WSM

WORKSHOP MANUAL
ROTARY MOWER

RCK54-24B-EC,RCK60-24B-EC, RCK60-27B-ECRC60-24BR, RC60-27BR

Kubota

PREVIEW YOUFIXTHIS.COM

Download full manual at youfixthis.com

KiSC issued 11, 2006 A

GENERAL

CONTENTS

1. MOWER IDENTIFICATION G-1
2. GENERAL PRECAUTION G-2
3. LUBRICANTS G-3
4. TIGHTENING TORQUES (GENERAL USE SCREWS, BOLTS AND NUTS) G-4
5. MAINTENANCE CHECK LIST G-5
6. CHECK AND MAINTENANCE G-6
   - [1] CHECK POINTS OF DAILY OR EACH USE G-6
   - [2] CHECK POINT OF INITIAL 50 HOURS G-9
   - [3] CHECK POINTS OF EVERY 50 HOURS G-10
   - [4] CHECK POINT OF EVERY 150 HOURS G-11
   - [5] CHECK POINT OF EVERY 2 YEARS G-11
7. SETTING UP MOWER G-12

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SAFETY FIRST

This symbol, the industry's "Safety Alert Symbol", is used throughout this manual and on labels on the machine itself to warn of the possibility of personal injury. Read these instructions carefully.

It is essential that you read the instructions and safety regulations before you attempt to repair or use this unit.

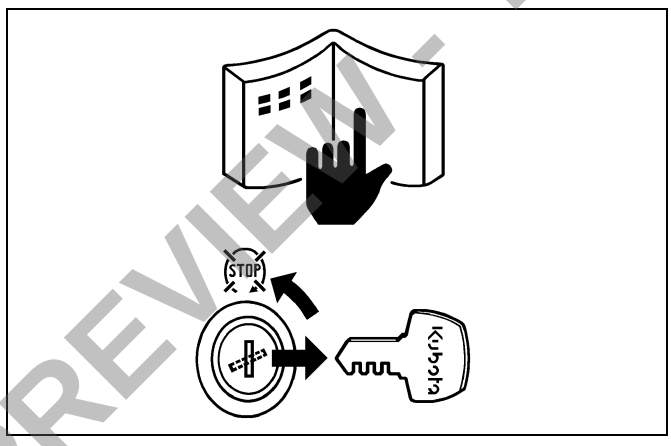
DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING : Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION : Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

■ IMPORTANT : Indicates that equipment or property damage could result if instructions are not followed.

■ NOTE : Gives helpful information.

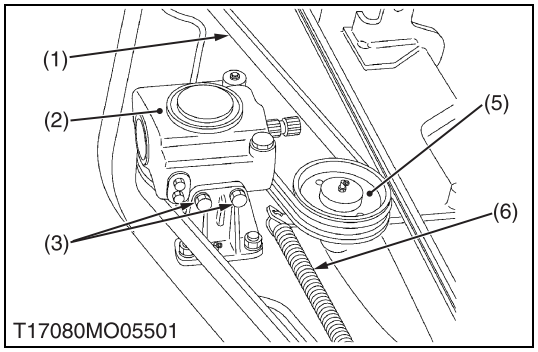


BEFORE SERVICING AND REPAIRING

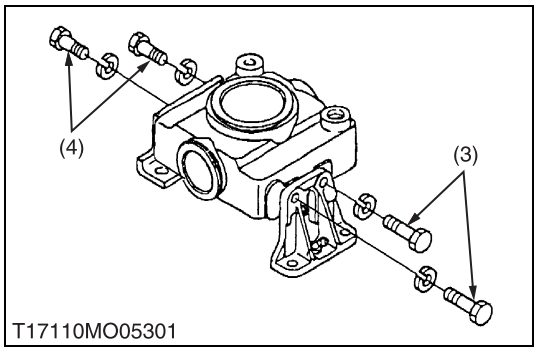
- Read all instructions and safety instructions in this manual and on your machine safety decals.
- Clean the work area and machine.
- Park the machine on a firm and level ground, and set the parking brake.
- Lower the implement to the ground.
- Stop the engine, and remove the key.
- Disconnect the battery negative cable.
- Hang a "**DO NOT OPERATE**" tag in operator station.

PREVIEW - YOUFIXTHIS.COM

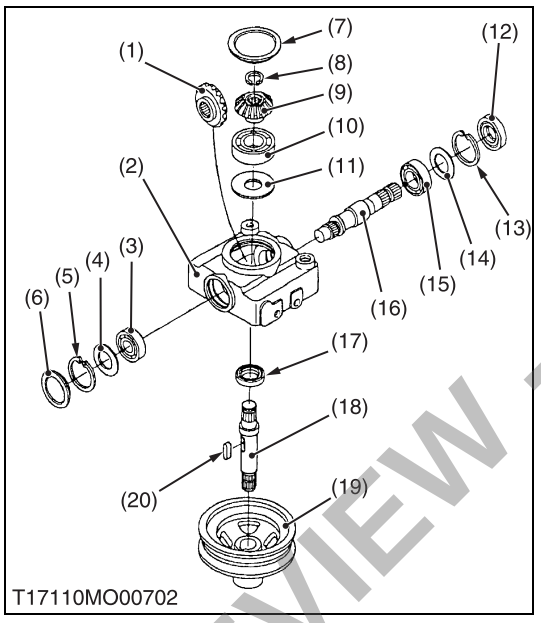
Download full manual at youfixthis.com



T17080MO05501



T17110MO05301



T17110MO00702

Gear Box and Mower Belt

1. Turn over the mower.
2. Remove the mower belt (1) from the tension pulley (5).
3. Unscrew the left and right gear box mounting screws (3), (4) and remove the gear box (2) from the mower deck.

(When reassembling)

- Install the reamer screws (3) at their original positions as shown in the figure.

Tightening torque	Gear box mounting screw	77.6 to 90.2 N·m 8.0 to 9.2 kgf·m 57.1 to 66.5 ft-lbs

(1) Mower Belt
(2) Gear Box
(3) Gear Box Mounting Screw (Reamer Screw)
(4) Gear Box Mounting Screw
(5) Tension Pulley
(6) Tension Spring

W1012961

Disassembling Gear Box

1. Unscrew the drain plug, and drain gear box oil.
2. Remove the center pulley (19) with a puller, and remove the feather key (20) on the bevel gear shaft (18).
3. Remove the gear box caps (6), (7).
4. Remove the oil seal (12), internal snap ring (13) and shim (14).
5. Tap out the pinion shaft (16) with the ball bearing (15), and remove the bevel gear (1).
6. Remove the internal snap ring (5), shim (4) and ball bearing (3).
7. Remove the external snap ring (8), and draw out the bevel gear shaft (18).
8. Remove the bevel gear (9), ball bearing (10), shim (11) and oil seal (17).

(When reassembling)

- Replace the oil seals (12), (17) and gear box caps (6), (7) with new ones.
- Check the backlash and turning torque.
  If not proper, adjust with the shims (5), (11), (14).
  (See page S-16, 17)

(1) 19T Bevel Gear (RCK60-24B-EC, RCK60-27B-EC)
21T Bevel Gear (RCK54-24B-EC)
(2) Gear Box
(3) Ball Bearing
(4) Shim
(5) Internal Snap Ring
(6) Gear Box Cap
(7) Gear Box Cap
(8) External Snap Ring
(9) 16T Bevel Gear
(10) Ball Bearing
(11) Shim
(12) Oil Seal
(13) Internal Snap Ring
(14) Shim
(15) Ball Bearing
(16) Pinion Shaft
(17) Oil Seal
(18) Bevel Gear Shaft
(19) Center Pulley
(20) Feather Key

W1013296

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

3. TIGHTENING TORQUES

Tightening torques of screws, bolts and nuts on the table below are especially specified.
(For general use screws, bolts and nuts: See page G-4.)

Item	N·m	kgf·m	ft-lbs
Mower blade screw	98.1 to 117.7	10.0 to 12.0	72.3 to 86.8
Gear box mounting screw			
Standard type / Reamer type	77.6 to 90.2	8.0 to 9.2	57.1 to 66.5
Center pulley holder screw			
Standard type / Reamer type	77.6 to 90.2	8.0 to 9.2	57.1 to 66.5
Outer pulley mounting nut	166.7 to 186.3	17.0 to 19.0	123.0 to 137.4
Pulley holder mounting screw	77.4 to 90.2	7.9 to 9.2	57.1 to 66.5

W1012736

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

SPECIFICATIONS

Model		RCK54-24B-EC	RCK60-24B-EC	RCK60-27B-EC
Suitable tractor		B1710, B2110, B2410		B2710
Type		Side discharge rotary mower		
Mounting method		Parallel linkage		
Adjustment of cutting height		Gauge wheel		
Cutting width		1372 mm (54 in.)	1524 mm (60 in.)	
Cutting height		38 to 102 mm (1.5 to 4.0 in.)		
Weight (Approx.)		156 kg (344 lbs)	158 kg (348 lbs)	
Blade spindle speed		50.0 r/s (3000 rpm)	44.7 r/s (2680 rpm)	
Blade tip velocity		74.6 m/s (14680 fpm)	73.4 m/s (14439 fpm)	
Blade length		475 mm (18.7 in.)	523 mm (20.6 in.)	
Number of blades		3		
Dimensions	Total length	1072 mm (42.2 in)	1100 mm (43.3 in.)	1060 mm (41.7 in.)
	Total width	1695 mm (66.7 in.)	1881 mm (74.0 in.)	
	Total height	345 mm (13.6 in.)		

W1027634

Model		RCK60-24BR	RC60-27BR
Suitable tractor		B1710, B2110, B2410	B2710
Type		Rear discharge rotary mower	
Mounting method		Parallel linkage	
Adjustment of cutting height		Gauge wheel	
Cutting width		1524 mm (60 in.)	
Cutting height		25 to 89 mm (1.0 to 3.5 in.)	
Weight (Approx.)		154 kg (336 lbs)	158 kg (348 lbs)
Blade spindle speed		49.5 r/s (2970 rpm)	
Blade tip velocity		81.3 m/s (15995 fpm)	
Blade length		520 mm (20.5 in.)	
Number of blades		3	
Dimensions	Total length	1122 mm (44.2 in)	1175 mm (46.3 in.)
	Total width	1613 mm (63.5 in.)	
	Total height	348 mm (13.7 in.)	

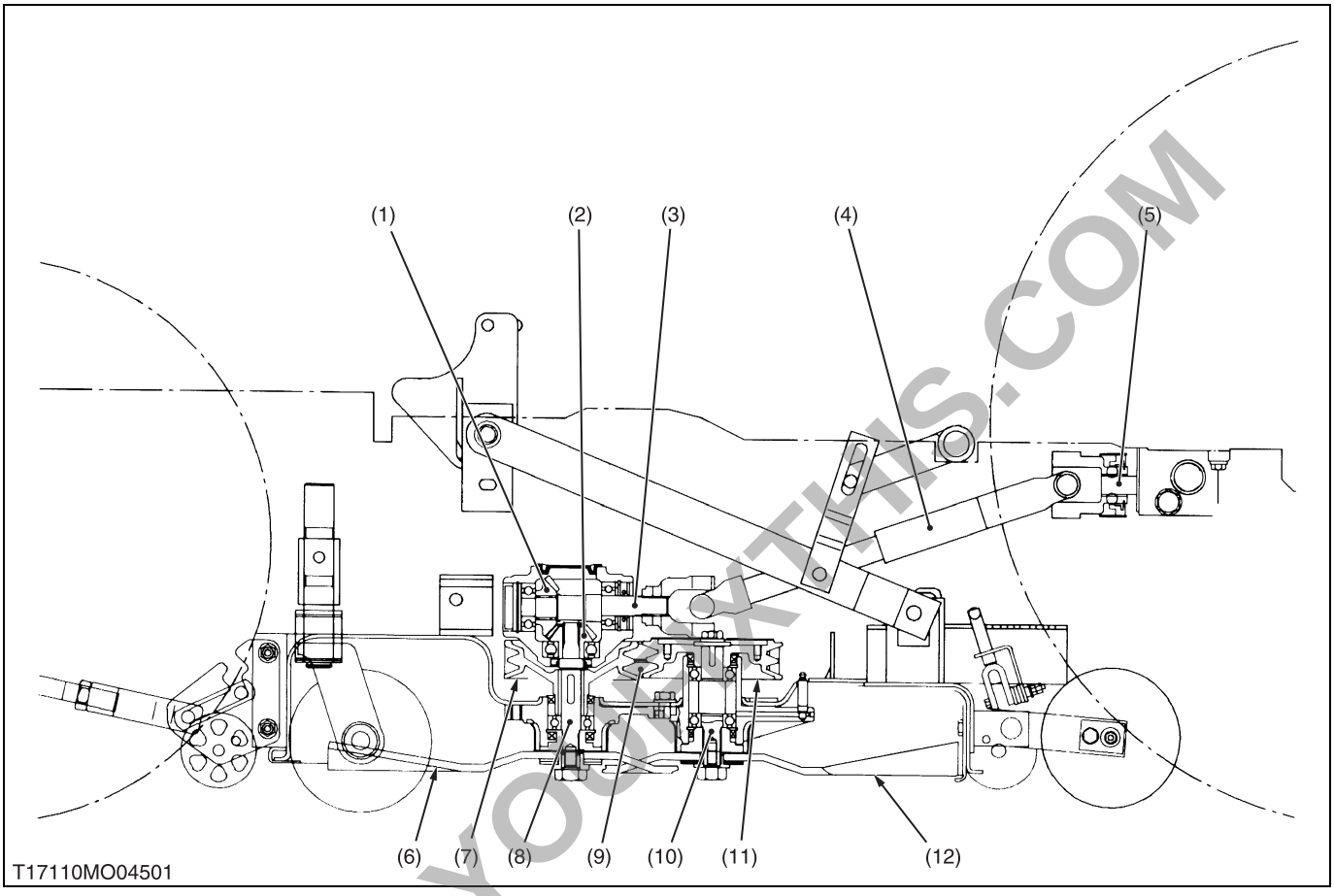
W1028910

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

1. POWER TRANSMISSION

[RCK54-24B-EC, RCK60-24B-EC, RCK60-27B-EC]



(1) 19T Bevel Gear (RCK60-24B-EC, RCK60-27B-EC)
21T Bevel Gear (RCK54-24B-EC)
(2) 16T Bevel Gear
(3) Pinion Shaft
(4) Universal Joint
(5) Mid-PTO Shaft
(6) Center Blade
(7) Center Pulley
(8) Bevel Gear Shaft
(9) Mower Belt
(10) Blade Shaft
(11) Outer Pulley
(12) Outer Blade

The power is transmitted from mid-PTO to blades as follows:

■ **Center Blade**

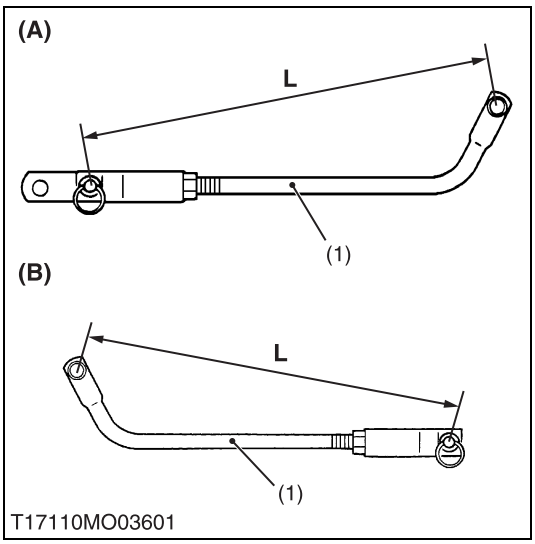
Mid-PTO Shaft (5) → Universal Joint (4) → Pinion Shaft (3) → Bevel Gear (1) → Bevel Gear (2) → Bevel Gear Shaft (8) → Center Blade (6)

■ **Outer Blade**

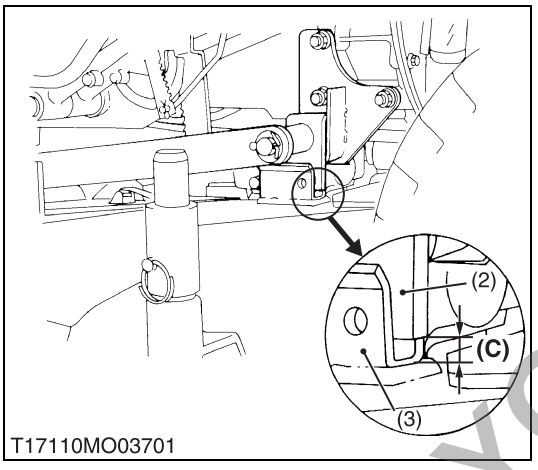
Mid-PTO Shaft (5) → Universal Joint (4) → Pinion Shaft (3) → Bevel Gear (1) → Bevel Gear (2) → Bevel Gear Shaft (8) → Center Pulley (7) → Mower Belt (9) → Outer Pulley (11) → Blade Shaft (10) → Outer Blade (12)

PREVIEW - YOUFIXTHIS.COM

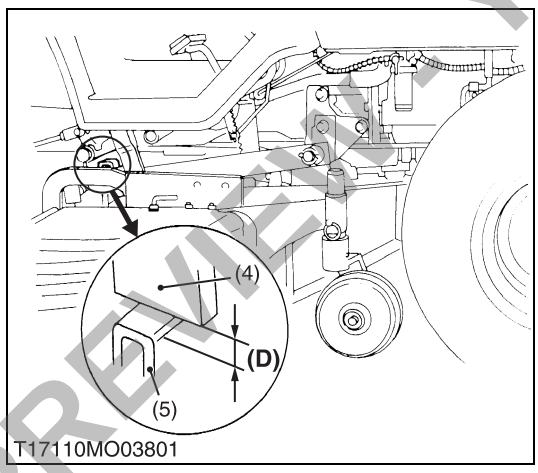
Download full manual at youfixthis.com



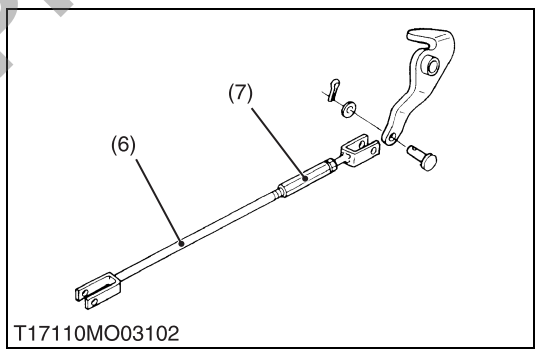
T17110MO03601



T17110MO03701



T17110MO03801



T17110MO03102

Adjusting Front Link and Connecting Rod (3-Point Hitch Lift Type)

CAUTION

- **Before starting the engine, change the mid-PTO and gear shift lever into neutral.**
- **Shut off the engine and allow the mower blades to stop before making adjustments.**

1. Park the tractor on a firm, flat and level surface.
2. Raise the mower and set the height of the mower gauge wheels the same.
3. Lower the mower to the ground.
4. If the gauge wheels are not on the ground, remove the front link from the mower. And adjust the length (**L**) of the front link (1) until the gauge wheels come into contract with the ground.
5. Attach the front link to the mower.
6. Start the engine.
7. Lift the mower to the maximum lifting position and shut off the engine.
8. Adjust the turnbuckles (7) of the left and right connecting rods (6) so that the clearances are within the factory specifications.

Clearance (**C**) between front stopper and mid hanger bracket	Factory spec.	RCK54-24B-EC RCK60-24B-EC RCK60-27B-EC	2.0 to 4.0 mm 0.08 to 0.15 in.	
		RC60-24BR RC60-27BR	2.0 to 5.0 mm 0.08 to 0.20 in.	
Clearance (**D**) between rear stopper and tractor frame	Factory spec.	RCK54-24B-EC RCK60-24B-EC	LH	0 mm, 0 in. Just contact
			RH	5.0 to 8.0 mm 0.20 to 0.31 in.
		RCK60-27B-EC RC60-24BR RC60-27BR	LH and RH	5.0 to 10.0 mm 0.20 to 0.39 in.

■ **IMPORTANT**

- **Proper adjustment for the connecting rod length is very important to avoid damage to the mower lifting system.**
- **Tire pressure must be correct.**

(1) Front Link
(2) Mid Hanger Bracket
(3) Front Stopper
(4) Tractor Frame
(5) Rear Stopper
(6) Connecting Rod
(7) Turnbuckle

(A) RCk54-24B-EC, RCK60-24B-EC, RCK60-27B-EC
(B) RC60-24BR, RC60-27BR

W1019204

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 8 of 56 pages

The full manual includes:

- All 56 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Kubota RCK54-24B-EC, RCK60-24B-EC, RCK60-27B-EC, RC60-24BR, RC60-27BR Workshop Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual