An Oshkosh Corporation Company

Service Manual

Models

3706PS, 3707PS,
4014PS, 4017PS

Agrovector

33.7, 37.6, 37.7

33.7, 37.6, 37.7,
3706PS, 3707PS & 4014PS
S/N 1160006593 & After

4017PS
S/N 1160006867 & After including
1160006594, 1160006604, 1160006748,
1160006752, 1160006755, 1160006756

31200800

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5.9 AXLE ASSEMBLY AND DRIVE SHAFT TROUBLESHOOTING

Problem	Possible Causes	Remedy
1. Excessive axle noise while driving.	1. Oil level too low.	1. Fill oil to correct level. Refer to Section , "."
	2. Axle and/or wheel end housings filled with incorrect oil or oil level low.	2. Drain axle and/or wheel end housings and fill to correct level. Refer to Section , "."
	3. Incorrect alignment of ring and pinion gears.	3. Correct alignment by adding or removing shims as needed.
	4. Incorrect pinion (input) shaft bearing preload.	4. Correct bearing preload by adding or removing shims as needed.
	5. Worn or damaged bearings.	5. Replace bearings as needed.
	6. Worn or broken gear teeth.	6. Replace gears as needed.
	7. Contamination in the axle.	7. Drain axle and/or wheel end housings and fill to correct level. Refer to Section 2.3, "Fluids, Lubricants and Capacities."
	8. Axle housing damaged.	8. Replace damaged parts.
2. Intermittent noise when traveling.	1. Universal joint(s) worn or damaged.	1. Repair or replace universal joints as needed.
	2. Differential ring and/or pinion gears damaged.	2. Determine cause and repair as needed.
3. Vibration or intermittent noise when traveling.	1. Drive shaft universal joint assembly(ies) incorrectly tightened.	1. Tighten capscrews to correct torque.
	2. Drive shaft universal joint(s) worn or damaged.	2. Repair or replace universal joints as needed.
	3. Drive shaft(s) damaged/ unbalanced.	3. Replace drive shaft(s) as needed.

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9.17.2 Field Calibration

Model	Market	Test Weight (W)	X Tip (1)	X Cal (2)	X Place (3)
3706PS, 37.6	CE	3000 kg (6614 lb)	1721 mm (68 in)	1415 mm (56 in)	NA
3707PS, 37.7	CE	3000 kg (6614 lb)	1830 mm (72 in)	1480 mm (58 in)	NA
4014PS	CE	1000 kg (2205 lb)	2726 mm (107 in)	2077 mm (82 in)	1500 mm (59 in)
	AUS		2837 mm (111 in)	2259 mm (89 in)	
4017PS After SN 1160006867	CE	1000 kg (2205 lb)	2137 mm (84 in)	1731 mm (68 in)	1500 mm (59 in)
	AUS		2050 mm (81 in)		

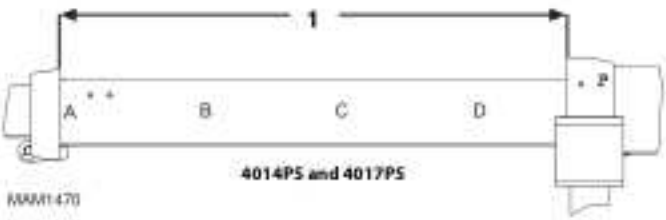
To calibrate the LSI, certain conditions must be met:

- The sensor must be installed according to Section 9.16, "LSI Sensor."
- The test weight matches the model being calibrated in the table shown above.
- The calibration shall be conducted with standard carriage and forks attached to the machine.

Note: *If the test weight is not known, follow steps 1 & 2.*



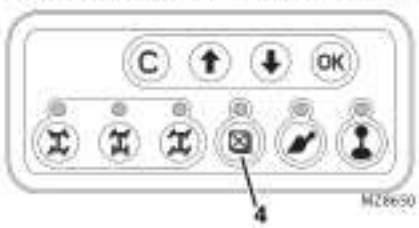
3706PS, 3707PS, 37.6 & 37.7



4014PS and 4017PS

MMM1470

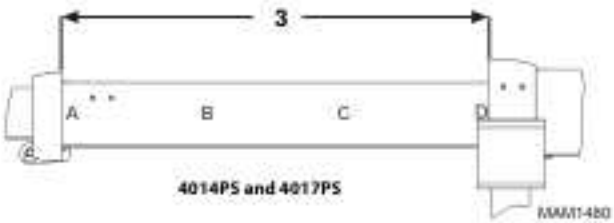
1. With the estimated test weight on the forks, start the machine and extend the boom horizontally until the machine starts to tip. This point should be at an extension of X Tip (**1**) of the second boom section. If the machine is not tipping at this extension, weight needs to be added or removed from the forks.



   Pressing the LSI override button (**4**) up to 30 seconds may be required to reach tipping point.

2. By confirming that the machine tips at this point, the correct amount of weight is now on the forks.
3. The machine control system must be powered on for at least 3 minutes before calibration.
4. The machine must be on a level surface with the wheels steered straight, boom fully retracted, level and park brake OFF, with standard carriage, forks and test weight attached to the machine.
5. Drive the machine forward over a distance of at least 2 m (6.5 ft) before starting the calibration procedure.
6. Apply park brake.

Note: *If machine is equipped with outriggers, continue to step 7. If machine is NOT equipped with outriggers, proceed to step 8.*



4014PS and 4017PS

MMM1480

7. Detach standard carriage, forks and test weight at a minimum of distance of X Place (**3**) in front of the machine. Pressing the LSI override button (**4**) may be required.
8. Fully retract and level the boom. Fully lower the outriggers (if equipped) and shut engine OFF. Pressing the LSI override button (**4**) may be required.
   Do Not move machine.

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931	523721	8	6-8-9	Urea supply module temperature; duty cycle in invalid range
932	29	3	1-2-6	Hand throttle idle validation switch; short circuit to battery
933	91	8	2-2-2	Accelerator pedal duty cycle PWM signal; signal range check high
934	91	8	2-2-2	Acceleration pedal cycle duration PWM signal; signal range check high
935	91	3	2-2-6	Sensor error accelerator pedal; signal range check high
936	29	3	2-2-6	Sensor error hand throttle; signal range check high
937	29	4	1-2-6	Hand throttle idle validation switch; short circuit to ground
938	91	8	2-2-2	Accelerator pedal duty cycle PWM signal; signal range check low
939	91	8	2-2-2	Acceleration pedal cycle duration PWM signal; signal range check low
940	91	4	2-2-6	Sensor error accelerator pedal; signal range check low
941	29	4	2-2-6	Sensor error hand throttle sensor; signal range check low
942	523921	3	7-1-4	Sensor error burner temperature; signal range check high
943	3532	3	6-7-0	Sensor error urea tank level; signal range check high
944	523921	4	7-1-4	Sensor error burner temperature; signal range check low
945	3532	4	6-7-0	Sensor error urea tank level; signal range check low
946	1079	13	2-8-2	Sensor supply voltage monitor 1 error (ECU)
947	1080	13	2-8-2	Sensor supply voltage monitor 2 error (ECU)
948	523601	13	2-8-2	Sensor supply voltage monitor 3 error (ECU)
956	677	3	5-1-2	Starter relay high side; short circuit to battery
957	677	4	5-1-2	Starter relay high side; short circuit to ground
958	677	5	5-1-2	Starter relay; no load error
959	677	12	5-1-2	Starter relay; powerstage over temperature
960	677	3	5-1-2	Starter relay low side; short circuit to battery
961	677	4	5-1-2	Starter relay low side; short circuit to ground
963	523922	5	7-1-5	Burner shut off valve; open load
965	523922	3	7-1-5	Burner shut of valve; short circuit to battery
967	523922	4	7-1-5	Burner shut of valve; short circuit to ground
969	624	5	5-1-3	SVS lamp; open load

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