

# WSM

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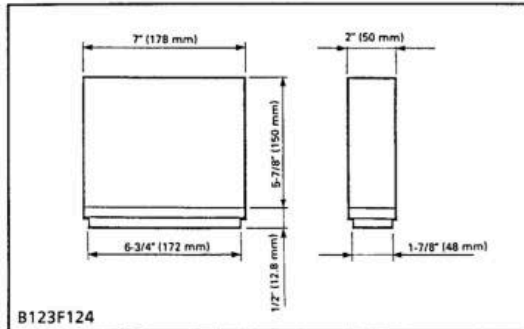
WORKSHOP MANUAL  
**TRACTOR**

**M7580, M8580, M9580**

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**Кубота**

### ■ Dimensions



### ■ Specifications

#### GENERAL

Power Supply Voltage .....	14.4 V (10.8 to 15.6 V allowable)
Current Consumption .....	Less than 3 amps
Speaker Impedance .....	4 ohms (4 to 8 ohms allowable)

#### FM

Frequency Range .....	87.9 to 107.9 MHz
Usable Sensitivity .....	12 dBf
50 dB Quietening Sensitivity .....	17 dBf
Alternate Channel Selective .....	1.5 dB
Stereo Separation (@ 1 kHz, 60 dBf Input) .....	35 dB
Frequency Response (± 3 dB) .....	30 Hz to 15 kHz

#### AM

Frequency Range .....	530 to 1,620 kHz
Usable Sensitivity (20 dB S/N) .....	12 dBf

#### TAPE

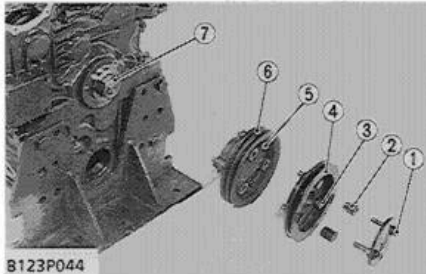
Wow & Flutter (WRMS) .....	0.1 %
Stereo Separation (@1 kHz) .....	45 dB
Signal to Noise Ratio 120 μs (normal) .....	53 dB
Frequency Response (± 3 dB) · 120 μs (normal) .....	30 Hz to 14 kHz
70 μs (CrO <sub>2</sub> , FeCr, Metal) .....	30 Hz to 16 kHz

#### POWER AMPLIFIER

Maximum Power Output .....	12 W Total (6 W/ch)
Continuous Average Power Output .....	3.2 W/ch 4 ohms, 50 Hz to 20 kHz at 5 % THD

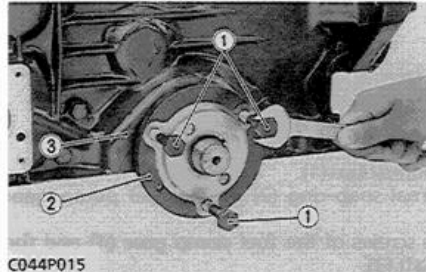
#### PRE-AMPLIFIER

Bass (@ 100 Hz) Equalizer Action .....	± 10 dB
Treble (@ 10 kHz) Equalizer Action .....	± 10 dB
Line Output (@ 10 kΩ) .....	500 mV

**(4) Timing Gears and Camshaft**

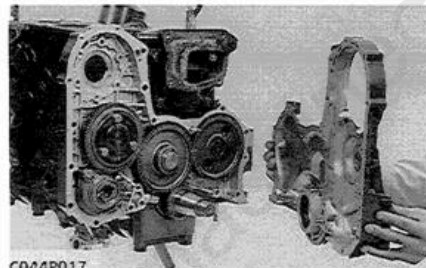
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- |  |                                     |
|--|-------------------------------------|
| (1) Screw                                | (5) Fan Drive Pulley Mounting Screw |
| (2) Spacer                               | (6) Fan Drive Pulley                |
| (3) Air Compressor Pulley Mounting Screw | (7) Crankshaft Nut                  |
| (4) Air Compressor Pulley                |                                     |

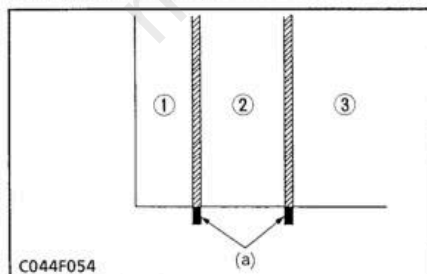


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- |                              |                     |
|------------------------------|---------------------|
| (1) Screw (M10 x Pitch 1.25) | (2) Pulley Flange   |
|                              | (3) Gear Case Cover |



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C044F054

**Air Compressor Pulley (if equipped) and Fan Drive Pulley**

1. Remove two screws (1).
2. Remove three screws (3) to remove the air compressor pulley (4).
3. Remove three screws (5) to remove the fan drive pulley (6).

**(When reassembling)**

Tightening torque	Fan drive pulley mounting screw	48.1 to 55.8 N·m 4.9 to 5.7 kgf·m 35.5 to 41.2 ft-lbs
	Air compressor pulley mounting screw	103.0 to 117.7 N·m 10.5 to 12.0 kgf·m 76.0 to 86.8 ft-lbs

**Pulley Flange**

1. Loosen the crankshaft nut.
2. Set three M10 screws (1) to the pulley flange (2) and tighten them together in order to take out the pulley flange. Set the large plain washer behind the flange not to damage the gear case cover (3).

**(When reassembling)**

- Apply engine oil to the crankshaft nut.

Tightening torque	Crankshaft nut	539.3 to 588.4 N·m 55.0 to 60.0 kgf·m 397.8 to 434.0 ft-lbs
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**Gear Case Cover**

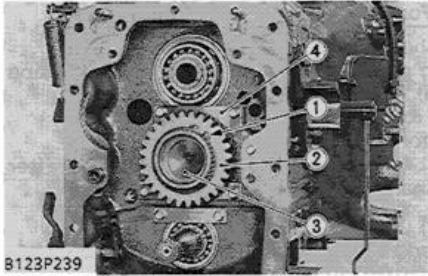
1. Remove the gear case cover.

**(When reassembling)**

- Apply a liquid gasket (Three Bond 1215 or equivalent) to the gear case cover gasket.
- Apply a thin film of grease to the oil seal, and install it, noting the lip not to come off.
- After reassembling the gear case cover, cut the new gasket as shown in the figure and flatten the bottom.

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|---------------------|--------------------|
| (1) Gear Case Cover | (3) Cylinder Block |
| (2) Gear Case       |                    |

- (a) After reassembling, cut off the unnecessary parts.

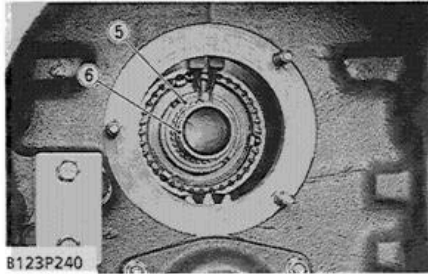


**1st Shaft**

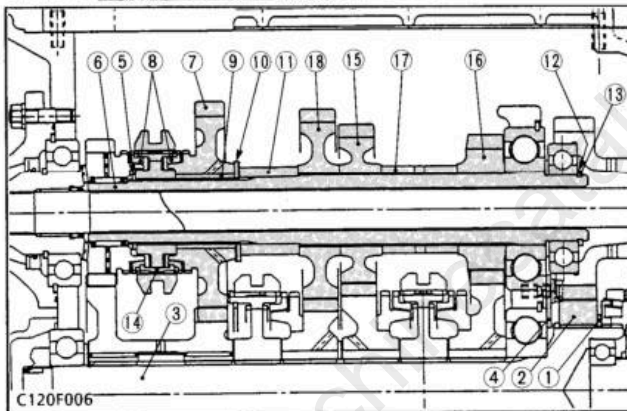
1. Remove the external snap ring (1) and 28T gear (2) on the counter shaft (3).
2. Remove the bearing retainer (4).
3. Remove the external snap ring (5) (front side) on 1st shaft (6).
4. Tap out the 1st shaft (6) to the rear.

**(When reassembling)**

- Take care of the direction of gears.
- Apply molybdenum disulfide (Three Bond 1901 or equivalent) to inner surface of 33T gear (7).
- After reassembling, check the side clearance of the 1st shaft. (See page S.3-53)
- Install the collars and shims as shown in the figure below.



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|------------------------|-------------------------|
| (1) External Snap Ring | (10) Thrust Collar      |
| (2) 28T Gear           | (11) Collar             |
| (3) Counter Shaft      | (12) Shim               |
| (4) Bearing Retainer   | (13) External Snap Ring |
| (5) External Snap Ring | (14) Synchronizer Key   |
| (6) 1st Shaft          | (15) 25T Gear           |
| (7) 33T Gear           | (16) 19T Gear           |
| (8) Synchronizer Ring  | (17) Collar             |
| (9) Inner Ring         | (18) 31T Gear           |



## CHECKING, DISASSEMBLING AND SERVICING

### ■ IMPORTANT

- If the tractor is to be operated for a short time without battery (using a slave battery for starting), do not, under any circumstances, interrupt the circuit by switching off the key switch before stopping the engine by pulling engine stop knob. Use additional current (lights) while engine is running. Insulate terminal of battery. If this advice is disregarded, damage to alternator and regulator may result.

### ⚠ CAUTION

- To avoid accidental short circuit, be sure to attach the positive cable to the positive terminal before the ground cable is attached to the negative terminal.
- Never remove the battery cap while the engine is running. Keep electrolyte away from eyes, hands and clothes. If you are spattered with it, wash it away completely with water immediately.
- Keep open sparks and flames away from the battery at all times. Hydrogen gas mixed with oxygen becomes very explosive.

## [1] BATTERY

### CHECKING

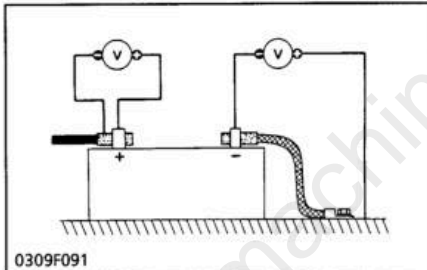


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#### Battery Voltage

1. Stop the engine and turn the main switch off.
2. Connect the COM (-) lead of the voltmeter to the battery's negative terminal post and the (+) lead to the positive terminal post, and measure the battery voltage.
3. If the battery voltage is less than the factory specification, check the battery condition.

Battery voltage	Factory spec.	More than 12 V
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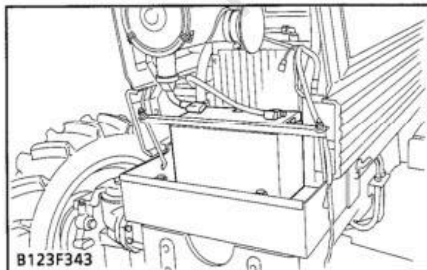


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#### Battery Terminal Connection

1. Turn the main switch on, and turn on the headlight.
2. Measure the voltage with a voltmeter across the battery's positive terminal post and the cable terminal, and the voltage across the battery's negative terminal post and the chassis.
3. If the measurement exceeds the reference value, clean the battery terminal posts and cable clamps, and tighten them firmly.

Reference value	More than 0.1 V
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#### Maintenance Free Type Battery

1. In case of the maintenance free type battery, change whole battery to a new one when the performance becomes low.
2. When shutting down the tractor for long periods of time, remove the battery from the tractor and store in a dry place out of direct sunlight.

# Full Version Available

Kubota M8580 Tractor Workshop Manual

This is a short preview. The complete manual contains all chapters, wiring diagrams, torque specifications and full service procedures.

**VIEW THE FULL MANUAL**

<https://machinecatalogic.com/kubota-m8580-tractor-workshop-manual/>