

**GCX19 Grass Collector
For DX18E & DX24E Tractors
With MWX154S or MWX160S
Mower Decks**

OPERATOR'S MANUAL

**87041311
Rev. 1/04**

INTRODUCTION

TO THE OWNER & OPERATOR

Congratulations on your decision to purchase a Case grass catcher. We recommend you read this manual before operating your new GCX19 three bag grass catcher.

Your grass catcher has been designed to give many years of satisfactory service. Successful operation and long life depends on proper maintenance and correct operating technique.

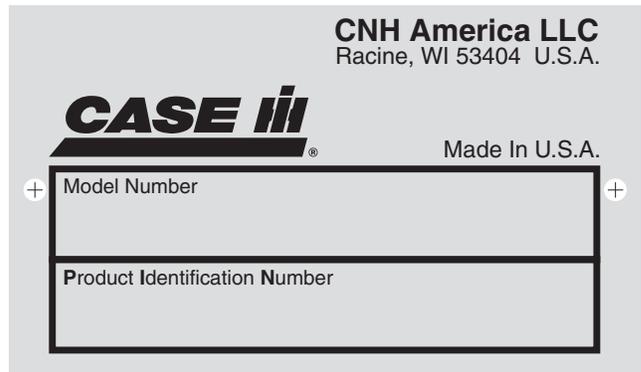
This operator's manual has been printed to provide you with safe operating techniques, proper maintenance procedures, correct unit assembly, and parts identification on your grass catcher. Please read this manual carefully, following all instructions. Keep this manual handy for future reference.

All references to right and left, forward or rearward, used in this manual refer to that direction when seated on the tractor facing forward.

If any assistance be required in understanding any section of this manual, contact your Case dealer.

IDENTIFICATION NUMBERS

The serial number plate, pictured below, is located on the right hand side of the blower fan housing. Record the numbers from it on the pictured plate below. Always refer to this information when requesting repair parts or dealer service.



Contact your Case dealer for authorized service parts. Substitute repair parts will void the product warranty, and will not meet the standards required for safe operation.

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SAFETY PRECAUTIONS

A careful operator is the best operator. Most accidents can be avoided by observing certain safety precautions. Read and understand these precautions before using the grass collector. This equipment should be operated by those who have been trained in its safe use.

BEFORE OPERATION

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

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

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

Carefully check the area to be mowed, and remove any foreign objects, such as rocks, 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 collector.

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

Inspect the mower and grass collector after striking any foreign object. This will assure that all mower and grass collector components are secure and not damaged.

Mow and bag only during daylight hours, or when the area is well lit.

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

MAINTENANCE

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

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

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

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

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

The cloth grass bags are subject to wear and deterioration. Check them often. Use genuine replacement bags from Case.

TRANSPORTING & STORAGE

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

Moisture content in most grasses can damage mower and grass collector 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.

WHEN YOU SEE THIS SYMBOL  IT MEANS:
ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

OPERATING INSTRUCTIONS

GENERAL BAGGING INFORMATION

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

⚠ CAUTION: HEARING PROTECTION IS RECOMMENDED WHEN OPERATING THE GRASS COLLECTOR.

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.

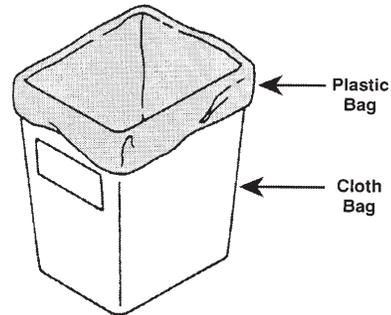
Tall grass clippings may also plug the blower and chute. Mow at the highest height of cut and re-mow the entire area at the final desired height to avoid plugging.

⚠ WARNING: DO NOT ALLOW PASSENGERS ON THE TRACTOR, MOWER, OR GRASS COLLECTOR 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 collector, ALWAYS disengage the tractor PTO.

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

Stay alert for holes or bumps that could affect stability of the tractor, mower and grass collector.



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

⚠ WARNING: INSPECT THE MOWER AND GRASS COLLECTOR AFTER STRIKING ANY FOREIGN OBJECT. THIS WILL ASSURE THAT ALL MOWER AND GRASS COLLECTOR PARTS ARE SECURE AND NOT DAMAGED.

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

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

OPERATING INSTRUCTIONS - Continued

CLEARING PLUGGED DUCTS



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

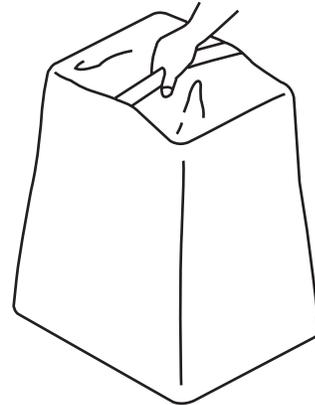
1. Release the chute hook band, remove the chute and lay it aside. Release both cover hook bands and raise the cover, allowing the latch linkage to hold the cover open. Dump the chute into the grass bags and lay it aside.
2. Remove the wing nut and washer and remove the tethered guard that covers the gearbox lower pulley.
3. Remove the front handle pin and pivot the blower housing rearward. This will allow the drive belt to be easily disconnected from the bottom of the gearbox pulley.
4. Raise the blower out of its rear bracket and remove the blower. Dump and clear the fan and chute outlet area of clippings.
5. Empty the grass bags, close the cover, and reinstall the blower housing and chute by reversing steps 1 through 4 above.



CAUTION: ALWAYS MAKE SURE ALL GRASS COLLECTOR 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 plastics bags. Repeat on the other bags.



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

MAINTENANCE SECTION

SCHEDULED LUBRICATION

The gearbox oil needs to be changed on scheduled intervals. The initial gearbox oil change needs to be completed after 100 hours of use. It is recommended that gearbox oil be changed at 200 hour intervals thereafter. Oil capacity for gearbox when changing oil is 5 oz. of AGMA 5EP oil (Amoco Permagear EP220 or equivalent). For gearbox replacement or repairs refer to the parts breakdown in the PARTS LIST section of this manual.

The driveline should also be greased on scheduled intervals. It is recommended that driveline U-joints be greased every 25 hours of use. Refer to PARTS LIST section of this manual for repair parts and assembly diagram.

CLEANING PROCEDURES

 **WARNING:** ALWAYS WEAR SAFETY GLASSES OR OTHER EYE PROTECTION WHEN SERVICING OR CLEANING THE GRASS COLLECTOR.

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

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

Use a soft rag on the see through chute so it does not get scratched. Wash grass buildup from the inside of the cover screen, and other chute parts, 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 buildup 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 collector components should be reassembled 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.

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

REPLACING THE GRASS BAG

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

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!**

See page 20 for bag installation information. Bag removal is a reversal of those instructions.

BOLT TORQUE CHART

STANDARD FASTENER TORQUES

Mounting bolts and fasteners may work loose during operation due to vibration or stress. A visual check of the complete tractor/mower/grass catcher should be made daily. All fasteners should be checked for correct retention torque weekly, and more often if the unit is being operated in rough areas.

All locally procured fastening hardware should be equivalent to those which are called out in the parts pages in this manual beginning on page 24. Use the charts on pages 9-10 for general torque specifications for Grade 5 and Grade 8 standard and metric fasteners.

NOTE:

All standard torque specifications apply to plated or oiled fasteners. When dry or non-plated fasteners are used, increase specified torque values by approximately 20%.

BOLT TORQUE CHART - Continued

MINIMUM HARDWARE TIGHTENING TORQUES

IN FOOT POUNDS (NEWTON-METERS) FOR NORMAL ASSEMBLY APPLICATIONS

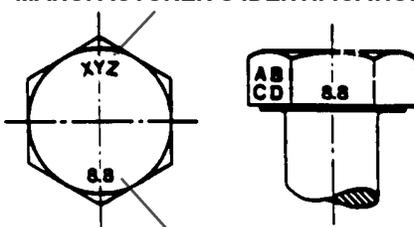
METRIC HARDWARE AND LOCKNUTS

NOMINAL SIZE	CLASS 5.8		CLASS 8.8		CLASS 10.9		LOCKNUT CL.8 W/CL8.8 BOLT
	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	UNPLATED	PLATED W/ZnCr	
M4	15* (1.7)	19* (2.2)	23* (2.6)	30* (3.4)	33* (3.7)	42* (4.8)	16* (1.8)
M6	51* (5.8)	67* (7.6)	79* (8.9)	102* (12)	115* (13)	150* (17)	56* (6.3)
M8	124* (14)	159* (18)	195* (22)	248* (28)	274* (31)	354* (40)	133* (15)
M10	21 (28)	27 (36)	32 (43)	41 (56)	45 (61)	58 (79)	22 (30)
M12	36 (49)	46 (63)	55 (75)	72 (97)	79 (107)	102 (138)	39 (53)
M16	89 (121)	117 (158)	137 (186)	177 (240)	196 (266)	254 (344)	97 (131)
M20	175 (237)	226 (307)	277 (375)	358 (485)	383 (519)	495 (671)	195 (265)
M24	303 (411)	392 (531)	478 (648)	619 (839)	662 (897)	855 (1160)	338 (458)

NOTE: Torque values shown with * are inch pounds.

**IDENTIFICATION
HEX CAP SCREW AND CARRIAGE BOLTS
CLASSES 5.6 AND UP**

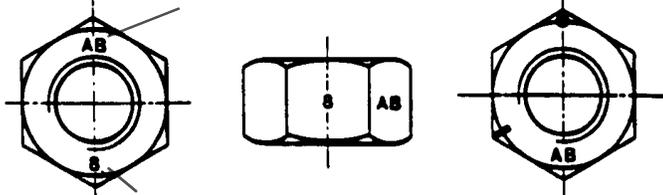
MANUFACTURER'S IDENTIFICATION



PROPERTY CLASS

**HEX NUTS AND LOCKNUTS
CLASSES 05 AND UP**

MANUFACTURER'S IDENTIFICATION



PROPERTY CLASS

CLOCK MARKING

BOLT TORQUE CHART - Continued

MINIMUM HARDWARE TIGHTENING TORQUES

IN FOOT POUNDS (NEWTON-METERS) FOR NORMAL ASSEMBLY APPLICATIONS

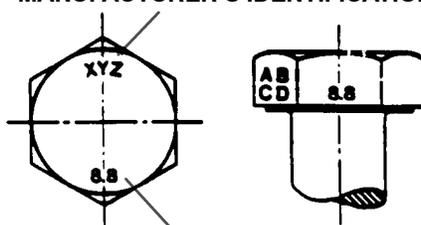
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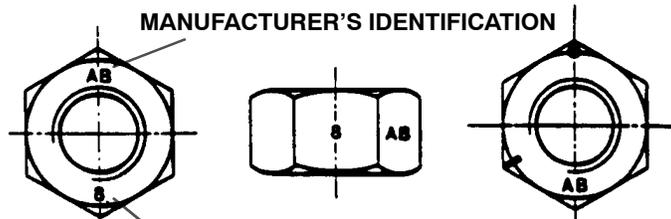
MANUFACTURER'S IDENTIFICATION



PROPERTY CLASS

**HEX NUTS AND LOCKNUTS
CLASSES 05 AND UP**

MANUFACTURER'S IDENTIFICATION



PROPERTY CLASS

CLOCK MARKING

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