GENERAL

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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.

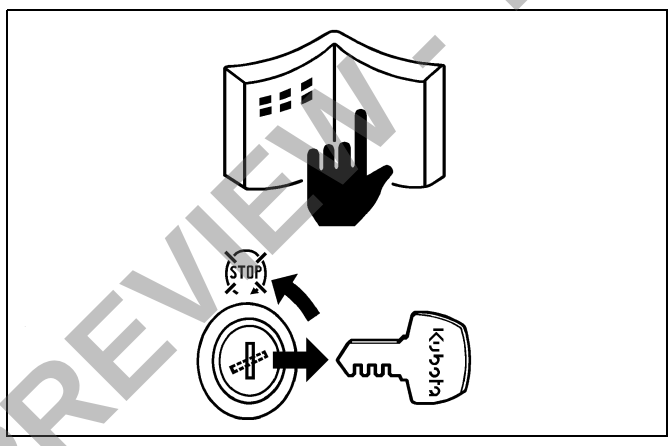
DANGER : Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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.

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SPECIFICATIONS

Model		RCK48-15BX	RCK54-15BX	RCK48-22BX	RCK54-22BX	RCK60B-22BX
Suitable tractor		BX1500		BX1800, BX2200, BX22		
Mounting method		Quick-Joint, Parallel linkage				
		Suspended linkage				Self-balance suspended linkage
Adjustment of cutting height		Dial gauge				
Cutting width		1219 mm (48 in.)	1372 mm (54 in.)	1219 mm (48 in.)	1372 mm (54 in.)	1524 mm (60 in.)
Cutting height		25 to 102 mm (1.0 to 4.0 in.)				
Weight (Approx.)		75 kg (165 lbs)	95 kg (210 lbs)	75 kg (165 lbs)	95 kg (210 lbs)	115 kg (250 lbs)
Blade spindle speed		54.7 S^{-1} (3281 rpm)	49.5 S^{-1} (2969 rpm)	54.7 S^{-1} (3281 rpm)	49.5 S^{-1} (2969 rpm)	44.1 S^{-1} (2647 rpm)
Blade tip velocity		72.8 m/s (14331 fpm)	73.8 m/s (14527 fpm)	72.8 m/s (14331 fpm)	73.8 m/s (14527 fpm)	72.5 m/s (14271 fpm)
Blade length		424 mm (16.7 in.)			475 mm (18.7 in.)	523 mm (20.6 in.)
Number of blades		3				
Dimensions	Overall length	895 mm (35.2 in.)	928 mm (36.5 in.)	895 mm (35.2 in.)	928 mm (36.5 in.)	1000 mm (39.4 in.)
	Overall width	1544 mm (60.8 in.)	1690 mm (66.5 in.)	1544 mm (60.8 in.)	1690 mm (66.5 in.)	1843 mm (72.6 in.)
	Overall height (Min.)	239 mm (9.4 in.)	245 mm (9.6 in.)	239 mm (9.4 in.)	245 mm (9.6 in.)	

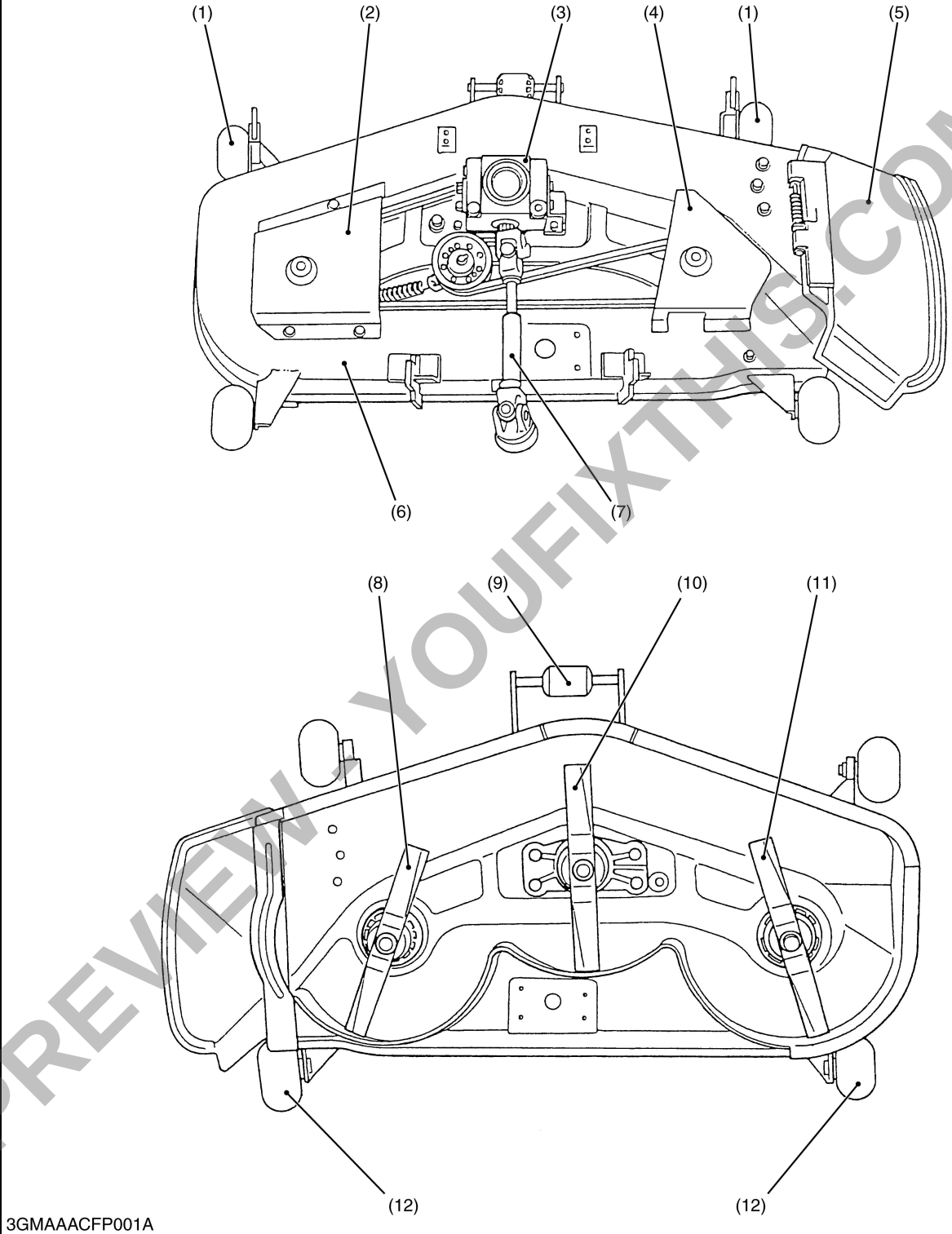
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TERMINOLOGY

[RCK48-15BX · RCK48-22BX · RCK54-15BX · RCK54-22BX]



3GMAAACFP001A

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

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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	⬡ 4 No-grade or 4T						⬡ 7 7T						⬡ 9 9T		
Material of bolt	SS400, S20C						S43C, S48C						SCr435, SCM435		
Material of opponent part	Ordinariness			Aluminum			Ordinariness			Aluminum			Ordinariness		
Unit / Diameter	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 to 9.31	0.80 to 0.95	5.79 to 6.87	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	9.81 to 11.2	1.00 to 1.15	7.24 to 8.31	7.85 to 8.82	0.80 to 0.90	5.79 to 6.50	12.3 to 14.2	1.25 to 1.45	9.05 to 10.4
M8 (8 mm, 0.31 in.)	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	16.7 to 19.6	1.7 to 2.0	12.3 to 14.4	23.6 to 27.4	2.4 to 2.8	17.4 to 20.2	17.7 to 20.5	1.8 to 2.1	13.1 to 15.1	29.5 to 34.3	3.0 to 3.5	21.7 to 25.3
M10 (10 mm, 0.39 in.)	39.3 to 45.1	4.0 to 4.6	29.0 to 33.2	31.4 to 34.3	3.2 to 3.5	23.2 to 25.3	48.1 to 55.8	4.9 to 5.7	35.5 to 41.2	39.3 to 44.1	4.0 to 4.5	29.0 to 32.5	60.9 to 70.6	6.2 to 7.2	44.9 to 52.0
M12 (12 mm, 0.47 in.)	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	–	–	–	77.5 to 90.2	7.9 to 9.2	57.2 to 66.5	62.8 to 72.5	6.4 to 7.4	46.3 to 53.5	103 to 117	10.5 to 12.0	76.0 to 86.7
M14 (14 mm, 0.55 in.)	108 to 125	11.0 to 12.8	79.6 to 92.5	–	–	–	124 to 147	12.6 to 15.0	91.2 to 108	–	–	–	167 to 196	17.0 to 20.0	123 to 144
M16 (16 mm, 0.63 in.)	167 to 191	17.0 to 19.5	123 to 141	–	–	–	197 to 225	20.0 to 23.0	145 to 166	–	–	–	260 to 304	26.5 to 31.0	192 to 224
M18 (18 mm, 0.71 in.)	246 to 284	25.0 to 29.0	181 to 209	–	–	–	275 to 318	28.0 to 32.5	203 to 235	–	–	–	344 to 402	35.0 to 41.0	254 to 296
M20 (20 mm, 0.79 in.)	334 to 392	34.0 to 40.0	246 to 289	–	–	–	368 to 431	37.5 to 44.0	272 to 318	–	–	–	491 to 568	50.0 to 58.0	362 to 419

W1034542

American standard cap screw with UNC or UNF threads.

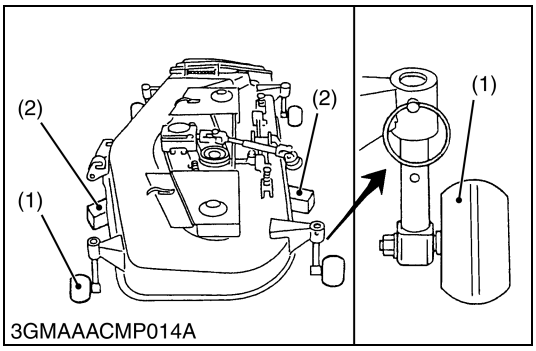
Grade / Unit / Nominal Diameter	SAE GR.5 ⬡ N·m	kgf·m	ft-lbs	SAE GR.8 ⬡ N·m	kgf·m	ft-lbs
5/16	23.1 to 27.8	2.35 to 2.84	17.0 to 20.5	32.5 to 39.3	3.31 to 4.01	24.0 to 29.0
3/8	47.5 to 57.0	4.84 to 5.82	35.0 to 42.0	61.0 to 73.2	6.22 to 7.47	45.0 to 54.0
1/2	108.5 to 130.2	11.07 to 13.29	80.0 to 96.0	149.2 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

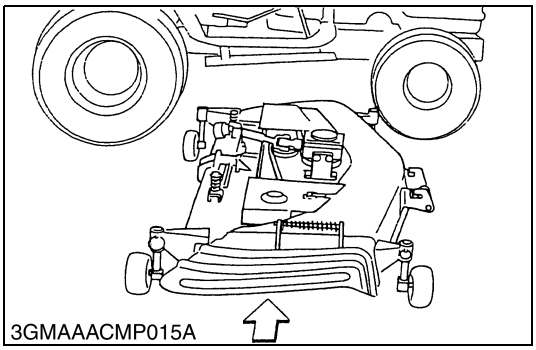
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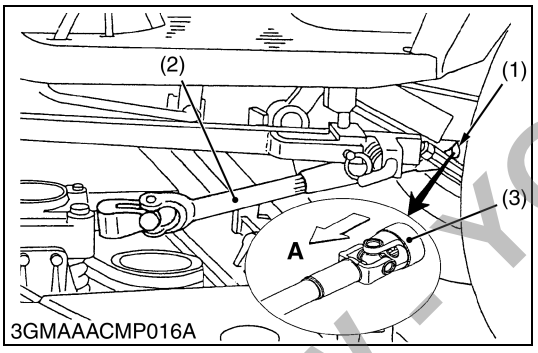
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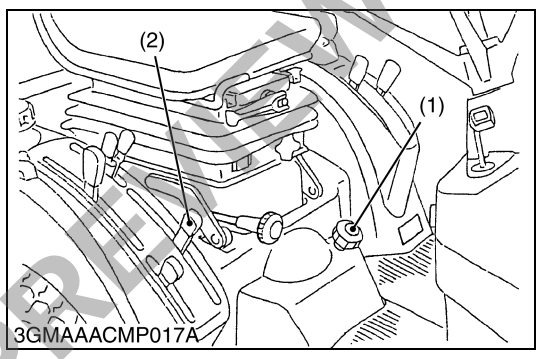
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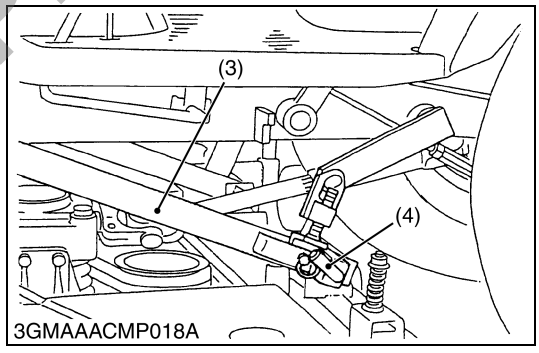
7. SETTING UP MOWER











Assembling Mower

1. Take out all mower components from the case, and assemble the mower.
2. Support the mower deck with a block (2) as shown in the figure.
3. Turn the anti-scalp rollers (1) sideway position (RCK54-15BX, RCK54-22BX and RCK60B-22BX).
4. Remove the block.

(1) Anti-scalp Roller (2) Block

W1016757

Setting Mower

CAUTION

- **Park the tractor on a firm, flat and level surface, set the parking brake, stop the engine and remove the key.**

1. Start the engine and the hydraulic lever rearward to raise the mower rear link to the highest position.
2. Stop the engine and remove the key.
3. Roll the mower under the tractor from right side.

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Universal Joint

1. Pull back the coupler (3) of the universal joint (2).
2. Push the universal joint (2) onto the mid-PTO shaft (1), and release the coupler (3).

IMPORTANT

- **Slide the universal joint back and forward to make sure the universal joint is locked securely.**

(1) Mid-PTO Shaft **A : Pull**
(2) Universal Joint
(3) Coupler

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Rear Link

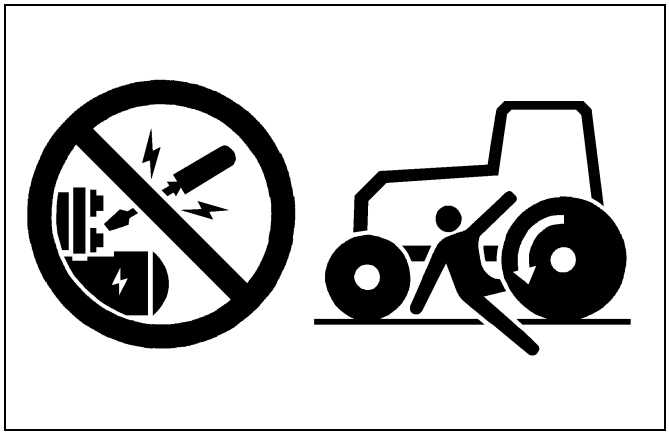
1. Set the cutting height control dial (1) to zero inch position.
2. Operate the tractor's hydraulic control lever (2) forward to lower the mower rear links (3).
   Attach the rear link (3) to the mower with the L-pins (4).

(1) Cutting Height Control Dial (3) Rear Link
(2) Hydraulic Control Lever (4) L-pin

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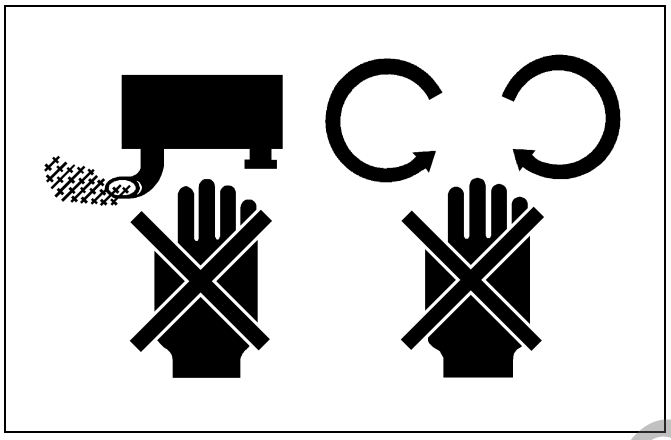
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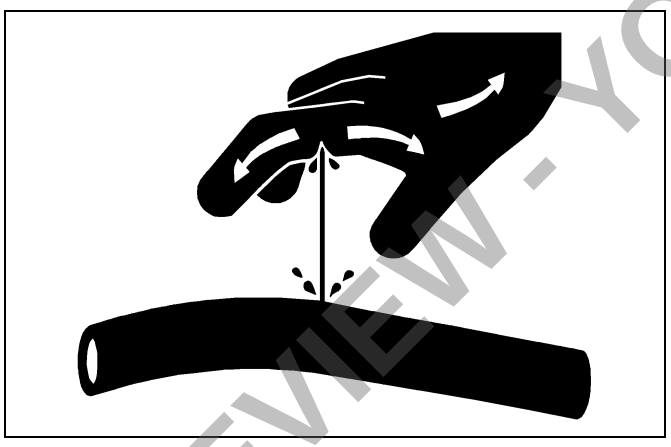
SAFETY STARTING

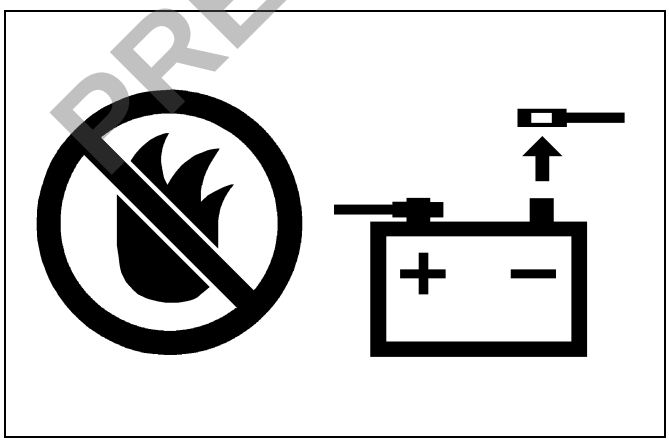
- Do not start the engine by shorting across starter terminals or bypassing the safety start switch.
- Do not alter or remove any part of machine safety system.
- Before starting the engine, make sure that all shift levers are in neutral positions or in disengaged positions.
- Never start the engine 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. Makeshift 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.

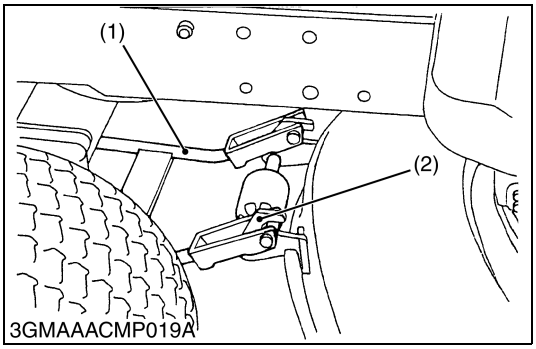


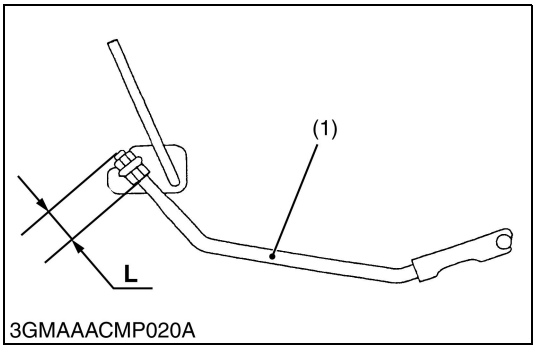


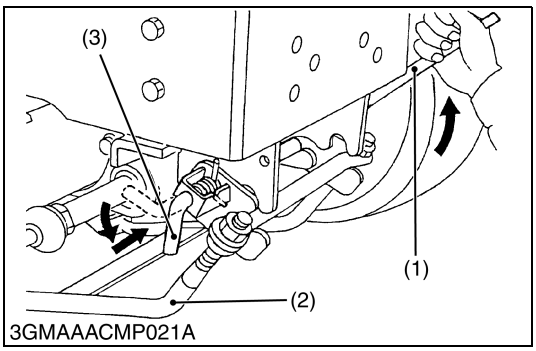
AVOID FIRES

- 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.
- Mark sure that no fuel has been spilled on the engine.

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Front Link

1. Hook the front link (1) to the front bracket groove (2) as shown in the figure.

(Reference)

- Make sure the length (**L**) of the front link (1) is 48 mm (1.8897 in.).

(1) Front Link (2) Front Bracket Groove

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Mounting Front Link

1. Push down the front lever (1), pulling the L-pin (3).
2. Hook the front link (2) to the lever fulcrum, and lift the front lever (1).
3. Return the L-pin (3) to lock the front lever.

■ **NOTE**

- **Make sure the front lever (1) is fixed with L-pin (3) securely.**

(1) Front Lever (3) L-pin
(2) Front Link

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