845B / 845B DHP
865B / 865B VHP / 865B AWD
885B / 885B DHP / 885B AWD

Grader

SERVICE MANUAL

Part number 47387703
English
October 2011

CASE CONSTRUCTION

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LUBRICATION & MAINTENANCE CHART

845B / 865B / 885B Models Equipped with Tier 0, 1 and 2 Engines

	SERVICE POINTS	POINTS	VERIFY	REPLACE	LUBRICATE	ADJUST	CLEAN - DRAIN
As needed	Air cleaner (Note 1)	1	*				
	Hydraulic filter (Note 2)	1	*				
	Cab Air Filter (if equipped)	1	*				
	Batteries (See Electrical System)	2					*
10 hours or daily	Engine oil level (including filters)	1	10				
	Radiator (coolant level) (Note 3)	1	10				
	Transmission oil level (warm, engine running) (ZF and FUNK Transmission)	1	10				
	Differential Lock Oil Filter (if equipped)	1	10				
50 hours or weekly	Fuel Reservoir Filter (wash screen)	1					50
	Fuel Water Separator (drain water)	2					50
	Hydraulic tank (complete system)	1	50				
100 hours or each 15 days	Moldboard Lift Cylinder Pivots	4			100		
	Moldboard Lift Cylinders Balls	2			100		
	Moldboard Side Shift Cylinders Balls	2			100		
	Articulation of Tilt Cylinders	2			100		
	Moldboard Tilt Pivots	2			100		
	Articulation Cylinders Pivots	4			100		
	Articulation Bearings	2			100		
	Drawbar Ball and Socket	1			100		
250 hours or monthly	Alternator and Air Conditioner Belt	2	250				
	Universal Joints and Drive Shaft	2			250		
	Circle Turn Gearbox Oil Level	1	250				
	Differential Lock Oil Filter (if equipped)	1		250			
	Front Axle Pivot	2			250		
	Front Wheel Lean Bar Pivots	2			250		
	Front Wheel Lean Cylinder Pivots	2			250		
	Front Wheel Knuckle Lean Pivots	4			250		
	Knucle King Pin Bearings	4			250		
	Moldboard Lift Cylinder Articulation Bearings	2			250		
	Tandem Swing Bearing	2			250		
	Tires Condition and Pressure	6	250				
	Cab Air Filter (if equipped)	1					250
	Steering Bar Ball Joints	4			250		
	Moldboard Articulation Pivots	4			250		
	Moldboard Side Shift Pivots	2			250		
	Engine Oil and Oil Filter	2		250			

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BRAKE GROUP

Specifications

Item	Measurement	Specifications
Disk brake-to-yoke cap screw.	Torque	48 N•m (36 lb-ft)
Yoke flange-to-output shaft cap screw.	Torque	215 N•m (159 lb-ft)
Caliper assembly-to-brake bracket cap screw.	Torque	86 N•m (64 lb-ft)

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WHEEL ASSEMBLY WITH BRAKE

Disassemble Wheel Assembly with Brake

Install the tool, 4A94740, unscrew the screw (10) and remove wheel assembly (11).

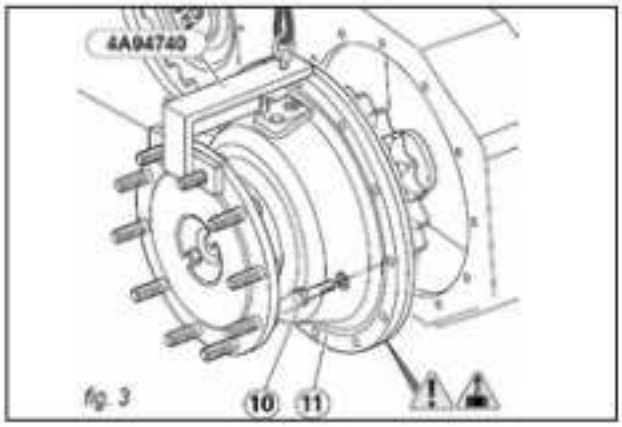


fig. 3

Flatten locking plates (13) and unscrew the screw (12).

- Remove the locking plates (13).
- Remove the sprockets retaining plate (14).
- Remove the adjustment shim (15).
- Remove the sprockets (16).

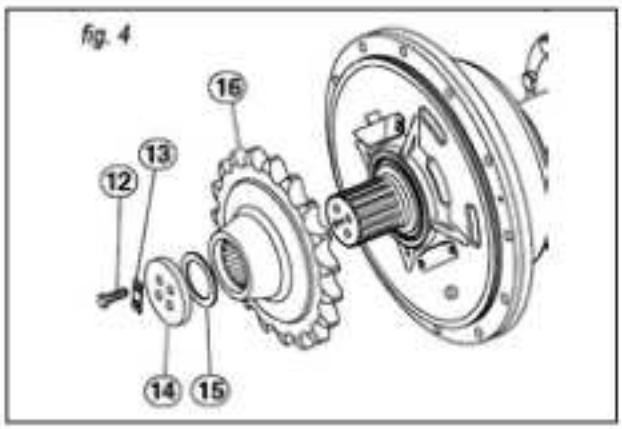


fig. 4

Remove brake support (17), the cage with conical rollers bearing (18) end O-ring seal (19) from the support.

- Inspect the roller bearing outer race (18). If worn, remove it with a suitable puller, during assembly use a buffer.

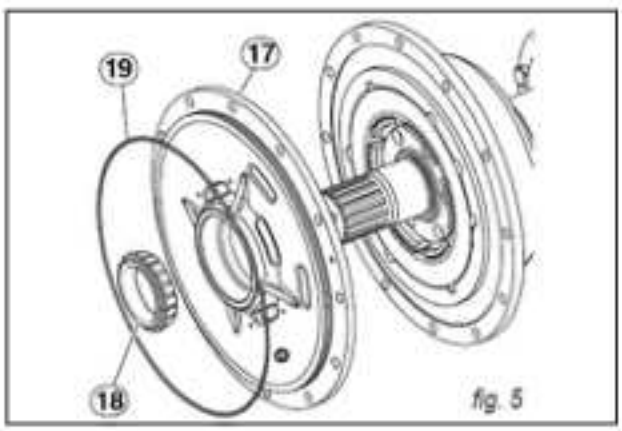
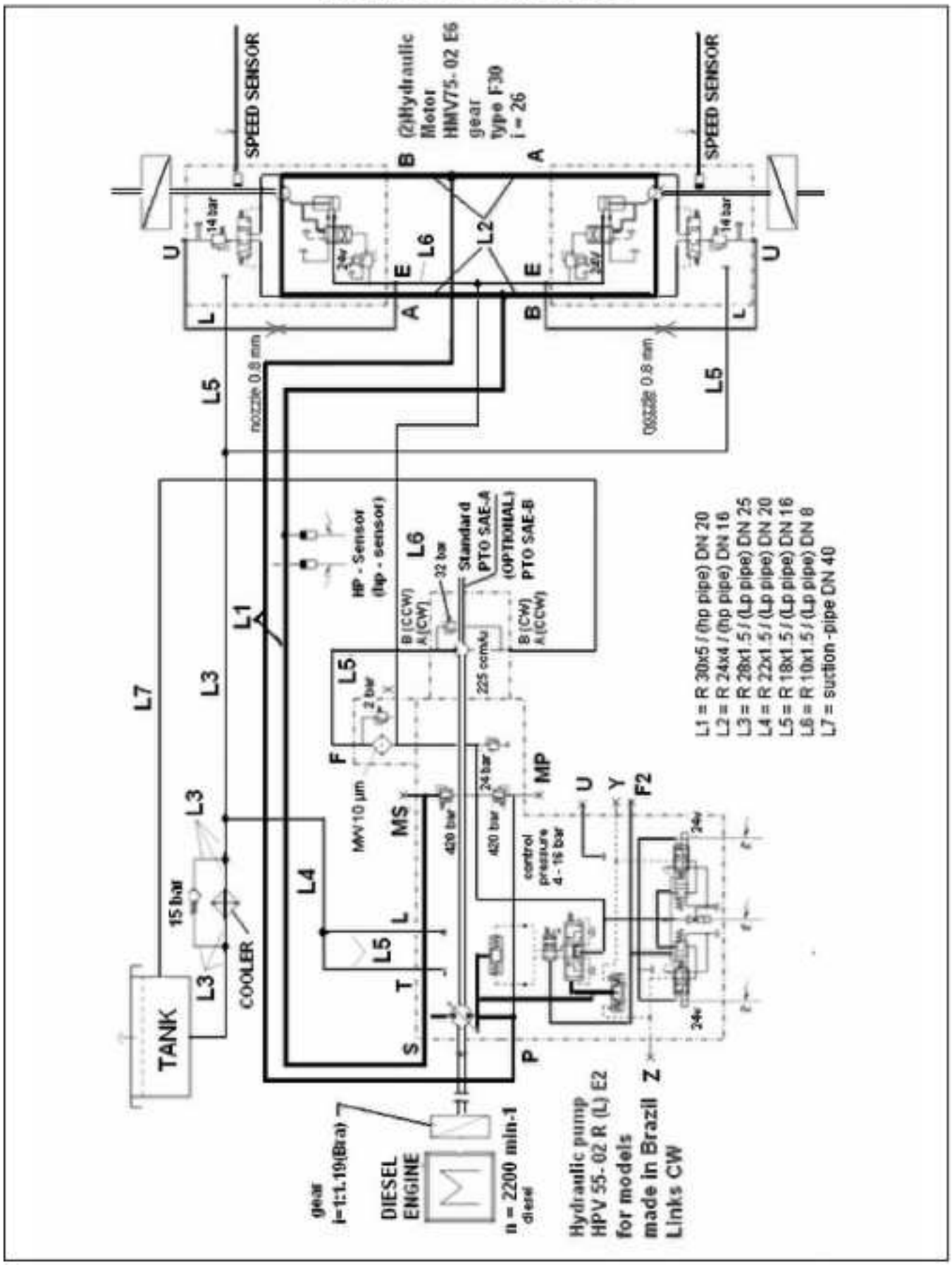


fig. 5

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HYDRAULIC SCHEMATIC



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Error No. and Color	Error Description	Condition for cancel
5413	**Revolutions on right front wheel speed sensor above maximum.** Measured frequency of front right wheel speed sensor exceeds the maximum measurable speed.	• Check power supply of front right wheel speed sensor at sensor connector pin 1 for being constant. • Replace front right wheel speed sensor.
5421	**Open circuit at forward pressure sensor.** An open circuit at forward pressure sensor was detected while engine is running.	• Check connector of forward pressure sensor. • Check harness from EHC pin 6 to connector of forward pressure sensor pin 1. • Check fuse F25.
5422	**Short circuit to power at forward pressure sensor.** A short circuit to power at forward pressure sensor was detected.	• Check connector of forward pressure sensor. • Check harness from EHC pin 6 to connector of forward pressure sensor pin 1.
5426	**Return line pressure at pump port A above allowed value.** Return line pressure exceeds maximum when driving machine reverse.	• Check current of forward pressure sensor pin 1) for having reasonable current values (4..20mA = 1..450bar) when ignition is on or engine is running. • Check forward pressure sensor being connected to EHC pin 6 and reverse pressure sensor being connected to EHC pin 7.
5431	**Open circuit at reverse pressure sensor.** An open circuit at reverse pressure sensor was detected while engine is running.	• Check connector of reverse pressure sensor. • Check harness from EHC pin 7 to connector of reverse pressure sensor pin 1. • Check fuse F25.
5432	**Short circuit to power at reverse pressure sensor.** A short circuit to power at reverse pressure sensor was detected.	• Check connector of reverse pressure sensor. • Check harness from EHC pin 7 to connector of reverse pressure sensor pin 1.
5436	**Return line pressure at pump port B above allowed value.** Return line pressure exceeds maximum when driving machine forward.	• Check current of reverse pressure sensor pin 1 for having reasonable current values (4..20mA = 1..450bar) when ignition is on and/or engine is running. • Check forward pressure sensor being connected to EHC pin 6 and reverse pressure sensor being connected to EHC pin 7.
5440	**No CAN connection of drive behavior module.** Drive behavior module is not connected to CAN Bus #1.	• Check fuse F21. • Check power supply of drive behavior module pin 6. • Check module pin 7 being connected to CAN high and module pin 8 being connected to CAN low of CAN Bus #1.
5442	**AWD mode key not available on drive behavior module C6.** Right key of drive behavior module can not be found.	• Check if correct drive behavior module is installed.
5443	**Incorrect status of AWD mode key on drive behavior module C6.** Internal key state error occurred when reading right key of drive behavior module.	• Error might not be caused by hardware problems. Please contact Service.
5445	**Creep mode key not available on drive behavior module C6.** Left key of drive behavior module can not be found.	• Check if correct drive behavior module is installed.
5446	**Incorrect status of creep mode key on drive behavior module C6.** Internal key state error occurred when reading left key of drive behavior module.	• Error might not be caused by hardware problems. Please contact Service.

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