

6-Row Row-Crop



OPERATOR'S MANUAL 6-Row Row-Crop

OMZ92115 Issue E8 (ENGLISCH)

John Deere Werke Zweibrücken
European Version
Printed in U.S.A.





We appreciate the confidence you have shown in John Deere for the purchase of this equipment.

INSPECTIONS

Before handing over this row-crop, your dealer performed a Predelivery Inspection. After the row-crop has operated the first 100 hours, your dealer should perform an After-Sale Inspection in order to guarantee the reliable operation of the row-crop.

The check list provided for the Predelivery Inspection (at the beginning of the Operator's Manual) will be completed and removed by your John Deere dealer as the inspection is being performed. The dealer will confirm completion of the inspection on the check list and will hand over the pink colored copy to you.

IMPORTANT: This row-crop is designed solely for use in customary agricultural operations ("intended use"). Use in any other way is considered as contrary to the intended use. The manufacturer accepts no liability for damage or injury resulting from this misuse, and these risks must be borne solely by the user. Compliance with and strict adherence to the conditions of operation, service and repair as specified by the manufacturer also constitute essential elements for the intended use. This row-crop should be operated, serviced and repaired only by persons familiar with all its particular characteristics and acquainted with the relevant safety rules (accident prevention). The accident prevention regulations, all other generally recognized regulations on safety and occupational medicine and the road traffic regulations must be observed at all times. Any arbitrary modifications carried out on this row-crop will relieve the manufacturer of all liability for any resulting damage or injury.

SAFETY



CAUTION: This safety alert symbol indicates important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

At the hand over, your dealer explained the proper operation and maintenance of the row-crop. Read this Operator's Manual carefully before using the row-crop for the first time, and pay particular attention to the Safety Rules on the first pages.

MEASUREMENTS

Your operator's manual contains the international standardized SI metric measurement system.

DIRECTION

Right-hand and left-hand sides of this machine are determined by facing in the direction of forward travel.

SERIAL NUMBER

Record the serial number of your row-crop in the spaces provided at the end of this manual. Your dealer needs this information when ordering spare parts.

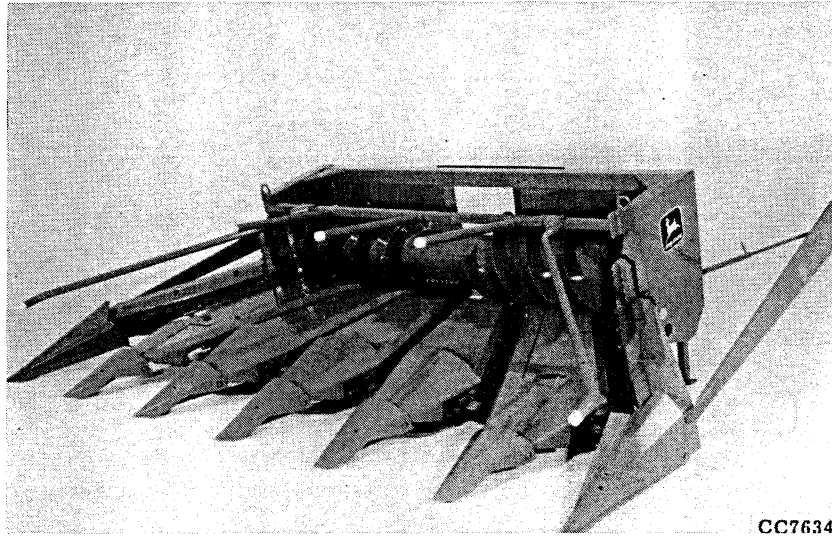
All information, illustrations, and specifications contained in this operator's manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

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A John Deere ILLUSTRATION™ Manual

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Identification View



CC7634

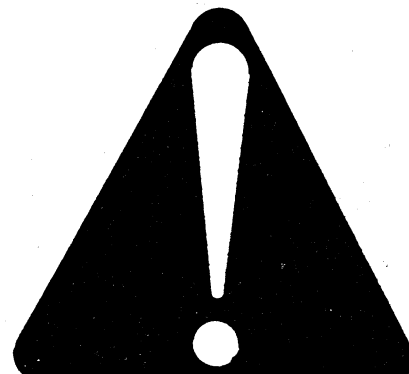
CC7634-6RRCACCE-010486

Safety (General)

RECOGNIZE SAFETY INFORMATION

This is the safety alert symbol. When you see this symbol on your machine or in this manual, be alert to the potential for personal injury.

Follow recommended precautions and safe operating practices as well as the general safety and accident prevention regulations in order to avoid accidents.



T81389

T81389-ESPD AE-260188

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.

Learn how to operate the machine and how to use the controls before starting work. During work is too late! Do not let anyone operate without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.



TS201

TS201-ESPD AE-260188

UNDERSTAND SIGNAL WORDS

A signal word – DANGER, WARNING or CAUTION – is used with the safety alert symbol. DANGER identifies the most serious hazards.

Safety signs with signal words DANGER or WARNING are typically located near specific hazards.

General precautions are listed on the CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

SIGNAL-ESPD AE-140388

WEAR PROTECTIVE CLOTHING

Wear close fitting clothing and safety equipment appropriate to the job.

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as ear-muffs or earplugs to protect against objectionable or uncomfortable loud noises.

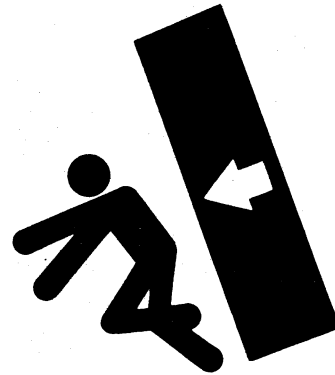


TS206-ESPDAE-230487

STORE ATTACHMENTS SAFELY

Stored attachments such as crop dividers, headers, etc. can fall and cause serious injury or death.

Securely store attachments and implements to prevent from falling. Keep playing children and bystanders away from storage area.



TS219-ESPDMAE-070488

Safety (Operation)

STAY CLEAR OF ROTATING DRIVELINES

Entanglement in rotating driveline can cause serious injury or death. When operating, no-one may be allowed to remain in the vicinity of the rotating drive shaft. Always ensure that drive shaft guards are in position.

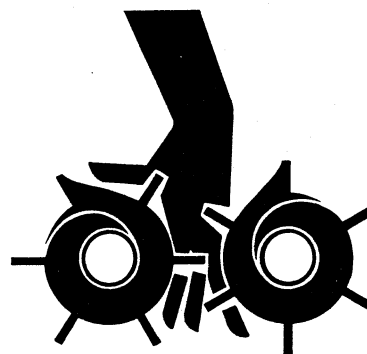
Wear close-fitting clothing. Stop engine, remove key and be sure the drive shaft has stopped before making adjustments, connections or cleaning out machine.



TS198-ESPDMDAE-030588

AVOID ENTANGLEMENT

To avoid entanglement, do not feed crop material into machine by hand or attempt to manually unplug machine while it is running. The feed rolls and gatherer chains can feed the crop material in faster than you can release your grip on the material.



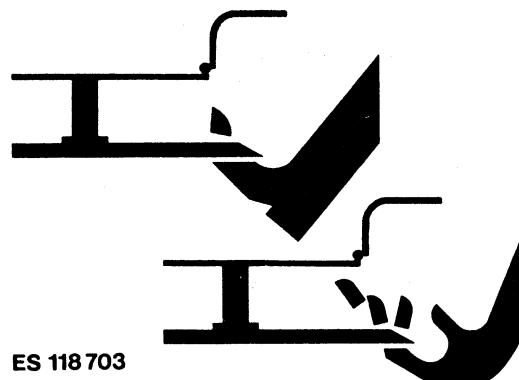
ES118715-ESPDRCAC-300588

GUARDS AND SHIELDS

Keep guards and shields in place at all times. Ensure that they are serviceable and installed correctly.

Always disengage all drives, shut off engine and remove key before removing any guards or shields.

Keep hands, feet and clothing away from moving parts.



ES118703-ESPDRCAC-300588

STAY CLEAR OF HEADER

Gatherer chains, feed rolls etc. cannot be completely shielded by constructional measures due to their function. Always stay clear of these moving elements during operation! Always disengage header drive, shut off the engine and remove key before servicing or unclogging header.



ES118704-ESPDRCAC-300588

KEEP HANDS AWAY FROM KNIVES

Never attempt to clear obstructions in front of or on header unless drives are disengaged, engine shut off and key removed.

Everyone must be clear of the machine before starting the engine.



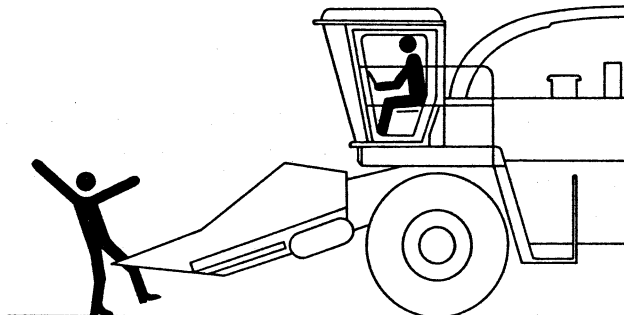
TS 254

TS254-ESPDRCAE-300588

TRANSPORT WITH HEADER INSTALLED

Before driving on public roads, row-crop must be folded, raised to highest position and secured.

Before driving forage harvester on public roads, front guards must be installed on row-crop.

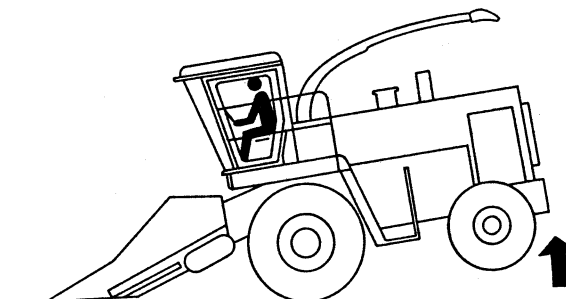


ES 118 716

ES118716-ESPDRCAE-280488

BALLASTING FOR SAFE GROUND CONTACT

Operating, steering and braking performance of forage harvester can be considerably affected by attachments which alter the center of gravity of the forage harvester. To maintain the necessary ground contact, ballast the forage harvester at the rear end as necessary. Observe maximum permissible axle loads and total weights.



ES 114 063

ES114063-ESPDRCAE-070488

Safety (Service)

PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate or service machine while it is moving. Keep hands, feet and clothing from power-driven parts. Disengage all power and operate the controls to relieve pressure. Lower equipment to the ground. Stop the engine. Remove the key. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil or debris.

Disconnect battery ground cable(s) (–) before making adjustments on electrical system or welding on machine.



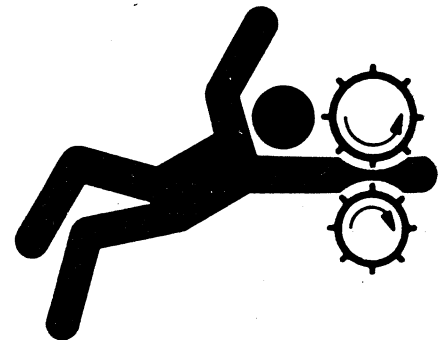
TS218

TS218-ESPD AE-160288

SERVICE MACHINE SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



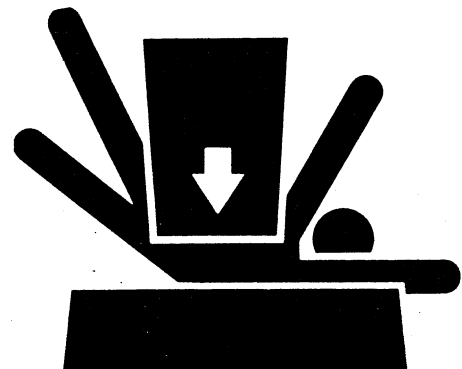
TS228

TS228-ESPD AE-160288

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles or props that may crumble under continuous load. Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



TS 229

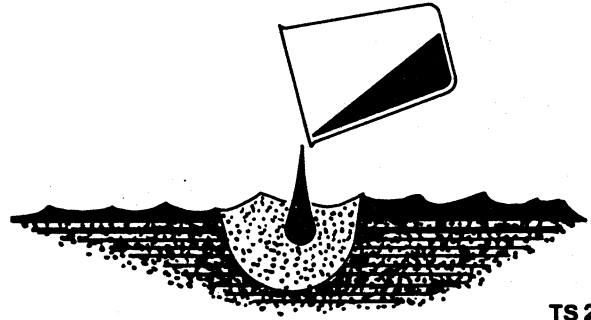
TS229-ESPD AE-160288

OBSERVE ENVIRONMENTAL PROTECTION REGULATIONS

Be mindful of the environment and ecology.

Before draining any fluids, find out the correct way of disposing of them.

Observe the relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters and batteries.



TS 222

TS222-ESPDAE-140388

Attaching and Detaching

BALLASTING FORAGE HARVESTER

Before attaching row-crop, make sure self-propelled forage harvester is ballasted correctly.

Ballast 5830 forage harvester as follows:

ATTELOM-6RRCACCE-010486

REAR WHEEL BALLAST

Fill rear tires with a mixture of water and calcium chloride.

IMPORTANT: Use 0.6 kg (1.5 lb) calcium chloride per liter of water. Fill tires to a 90% level.

ATTELOM-6RRBCCE-010486

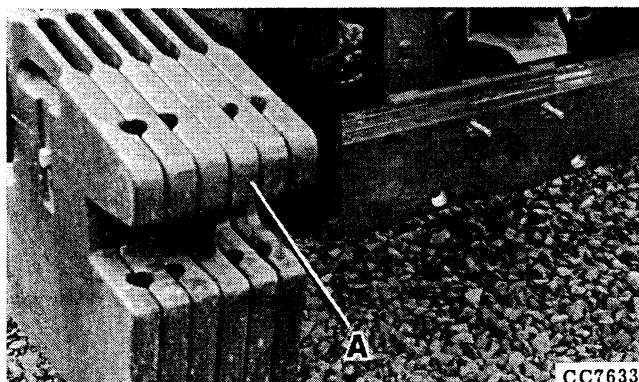
REAR FRAME WEIGHTS

Ballast weights (A) weighing 50 kg (110 lb) each are installed on a support on both sides. Number of weights depends on the tire size used.

16.5 - 16.1 tires: 8 weights

14 L - 16.1 tires: 12 weights

14.9 - 24 tires: 12 weights



CC7633

CC7633-6RRCACCE-010486

FRAME WEIGHTS – FEDERAL REPUBLIC OF GERMANY ONLY

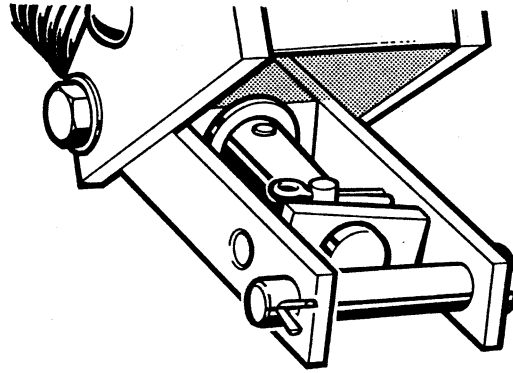
Legal regulations in the Federal Republic of Germany require installation of four additional weights weighing 25 kg (55 lb) each. These weights are attached to frame center.

ATTELOM-6RRCCCE-010486

ROW-CROP – BALANCING SPRINGS

For row-crop operation, remove standard balancing springs from forage harvester and install heavy-duty balancing springs.

For installation of heavy-duty balancing springs, refer to forage harvester operator's manual.



CC 7621

CC7621-6RRCACCE-010486

ATTACHING ROW-CROP

Row-crop must be attached and detached on level ground.

Make sure forage harvester tire pressures are correct so that attaching points are properly aligned.

Refer to the following attaching instructions.

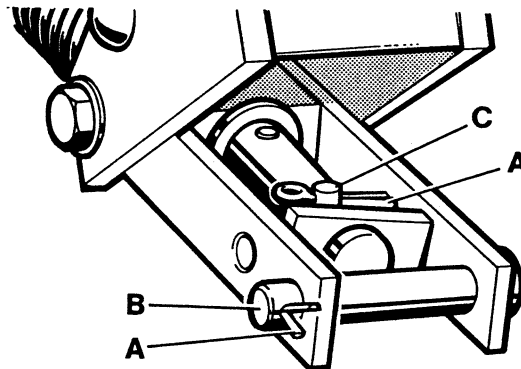
ATTELOM-6RRDCCE-010486

Compressing Balancing Springs

Before removing harvesting unit, compress balancing springs as follows:

With harvesting unit lowered to ground, remove cotter pins (A) as well as pins (B) and (C) on both sides.

To compress springs completely, raise harvesting unit.



CC 7620

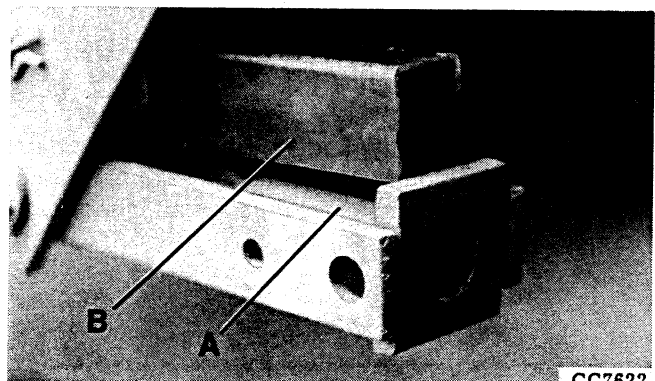
CC7620-6RRCACCE-010486

Installing Support Stands

On both sides, install support stands (B) on movable shaft (A).

Lower harvesting unit to the ground.

NOTE: Support stands must remain in place.



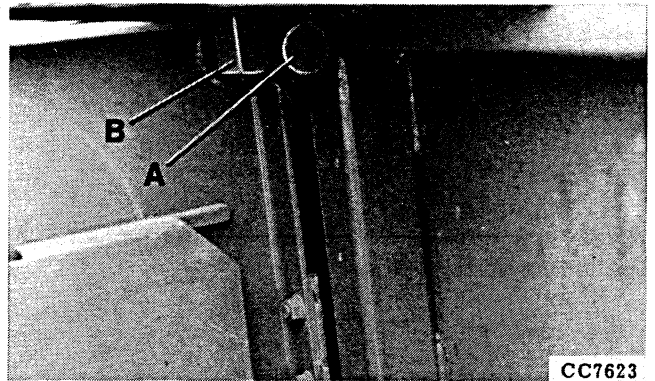
CC7622

CC7622-6RRCACCE-010486

Attaching Row-Crop (Upper Attaching Points)

Drive forage harvester toward row-crop until upper attaching points (A) are below lugs (B) of row-crop. Move forward until row-crop is seated.

Raise row-crop.



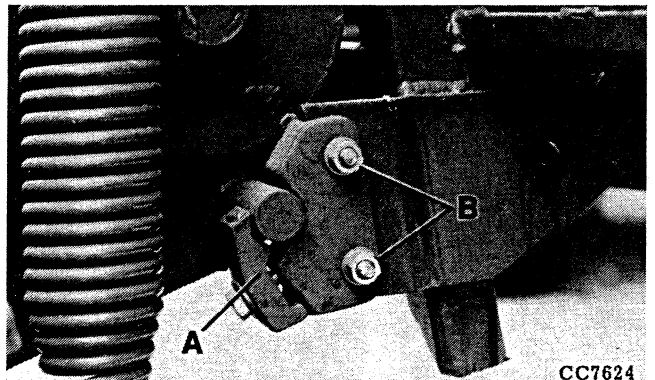
CC7623

CC7623-6RRCACCE-010486

Attaching Row-Crop (Lower Attaching Points)

Attach row-crop by means of attaching brackets (A) on both sides. If necessary, loosen or tighten screws (B) to align attaching points.

Raise and lock outer support stands.

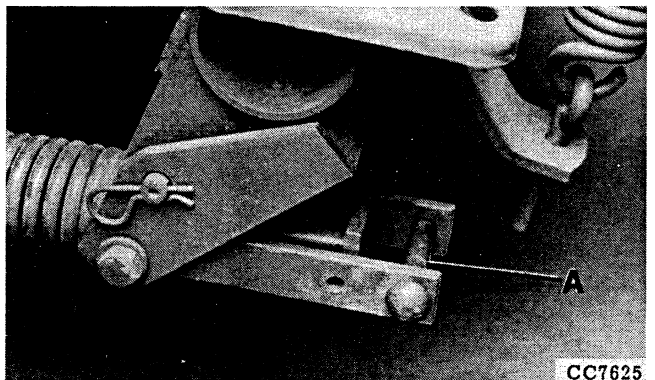


CC7624

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Removing Support Stands

Remove support stands on both sides. Lower row-crop to the ground. Reinstall pin (A) and cotter pin on both sides.



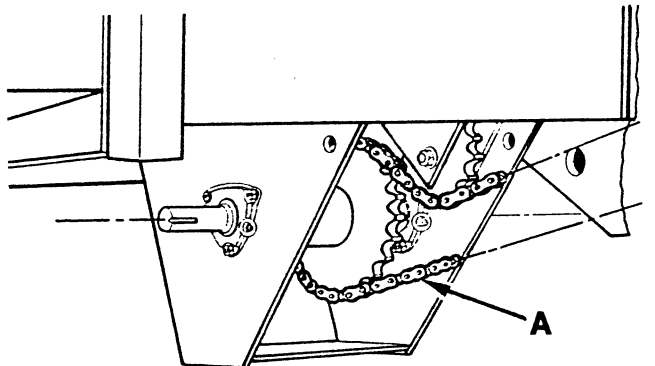
CC7625

CC7625-6RRCACCE-010486

DRIVE CONNECTION

After attaching row-crop, shut off engine.

Install 14-tooth-sprocket and drive chain (A) on 5830 forage harvester.



CC7626

CC7626-6RRCACCE-010486

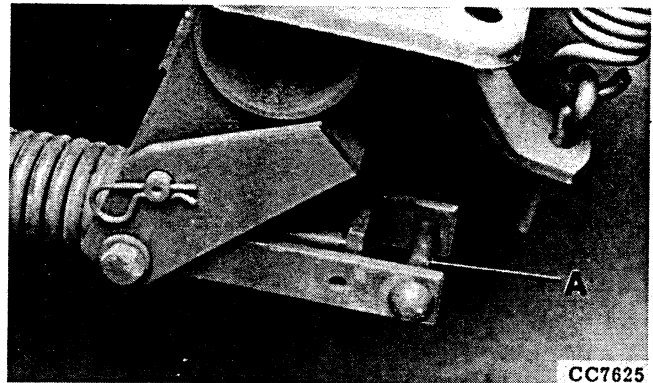
DETACHING ROW-CROP

Compressing Balancing Springs

Park forage harvester on a level surface.

Lower row-crop to the ground. Remove pin (A) and cotter pin on both sides.

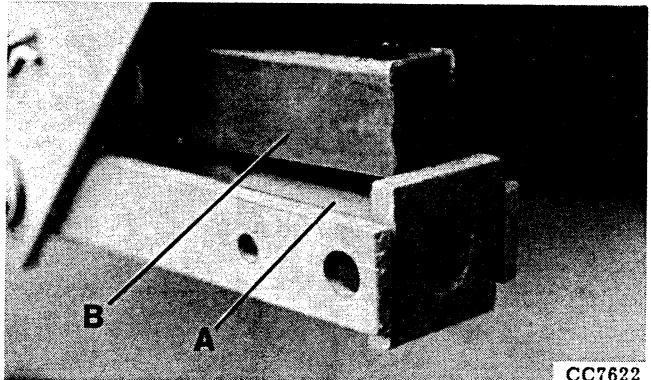
Raise row-crop.



CC7625-6RRCBCCE-010486

Installing Support Stands

On both sides, install support stands (B) on movable shaft (A).

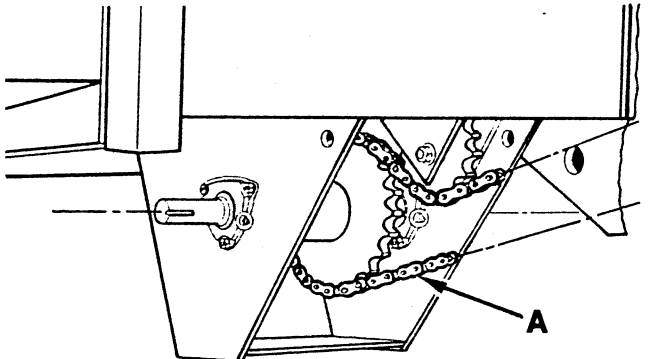


CC7622-6RRCBCCE-010486

Removing Drive Chain

Loosen and remove drive chain (A).

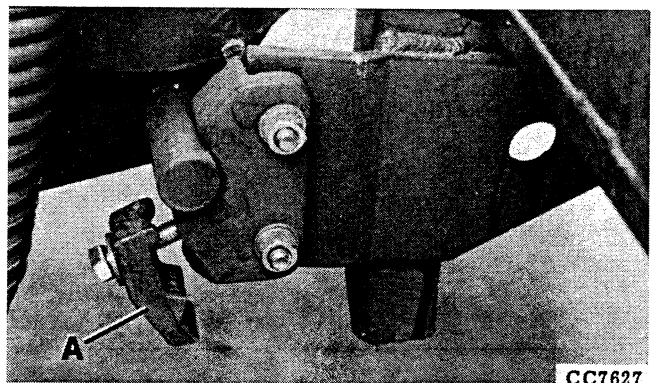
Lower and lock both outer support stands.



CC7626-6RRCBCCE-010486

Loosening Lower Attaching Brackets

Loosen lower row-crop attaching brackets (A) on both sides.



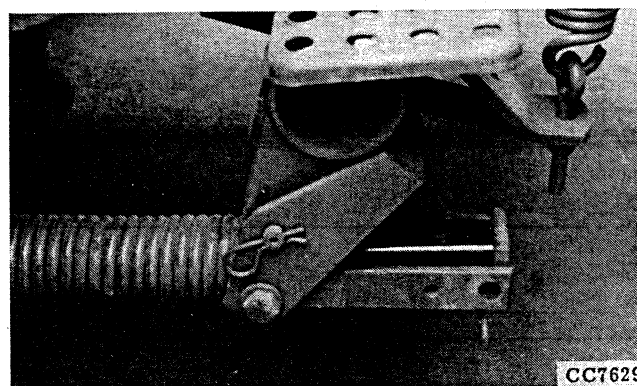
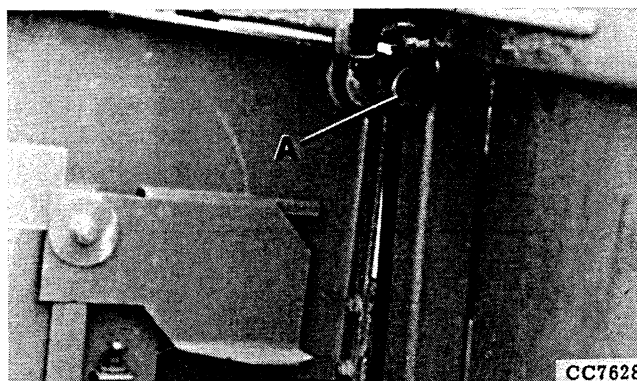
CC7627-6RRCACCE-010486

Detaching Row-Crop

Lower row-crop to the ground.

The upper attaching points (A) must be lowered so that forage harvester can be backed away from the row-crop.

NOTE: Support stands must remain on their shafts to permit reattachment.



CC7628, CC7629-6RRACCE-010486

Transport

GENERAL INFORMATION



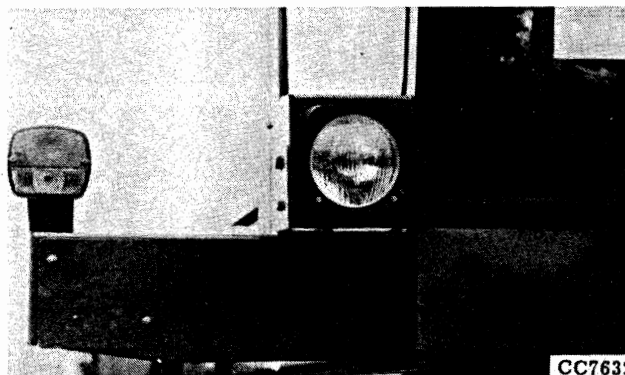
CAUTION: Shut off engine and wait until all moving parts have stopped before adjusting or servicing the row-crop.

ATTENT-6RRCAZE-150488

SPECIAL REGULATIONS – FEDERAL REPUBLIC OF GERMANY

Lighting

Front lights must be relocated, referring to the instructions of the conversion kit delivered with the machine.

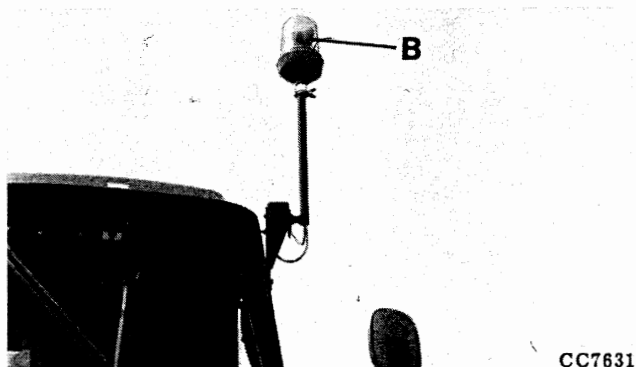


Tires – Warning Devices

Use the following front tires when 6-row row-crop is attached to 5830 forage harvester:

23.1 x 26 12 PR or
28.1 x 26 10 PR

IMPORTANT: If forage harvester is equipped with 28.1 x 26 front tires, warning signs (A) must be installed at the front and rear of the machine. A revolving hazard warning light (B) must also be installed on cab.



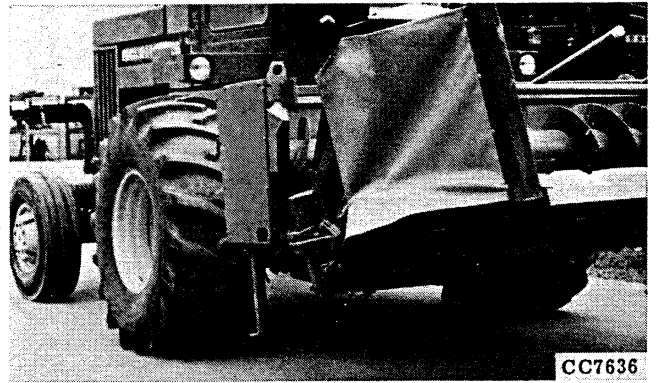
CC7632,CC7630,CC7631-6RRCAZE-150488

FOLDING AND UNFOLDING ROW-CROP

Depending on local traffic regulations, row-crop must be folded for transport and front guards installed.



CAUTION: When driving on public roads or highways at night or during the day, observe local traffic regulations regarding warning devices, lighting and safety. Refer to "Safety" Section.



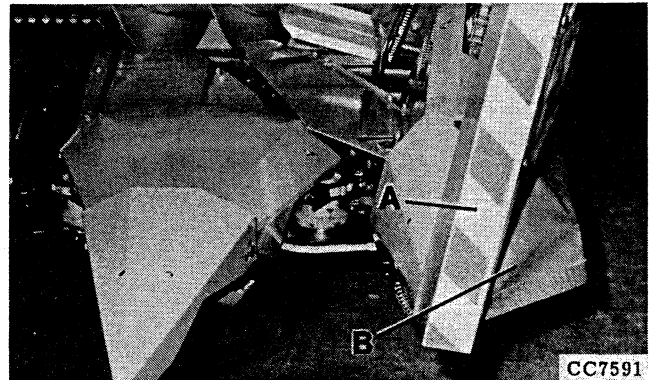
CC7636

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UNFOLDING OUTER UNITS

Removing Safety Devices

On both sides, remove protective bar (A) and curtains (B).

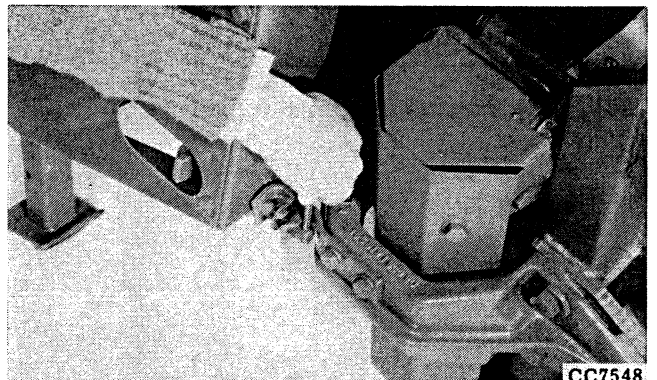


CC7591

CC7591-6RRACCE-010486

Loosening Latches

Loosen latches by hand on both sides.



CC7548

CC7548-6RRACCE-010486

Shifting Outer Units

Push latch (A) to the rear by foot, pivot outer units all the way down and pull lever (B) to the rear. Coupler will engage automatically.

Repeat this procedure on the other side.

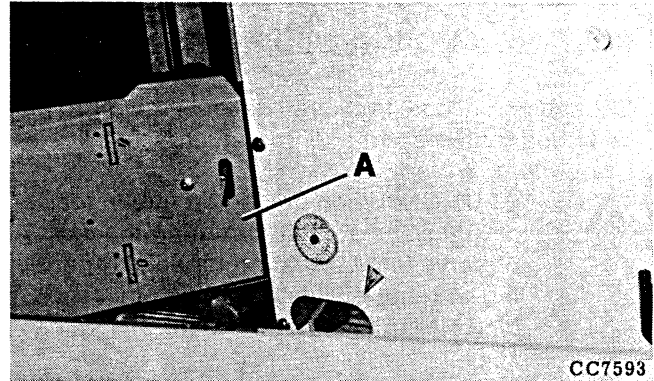


CC7592

CC7592-6RRCAZE-150488

Locking Protective Cover

On both sides, swing protective cover (A) to the rear and lock in this position.

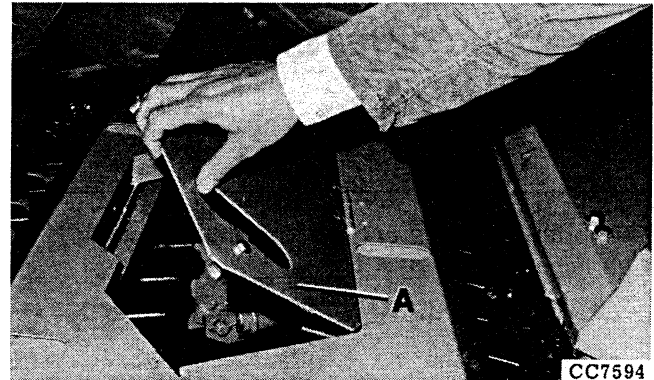


CC7593

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Securing Cover

On both sides, swing down cover (A) and secure in this position.

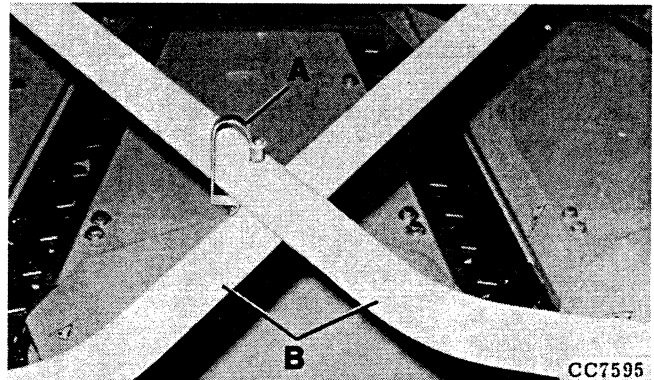


CC7594

CC7594-6RRCACCE-010486

Swinging Out Brackets

Pull out locking pin (A) and swing out brackets (B) all the way.

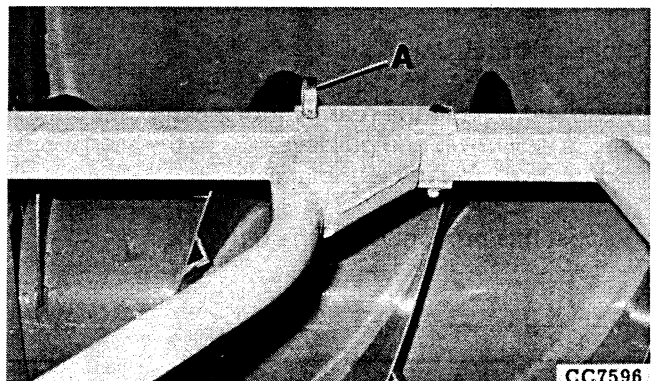


CC7595

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Securing Brackets

Secure brackets by means of locking pin (A).

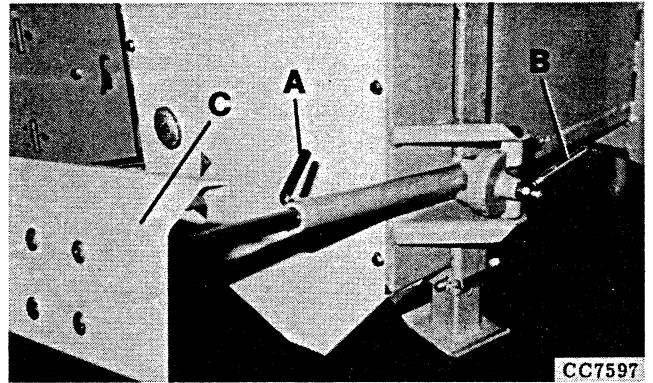


CC7596

CC7596-6RRCACCE-010486

Adjusting Outer Deflectors

Depending on crop, adjust outer deflectors (C) after loosening tommy screws (A) and (B).

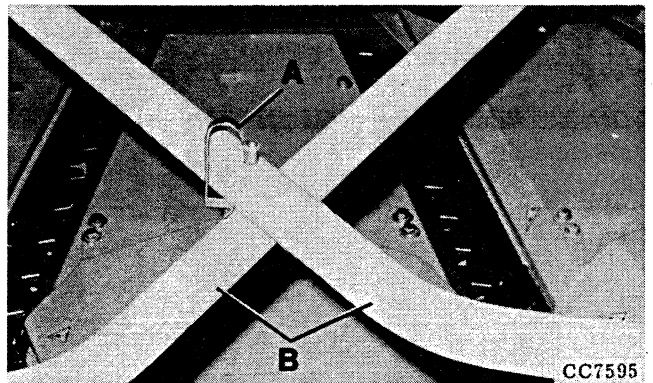


CC7597-6RRCACCE-010486

FOLDING OUTER UNITS

Swinging In Brackets

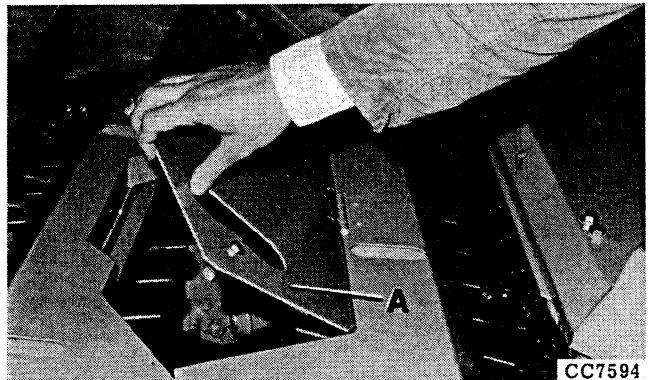
Swing in brackets (B) and secure with locking pin (A).



CC7595-6RRCBCCE-010486

Tilting and Securing Cover

On both sides, tilt cover (A) and secure.

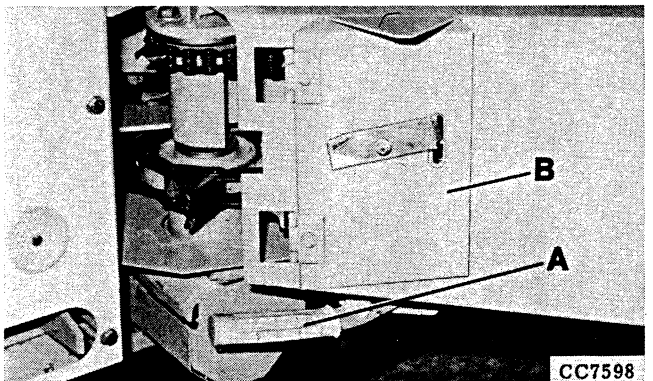


CC7594-6RRCBZE-150488

Shifting Units and Securing Protective Cover

On both sides, pull lever (A) outward and pivot outer units all the way up. Make sure that units are held securely by locking latches.

Swing protective cover (B) to the front and secure in this position.

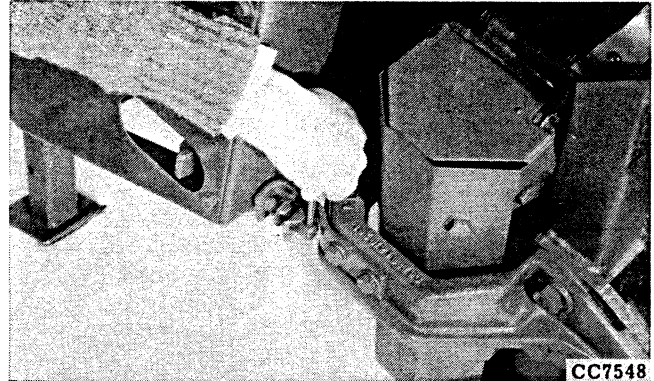


CC7598-6RRCACCE-010486

Securing Latches

Secure latches on both sides.

Remove outer deflectors on both sides.



CC7548-6RRCBCCE-010486

Attaching Protective Bars and Curtains

On both sides, attach protective bars (A) and curtains (B).



CC7591-6RRCBCCE-010486

Operation

BREAK-IN INSTRUCTIONS

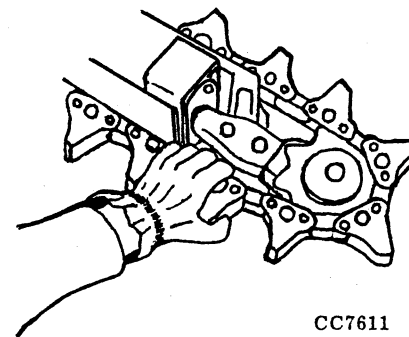
There are no special break-in instructions. It is advisable, however, to observe the following during the first hours of operation.

Check gear case oil level as described in Section "Lubrication and Periodic Service".

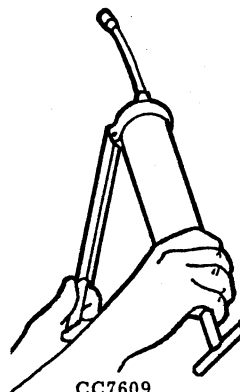
Check gatherer chain tension.

Check hardware for proper torque.

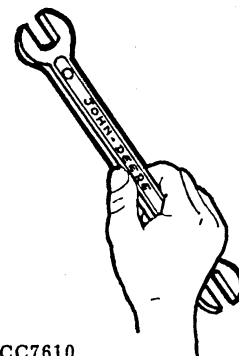
Lubricate row-crop according to lubricating instructions.



CC7611



CC7609



CC7610

CC7611,CC7610,CC7609-6RRCACCE-010486

HARVESTING PREPARATIONS

Install row-crop on forage harvester as described in Section "Attaching and Detaching".

Shut off engine.

Unfold outer units (refer to "Unfolding Outer Units" in Section "Transport").



CAUTION: Shut off engine and wait until all moving parts have stopped before adjusting or servicing the row-crop.

UTILISOM-6RRCACCE-010486

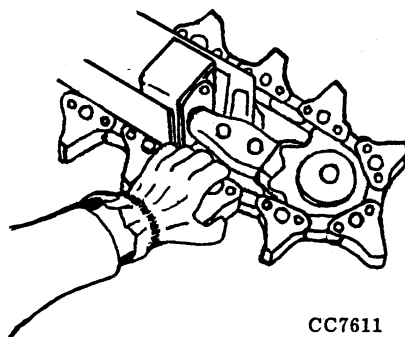
PRE-OPERATIONAL CHECKS

Before operating row-crop, perform the following checks if this was not done at the end of the previous harvesting season:

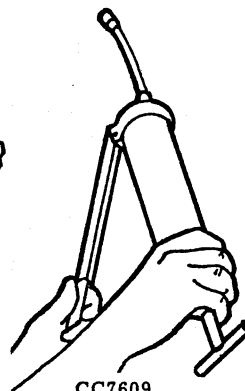
Check condition and tension of gatherer chains.

Check knife condition.

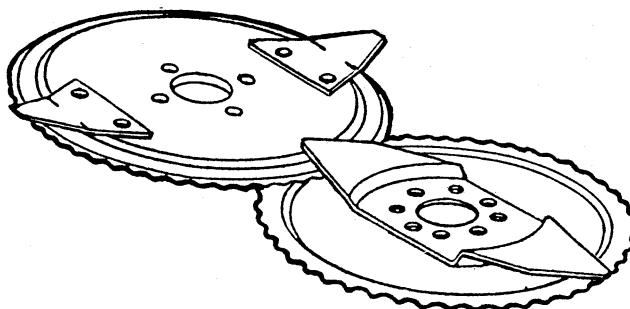
Lubricate row-crop according to lubricating instructions.



CC7611



CC7609



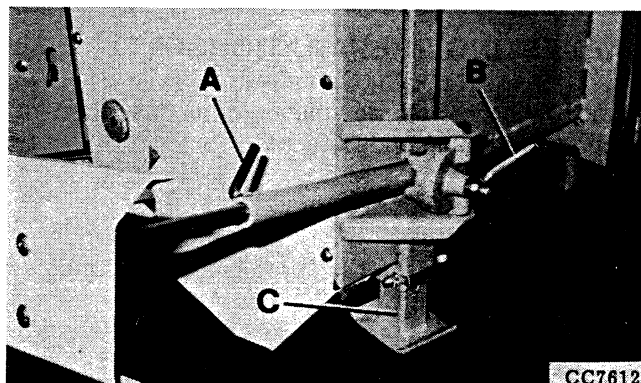
CC7599

CC7611, CC7609, CC7599-6RRACCE-010486

ADJUSTING OUTER DEFLECTORS

Adjust outer deflectors by means of tommy screws (A) and (B) according to harvesting conditions.

Make sure that support stands (C) are raised and secured on both sides.

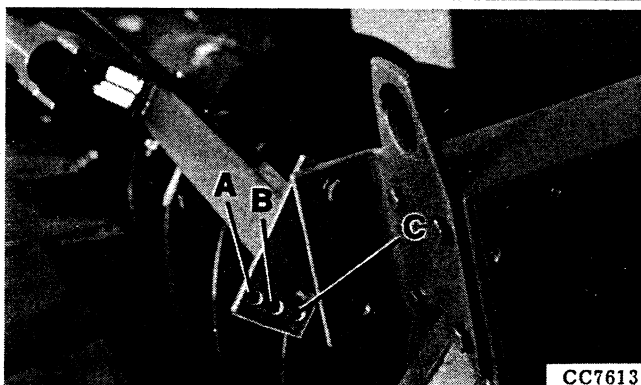


CC7612

CC7612-6RRACCE-010486

ADJUSTING BRACKETS

Adjust bracket height, using holes (A), (B) or (C) provided on both sides.



CC7613

CC7613-6RRACCE-010486

OPERATING ROW-CROP

Start forage harvester engine.

Lower row-crop to desired height.

NOTE: Refer to "Troubleshooting" Section to remedy minor problems. If major problems occur, see your JOHN DEERE dealer.



CC7614

CC7614-6RRCBCCE-010486

CLEANING AND CHECKS AFTER WORK

After each working day:

Lubricate row-crop according to lubricating instructions.

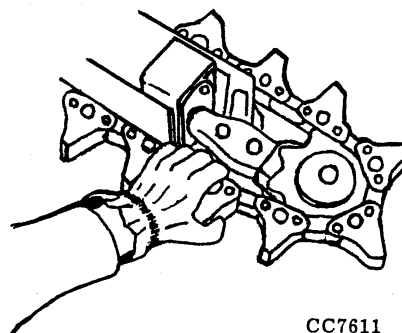
Check chain tension.

Check knife condition.

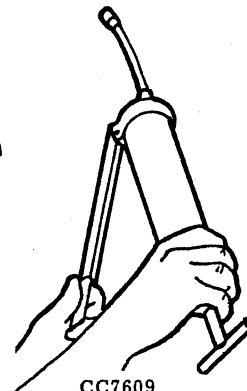
Remove crop accumulations and foreign material from row-crop.

Visually check row-crop for proper working condition.

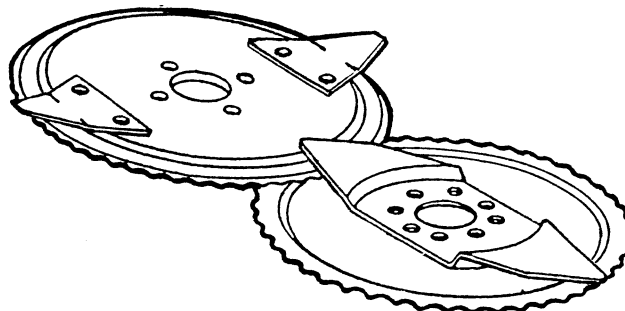
NOTE: These checks will ensure long service life and good performance of your row-crop, avoiding unnecessary down time.



CC7611



CC7609



CC7599

CC7611,CC7609,CC7599-6RRCBCCE-010486

CHANGING HARVESTING UNIT

To detach row-crop, proceed as follows:

Lower row-crop with forage harvester standing on level ground. Shut off engine and detach row-crop as described in Section "Attaching and Detaching".

UTILISOM-6RRBCCE-010486

STORAGE

For storage of row-crop at the end of the season, refer to special instructions given in "Storage" Section.

UTILISOM-6RRCCCE-010486

Troubleshooting

Gatherer Chains Incorrectly Timed

Gatherer chains worn or torn –
Replace gatherer chains 35-4

Automatic chain tensioner not operating correctly –
Check chain tensioner 35-6

Malfunction of mechanical chain drive –
See your JOHN DEERE dealer

Sprockets worn –
Replace sprockets 35-4

Rapid Gatherer Chain Wear

Insufficient chain lubrication –
Refer to operator's manual

Gatherer chains and sprockets dirty –
Clean chains and sprockets

Gatherer chains new, sprockets worn –
Replace worn sprockets 35-4

Excessive chain tension –
Adjust chain tensioner 35-6

Gatherer chains incorrectly timed –
Adjust chain tension, time chains 35-6

Poor Cut

Improper knife clearance –
Check and adjust 35-8

Plugging

Worn knives –
Replace knives 35-2

Ground speed too high –
Reduce ground speed

Incorrect drive sprocket –
Install recommended sprocket 10-4

Knives not centered on rows –
Drive forage harvester so that knives are properly positioned

Poor stripper action or strippers missing –
Check strippers

Gatherer chains loose –
Check chain tensioner
Check chains for wear

Insufficient Crop Feeding

Gatherer chains not aggressive enough –
Time chains 35-6

Incorrect row-crop speed –
Check drive sprocket 10-4
Increase or reduce speed

Lubrication and Periodic Service

LUBRICATION INTERVALS

IMPORTANT: The recommended service intervals are based on normal field conditions. Adverse conditions may require shorter intervals.

Clean grease fittings before using grease gun. Replace any lost or broken fittings. If a new fitting fails to take grease, remove it and check whether the grease passage is blocked.



CAUTION: Do not attempt to clean, lubricate or adjust the row-crop while it is running.

Perform lubrication and service work mentioned in this section before and after every harvesting season.

GRAISSOM-12FTMB-ACCE-190384

LUBRICATION SYMBOLS

A – Lubricate with JOHN DEERE Multipurpose Grease or an equivalent SAE multipurpose grease at the hourly intervals indicated on the symbols.

B – Lubricate with SAE 30 engine oil at the hourly intervals indicated on the symbols.

C – Regularly lubricate with JOHN DEERE Multipurpose Grease or an equivalent multipurpose grease.

A



B



C



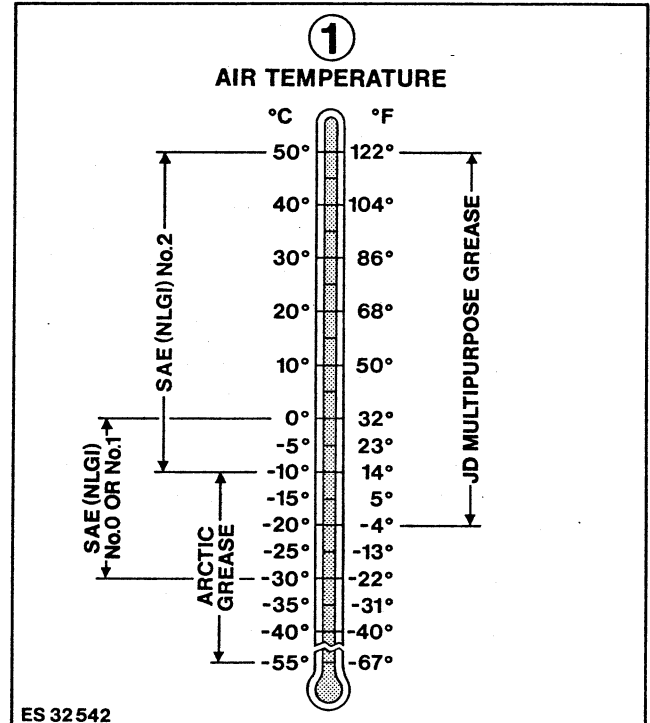
CC7573

CC7573-6RRCACCE-010486

MULTIPURPOSE GREASE

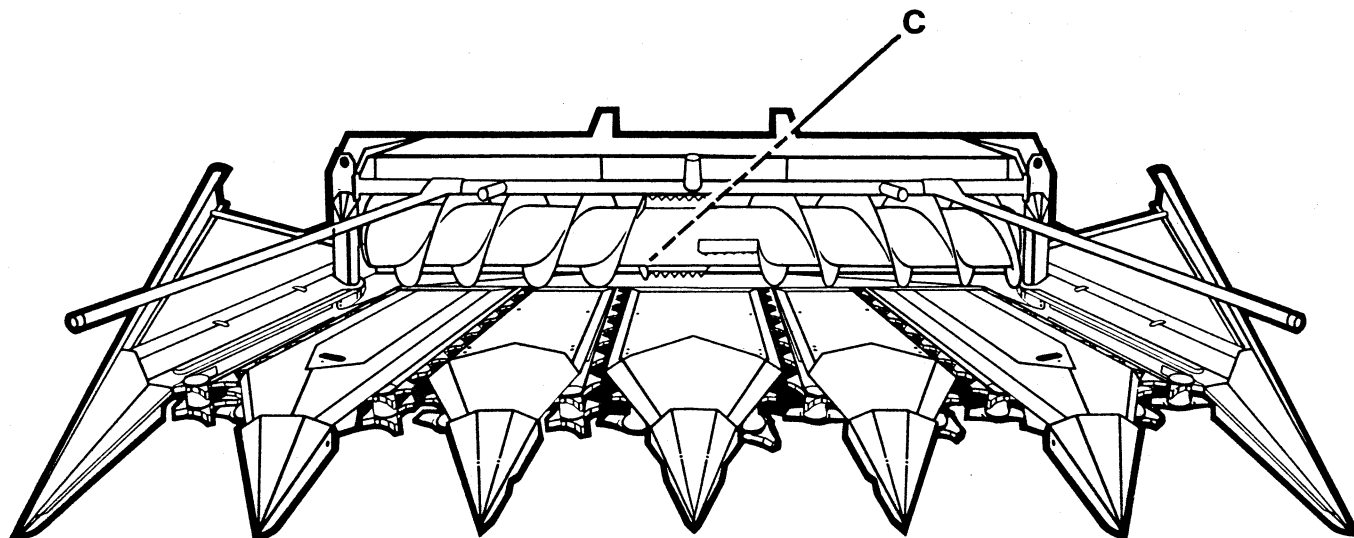
It is recommended to use JOHN DEERE Multipurpose Grease or an equivalent SAE multipurpose grease with 3 to 5% molybdenum disulfide.

For temperatures below -30°C (-22°F) grease for arctic conditions should be used (MIL-G-10924C).



ES32542-6RRACCE-010486

DRAINING AND REFILLING GEAR CASE



CC7570

Drain gear case (C) after the first 40 hours of operation afterwards every harvesting season or every 500 hours of operation.

CC7570-6RRCACCE-010486

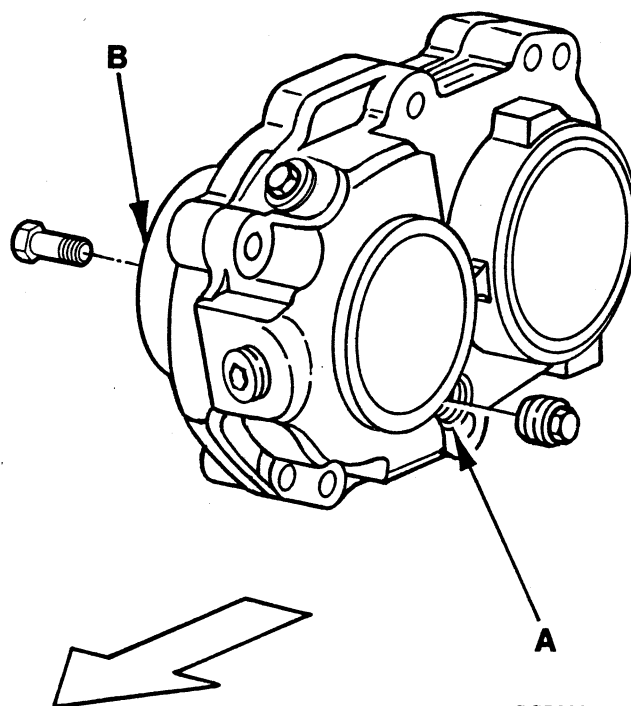
Refer to the instructions about draining, refilling and checking oil level.

Park forage harvester on level ground and raise row-crop to the highest position. Place a block of wood under row-crop frame to support it in case of a hydraulic failure.

Drain gear case through opening (A).

Refill gear case through opening (B) with 0,2 l (12.2 cu.in.) transmission oil API GL-4 SAE 90 (MIL-L-2105) or API GL-5 SAE 90 (MIL-L-2105B). Oil level should be at the edge of filling opening.

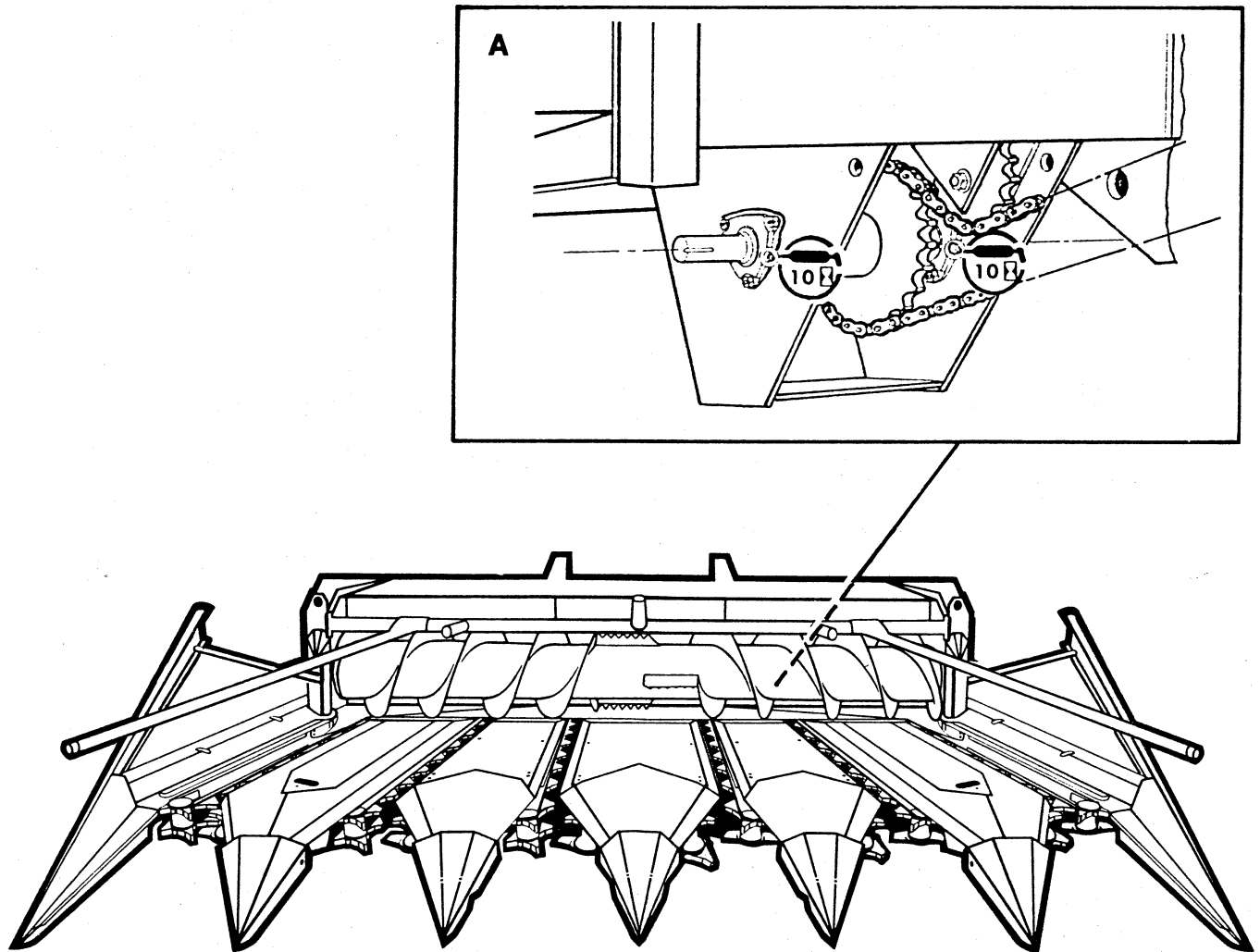
Check oil level regularly.



CC7569

CC7569-6RRCACCE-010486

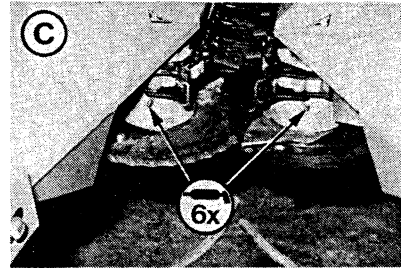
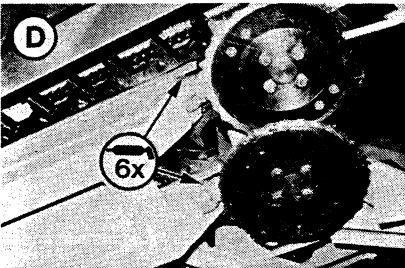
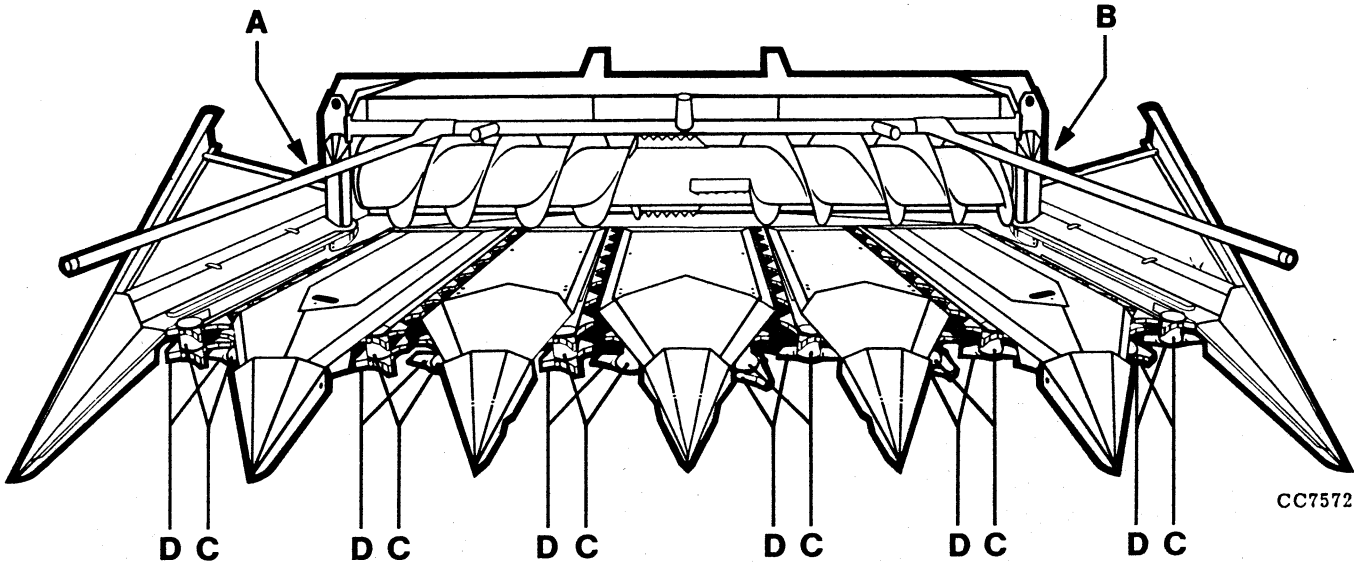
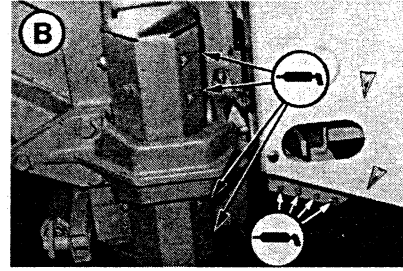
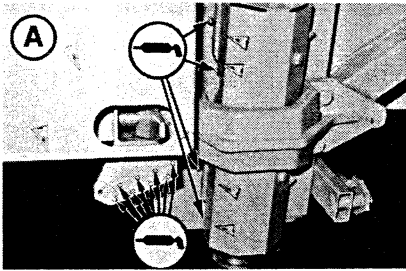
EVERY 10 HOURS OF OPERATION



CC7571

A-Drive shaft bearing

EVERY 10 HOURS OF OPERATION



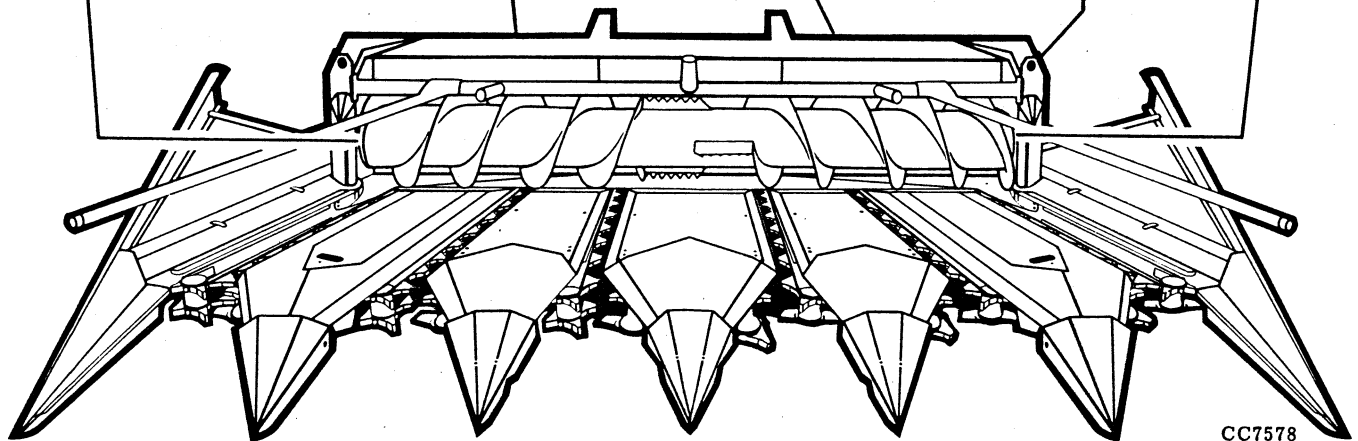
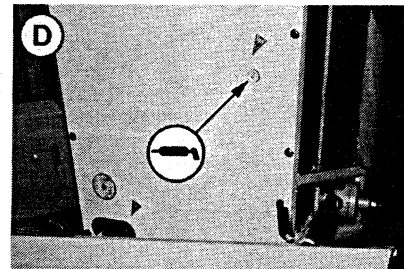
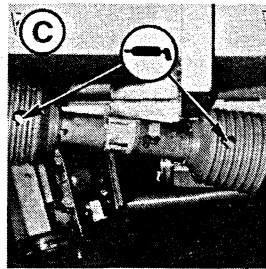
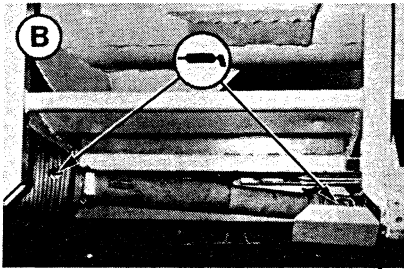
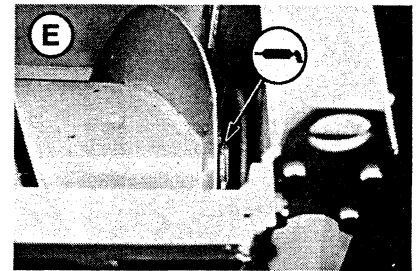
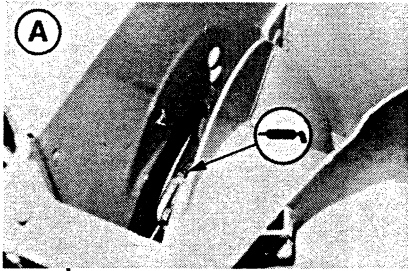
**A—Chain drive bearing,
r.h. side**

**B—Chain drive bearing,
l.h. side**

**C—Knife bearing (6 strokes of
grease gun per grease fitting)**

**D—Knife retainer bearing
(6 strokes of grease gun per
grease fitting)**

EVERY 50 HOURS OF OPERATION

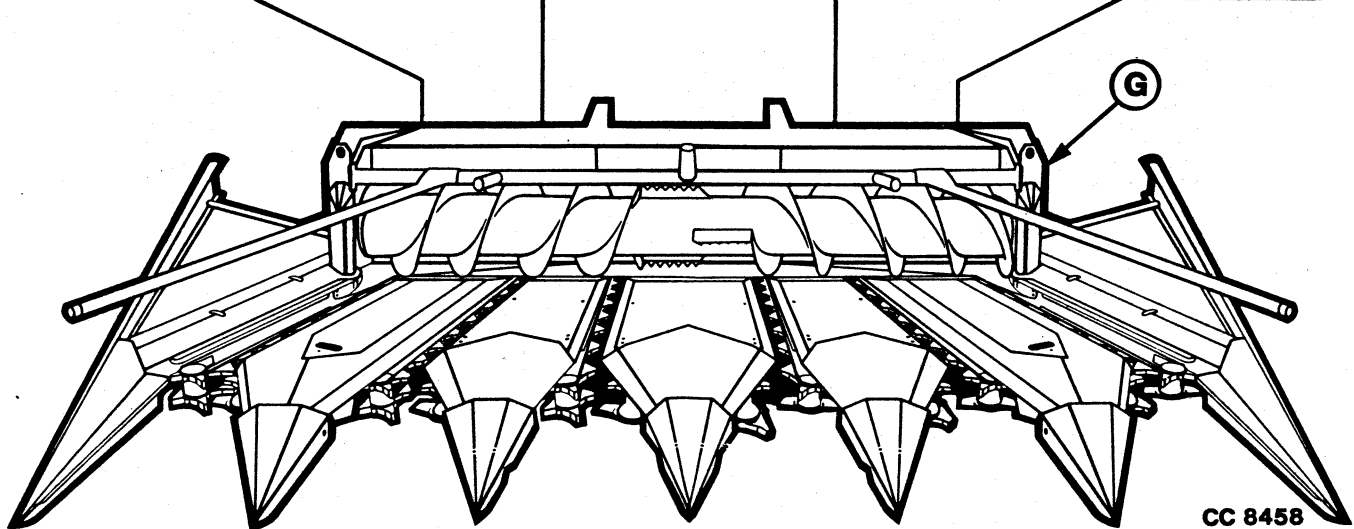
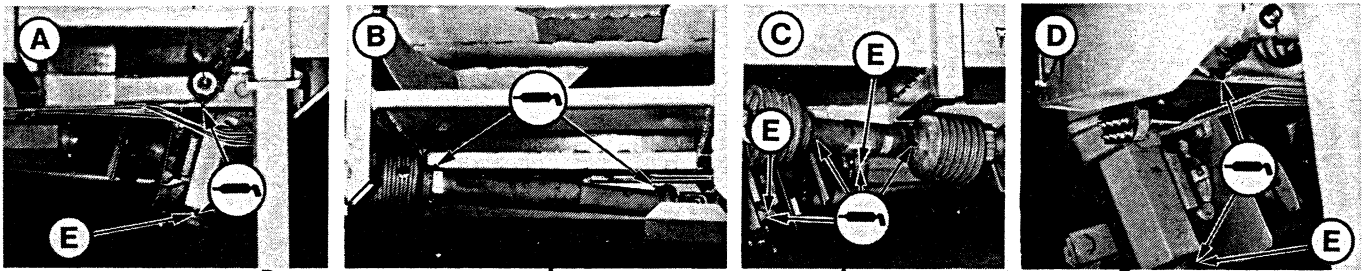


A—Feeding auger bearing,
r.h. side
B—Universal joint

C—Universal joint

D—Feeding auger drive sprocket
E—Feeding auger bearing,
l.h. side

EVERY 100 HOURS OF OPERATION



CC 8458

A—Outer unit joint, r.h. side
B—Jointed shaft bearing
C—Jointed shaft bearing

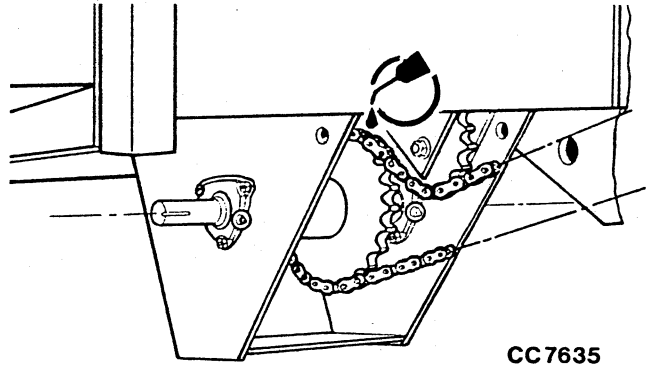
D—Outer unit joint, l.h. side
E—Outer unit drive jaw clutch

G—Cross auger drive chain

CHAINS

Apply SAE 90 transmission oil to gatherer chains daily.

Daily lubricate drive chain.



CC7635-6RRCAZE-150488

Service

TORQUES FOR HARDWARE

Check tightness of bolts periodically, using chart as a guide.

Replace hardware with the same or higher strength bolts.

8.8 STANDARD BOLTS AND NUTS

	Nm	ft-lb
M5	7	5
M6	10	8.5
M8	30	20
M10	50	35
M12	100	75
M14	160	120
M16	240	175

10.9 TEMPERED STEEL HIGH STRENGTH BOLTS AND NUTS

	Nm	ft-lb
	9	6.5
	15	10
	40	30
	80	60
	140	100
	210	155
	350	260

NOTE: A variation of $\pm 10\%$ is permissible for all torques indicated.

IMPORTANT: Torque figures indicated above are valid for non-greased or non-oiled threads. Therefore do not grease or oil bolts or nuts unless otherwise specified

COUPLOM-6RRCAZE-150488



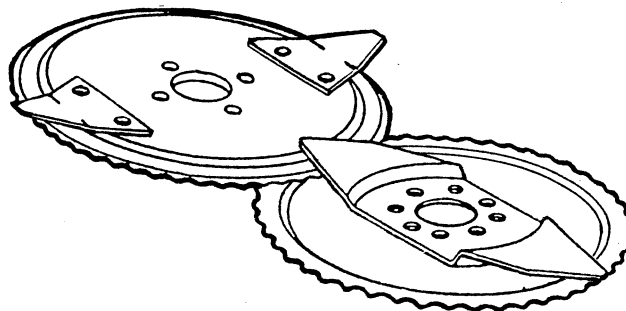
CAUTION: When carrying out adjustments or other works, shut off engine and wait until all moving parts have stopped.

ENTRETOM-6RRCACCE-010486

REPLACING ROTATING KNIVES

If rotating knives are excessively worn, replace them in pairs.

When knives are in good condition, service life and performance of row-crop are increased.



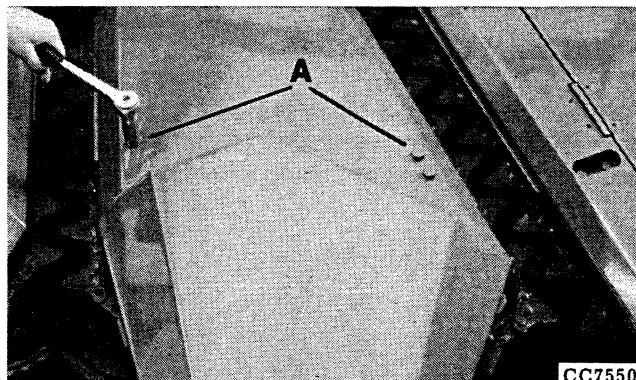
CC7599

CC7599-6RRCACCE-010486

Removing Gatherer Points

To gain better access to the rotating knives, it is recommended to remove upper gatherer points.

To do this remove cap screws (A).



CC7550

CC7550-6RRCACCE-010486

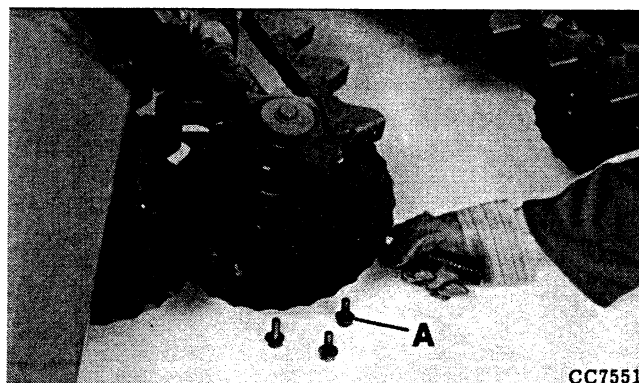
Removing Lower Rotating Knife



CAUTION: Wear gloves when removing rotating knife to avoid injuries.

Loosen and remove knife attaching screws (A).

Remove knife, tang and spacer



CC7551

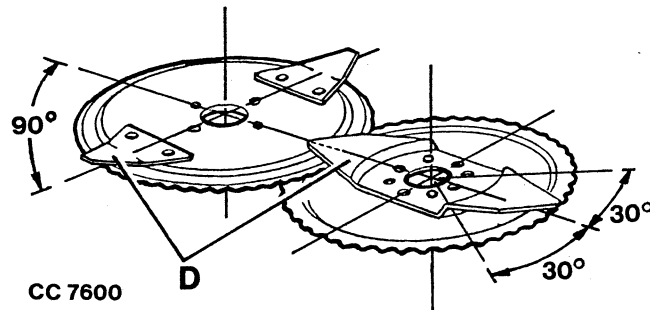
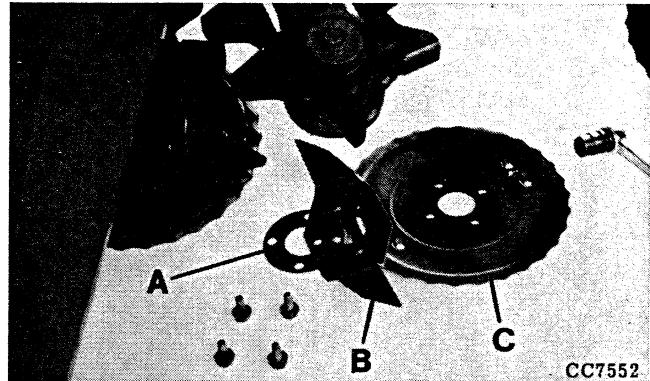
CC7551-6RRCAZE-150488

REINSTALLING LOWER ROTATING KNIFE

Thoroughly clean knife contact surface.

Reinstall spacer (A), tang (B) and rotating knife (C).

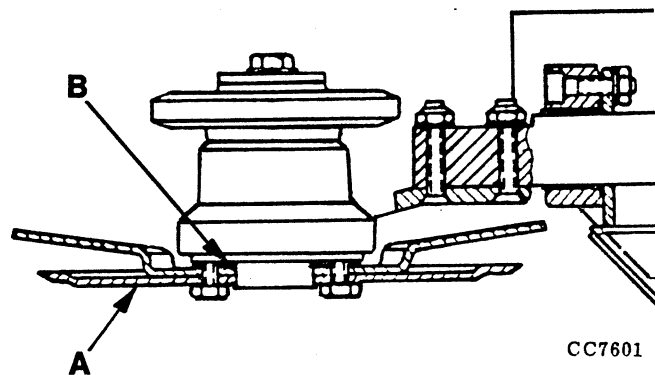
NOTE: Make sure tangs (D) are in a $90^\circ \pm 30^\circ$ offset position.



CC7552, CC7600-6RRCAZE-150488

FINAL CHECKS

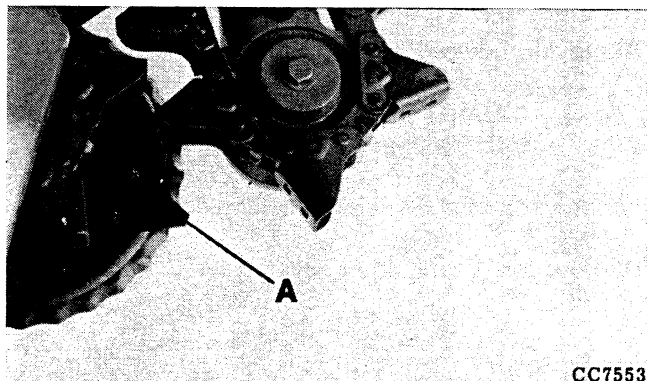
Check if rotating knife (A) is seated correctly on spacer (B). Tighten to specified torque. Reinstall gatherer points using attaching screws.



CC7601-6RRCACCE-010486

REPLACING UPPER ROTATING KNIFE

Remove upper knife in the same way as the lower one but install the two tangs (A) on new knife before installation.

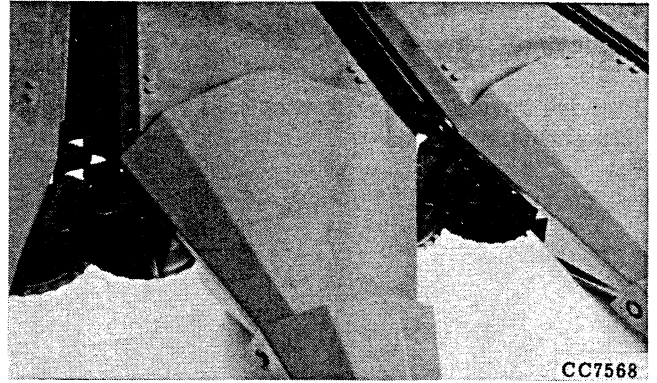


CC7553-6RRCAZE-150488

GATHERER CHAINS

The gatherer chains are equipped with an automatic tensioner.

If chains are worn, they generally are replaced in pairs and tensioned like before.



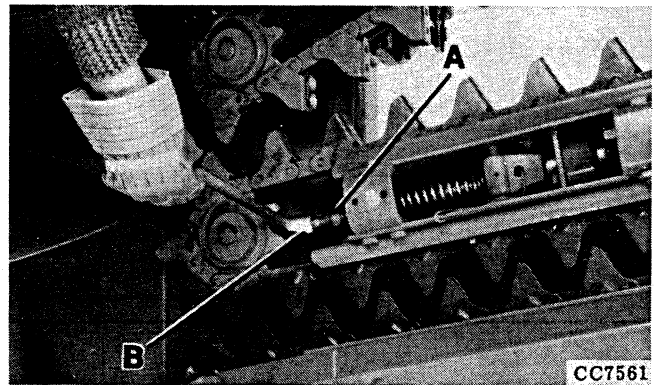
CC7568-6RRCACCE-010486

REPLACING GATHERER CHAIN

Loosen Chain Tensioner

Remove attaching screws and gatherer point.

Loosen lock nut (A) and turn out screw (B) completely.

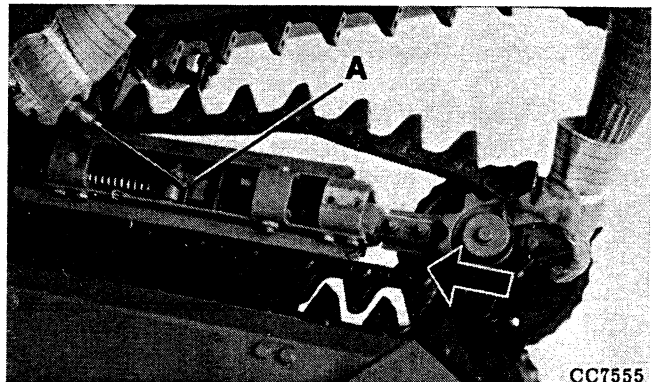


CC7561-6RRCACCE-010486

Releasing Chain Tension

Pull latch (A) upwards.

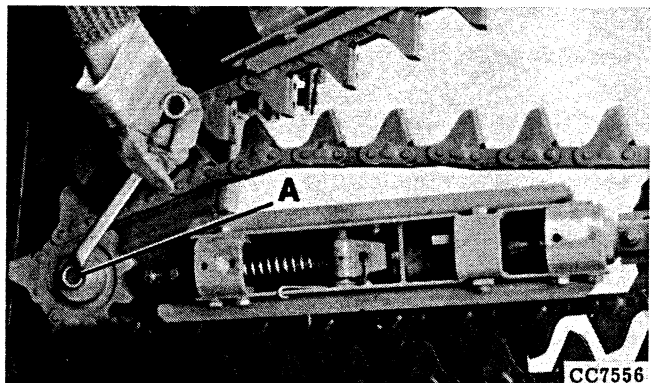
To release chain push front support of rotating disk in the direction of chain tensioner.



CC7555-6RRCACCE-010486

Loosen Drive Sprocket

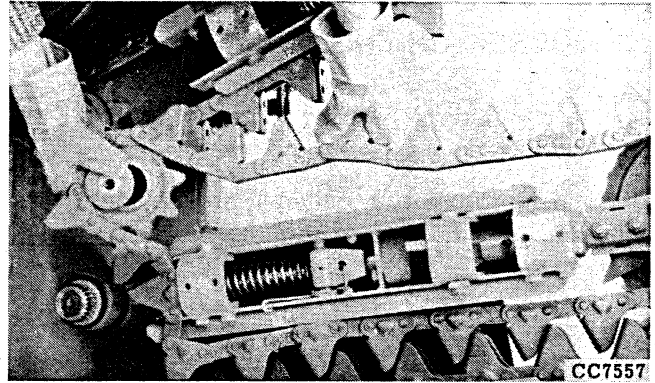
Loosen and remove drive sprocket clamping screw (A).



CC7556-6RRCACCE-010486

Removing Gatherer Chain

Remove drive sprocket from splined shaft and remove gatherer chain.



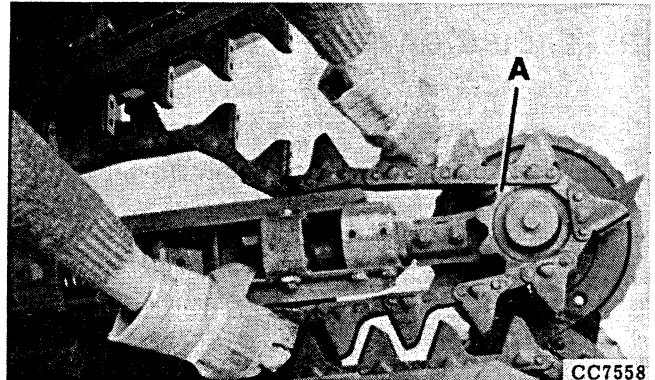
CC7557-6RRCACCE-010486

INSTALLING ONE GATHERER CHAIN

Place Chain on Front Sprocket

NOTE: Make sure tangs of rotating knives of the chain concerned are rotating synchronously. For further information see "Reinstalling Lower Rotating Knife".

Place chain on front sprocket (A).

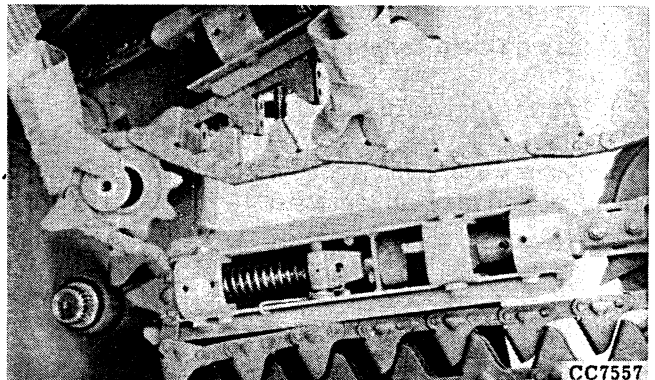


CC7558-6RRCACCE-010486

Place Chain on Rear Sprocket

Place drive sprocket at the inner side of chain strand.

Install sprocket on splined shaft making sure that the tangs of the chain engage in gaps of adjoining chain.

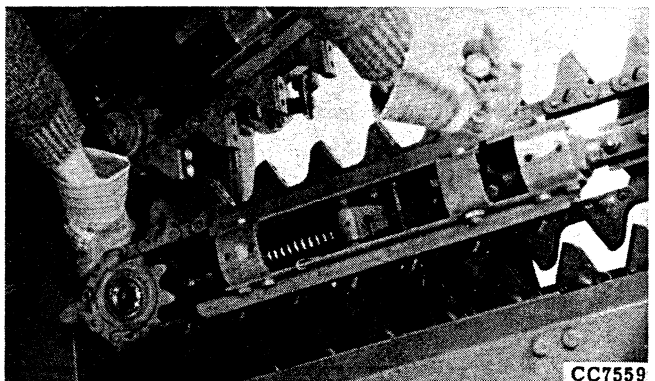


CC7557-6RRCBCCE-010486

Tensioning Chain

Install front sprocket on shaft.

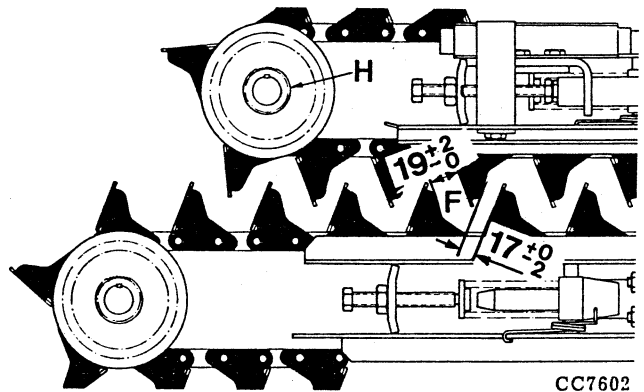
Tension chain by means of a lever.



CC7559-6RRCACCE-010486

Checking Gatherer Chain Timing

Keep chain tensioned and check timing.



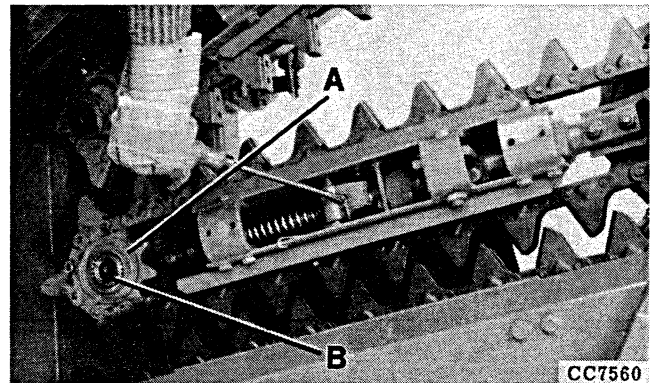
CC7602

CC7602-6RRCACCE-010486

Adjusting Gatherer Chain Timing

Release chain tension (see "Releasing Chain Tension"), Adjust sprocket (A) until chain timing is correct.

NOTE: For easier positioning make a mark at point (B) on the sprocket.



CC7560

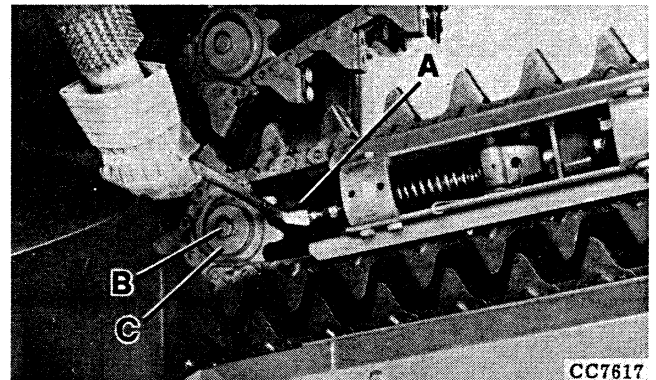
CC7560-6RRCAZE-150488

Tensioning Chain

Install washer (C) and cap screw (B).

NOTE: Apply Loctite 245 or an equivalent compound to the cap screw before installation. Tighten to specified torque.

Screw in screw (A) completely but do not tighten too much.



CC7617

CC7617-6RRCACCE-010486

Adjusting Automatic Chain Tensioner

Raise stop (D).

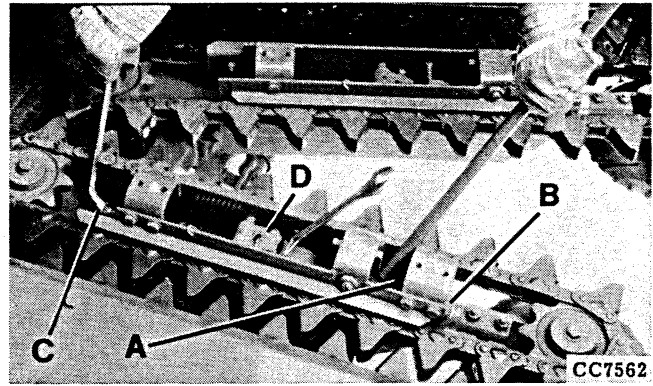
By means of a lever apply pressure to shaft (A) and push it in the direction of chain tensioner. Shaft (A) must be deflected 3 mm (0.12 in.). This distance should be measured at point (B). Loosen cap screw (C) to obtain this distance. After adjusting tighten cap screw (C) with lock nut.

A—Shaft

B—Measuring point

C—Cap screw

D—Stop

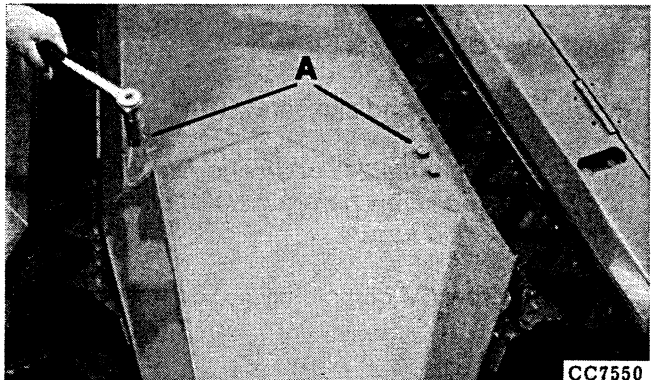


CC7562-6RRCAZE-150488

FINAL CHECKS

Check timing of gatherer chains and rotating knives.

Install gatherer point with cap screws (A).



CC7550-6RRCBCCE-010486

CHECKING AND ADJUSTING PRESSURE OF ROTATING KNIVES

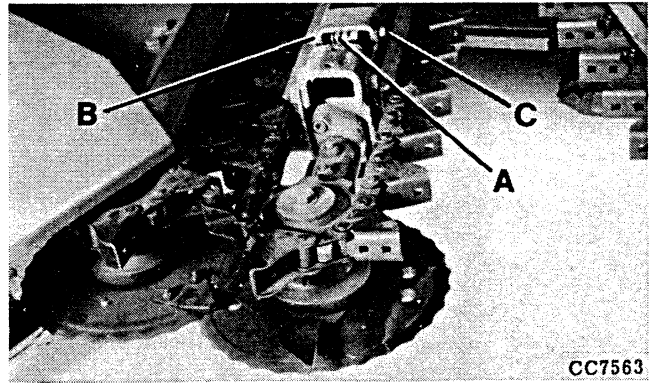
Between a pair of knives a counterpressure is formed.

This pressure is formed by spring (A) and adjusting screw (B) belonging to it. Stop screw (C) limits displacement of spring (A) while removing corresponding knife.

Pressure is factory adjusted. Under normal conditions it must not be changed.

However, it is recommended to check and adjust this pressure after knife replacement.

Check and adjust knife pressure as follows.



CC7563

CC7563-6RRACCE-010486

Locking Knife Retainers

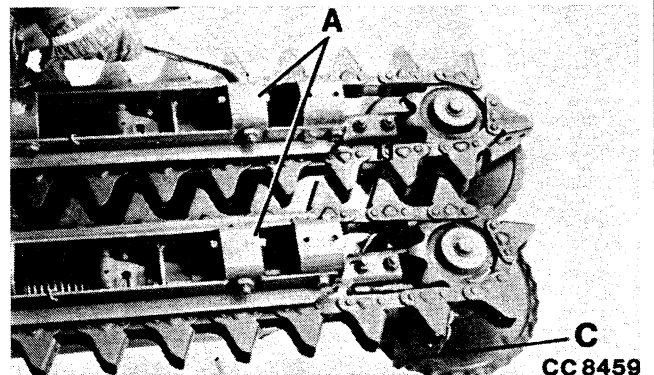
Remove gatherer points of the two knives concerned.

Remove two stop screws (A) with washers.

Screw in two 45 mm (1.77 in.) long (or longer) screws (B), as shown, to lock knife retainers.

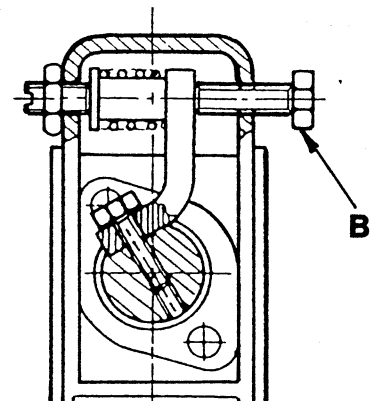
Mark position of tangs (C).

Remove knives.



CC 8459

CC7603



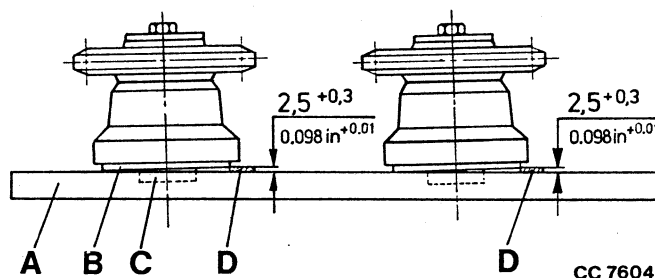
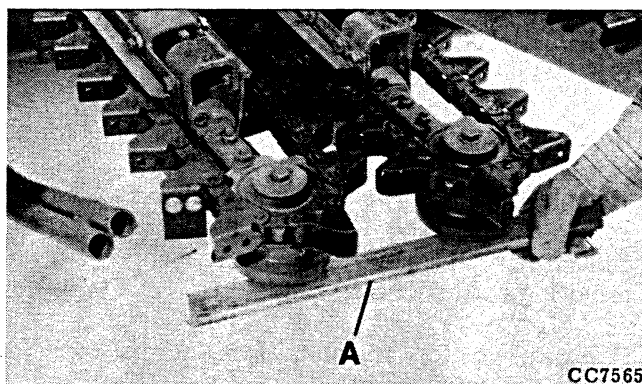
CC8459, CC7603-6RRCAZE-150488

Checking Reference Measures

Place a steel ruler (A) on surfaces (B) against lugs (C).

Check reference measures (D) at points shown.

A—Steel ruler
B—Surface
C—Lug
D—Reference measure



CC7565, CC7604-6RRCACCE-010486

Adjusting Reference Measures

If reference measures are not correct, adjust as follows:

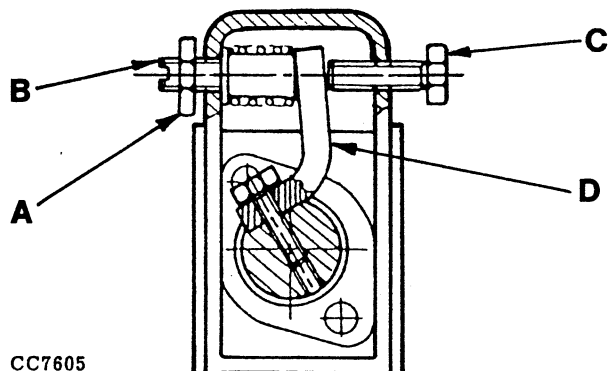
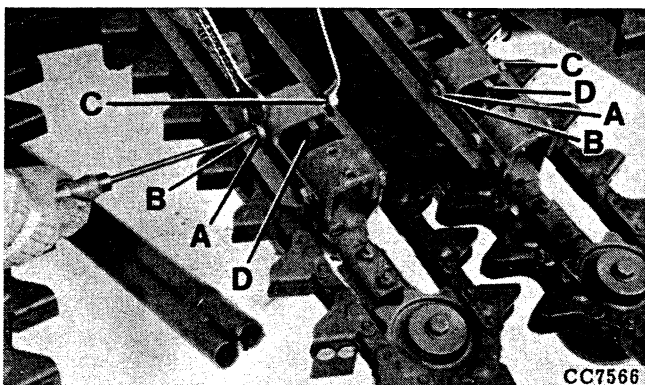
Loosen pressure screw lock nut (A). To obtain reference measures: turn screws (B) and (C) to obtain a slow approach of the knife retainer arms.

NOTE: When checking reference measures guide (D) between screws (B) and (C) must not move

Tighten lock nut (A).

Install new knives.

A—Lock nut
B—Screw
C—Screw
D—Guide

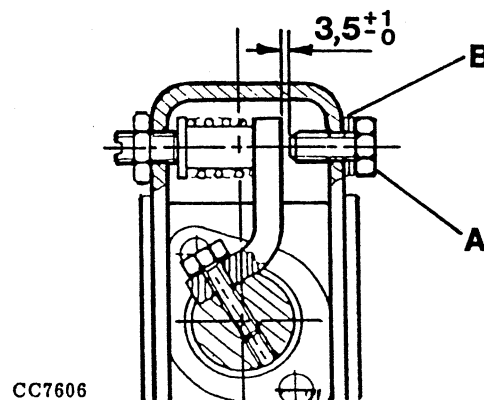


CC7566, CC7605-6RRCACCE-010486

Adjusting Stop Screw Clearance

Remove M10 x 45 screws previously installed for adjustment.

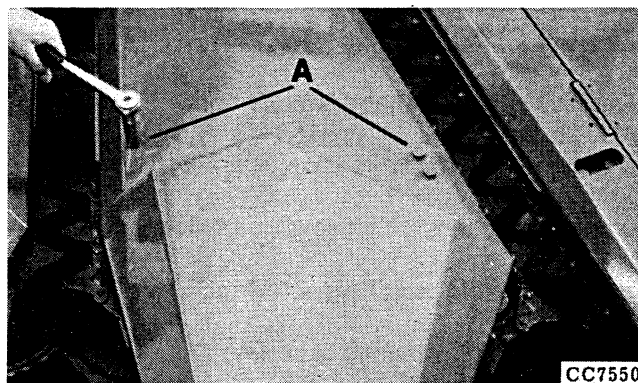
To obtain specified clearance place sufficient number of shims (B) under M10 x 20 screws (A).



CC7606-6RRCACCE-010486

Final Assembly

Install gatherer points by means of cap screws (A).



CC7550-6RRCCE-010486

LATERAL CHAIN TENSION

Lateral gatherer chain is tensioned by means of a spring tensioner.

For checking chain tension remove gatherer point by removing attaching screws (D).

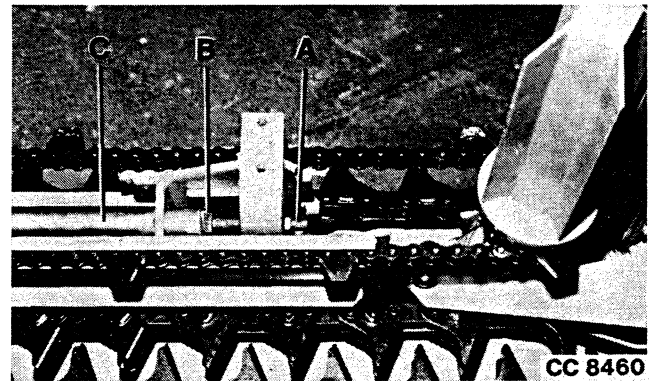
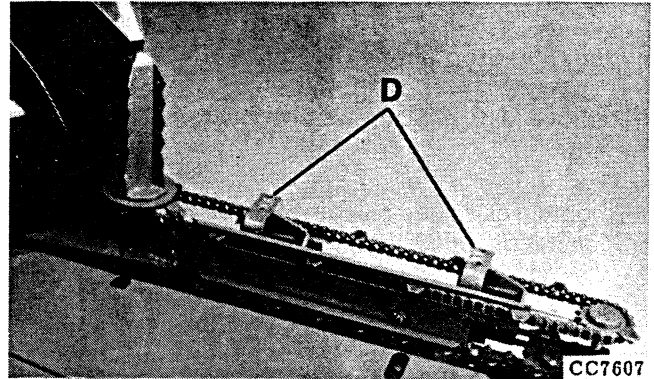
Proceed as follows:

Loosen lock nut (A).

Tighten screw (B) to obtain a clearance of 2 to 3 mm (0.08 to 0.12 in.) between end of tube (C) and screw head (B). Retighten lock nut (A) and reinstall gatherer point.

A—Lock nut
B—Screw

C—Tube
D—Attaching screw



CC7607, CC8460-6RRCAZE-150488

DRIVE CHAIN TENSION

Remove screws (A) and lateral hood.

It is not necessary to tension chain (B).

If necessary, tension chain (C) as follows:

Loosen bearing attaching screws (D).

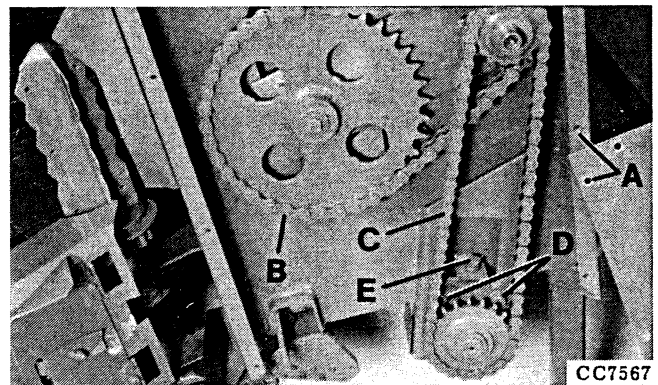
Tension chain by means of screws (E).

Retighten bearing attaching screws (D).

NOTE: Chain deflection should be 2% of the distance between drive and driven sprocket.

A—Screw
B—Chain
C—Chain

D—Bearing
E—Screw



CC7567-6RRCACCE-010486

Storage

BEFORE STORAGE

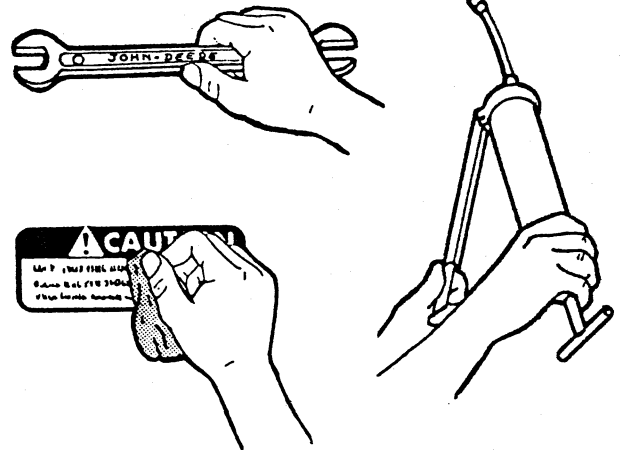
Remove guards and gatherer points to clean row-crop thoroughly.

Lubricate row-crop or drain oil as indicated.

Clean gatherer and roll chains with diesel fuel, soak them in warm grease and reinstall.

Check row-crop for damaged or worn parts and replace them. For more detailed checks see your JOHN DEERE dealer.

Repaint worn areas and clean decals.



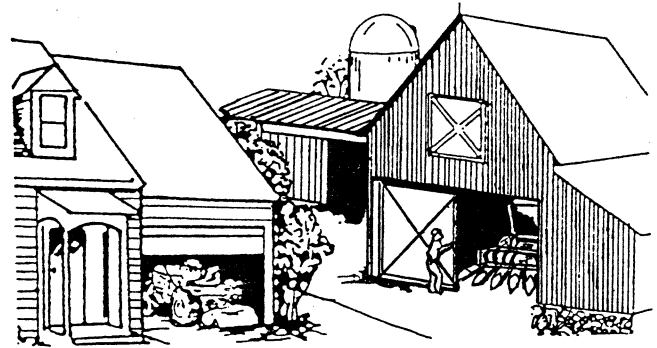
CC 7615

CC7615-6RRCACCE-010486

STORAGE

Store row-crop in a dry place.

If possible, store on level surface.



CC7616

CC7616-6RRCACCE-010486

Specifications and Serial Number

SPECIFICATIONS

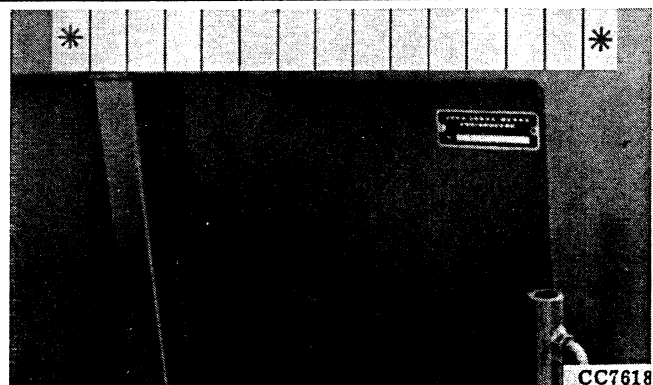
Row spacing	750 mm (29.5 in.)
Gatherer chains	12 chains with automatic chain tensioner
Row-crop drive	Gear drive
Gatherer points	Adjustable; moving freely
Cutting unit	12 cutting disks (2 per row), driven by gatherer chains
Auger	Moving freely, narrow spaced flights
Feed rolls	One on each side
Folding device	Mechanically locked
Weight	1500 kg (3307 lb.)
Width	
– Transport	3,0 m (9.8 ft.)
– Operation	4.4 m (14.4 ft.)
Height	1,32 m (52.1 in.)
Length	2,40 m (94.5 in.)

SPECIF-6RRCACCE-010486

SERIAL NUMBER

When ordering parts, always quote the corn head serial number. The serial number is on a plate on the rear right-hand side of the frame. Record serial number in the space provided opposite.

Date of purchase
(to be filled in by purchaser)



CC7618-6RRCACCE-010486

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John Deere Service Keeps You on the Job

JOHN DEERE PARTS

We help minimize downtime by putting genuine John Deere parts in your hands in a hurry.

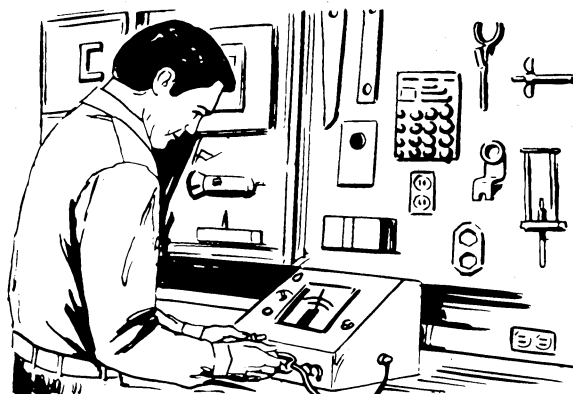
That's why we maintain a large and varied inventory – to stay a jump ahead of your needs.



TS100-ESPDAE-200488

THE RIGHT TOOLS

Precision tools and testing equipment enable our Service Department to locate and correct trouble quickly ... to save you time and money.



TS101-ESPDAE-200488

WELL-TRAINED TECHNICIANS

School is never out for John Deere service technicians.

Training schools are held regularly to be sure our personnel know your equipment and how to maintain it.

Result?

Experience you can count on!



TS102-ESPDAE-200488

PROMPT SERVICE

Our goal is to provide prompt, efficient care when you want it and where you want it.

We can make repairs at your place or at ours, depending on the circumstances.

See us.

Depend on us.

John Deere Service Superiority: We'll be around when you need us.



TS103-ESPDAE-200488

