

WSM

WORKSHOP MANUAL **ROTARY MOWER**

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

Kubota

KiSC issued 11, 2006 A

Sample of manual. Download All 56 pages at:

<https://www.arepairmanual.com/downloads/kubota-rck54-24b-ec-rck60-24b-ec-rck60-27b-ecrc60-24br-rc60-27br-service-manual/>

TO THE READER

This Workshop Manual has been prepared to provide servicing personnel with information on the mechanism, service and maintenance of KUBOTA rotary mower RCK54-24B-EC, RCK60-24B-EC, RCK60-27B-EC, RC60-24BR and RC60-27BR. It is divided into two parts, "Mechanism" and "Servicing"

Mechanism

Information on the Features and New Mechanisms are described. This information should be understood before proceeding with troubleshooting, disassembling and servicing.

Servicing

Under the heading "General" section comes general precautions, check and maintenance and special tools. Other section, there are troubleshooting, servicing specification lists, checking and adjusting, disassembling and assembling, and servicing which cover procedures, precautions, factory specifications and allowable limits.

All information, illustrations and specifications contained in this manual are based on the latest production information available at the time of publication.

The right is reserved to make changes in all information at any time without notice.

Due to covering many models of this manual, illustration being used have not been specified as one model.

February 2001

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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

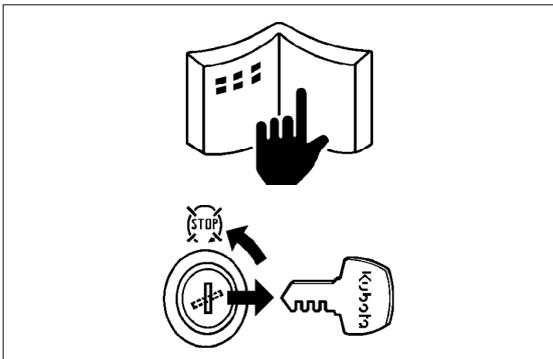
: Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

IMPORTANT

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

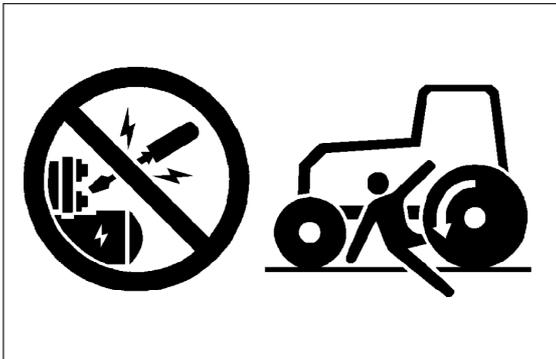
NOTE

: Gives helpful information.



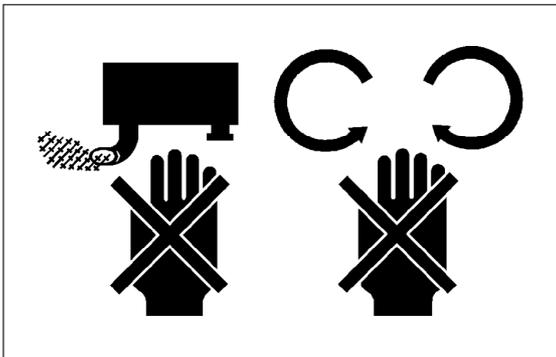
BEFORE SERVICING AND REPAIRING

- 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.



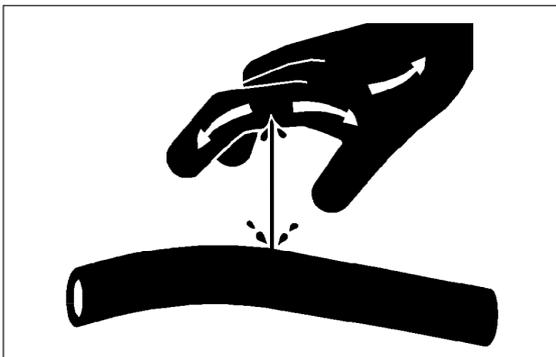
SAFETY STARTING

- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine while standing on ground. Start the engine only from operator's seat.



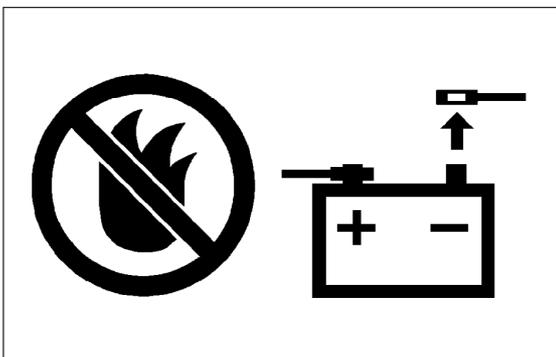
SAFETY WORKING

- Do not work on the machine while under the influence of alcohol, medication, or other substances or while fatigued.
- Wear close fitting clothing and safety equipment appropriate to the job.
- Use tools appropriate to the work. Markshift tools, parts, and procedures are not recommended.
- When servicing is performed together by two or more persons, take care to perform all work safely.
- Do not work under the machine that is supported solely by a jack. Always support the machine by safety stands.
- Do not touch the rotating or hot parts while the engine is running.
- Never remove the radiator cap while the engine is running, or immediately after stopping. Otherwise, hot water will spout out from radiator. Only remove radiator cap when cool enough to touch with bare hands. Slowly loosen the cap to first stop to relieve pressure before removing completely.
- Escaping fluid (fuel or hydraulic oil) under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or fuel lines. Tighten all connections before applying pressure.



AVOID FIRES

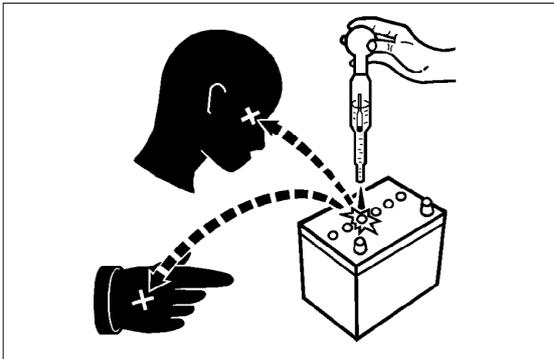
- Fuel is extremely flammable and explosive under certain conditions. Do not smoke or allow flames or sparks in your working area.
- To avoid sparks from an accidental short circuit, always disconnect the battery negative cable first and connect it last.
- Battery gas can explode. Keep sparks and open flame away from the top of battery, especially when charging the battery.
- Make sure that no fuel has been spilled on the engine.





VENTILATE WORK AREA

- If the engine must be running to do some work, make sure the area is well ventilated. Never run the engine in a closed area. The exhaust gas contains poisonous carbon monoxide.



PREVENT ACID BURNS

- Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, clothing and cause blindness if splashed into eyes. Keep electrolyte away from eyes, hands and clothing. If you spill electrolyte on yourself, flush with water, and get medical attention immediately.



DISPOSE OF FLUIDS PROPERLY

- Do not pour fluids into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, electrolyte and other harmful waste.



PREPARE FOR EMERGENCIES

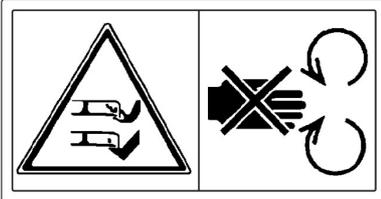
- Keep a first aid kit and fire extinguisher handy at all times.
- Keep emergency numbers for doctors, ambulance service, hospital and fire department near your telephone.

SAFETY DECALS

The following safety decals are installed on the mower.

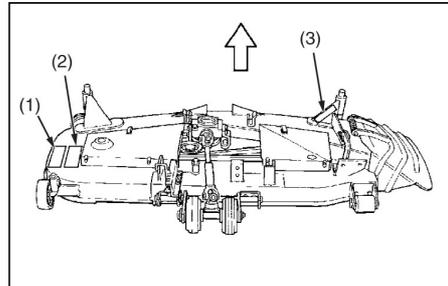
If a decal becomes damaged, illegible or is not on the mower, replace it. The decal part number is listed in the parts list.

- (1) Part No.
N° de l'élément : K5761-4179-1
Code Nr.

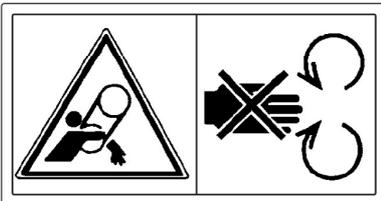


- Stay clear of mower while the engine is running.
- Se tenir éloigné de la tondeuse tant que le moteur est en train de tourner.
- Sich vom Mähwerk fernhalten, solange der Motor läuft.

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

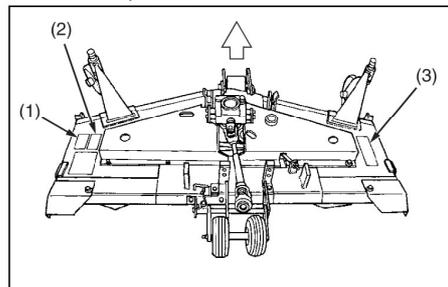


- (2) Part No.
N° de l'élément : K5761-4180-1
Code Nr.

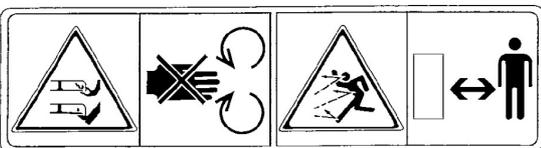


- Do not open or remove safety shields while the engine is running.
Stay clear of rotating parts while the engine is running.
- Ne pas ouvrir ou retirer les boucliers de sécurité pendant que le moteur est en train de fonctionner.
Se tenir éloigné des pièces mobiles en train de tourner pendant que le moteur est en train de fonctionner.
- Die Sicherheitsabdeckungen dürfen nicht entfernt werden, während der Motor läuft.
Sich von den rotierenden Bauteilen fernhalten, während der Motor läuft.

- RC60-24BR, RC60-27BR



- (3) Part No.
N° de l'élément : K5761-4178-1
Code Nr.



- Stay clear of mower while the engine is running.
Keep a safe distance from the machine.
- Se tenir éloigné de la tondeuse tant que le moteur est en train de tourner.
Se tenir à une distance de sécurité suffisante de la machine.
- Sich vom Mähwerk fernhalten, solange der Motor läuft.
Einen sicheren Abstand zur Maschine halten.

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CARE OF DANGER, WARNING AND CAUTION LABELS

1. Keep danger, warning and caution labels clean and free from obstructing material.
2. Clean danger, warning and caution labels with soap and water, dry with a soft cloth.
3. Replace damaged or missing danger, warning and caution labels with new labels from your KUBOTA Distributor.
4. If a component with danger, warning or caution label(s) affixed is replaced with new part, make sure the label(s) is (are) attached in the same location (s) as the replaced component.
5. Mount new danger, warning and caution labels by applying on a clean dry surface and pressing any bubbles to outside edge.

ENTRETIEN DES ÉTIQUETTES DE DANGER, D'AVERTISSEMENT ET D'ATTENTION

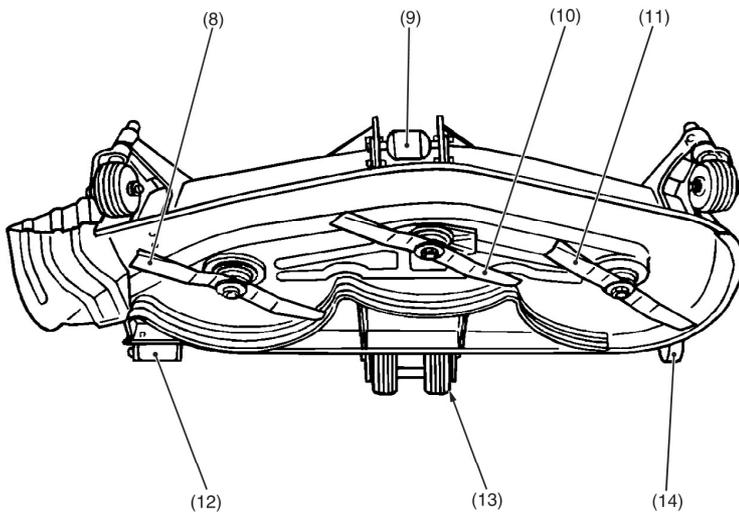
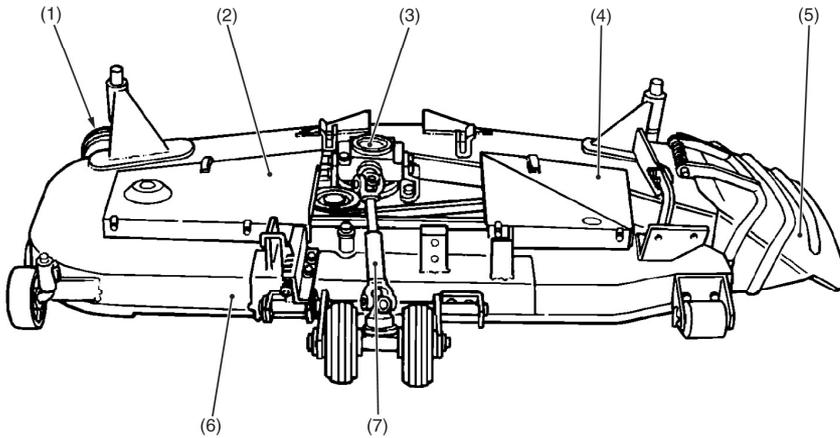
1. Conserver les étiquettes de danger, d'avertissement et d'attention propres et exemptes d'un matériel d'obstruction.
2. Nettoyer les étiquettes de danger, d'avertissement et d'attention avec de l'eau et du savon, puis les essuyer avec un tissu doux.
3. Remplacer les étiquettes de danger, d'avertissement et d'attention endommagées ou manquantes par des étiquettes neuves de chez votre distributeur KUBOTA.
4. Si un élément mentionné par des étiquettes de danger, d'avertissement ou d'attention est remplacé par une pièce neuve, s'assurer que les étiquettes soient placées au(x) même(s) endroit(s) que l'élément remplacé.
5. Placer une étiquette neuve de danger, d'avertissement ou d'attention en l'appliquant sur une surface sèche et propre et en appuyant dessus pour y éliminer vers le bord extérieur les bulles d'air qui peuvent s'y trouver.

ACHTEN SIE AUF DIE ERHALTUNG DER WARN- UND HINWEIS-AUFKLEBER

1. Die Warn- und Hinweis- Aufkleber sauber und lesbar halten.
2. Die Aufkleber mit Seife und Wasser waschen und sie mit einem weichen Tuch abtrocknen.
3. Beschädigte oder verlorengegangene Aufkleber durch neue Original-Schilder von Ihrem KUBOTA Verteiler ersetzen.
4. Falls ein Bauteil mit Warn- und / oder Hinweis-Aufklebern durch ein Neuteil ersetzt wurde, darauf achten, daß das Neuteil die gleichen Aufkleber besitzt oder erhält.
5. Beim Erneuern von Aufklebern darauf achten, daß der Untergrund sauber, trocken und fettfrei ist. Etwaige Blasen nach außen drücken.

TERMINOLOGY

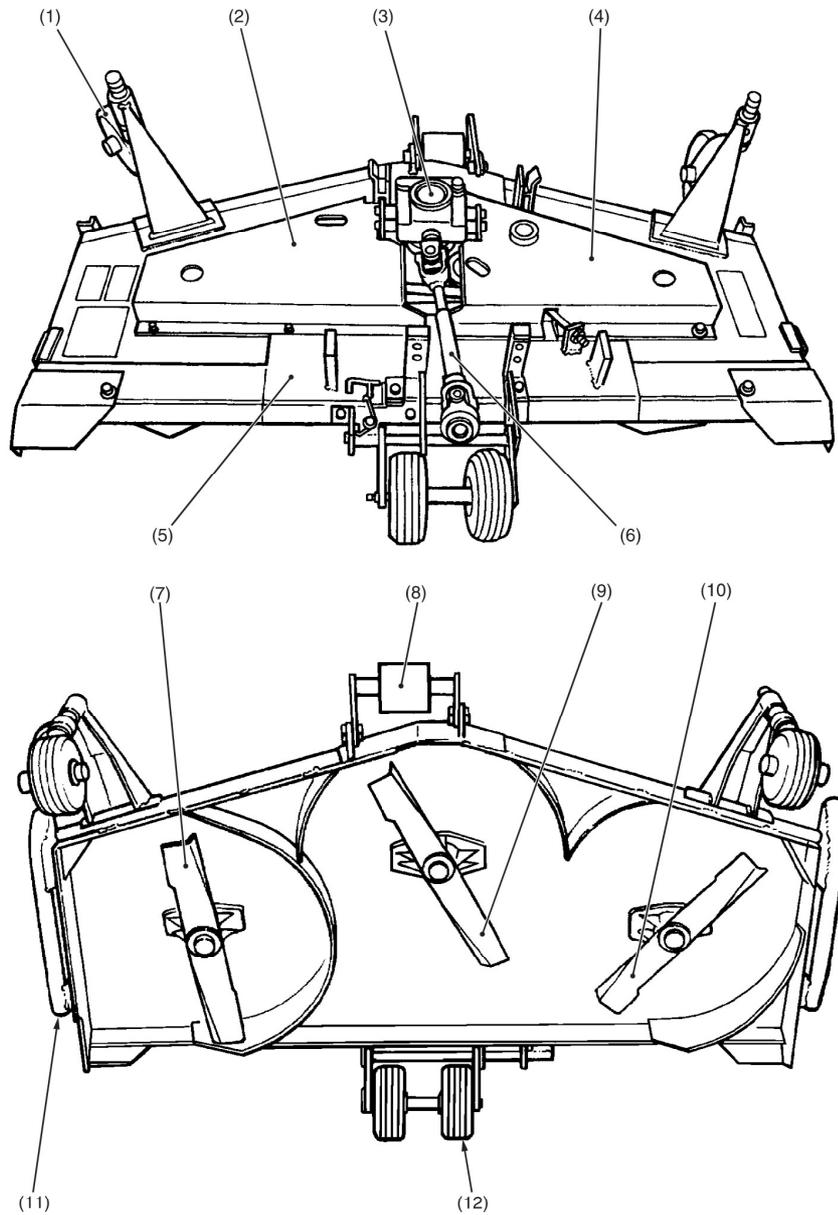
[RCK54-24B-EC, RCK60-24B-EC, RCK60-27B-EC]



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- | | | | |
|------------------------|---------------------|-----------------------------|-----------------------------|
| (1) Front Gauge Wheel | (5) Discharge Chute | (9) Front Anti-scalp Roller | (12) Rear Anti-scalp Roller |
| (2) Belt Cover (Left) | (6) Deck | (10) Center Blade | (13) Rear Gauge Wheel |
| (3) Gear Box | (7) Universal Joint | (11) Outer Blade | (14) Anti-scalp Wheel |
| (4) Belt Cover (Right) | (8) Outer Blade | | |

[RC60-24BR, RC60-27BR]



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- (1) Front Gauge Wheel
- (2) Belt Cover (Left)
- (3) Gear Box

- (4) Belt Cover (Right)
- (5) Deck
- (6) Universal Joint

- (7) Outer Blade
- (8) Front Anti-scalp Roller
- (9) Center Blade

- (10) Outer Blade
- (11) Skid
- (12) Rear Gauge Wheel

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.)		

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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.)	

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GENERAL

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1. MOWER IDENTIFICATION

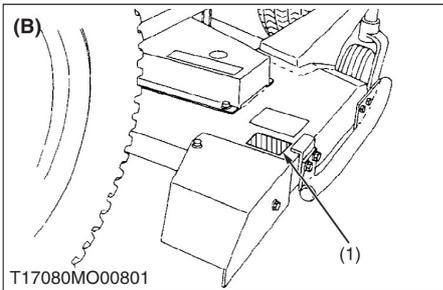
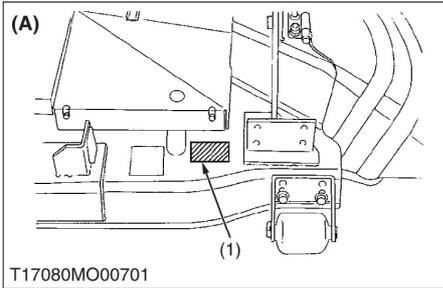
When contacting your local KUBOTA distributor, always specify mower serial number.

(1) Mower Serial Number

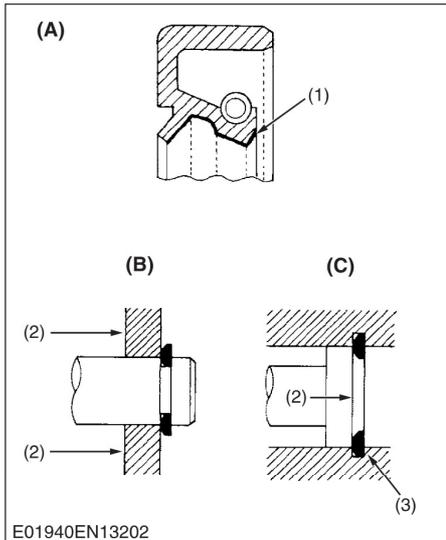
**(A) RCK54-24B-EC, RCK60-24B-EC,
RCK60-27B-EC**

(B) RC60-24BR, RC60-27BR

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2. GENERAL PRECAUTION



- During disassembly, carefully arrange removed parts in a clean area to prevent confusion later. Screws, bolts and nuts should be installed in their original position to prevent reassembly errors.
- When special tools are required, use KUBOTA genuine special tools. Special tools which are not frequently used should be made according to the drawings provided.
- Use KUBOTA genuine parts or KUBOTA-recommended parts and lubricants or their equivalents.
- Gaskets and o-rings must be replaced during reassembly.
- Apply grease to new o-rings or oil seals before assembling. See the figure.
- When reassembling external snap rings or internal snap rings, they must be positioned so that sharp edge faces against the direction from which a force is applied. See the figure.
- Metric screws, bolts and nuts are not interchangeable with nonmetric fasteners.
- Remove oil and dirt from parts before measuring.

(1) Grease

(2) Force

(3) Sharp Edge

(A) Oil Seal

(B) External Snap Ring

(C) Internal Snap Ring

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3. LUBRICANTS

No.	Place	Capacity	Lubricants
1	Gear Box	0.36 L 0.38 U.S.qts. 0.32 Imp.qts.	SAE 90 gear oil (API Service GL-5 gear oil)
Greasing			
2	Universal joint	Until grease overflows	SAE multi-purpose type grease
3	Spindle shafts (Bevel gear shaft and blade shafts)		
4	Belt tension pulley		
5	Belt tension pivot		
6	Life arms		
7	Front gauge wheels		
8	Rear gauge wheels		
9	Front center anti-scalp roller		
10	Middle lift arm (B1710, B2110, B2410 with lift cylinder type)		
11	Lift cylinder joint pin (with lift cylinder type)		

4. TIGHTENING TORQUES (GENERAL USE SCREWS, BOLTS AND NUTS)

Screws, bolts and nuts whose tightening torques are not specified in this Workshop Manual should be tightened according to the table below.

Indication on top of bolt	 No-grade or 4T						 7T						 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCR435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Diameter	Unit			Unit			Unit			Unit			Unit		
	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
M6 (6 mm, 0.24 in.)	7.85	0.80	5.79	7.85	0.80	5.79	9.81	1.00	7.24	7.85	0.80	5.79	12.3	1.25	9.05
	to 9.31	to 0.95	to 6.87	to 8.82	to 0.90	to 6.50	to 11.2	to 1.15	to 8.31	to 8.82	to 0.90	to 6.50	to 14.2	to 1.45	to 10.4
M8 (8 mm, 0.31 in.)	17.7	1.8	13.1	16.7	1.7	12.3	23.6	2.4	17.4	17.7	1.8	13.1	29.5	3.0	21.7
	to 20.5	to 2.1	to 15.1	to 19.6	to 2.0	to 14.4	to 27.4	to 2.8	to 20.2	to 20.5	to 2.1	to 15.1	to 34.3	to 3.5	to 25.3
M10 (10 mm, 0.39 in.)	39.3	4.0	29.0	31.4	3.2	23.2	48.1	4.9	35.5	39.3	4.0	29.0	60.9	6.2	44.9
	to 45.1	to 4.6	to 33.2	to 34.3	to 3.5	to 25.3	to 55.8	to 5.7	to 41.2	to 44.1	to 4.5	to 32.5	to 70.6	to 7.2	to 52.0
M12 (12 mm, 0.47 in.)	62.8	6.4	46.3	-	-	-	77.5	7.9	57.2	62.8	6.4	46.3	103	10.5	76.0
	to 72.5	to 7.4	to 53.5	-	-	-	to 90.2	to 9.2	to 66.5	to 72.5	to 7.4	to 53.5	to 117	to 12.0	to 86.7
M14 (14 mm, 0.55 in.)	108	11.0	79.6	-	-	-	124	12.6	91.2	-	-	-	167	17.0	123
	to 125	to 12.8	to 92.5	-	-	-	to 147	to 15.0	to 108	-	-	-	to 196	to 20.0	to 144
M16 (16 mm, 0.63 in.)	167	17.0	123	-	-	-	197	20.0	145	-	-	-	260	26.5	192
	to 191	to 19.5	to 141	-	-	-	to 225	to 23.0	to 166	-	-	-	to 304	to 31.0	to 224
M18 (18 mm, 0.71 in.)	246	25.0	181	-	-	-	275	28.0	203	-	-	-	344	35.0	254
	to 284	to 29.0	to 209	-	-	-	to 318	to 32.5	to 235	-	-	-	to 402	to 41.0	to 296
M20 (20 mm, 0.79 in.)	334	34.0	246	-	-	-	368	37.5	272	-	-	-	491	50.0	362
	to 392	to 40.0	to 289	-	-	-	to 431	to 44.0	to 318	-	-	-	to 568	to 58.0	to 419

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Grade Unit	SAE GR.5 			SAE GR.8 		
	N·m	kgf·m	ft-lbs	N·m	kgf·m	ft-lbs
Nominal Diameter						
5/16	23.1 to 27.8	2.35 to 2.84	17.0 to 20.5	32.5 to 39.3	3.31 to 4.01	24.0 to 29.0
3/8	47.5 to 57.0	4.84 to 5.82	35.0 to 42.0	61.0 to 73.2	6.22 to 7.47	45.0 to 54.0
1/2	108.5 to 130.2	11.07 to 13.29	80.0 to 96.0	149.2 to 179.0	15.22 to 18.27	110.0 to 132.0
9/16	149.2 to 179.0	15.22 to 18.27	110.0 to 132.0	217.0 to 260.4	22.14 to 26.57	160.0 to 192.0
5/8	203.4 to 244.1	20.75 to 24.91	150.0 to 180.0	298.3 to 358.0	30.44 to 36.53	220.0 to 264.0

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5. MAINTENANCE CHECK LIST

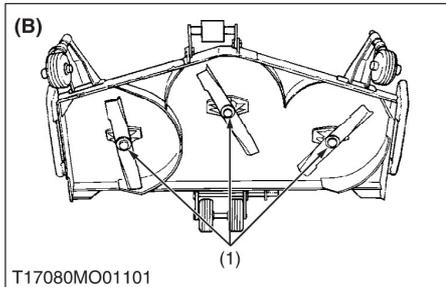
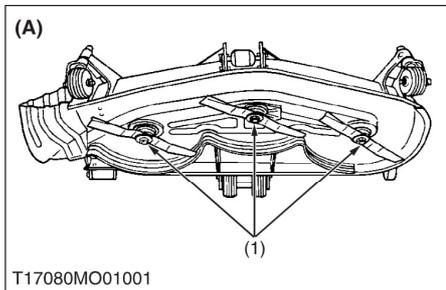
To keep the mower working in good condition as well as to avoid any accident and trouble, carry out periodic inspection and maintenance. Check the following points before use.

Service interval	Check points	Reference Page
Daily (Each use)	<ul style="list-style-type: none"> • Anything unusual in previous day's operation • Make sure mower blade screws are tighten • Check mower blades for wear or damage • Check gear box oil level • Check oil leaks • Check all hardware • Make sure all pins are in place • Clean mower deck • Apply grease to universal joint • Apply grease to spindle shafts (Bevel gear shaft and blade shafts) • Apply grease to belt tension pulley • Apply grease to belt tension pivot • Apply grease to front center anti-scalp roller • Apply grease to lift arms 	– G-6 S-4 G-7 – – – – – G-8 G-8 G-8 G-8 G-10 G-8, 10
Initial 50 hours	<ul style="list-style-type: none"> • Change gear box oil 	G-9
Every 50 hours	<ul style="list-style-type: none"> • Apply grease to front and rear gauge wheels • Apply grease to middle lift arm • Apply grease to lift cylinder joint pin • Check mower belt 	G-10 G-10 G-10 S-4
Every 150 hours	<ul style="list-style-type: none"> • Change gear box oil 	G-9
Every 2 years (After purchase)	<ul style="list-style-type: none"> • Replace gear box oil seal 	G-11

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6. CHECK AND MAINTENANCE

[1] CHECK POINTS OF DAILY OR EACH USE



Retightening Mower Blade Screw

CAUTION

- To avoid injury, always handle the mower blade with care.

1. Dismount the mower and turn it over to expose the mower blades.
2. Wedge a block of wood securely between the mower blade and mower deck.
3. Retighten the mower blade screw to the specified torque.
4. If the mower blade screw is worn or broken, replace it.

NOTE

- The RC60-24BR and RC60-27BR mower blade screw has left-hand threads.

Turn it counterclockwise to tighten.

Tightening torque	Mower blade screw	98.1 to 117.1 N·m 10.0 to 12.0 kgf·m 72.3 to 86.8 ft·lbs
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(1) Mower Blade Screw

(A) RCK54-24B-EC, RCK60-24B-EC,
RCK60-27B-EC

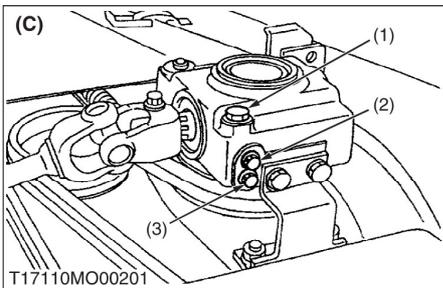
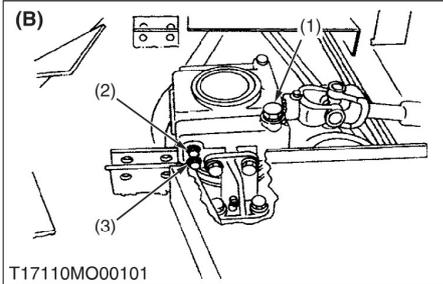
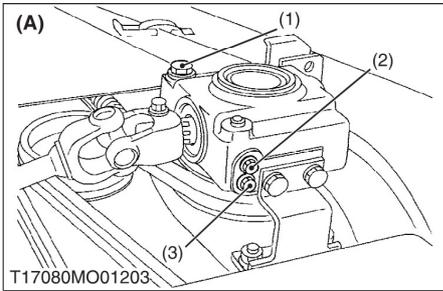
(B) RC60-24BR, RC60-27BR

W1025290

Checking Mower Blade

1. See page S-4.

W1025440



Checking Gear Box Oil Level

1. Place the mower on level ground.
2. Loosen the check plug (2), and check to see if oil seeps from the opening.
3. If the oil level is low, remove the oil filler plug (1) and add new gear oil.

IMPORTANT

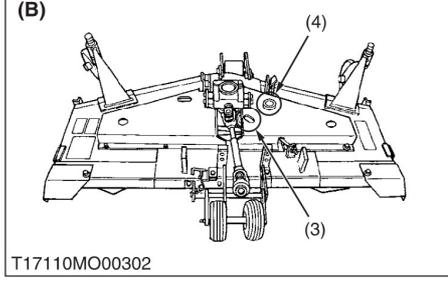
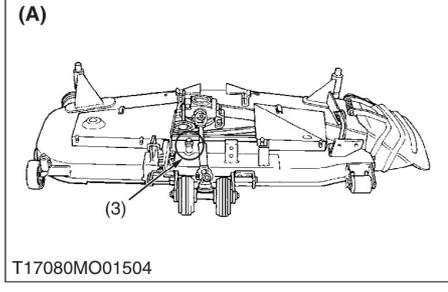
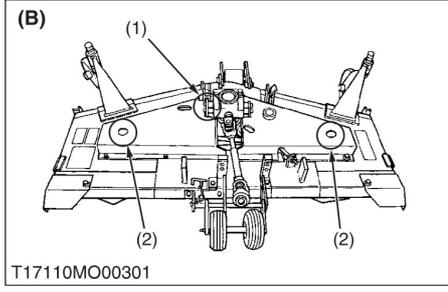
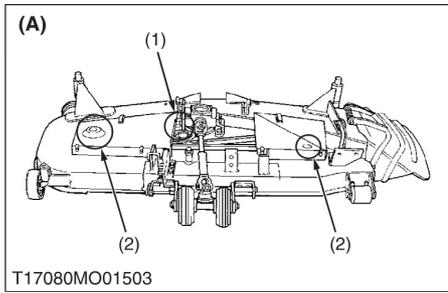
- Use the specified gear oil.

Refer to “LUBRICANTS”. (See page G-3.)

- (1) Oil Filler Plug
- (2) Check Plug
- (3) Drain Plug

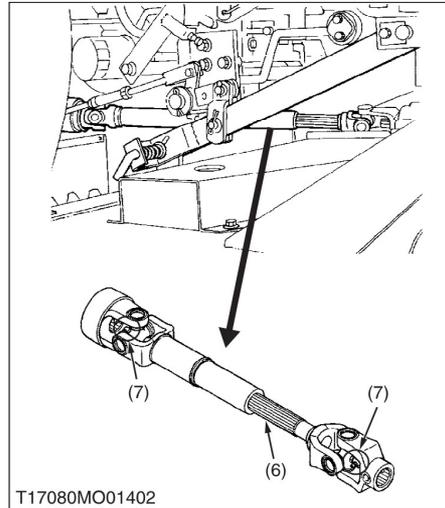
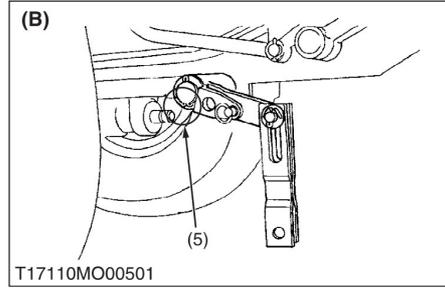
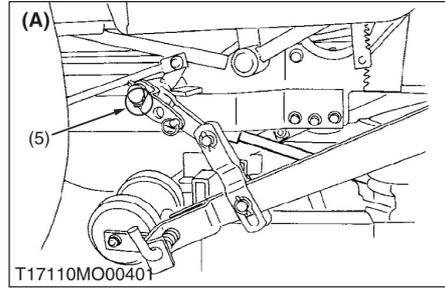
- (A) RCK54-27B-EC, RCK60-24B-EC
- (B) RCK60-27B-EC
- (C) RC60-24BR, RC60-27BR

W1025491



Greasing

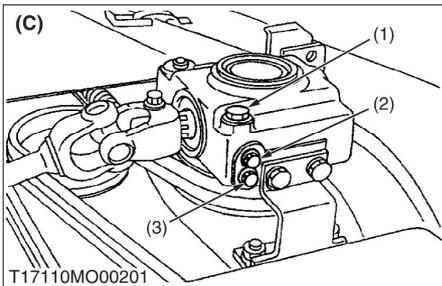
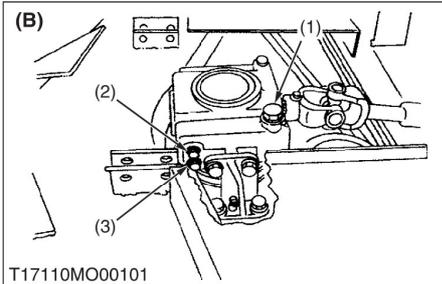
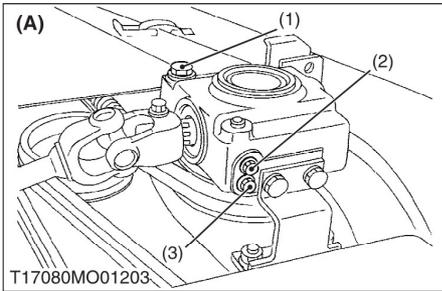
1. Apply grease to the following points as figures.



- (1) Bevel Gear Shaft
- (2) Blade Shaft
- (3) Belt Tension Pulley
- (4) Belt Tension Pivot
- (5) Lift Arm
- (6) Spline of Universal Joint
- (7) Universal Joint

- (A) RCK54-24B-EC, RCK60-24B-EC,
RCK60-27B-EC
- (B) RC60-24BR, RC60-27BR

[2] CHECK POINT OF INITIAL 50 HOURS



Changing Gear Box Oil

1. Dismount the mower from the tractor, and place the mower on level ground.
2. Remove the oil filler plug (1).
3. Remove the drain plug (3), and drain the used oil completely.
4. After draining the used oil, reinstall the drain plug.
5. Fill with new oil up to the specified level.

IMPORTANT

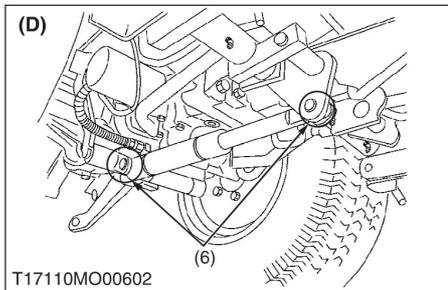
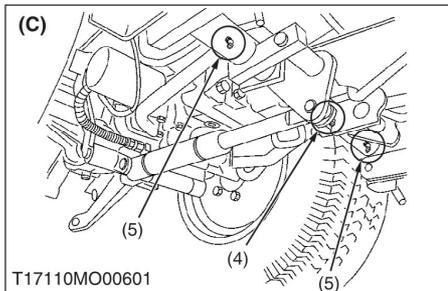
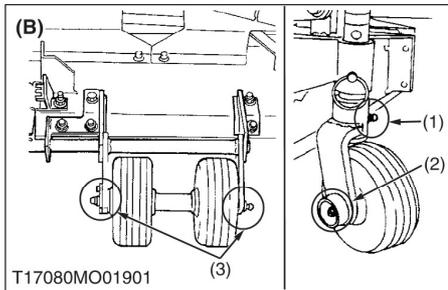
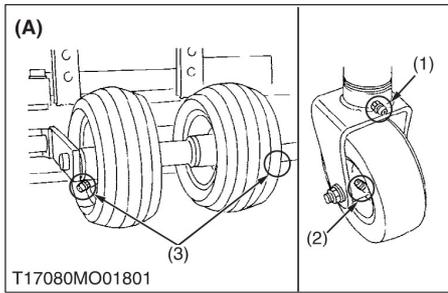
- Use the specified gear oil.
Refer to "LUBRICANTS". (See page G-3.)

- (1) Oil Filler Plug
(2) Check Plug
(3) Drain Plug

- (A) RCK54-24B-EC, RCK60-24B-EC
(B) RCK60-27B-EC
(C) RC60-24BR, RC60-27BR

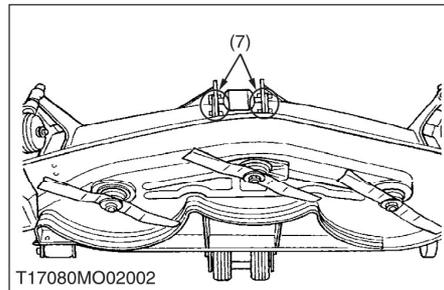
W1028353

[3] CHECK POINTS OF EVERY 50 HOURS



Greasing

1. Apply grease to the following position as figures.



- (1) Front Gauge Wheel Bracket
 - (2) Front Wheel
 - (3) Rear Wheel
 - (4) Middle Lift Arm
 - (5) Lift Arm
 - (6) Lift Cylinder Joint Pin
 - (7) Front Center Anti-scalp Roller
- (A) RCK54-24B-EC, RCK60-24B-EC, RCK60-27B-EC
 - (B) RC60-24BR, RC60-27BR
 - (C) B1710, B2110, B2410 with Lift Cylinder Type
 - (D) Lift Cylinder Type

W1014935

Checking Mower Belt

1. See page S-4.

W1028893

[4] CHECK POINT OF EVERY 150 HOURS

Changing Gear Box Oil

1. See page G-9.

W1029013

[5] CHECK POINT OF EVERY 2 YEARS

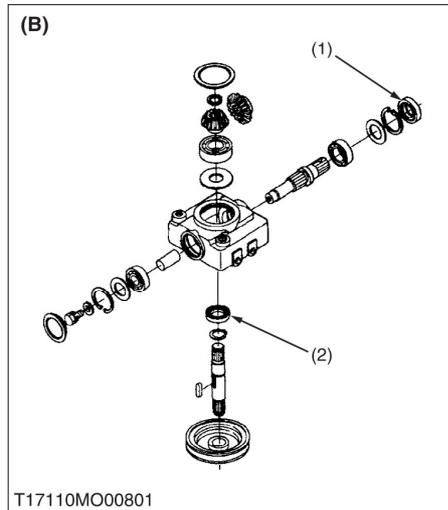
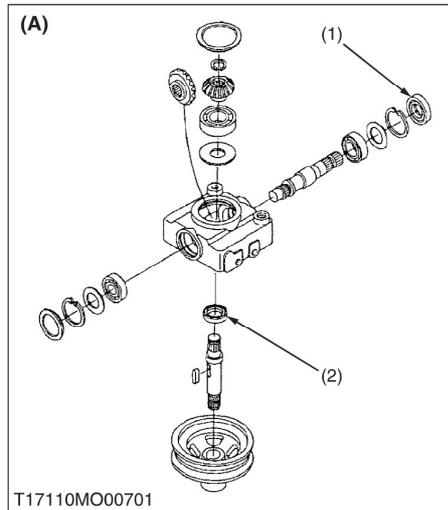
Replacing Gear Box Oil Seal

1. Replace the gear box oil seals (1), (2) with new ones. (See page S-8, 13.)

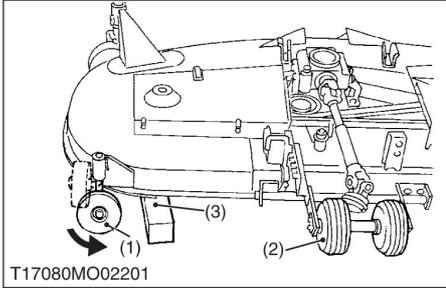
- (1) Oil Seal
- (2) Oil Seal

- (A) RCK54-24B-EC, RCK60-24B-EC,
RCK60-27B-EC
- (B) RC60-24BR, RC60-27BR

W1029072



7. SETTING UP MOWER



Assembling Mower

⚠ CAUTION

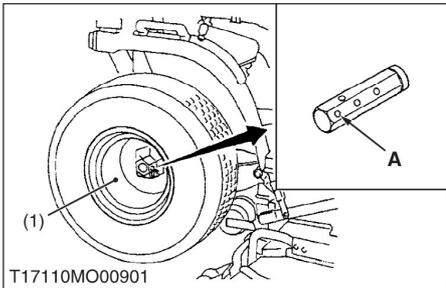
- Do not operate the rear gauge wheel adjusting lever (4) without support by block (3).

1. Take out all mower components from the case, and assemble the mower.
2. Support the mower deck with a block (3) as shown in the figure.
3. Turn the anti-scalp wheel (1) sideways position, and set the rear gauge wheel (2) on the lowest cutting height.
4. Remove the block.

- (1) Anti-scalp Wheel
(2) Rear Gauge Wheel

- (3) Block
(4) Rear Gauge Wheel Adjusting Lever

W1029213



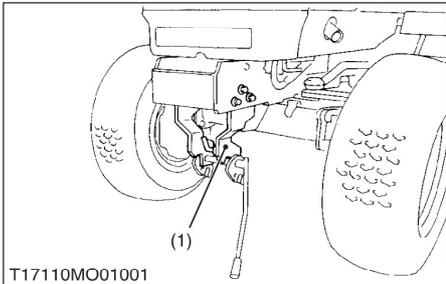
Rear Wheel (RCK54-24B-EC, RCK60-24B-EC, RC60-24BR)

1. Park the tractor on level ground, and set the both rear wheels (1) of the tractor at the outer position (A).

- (1) Rear Wheel

A : Outer Position

W1015453

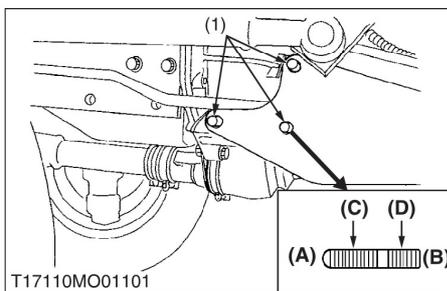


Front Hanger Bracket

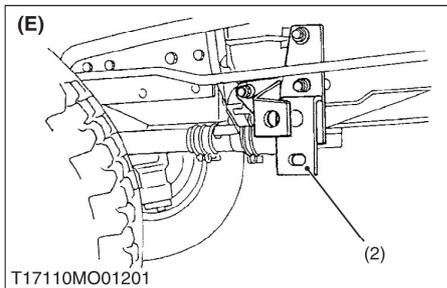
1. Attach the front hanger bracket (1) to the frame with M14 bolts.

- (1) Front Hanger Bracket

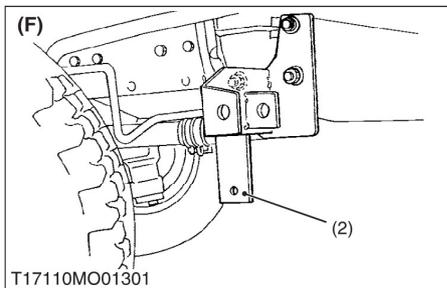
W1029353



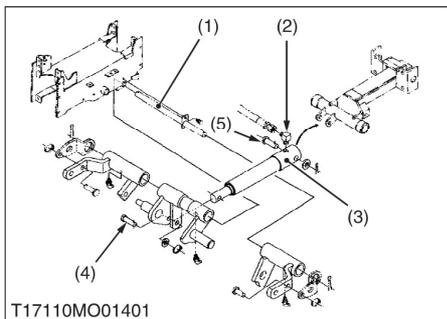
T17110MO01101



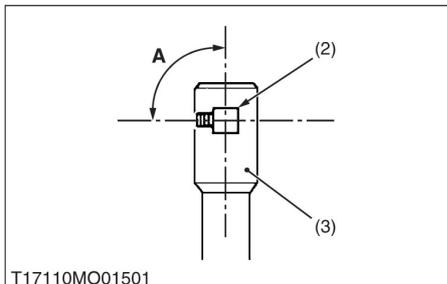
T17110MO01201



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T17110MO01401



T17110MO01501

Mid Hanger Bracket

1. Screw M12 stud bolts (1) in the clutch housing.
2. Attach the mid hanger brackets (2) to the clutch housing with spring washers and nuts.

Tightening torque	Stud bolt	31.4 N·m 3.2 kgf·m 23.1 ft-lbs
	Nut	68.6 N·m 7.0 kgf·m 50.6 ft-lbs

- (1) Stud Bolt
- (2) Mid Hanger Bracket
- (A) Outside (Round End)
- (B) Inside (Flat End)
- (C) Thread Size : M12 x Pitch 1.25
- (D) Thread Size : M12 x Pitch 1.75
- (E) RCK54-24B-EC, RCK60-24B-EC, RC60-24BR
- (F) RCK60-27B-EC, RC60-27BR

W1029421

Rear Hanger Bracket (Lift Cylinder Type)

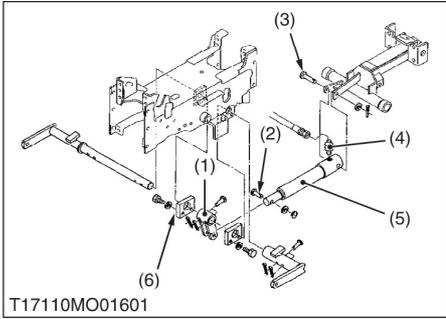
B1710, B2110 and B2410

1. Assemble the lift cylinder kit as shown in figure.
2. Apply grease to the cylinder joint pin (4), (5) and lift shaft (1).
3. Apply seal tape to the cylinder adaptor (2) and set the direction as shown in figure.
Tighten the cylinder adaptor with specified torque then rotate (clockwise) the adaptor to set the specified direction.
4. Set the cylinder rod flat face toward the RH side of machine.

Tightening torque	Cylinder adaptor	24.5 N·m 2.5 kgf·m 18.1 ft-lbs
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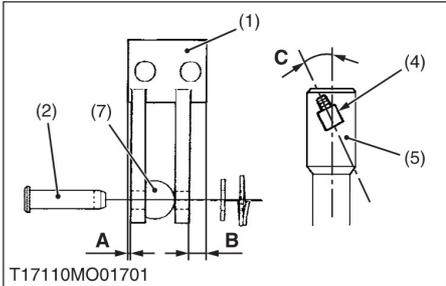
- (1) Lift Shaft
 - (2) Cylinder Adaptor
 - (3) Cylinder
 - (4) Joint Pin
 - (5) Joint Pin
- A : 1.57 rad. (90 °)**

W1015981



B2710

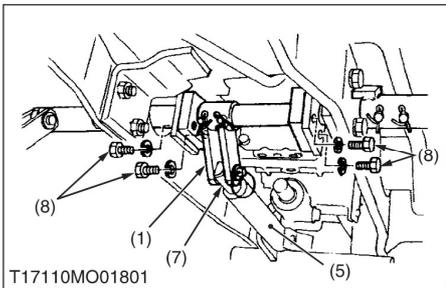
1. Assemble the lift cylinder kit as shown in figure.
2. Apply grease to the cylinder joint pin (2) and (3).
3. Apply seal tape to the cylinder adaptor (4) and set the direction as shown in figure.
Tighten the cylinder adaptor with specified torque then rotate (clockwise) the adaptor to set the specified direction.
4. Assemble the middle lift arm (1) as shown in figure, smaller clearance toward the RH side of machine.
5. Set the cylinder rod flat face toward the RH side of machine.

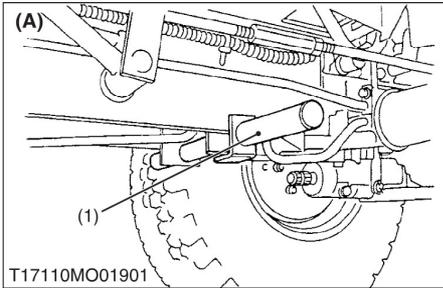


Tightening torque	Cylinder adaptor	24.5 N·m 2.5 kgf·m 18.1 ft-lbs
	Holder mounting reamer screw	48.1 to 55.8 N·m 4.9 to 5.7 kgf·m 35.5 to 41.2 ft-lbs

- | | |
|---|--|
| <ul style="list-style-type: none"> (1) Middle Lift Arm (2) Joint Pin (3) Joint Pin (4) Cylinder Adaptor (5) Cylinder (6) Holder | <ul style="list-style-type: none"> (7) Cylinder Rod (8) Holder Mounting Reamer Screw <p>A : Clearance 2.0 mm (0.078 in.)
 B : Clearance 10.0 mm (0.394 in.)
 C : 0.35 to 0.70 rad. (20 to 40 °)</p> |
|---|--|

W1016196





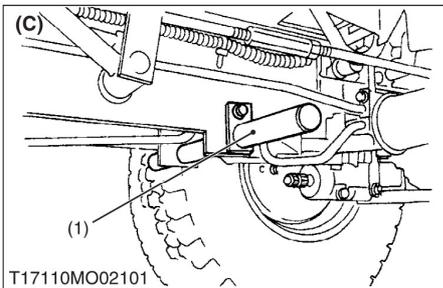
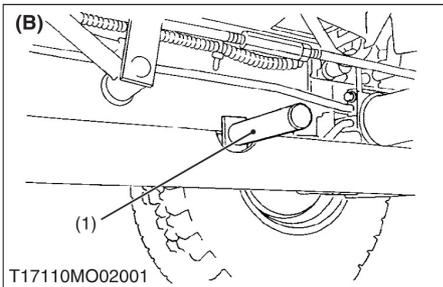
Rear Hanger Bracket (3-Point Hitch Lift Type)

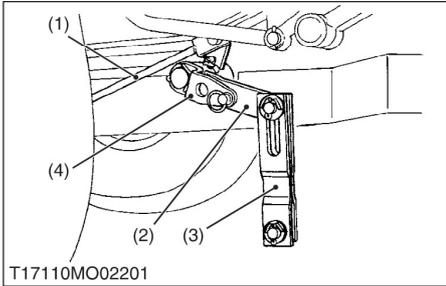
1. Insert the rear hanger bracket (1) from left side of the frame holes, and set it with M8 bolt.

(1) Rear Hanger Bracket

- (A) RCK54-24B-EC, RCK60-24B-EC
- (B) RCK60-27B-EC
- (C) RC60-24BR, RC60-27BR

W1016620



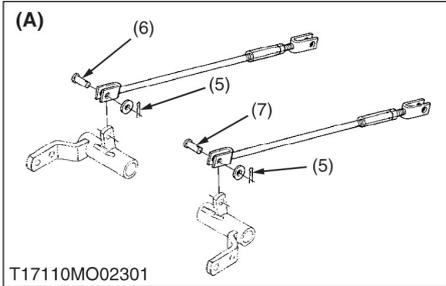


Lift Arm, Lift Link and Connecting Rod

1. Install the lift arms (2), lift links (3) and connecting rods (1) to the rear hanger bracket with plain washers and cotter pins.

NOTE

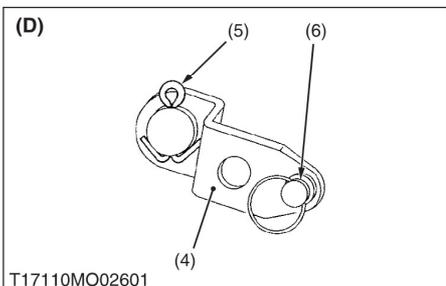
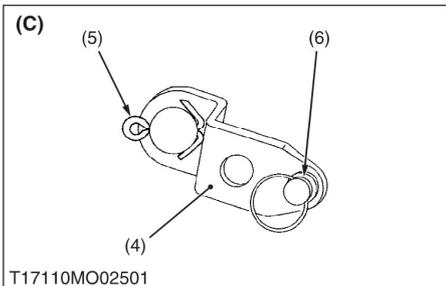
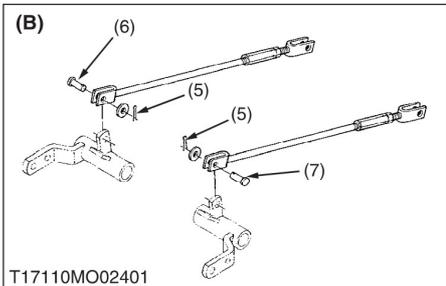
- The lift cylinder type does not use the connecting rod (1).
- Completely bend the cotter pin (5) to prevent contact with link stopper as shown in the figure.
- When assembling the connecting rod, insert the clevis pin (6), (7) care with the direction as shown in figure, and be sure to properly bend the cotter pin.

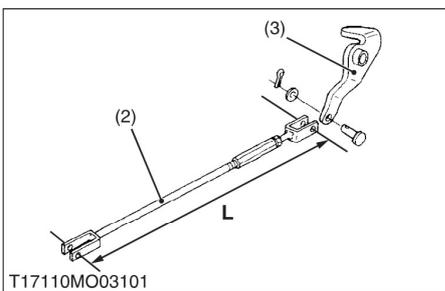
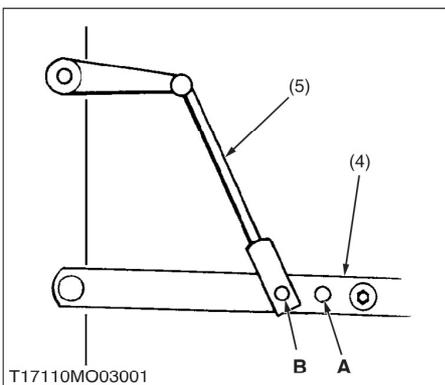
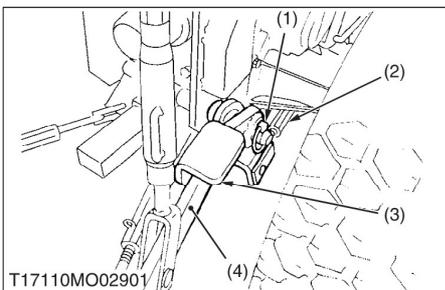
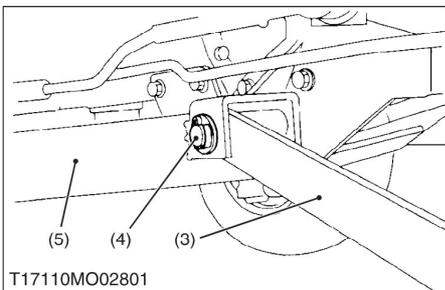
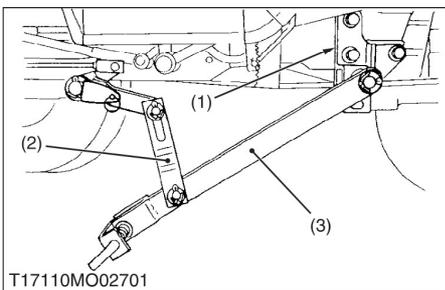


- (1) Connecting Rod
- (2) Lift Arm
- (3) Lift Link
- (4) Link Stopper
- (5) Cotter Pin
- (6) Clevis Pin
- (7) Clevis Pin

- (A) RCK54-24B-EC, RCK60-24B-EC, RC60-24BR, RC60-27BR with 3-Point Hitch Lift Type
- (B) RCK60-27B-EC with 3-Point Hitch Lift Type
- (C) RCK54-24B-EC, RCK60-24B-EC, RCK60-27B-EC
- (D) RC60-24BR, RC60-27BR

W1016829





Rear Link

(When mounting the mower only)

1. Install the rear links (3) to the mid hanger brackets (1) with plain washers and cotter pins.
2. Attach the lift links (2) to the rear links (3) with clevis pins, plain washers and cotter pins.

(When mounting the mower with front loader)

1. Install the rear links (3) to the front loader frame (5) with pins (4), plain washers and cotter pins.
2. Attach the lift links (2) to the rear links (3) with clevis pins, plain washers and cotter pins.

- (1) Mid Hanger Bracket
- (2) Lift Link
- (3) Rear Link
- (4) Pin (20 mm dia. × 135 mm length, 0.79 in. dia. × 5.31 in. length)
- (5) Front Loader Frame

W1017268

Lift Bracket (3-Point Hitch Lift Type Only)

1. Remove the spacer and lower links from the shaft of lower link.
2. Attach both lift brackets (3) inside the lower links (4) with the lower link pins (1) as shown in the figure.
3. Connect the connecting rods (2) to the lift brackets (3) with clevis pins, plain washers and cotter pins.

IMPORTANT

- Connect the lift rods (5) of the tractor as below, and adjust the length of both lift rods equally with the turnbuckle of the right lift rod.

(Reference)

Tractor lift rod and lower link setting position	B2410 B2710	A Position
	B1710 B2110	B Position
Connecting rod length (L)	RCK54-24B-EC RCK60-24B-EC	620 mm 24.4 in.
	RCK60-27B-EC	665 mm 26.2 in.

- (1) Lower Link Pin
- (2) Connecting Rod
- (3) Lift Bracket
- (4) Lower Link
- (5) Lift Rod

A : Lift rod and lower link setting position
B : Lift rod and lower link setting position

W1017587