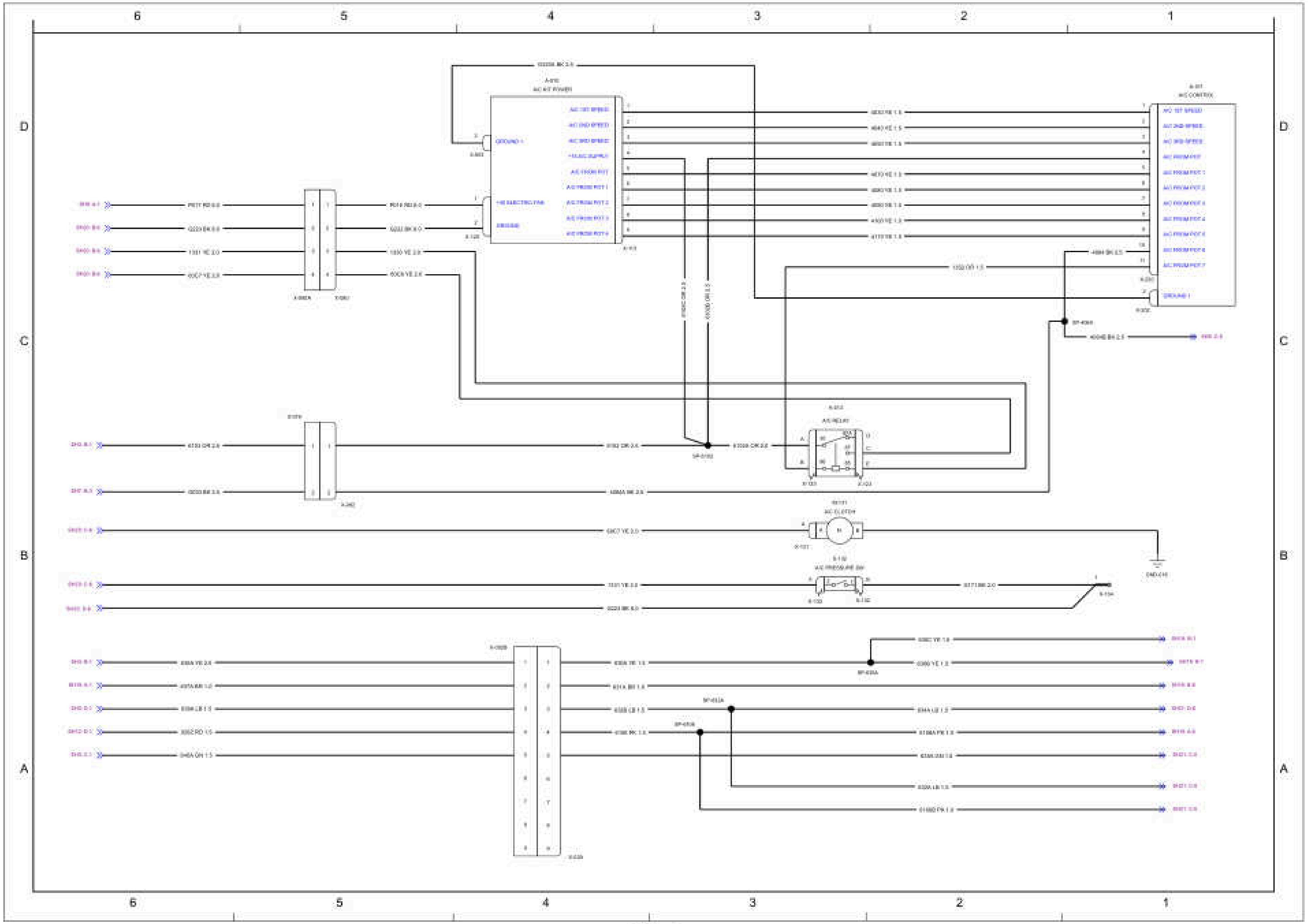
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Wiring harnesses - Electrical schematic sheet 16 SH-016 SIDE & amp; FRONT WORK LAMP SYSTEM (OPTIONAL)

Type	Component	Connector / Link
Lamp	**E-001** - FRONT WORK LAMP 1 (Lamp)	**X-16** - FRONT WORK LIGHT RH [E-001 (87708145)
Lamp	**E-002** - FRONT WORK LAMP 2 (Lamp)	**X-26** - FRONT WORK LAMP 2 [E-002 (87708145)
Lamp	**E-005** - SIDE WORK LIGHT RH (Lamp)	**X-06A** - SIDE WORK LIGHT RH [E-005 (87708145)
Lamp	**E-006** - SIDE WORK LIGHT LH (Lamp)	**X-22** - SIDE WORK LIGHT LH [E-006 (87708145)
Relay	**K-009** - S.W.L.RELAY (Relay)	**X-035** - S.W.L.RELAY [K-009 (47781081)
Relay	**K-011** - F.W. LIGHT RELAY (Relay)	**X-033** - F.W. LIGHT RELAY [K-011 (47781081)
Switch	**S-009** - F.W.L. SW. (Switch)	**X-049** - F.W.L. SW. [S-009 (87716755)
Switch	**S-009A** - F.W.L. SW. (Switch)	
Switch	**S-013** - S.W. LIGHT SWITCH (Switch)	**X-043** - S.W. LIGHT SWITCH [S-013 (87716755)
Switch	**S-013A** - S.W. LIGHT SWITCH (Switch)	
Connector		**X-033** - F.W. LIGHT RELAY [K-011 (47781081)
Connector		**X-035** - S.W.L.RELAY [K-009 (47781081)
Connector		**X-043** - S.W. LIGHT SWITCH [S-013 (87716755)
Connector		**X-049** - F.W.L. SW. [S-009 (87716755)
Connector		**X-05A** - TO MAIN HARNESS S.W. LIGHT (84182898)
Connector		**X-06A** - SIDE WORK LIGHT RH [E-005 (87708145)
Connector		**X-072** - S.W.LIGHT HARNESS (84477032)
Connector		**X-073** - CANOPY HARNESS (84182898)
Connector		**X-081** - TO MAIN HARNESS F.W. & R.W. (84477032)
Connector		**X-16** - FRONT WORK LIGHT RH [E-001 (87708145)
Connector		**X-22** - SIDE WORK LIGHT LH [E-006 (87708145)
Connector		**X-26** - FRONT WORK LAMP 2 [E-002 (87708145)

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