

OPERATOR'S MANUAL

HYDRO-STAR[®]

CHASSIS CHARTER

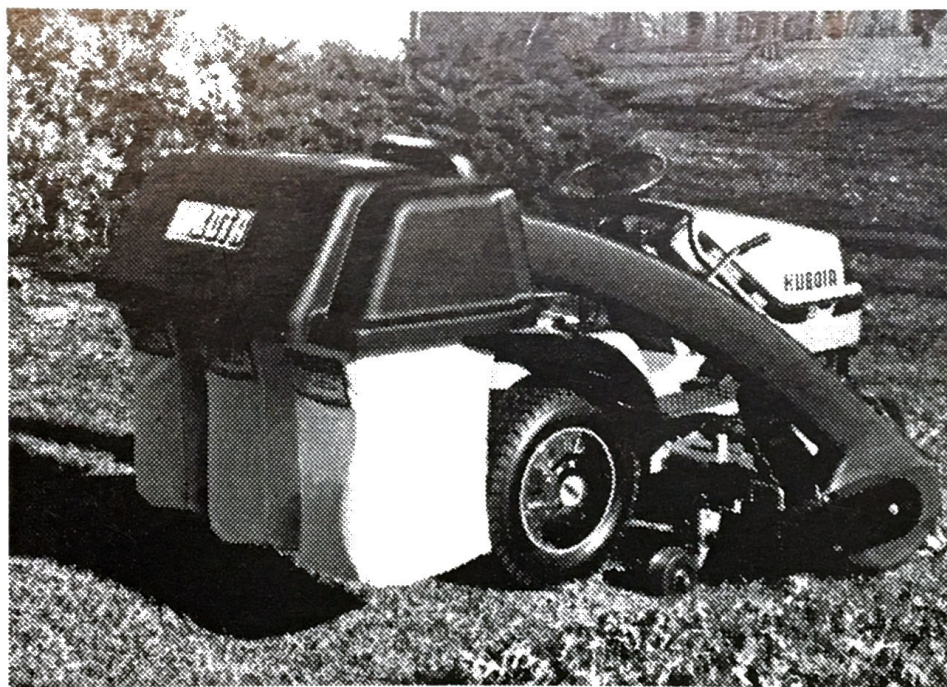


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MODELS GC48G, GC54G & GC60G GRASS CATCHERS

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SAFETY PRECAUTIONS



THIS SAFETY ALERT SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES WITHIN THIS MANUAL. CAREFULLY READ THE MESSAGE THAT FOLLOWS THE SYMBOL. FAILURE TO UNDERSTAND AND OBEY A SAFETY WARNING, OR RECOGNIZE A SAFETY HAZARD, COULD RESULT IN AN INJURY TO YOU, OR OTHERS AROUND YOU. THE OPERATOR IS ULTIMATELY RESPONSIBLE FOR THE SAFETY OF HIMSELF, AS WELL AS OTHERS, IN THE OPERATING AREA.

Kubota mowers and grass catchers are designed to give safe, dependable service if they are operated according to instructions. Read and understand this manual, and the tractor and mower operator's manuals, before operating the mower and grass catcher. It is the owner's responsibility to be certain anyone operating this equipment is familiar with its use and all safety precautions. Failure to do so could result in serious personal injury, injury to others, property and equipment damage.

BEFORE OPERATION:

Read and understand all safety and instruction labels on this equipment, and the safety precautions found in the tractor, mower and grass catcher operator's manuals, BEFORE operation.

Never allow anyone to operate the grass catcher until they are thoroughly familiar with basic tractor, mower and grass catcher operation.

Always make sure all grass catcher components are properly installed and securely fastened BEFORE mowing.

Carefully check the area to be mowed, and remove any foreign objects, such as rocks, bottles and cans, toys, etc., that may cause personal or bystander injury, or equipment and property damage.

DURING OPERATION:

Hearing protection is recommended when operating the grass catcher.

Do not allow passengers on the tractor, mower or grass catcher at any time. The operator MUST sit in the tractor seat.

When mowing for the first time, cut the grass higher than desired. This procedure could uncover any unseen object that may damage the mower or grass catcher.

Inspect the mower and grass catcher after striking any foreign object. This is to assure that all mower and grass catcher parts are secure and not damaged.

Mow only during daylight hours, or when the area to be mowed is well lit.

SAFETY PRECAUTIONS — Continued

MAINTENANCE:

To avoid injury, do not adjust, unclog or service the mower or grass catcher with the tractor engine running. Disengage the PTO, place ALL other CONTROLS IN NEUTRAL, set the parking brake, shut off the engine, remove the key, and make sure ROTATING BLADES ARE STOPPED, before leaving the operator's seat.

Keep the tractor, mower and grass catcher clean. Dirt and grass build-up can cause fires that may lead to serious personal injury. Immediately replace any safety label that is damaged, lost, or otherwise becomes illegible.

Always wear eye protection when cleaning or servicing the grass catcher.

All blower cleaning or service MUST be performed with the BLOWER REMOVED from the mower.

Do not work under any part of the tractor, mower, or grass catcher, unless it is securely supported by safety stands.

Make sure all shields and guards are securely in place following all service, cleaning, or repair work.

The cloth grass bags are subject to wear and deterioration. Check them frequently. Use only genuine replacement bags from KUBOTA.

TRANSPORTING & STORAGE:

If the tractor/mower/grass catcher is to be driven on public roads, it must be equipped with an SMV (Slow Moving Vehicle) sign. Check local traffic codes that may apply to unit usage on public roads and highways in your area.

Be alert for all other traffic when driving on public roads or highways.

Moisture content in most grasses can damage mower and grass catcher components. Also, dry grass and leaves left in the bags can be a fire hazard. Always make sure the bags are completely empty and the blower and chutes are fully cleaned before storage.

SAFETY LABELS



76700-41701

WARNING LABEL #1

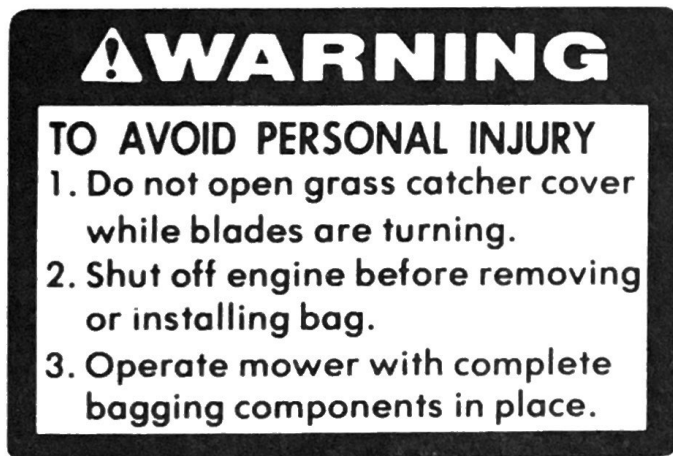
This label is installed on polished area on the top of the blower housing.



66071-99081

WARNING LABEL #2

This label is installed on the polished area on the grass catcher chute.



66071-99081

WARNING LABEL #3

This label is installed on a polished area on the rear of the grass catcher cover.



Bag Replacement Part Number 70050-93047

GRASS BAG CAUTION LABEL

This label is printed on each grass bag. As the bags become dirty, they should be washed in a mild detergent. If the label is badly faded after repeated washing, the bags should be replaced.

INTRODUCTION

APPLICATION:

This Grass Catcher has been designed for use on Kubota Two and Four Wheel Steer - "G" Series Tractors, set up according to the application chart below.

GENERAL:

This manual has been prepared to assist with proper installation, maintenance, and safe operation of the Grass Catcher.

If a service problem occurs, or parts are needed, contact your Kubota dealer. Use only genuine KUBOTA replacement parts on the Mower and Grass Catcher.

All references to **right and left, forward or rearward**, are from the tractor operator's seat, facing the steering wheel.



CAUTION: READ AND UNDERSTAND ALL SAFETY AND INSTRUCTION LABELS ON THE EQUIPMENT, AND THE SAFETY PRECAUTIONS FOUND IN THE TRACTOR, MOWER, AND GRASS CATCHER OPERATOR'S MANUALS, **BEFORE** OPERATION.

MODEL/SERIAL INFORMATION:

Your Kubota dealer will need the model and serial numbers from the tractor, mower, and grass catcher, to supply up-to-date parts for your equipment.

The grass catcher serial plate is located on the vertical frame, below the center bag. Record its information, and the mower and tractor information below.

Keep this Manual with the Tractor and Mower Operator's Manuals for future reference.

GRASS CATCHER APPLICATION CHART

MOWER	RC48-G20	RC48-G20S	RC54-G20	RC60-G20
TRACTOR				
G1800	GC48G		GC54G	
G1800S		GC48G	GC54G	
G1900	GC48G		GC54G	GC60G
G1900S		GC48G	GC54G	GC60G
G2000			GC54G	GC60G
G2000S			GC54G	GC60G

Kubota Tractor reserves the right to change, modify, or eliminate from time to time, for technical or other reasons, certain or all data, specifications, or equipment of the product, or the product themselves, without any liability or obligation.

GRASS CATCHER

MOWER

TRACTOR

Model Number _____

Serial Number _____

Dealer Name _____

Purchase Date _____

SETTING-UP INSTRUCTIONS

IMPORTANT: The mower must be installed, and operational, before the Grass Catcher can be installed!

NOTE: Fastener torques for all bolts on the grass catcher can be found on page 14 of this manual. Fasteners should be torqued as they are installed, unless otherwise specified.

MOWER PREPARATION:

Remove the right belt shield from the mower deck. Using the appropriate template enclosed, mark and cut the right belt shield. Lightly file the cut area to remove sharp edges, and touch up the paint. Lay the shield aside until the paint is dry.

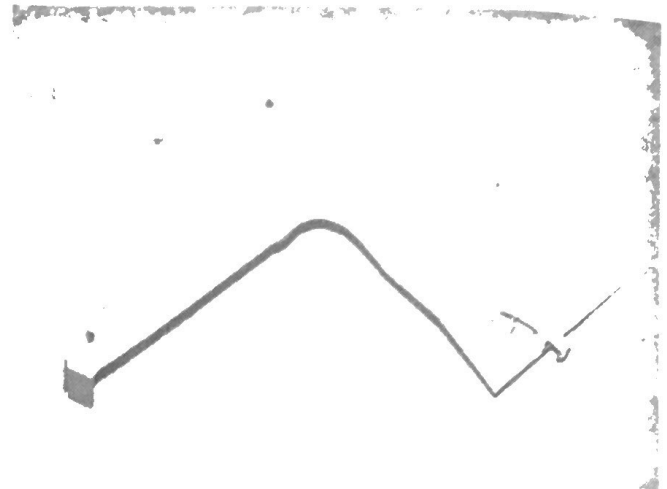
GEARBOX INSTALLATION:

Install the Gearbox to the top of the right mower pulley with four (4) M8-1.25 x 16 bolts and lockwashers.

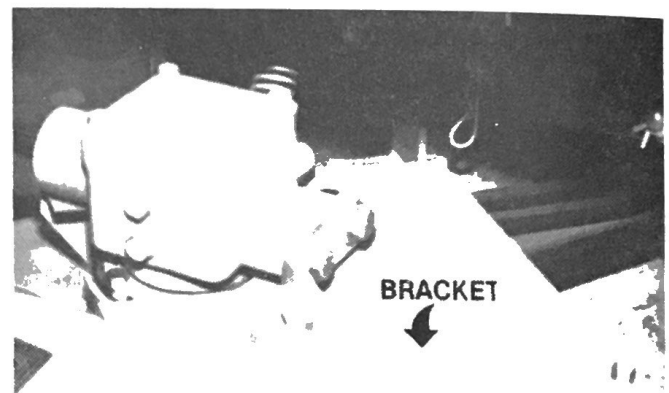
GC48G: Reinstall the right belt shield over the studs thru the rear of the shield. Align the Gearbox Bracket with the front belt shield holes and fasten with two (2) new M8-1.25 x 20 bolts and lockwashers.

ALL: Fasten the Gearbox Bracket to the gearbox with two (2) M10-1.25 x 20 bolts, lockwashers and M10 flat washers.

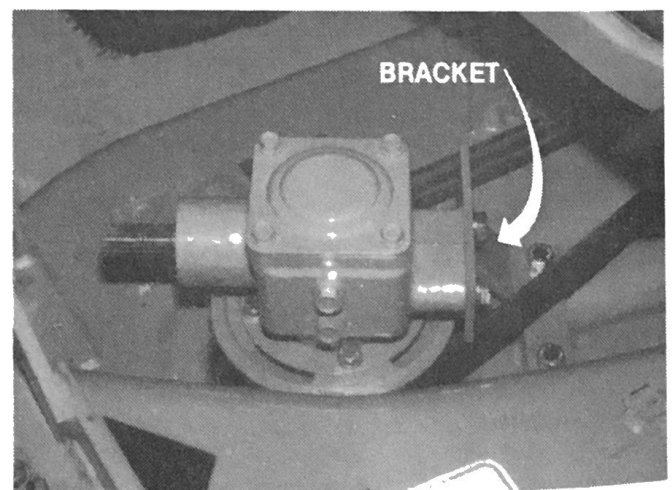
GC54G & GC60G: Fasten the bracket to the deck with M10-1.25 x 16 and M10 lockwashers. Reinstall the right belt shield.



Shield from RC60-G20 Mower Shown



GC48G Gearbox Bracket Illustration



GC54G & GC60G Gearbox Bracket Illustration

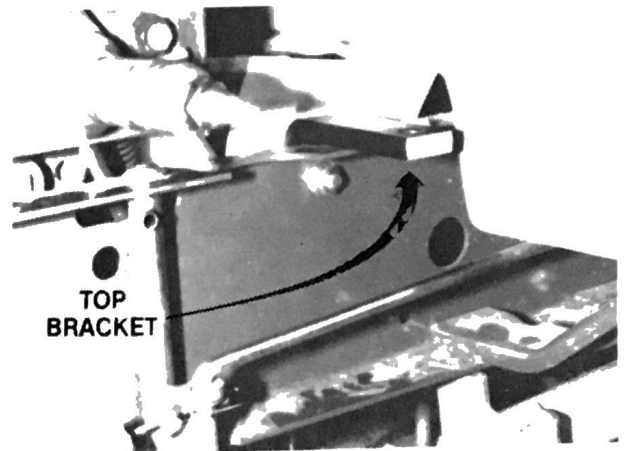
SETTING-UP INSTRUCTIONS — Continued

Remove two (2) bolts from the gearbox cover and install the Shield over the output shaft on the gearbox.



DECK SPRING KIT INSTALLATION:

Install the Top Bracket for the spring over the main tractor frame. Locate the small horizontal hole in the frame, just behind the floor pan, under the right rear fender. Place the short angle over the frame and fasten with one (1) 5/16-18 x 1 bolt, lockwasher and nut.

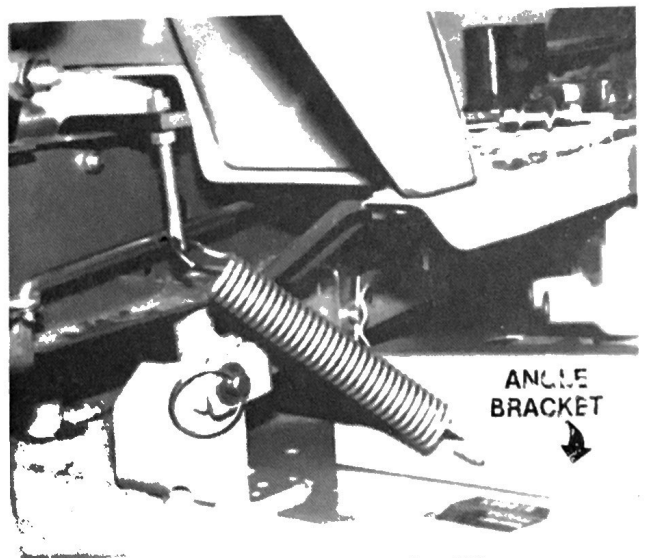


Hang the spring from the tension screw and install it to the top bracket. Connect the spring to the lower bracket and fasten as follows:

GC48G: The "angle" lower bracket mounts on top of the rear angle edge of the shield, on the mount studs, and is retained by the shield fasteners.

GC54G & GC60G: The "flat" lower bracket fastens on the rear edge of the shield, on the shield mount studs, and is retained with the shield fasteners.

The tension screw should be adjusted and locked to hold the spring in tension in all mowing heights.



RC48-G20 Deck Spring Kit
Shown Installed

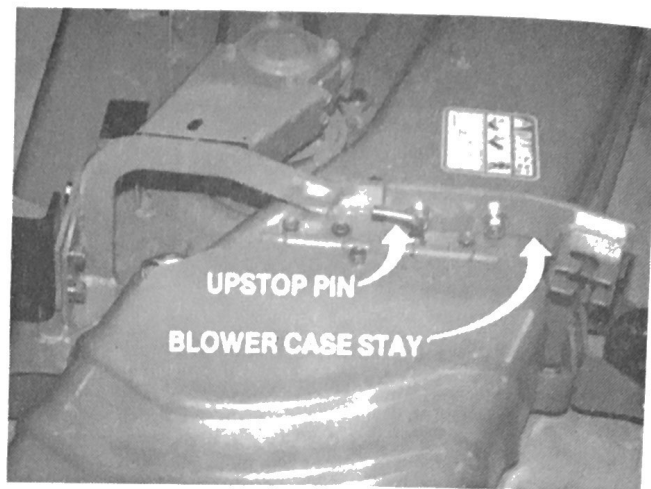
BLOWER INSTALLATION:

On the 54 and 60 inch mower decks, remove and discard both outer metric fasteners thru the right gauge wheel bracket to deck mount.

DO NOT tighten blower bracket fasteners until the blower has been installed.

IMPORTANT: Loosen the discharge deflector up-stop pin, turn and retighten it to point rearward.

Install the Blower Case Stay to the outside of the cross brace, in line with existing holes, and loosely retain with two (2) M10-1.25 x 40 bolts, with the flat washers, lockwashers and nuts to the outside.



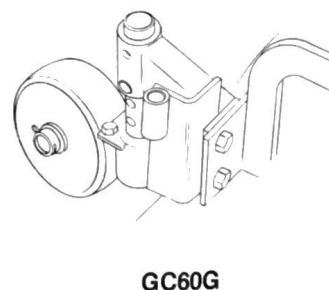
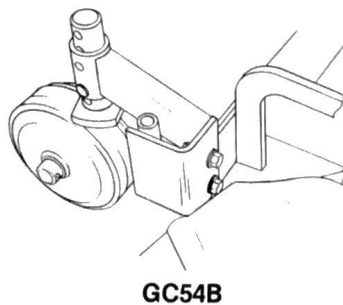
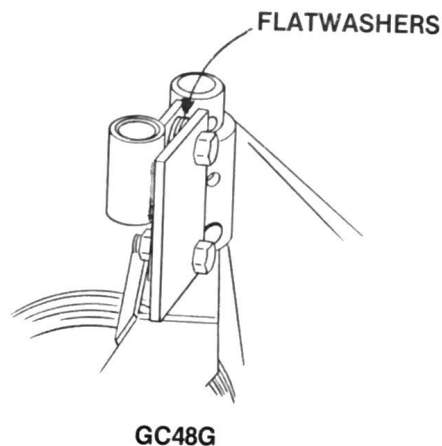
Loosely fasten the "J" Pin Support as follows:

GC48G: On the front side of the right rear gauge wheel spindle bracket as illustrated, using flat washers as spacers, (necessary for blower alignment) with two (2) M10-1.25 x 30 bolts, lockwashers and nuts.

GC54G: Against the deck mount, front side. . .

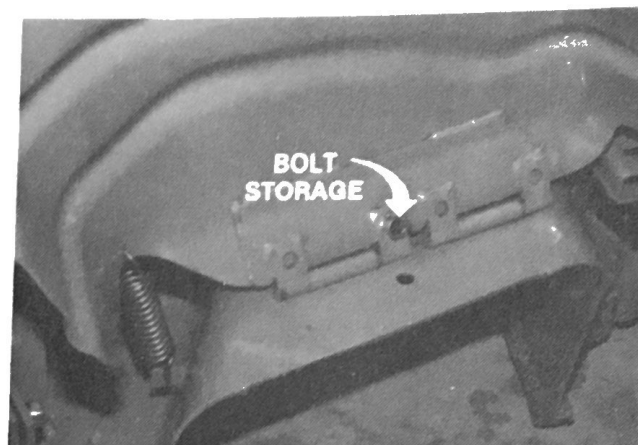
GC60G: Against the wheel bracket, rear side. . .

as illustrated, with two (2) M10-1.25 x 30 bolts, flat washers, lockwashers and nuts.

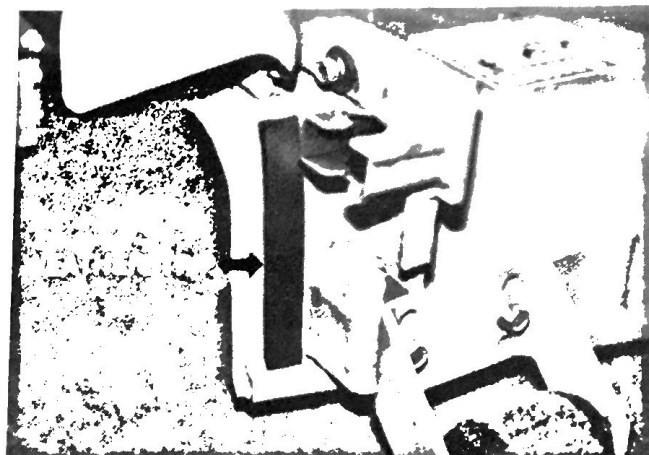


SETTING-UP INSTRUCTIONS — Continued

Remove the nut and bolt holding the discharge deflector closed, open the deflector, and reinstall the bolt and nut thru the deflector hole. Place the deflector in the up position.



Install the short weatherstrip seal on the front of the deck, outside the anti-skid roller bracket as shown.



Install the Blower Assembly to the blower case stay, connect the Driveshaft, and latch in place with the "J" pin.



Raise the front of the blower until the stay is level and the blower is centered, and torque all loose blower bracket fasteners.

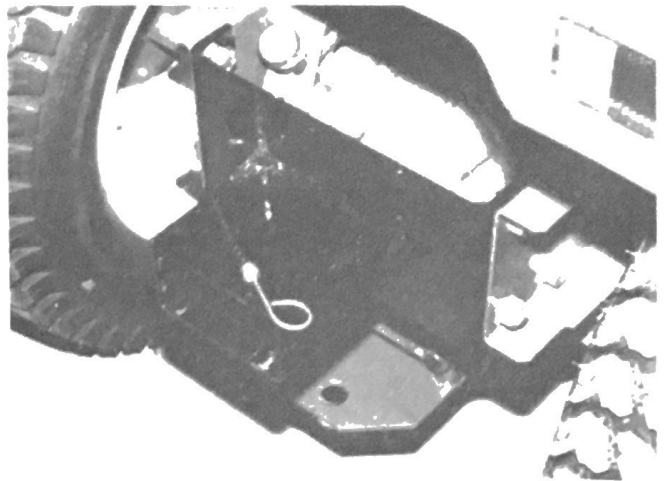
SETTING-UP INSTRUCTIONS — Continued

REAR FRAME INSTALLATION:

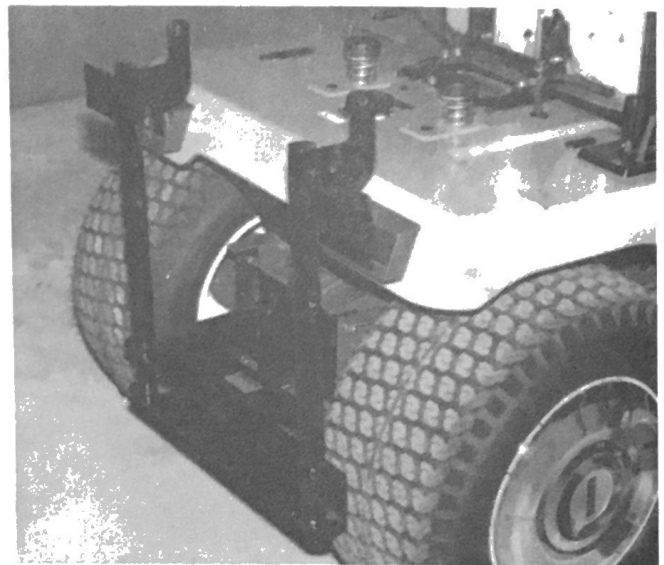
Remove the differential dipstick for bolt installation clearance.

Install the Support Bracket to the rear of the tractor with four (4) M12-1.75 x 25 bolts, lock-washers and nuts.

Reinstall the differential dipstick.



Slide the Vertical Frame into the support bracket and retain with a 1/2 x 5 Clevis Pin, flat washer and small Hairpin Clip.

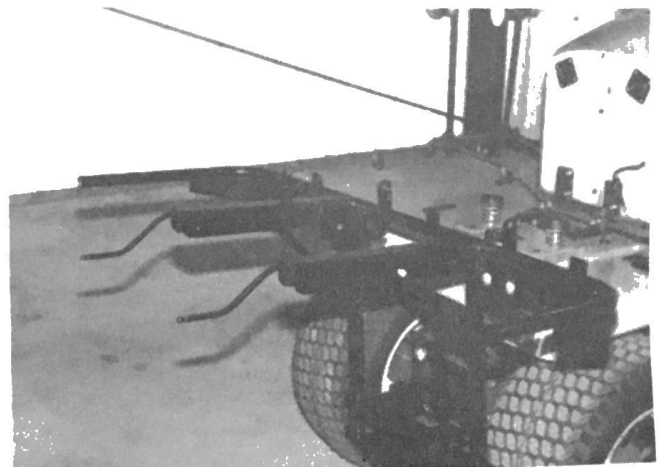


IMPORTANT: DO NOT tighten any fasteners until the entire support frame and all braces are completely installed.

Install the Bag Support Frame to the rearward side of the vertical frame with four (4) 5/16-18 x 3/4 bolts, flat washers and locknuts.

Fasten both Angle Stiffeners to the vertical frame tubes with two (2) 5/16-18 x 1-3/4 bolts, and to the bottom edge of the support frame channel with two (2) 5/16-18 x 3/4 bolts. Retain with locknuts.

Tighten all loose support frame fasteners.



SETTING-UP INSTRUCTIONS — Continued

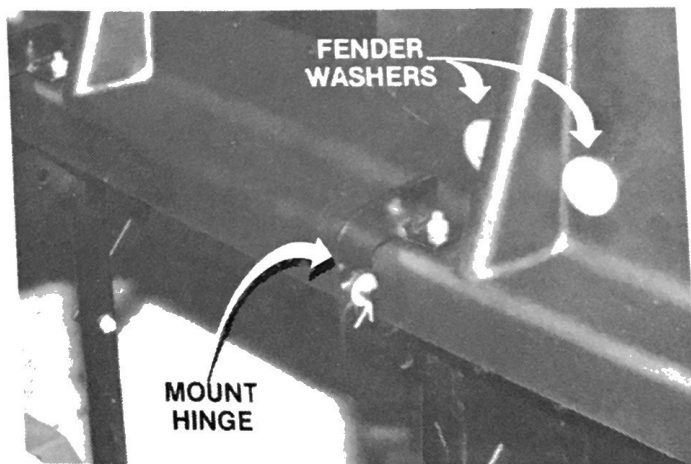
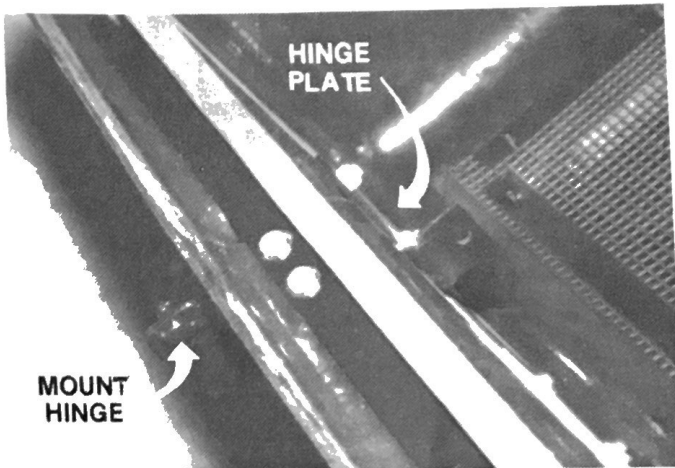
COVER ASSEMBLY & INSTALLATION:

Fasten both Mount Hinges to the top front edge of the cover with four (4) 5/16-18 x 1 bolts, and locknuts.

Install the latch Hinge Plate to the under side of the cover and fasten from the outside with two (2) 5/16-18 x 3/4 bolts and fender washers. Retain with locknuts.

Install the Cover to the support frame and retain with two (2) 5/16 flatwashers and 1/8 x 1 Cotter Pins.

Assemble the remaining Latch Links, as shown, with three (3) 5/16 x 1/2 Clevis Pins and 1/8 x 1 Cotter Pin.

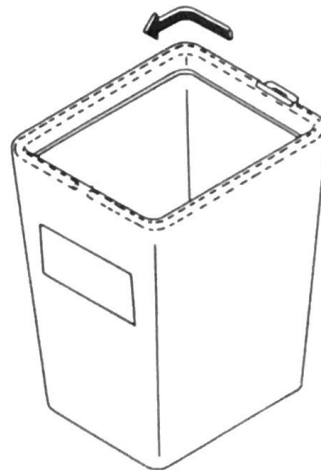


SETTING-UP INSTRUCTIONS — Continued

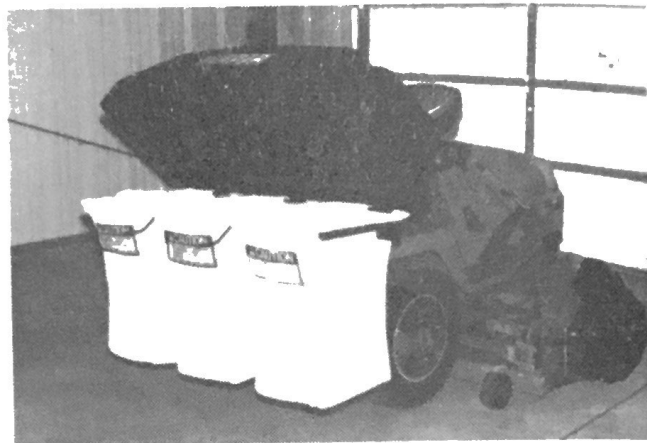
GRASS BAG ASSEMBLY:

The bag seam openings and bag frame mount slots are offset to the right. Make sure they match before assembly.

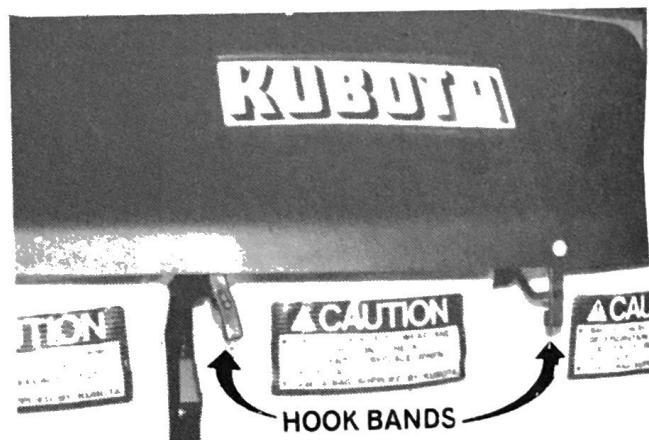
Place the seam openings onto the frame openings and turn the bags until the opening is around the slot brackets.



Install all three (3) Grass Bags onto the bag frame and close the cover.



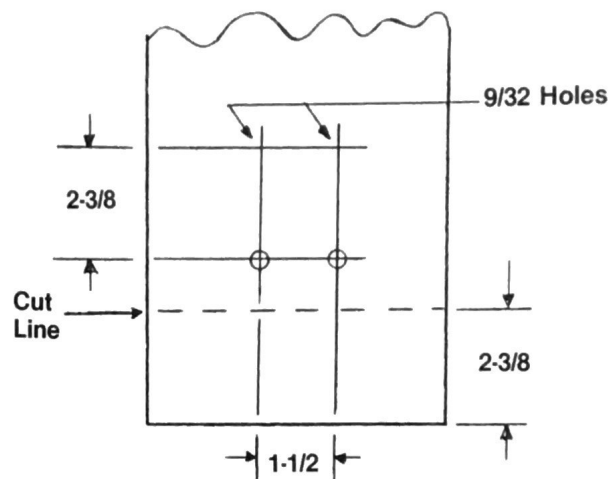
Fasten both rubber hook bands to hold the cover closed.



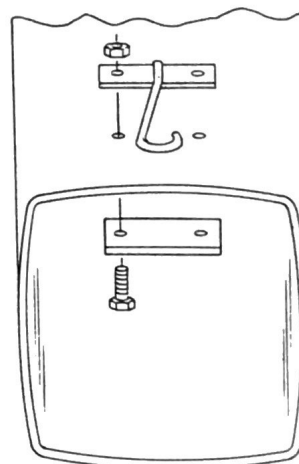
SETTING-UP INSTRUCTIONS — Continued

CHUTE ASSEMBLY & INSTALLATION:

GC48G ONLY: When this grass catcher is installed on the RC48-G20 mower, **on two wheel steer tractors only**, the chute hook mount holes must be moved and the chute cut off as illustrated. Dimensions are shown in fractions of an inch. Later model chutes have dimple marks for hole location and cut line.



Assemble the chute Hook as shown, with two (2) $\frac{1}{4}$ -20 x $\frac{3}{4}$ bolts and locknuts.



Slide the curved end of the chute into the opening in the cover, place the lower end onto the blower housing. Fasten the blower housing hook band to the chute hook.

Assembly is now complete. Be sure to read the Operating Instructions beginning on page 15, before using the Grass Catcher.



BOLT TORQUE TIGHTENING CHART

Use the following charts for all Grass Catcher fastener torque applications.

U.S. Bolt Size	Torque	
	 Grade 5	
	ft.-lb.	N•m
1/4-20	7-9	9-12
5/16-18	10-15	15-20
3/8-16	20-25	25-35
7/16-14	30-40	40-55
1/2-13	50-60	70-80

Metric Bolt Size	Torque (ft.-lb.)	
	 Grade 8.8	 Grade 7
	ft.-lb.	N•m
M 8	17-20	23-27
M-10	34-40	45-55
M-12	55-65	75-90
M-14	91-109	125-145
M-16	145-166	196-225

IMPORTANT: All torque specifications apply to plated or oiled fasteners. When non-plated or dry fasteners are used, increase recommended torque by 20%.

MAINTENANCE

CLEANING PROCEDURES:



CAUTION: ALWAYS WEAR EYE PROTECTION WHEN CLEANING OR SERVICING THE GRASS CATCHER.



CAUTION: DO NOT WORK UNDER ANY PART OF THE TRACTOR, MOWER, OR GRASS CATCHER, UNLESS IT IS SECURELY SUPPORTED BY SAFETY STANDS.

The grass catcher should be washed regularly using a mixture of mild detergent and water.

Use a soft rag on the viewing windows so they do not get scratched. Wash grass build-up from the inside of the cover, net, and the chute, with a soft bristled brush.



WARNING: ALL BLOWER CLEANING OR SERVICE **MUST** BE PERFORMED WITH THE **BLOWER REMOVED** FROM THE MOWER.

The blower should be cleaned every time grass build-up is removed from the bottom of the mower deck. This should be accomplished daily if the grasses mowed were unusually lush or wet.

Following any water washing, all grass catcher components should be re-assembled on the tractor and mower. Start the tractor, mower and blower and run at low idle for 1 to 2 minutes, allowing air flow to dry the wet components.

REPLACING THE CLOTH GRASS BAG:



CAUTION: THE CLOTH GRASS BAGS ARE SUBJECT TO WEAR AND DETERIORATION. CHECK THEM FREQUENTLY. USE ONLY GENUINE REPLACEMENT BAGS FROM KUBOTA.

If the grass bags are unusually dirty or grass stained, they should be washed with a mild detergent and water and hung up to dry. Do not attempt to dry the cloth bags in a clothes dryer! If the CAUTION Label information is badly faded after repeated washing, the bags should be replaced.

See page 12 for bag installation information. Bag removal is a reversal of those instructions.



CAUTION: MAKE SURE ALL SHIELDS AND GUARDS ARE SECURELY IN PLACE FOLLOWING ALL SERVICE, CLEANING, OR REPAIR WORK.

OPERATING INSTRUCTIONS

GENERAL BAGGING INFORMATION:



CAUTION: ALWAYS MAKE SURE ALL GRASS CATCHER COMPONENTS ARE PROPERLY INSTALLED AND SECURELY FASTENED **BEFORE** MOWING.



CAUTION: HEARING PROTECTION IS RECOMMENDED WHEN OPERATING THE GRASS CATCHER.

Always mow at full engine speed. This will insure the most airflow into the grass bags. If the tractor engine lugs down while mowing, reduce the tractor ground speed.

Grass and leaf collecting performance depends on air flow into the bags. Mow when the grass is dry. Chute and blower plugging can be more frequent in wet conditions.

Tall grass clippings may also plug the blower and chute. Mow at the highest height of cut and remove the entire area at the final desired height to avoid plugging.

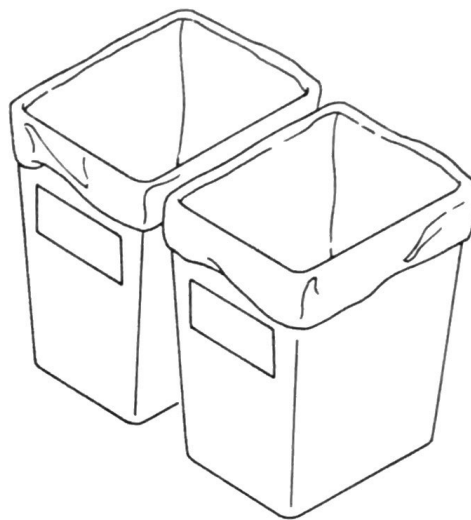


CAUTION: DO NOT ALLOW PASSENGERS ON THE TRACTOR, MOWER, OR GRASS CATCHER AT ANY TIME. THE OPERATOR **MUST** SIT IN THE TRACTOR SEAT.

NEVER mow with the mower raised in the transport position. When transporting the mower and grass catcher. ALWAYS disengage the tractor PTO.

Mow up and down slopes, not across. Avoid all grass catcher operation on steep slopes.

Stay alert for holes or humps that could effect stability of the tractor/mower/grass catcher.



NOTE: Plastic lawn and leaf bags, 33 gallon size, can be used inside the cloth bags. Be sure to leave enough plastic bag over the bag frame, so the plastic bags can be twist tied before emptying.



CAUTION: INSPECT THE MOWER AND GRASS CATCHER AFTER STRIKING ANY FOREIGN OBJECT. THIS IS TO ASSURE THAT ALL MOWER/GRASS CATCHER PARTS ARE SAFE AND SECURE AND ARE NOT DAMAGED.

Thoroughly clean the mower deck, the blower housing and chute, and the cover lid and tractor engine radiator screens, after each mowing. Grass build-up, left to dry, will be very difficult to remove, and if not removed, will effect future mowing and bagging performance.



WARNING: ALL BLOWER CLEANING OR SERVICE **MUST** BE PERFORMED WITH THE **BLOWER REMOVED** FROM THE MOWER.

CLEARING PLUGGED DUCTS:



WARNING: TO AVOID INJURY, DO NOT ADJUST, UNCLOG OR SERVICE THE MOWER OR GRASS CATCHER WITH THE TRACTOR ENGINE RUNNING. DISENGAGE THE PTO, PLACE **ALL OTHER CONTROLS IN NEUTRAL**, SET THE PARKING BRAKE, SHUT OFF THE ENGINE, REMOVE THE KEY, AND MAKE SURE **ROTATING BLADES ARE STOPPED**, BEFORE LEAVING THE OPERATOR'S SEAT.

Release the chute hook band, remove the chute and lay it aside. Release both cover hook bands and raise the cover, allowing the latch linkage to hold the cover open. Dump the chute into one of the grass bags and again lay it aside.

Disengage the "J" hook and blower driveshaft and remove the blower. Dump and clear the fan and chute outlet area of clippings.

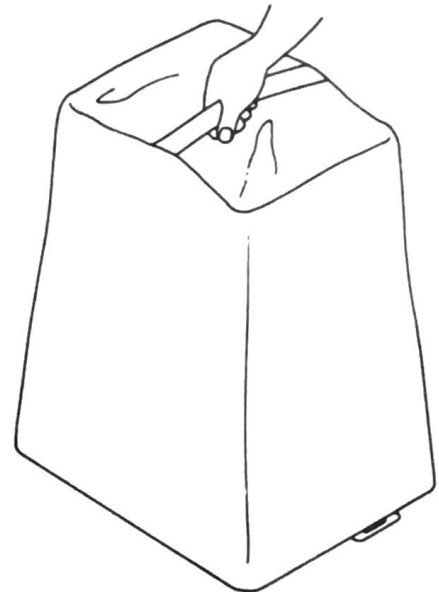
Empty the grass bags, close the cover, and reinstall the blower housing and chute.



CAUTION: ALWAYS MAKE SURE ALL GRASS CATCHER COMPONENTS ARE PROPERLY INSTALLED AND SECURELY FASTENED **BEFORE** MOWING.

EMPTYING GRASS BAGS:

Remove the cloth bag and frame by lifting and sliding rearward. Grasp the loop on the bottom of the bag, turn it upside down and empty collected debris, or the twist tied plastic bags. Repeat on the other bags.



Reinstall all grass bags, line with plastic bags if desired, close the cover and fasten both hook bands.

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