

JOHN DEERE 350 OFFSET DISK



OPERATORS MANUAL JOHN DEERE 350 OFFSET DISK

OMA27671 K5 English

OMA27671 K5

LITHO IN THE U.S.A.
ENGLISH





To the Purchaser


This new disk was carefully designed and manufactured to give years of dependable service. To keep it running efficiently, read the instructions in this operator's manual. Each section is clearly identified so you can easily find the information you need—whether it is operation, lubrication, or service. Read the Table of Contents to learn where each section is located.

In addition the equipment furnished with your disk, attachments are available to help you do a better job in special crop conditions. These are described in the special equipment section of this manual and can be purchased from your John Deere dealer.

"Right-hand" and "left-hand" sides are determined by facing in the direction the disk will travel when in use.

Record your disk serial number in the space provided on page 54. Your dealer needs this information to give you prompt, efficient service when you order parts or attachments. If your disk requires replacement parts, go to your John Deere dealer where you can obtain genuine John Deere parts—accept no substitutes.

The warranty on this disk appears on your copy of the purchase order which you should have received from your dealer when you purchased the disk.

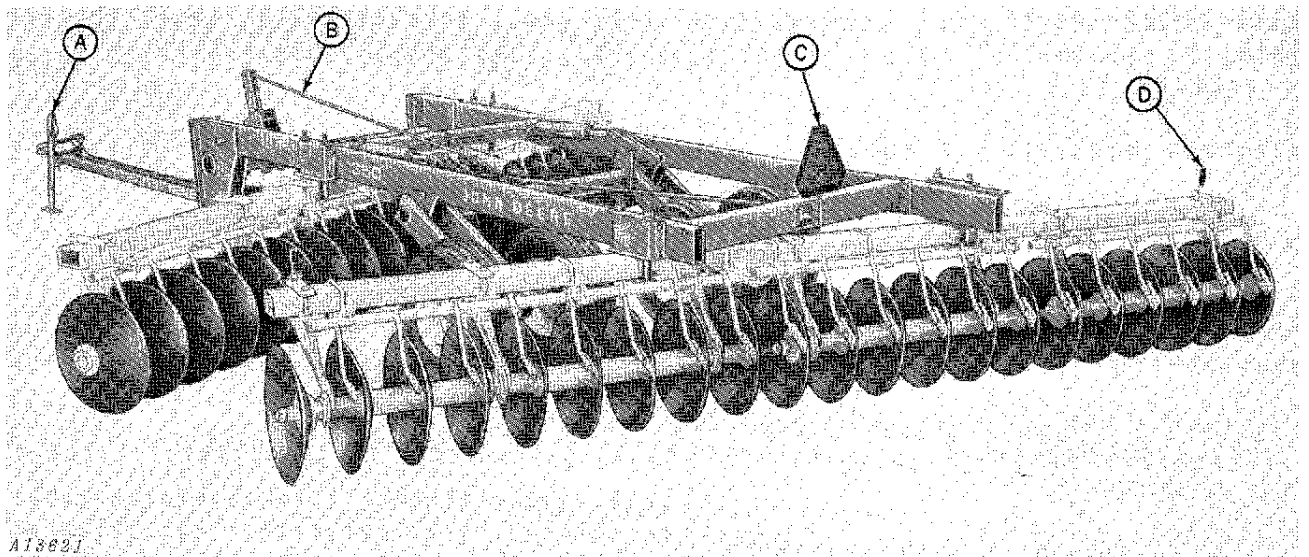
 This safety alert symbol identifies important safety messages in this manual. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

Your operator's manual contains SI Metric equivalents which follow immediately after the U.S. customary units of measure.



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A—Support Stand

B—Leveling Rod & Spring

C—SMV Emblem

D—Reflector



Safety Suggestions

GENERAL

⚠ The safety of the Operator was one of the prime considerations in the minds of John Deere engineers when this disk was designed.

You can make your farm a safer place to live and work if you observe the safety suggestions given. Study these suggestions carefully and insist that they be followed by those working with you and for you.

Finally, remember this: An accident is usually caused by someone's carelessness, neglect, or oversight.

OPERATION

When hitching the tractor to the disk, back the tractor past the clevis. Then move forward so that in making the connection the tractor will be moving away from you.

Be careful when operating the disk to avoid injury.

Never ride or permit others to ride on the drawbar of the tractor or on the disk.

Only one person - the operator - should be permitted on the tractor platform while tractor and disk are in operation.

Be careful when operating on hillsides because the tractor may tip sideways if it strikes a hole, ditch, or other irregularity.

Never clean, lubricate, or adjust a machine that is in motion.

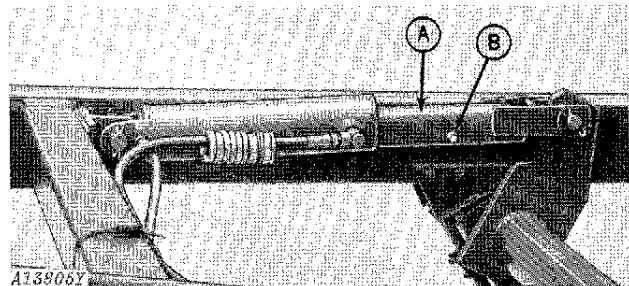
When removing self-adjusting scrapers for any reason, always remove scraper which has spring attached to upper portion of tension lever first. See pages 15-16. When installing scrapers always install this scraper last. Wear protective gloves to help prevent injury from cutting edges of disk blades or scraper blades.

Do not leave the disk in the raised position when it is not in use. Always lower it to the ground.

TRANSPORTING

When transporting the disk on a smooth surface road, do not exceed maximum tractor transport speed. Reduce speed considerably when traveling over rough ground.

When transporting disk on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard check local governmental regulations. Lights and devices may be obtained from your John Deere dealer.



A—Transport Stop

B—Retaining Pin

Before transporting the disk, fully extend the hydraulic cylinder and install stop (A) on cylinder rod as shown. Secure stop (A) with retaining pin (B) and spring locking pin. Relax cylinder to prevent damage to cylinder.

HYDRAULIC OIL

Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system be sure all connections are tight and that lines, pipes, and hoses are not damaged.

Hydraulic oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injured by escaping hydraulic oil, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.



Operation

GENERAL

Your new disk is fully adjustable and, when properly adjusted to operate in the type soil and field conditions on your farm, it will do a good job of disking at a minimum of expense. A well-adjusted disk levels the soil uniformly and leaves it in proper condition for the best type of seedbed.

Improper adjustment results in rapid wear, possible breakage of parts, and inefficient operation.

PREPARING THE DISK

Lubricate the disk as instructed on page 18.

Be certain all bolts are tightened securely. See torque chart on page 48.

Inflate the disk tires to 30 psi (2.1 bar) of air pressure.

PREPARING THE TRACTOR

General

For complete tractor operating instructions, refer to your tractor operator's manual.

Rockshaft Selector Lever

Set the tractor rockshaft selector lever in the zero or "D" position, depending upon your model tractor. Be sure rockshaft lever is set to keep 3-point hitch up at all times.

Tire Inflation

Inflate the tractor tires as recommended in the tractor operator's manual.

Tractor Drawbar

The tractor drawbar can be set in an upper or lower position. When the disk is operated with the tractor drawbar in the upper position, more weight will be transferred to the tractor drawbar. The result will be less front gang penetration and more rear gang penetration. The opposite occurs when the tractor drawbar is in the lower position.

When transporting, pin drawbar so it will not swing. When operating in the field allow drawbar to swing.

Rear Wheel Weighting

Rear wheel weights may be necessary to eliminate excessive wheel slippage or for stability in rough or hillside fields. However, weights should not be added to the point where all slippage is eliminated. To do so would hinder maximum performance of the tractor.

For maximum recommended rear wheel ballast see your tractor operator's manual.

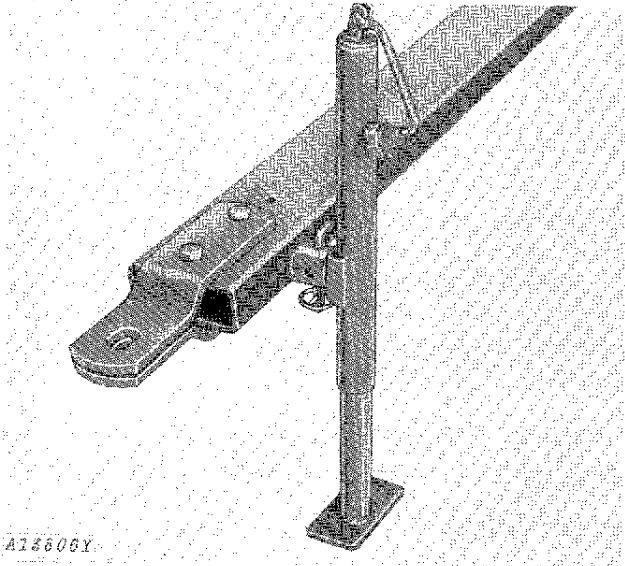
Liquid Weights

Water and calcium chloride solution is an economical means of adding weight to rear wheels. Calcium chloride is recommended rather than water as it will not freeze. See your tractor operator's manual or your John Deere dealer.

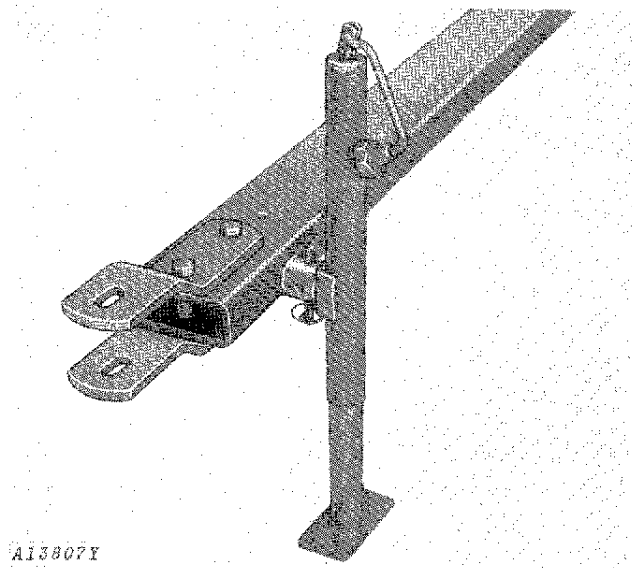
Cast-Iron Weights

Where weight in addition to or in place of liquid weight is required, cast-iron weights can be bolted to the rear wheels. This type of weight can be secured from your John Deere dealer.

ATTACHING TO TRACTOR



Position of Disk Hitch When Tractor is Equipped With a Clevis Drawbar

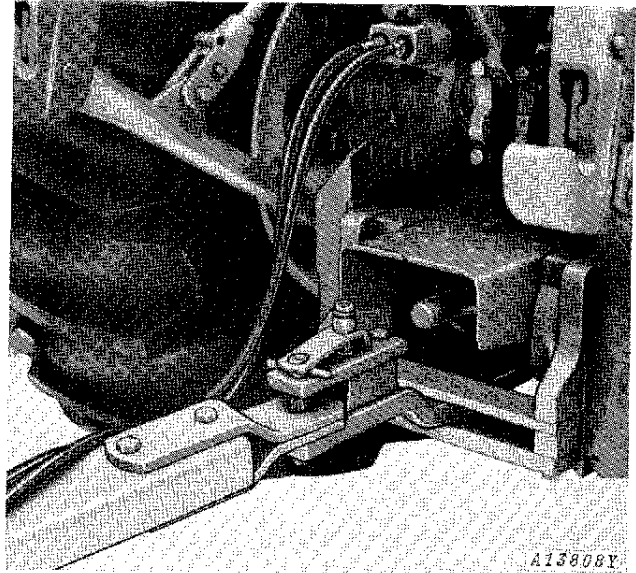


Position of Disk Hitch When Tractor is Equipped With a Straight Drawbar

Position hitch as illustrated above for tractors equipped with straight drawbars or for tractors equipped with clevis drawbars.

Back the tractor up to the disk.

CAUTION: To avoid injury from escaping hydraulic oil under pressure, turn engine off and relieve the pressure in the system by moving hydraulic control levers in both directions before attaching hoses to breakaway couplers.



IMPORTANT: Wipe hose ends to remove any dirt before inserting in the breakaway couplers.

Insert hydraulic hoses into the tractor breakaway couplers so the cylinder will extend or retract as indicated by symbols on tractor console. Move the operating lever back and forth a few times to pressurize the cylinders.

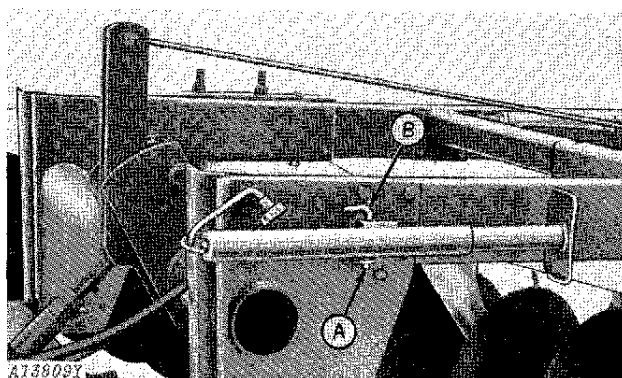
NOTE: If the hoses have been disconnected from the hydraulic cylinder or if the cylinder has not been used before, all trapped air must be removed from the cylinder.

To remove trapped air, remove cylinder attaching pins and lay the cylinder across the disk frame with the oil outlets up to allow the trapped air to escape. Start the engine and operate the remote cylinder operating lever back and forth seven or eight times, allowing the full stroke each time.

After bleeding air from cylinders, reinstall cylinders.

Raise disk drawbar to desired height by adjusting jack.

Attach disk to tractor with drawbar pin and secure with drawbar pin retainer.

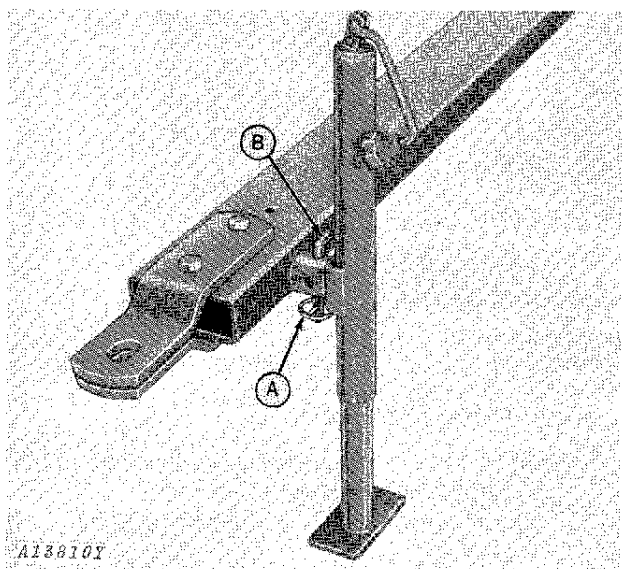


A—Quik-Lock Pin

B—Retaining Pin

Remove jack from drawbar by lowering jack, removing quik-lock pin (A) and retaining pin (B). Install jack on storage bracket (located on left hitch panel) and secure with retaining pin and quik-lock pin.

DETACHING FROM TRACTOR



A—Quik-Lock Pin

B—Retaining Pin

Remove jack from storage bracket and attach to the disk drawbar and secure with retaining pin (B) and quik-lock pin (A). Raise jack until the hitch clevis is free of the tractor drawbar.

Remove drawbar pin and drive tractor forward until hitch clevis is free from the tractor drawbar or swing tractor drawbar sideways to free clevis. Lower disk to ground with hydraulic control lever.

Relieve hydraulic pressure from system by shutting off tractor and moving hydraulic control lever in both directions.

Remove hoses from breakaway couplers. Drive tractor away from disk.

CHECKING HYDRAULIC SYSTEM

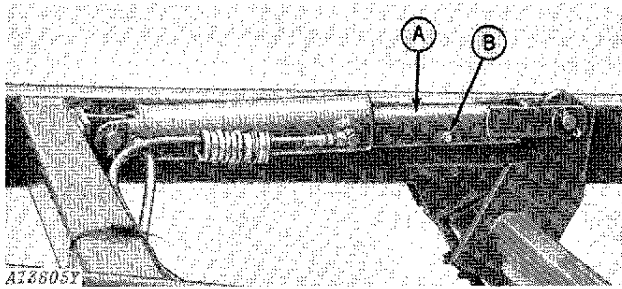
After attaching disk to tractor for the first time, check all hydraulic connections, lines, and hoses for leaks.

CAUTION: Escaping hydraulic oil under pressure can have sufficient force to penetrate the skin, causing serious personal injury. Before disconnecting lines, be sure to relieve all pressure. Before applying pressure to the system, be sure all connections are tight and that lines, pipes, and hoses are not damaged.

Hydraulic oil escaping from a very small hole can be almost invisible. Use a piece of cardboard or wood, rather than hands, to search for suspected leaks.

If injured by escaping hydraulic oil, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

TRANSPORTING



A—Transport Stop B—Retaining Pin

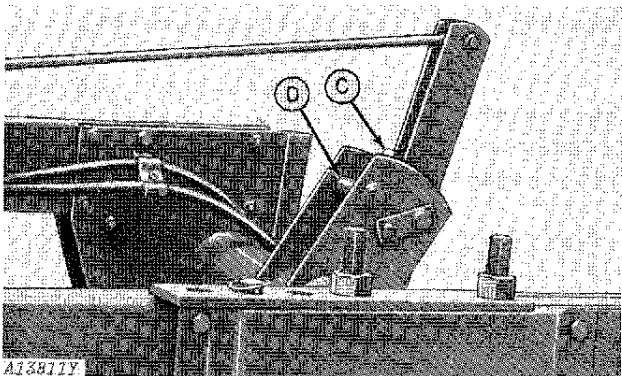
Before transporting the disk, fully extend the hydraulic cylinders and install stops (A) on cylinder rods as shown. Secure stops with retaining pins (B) and spring locking pins. Relax cylinder to prevent damage to cylinder.

If tractor is equipped with swinging drawbar, be certain to lock drawbar in a fixed position.

Leveling the Disk for Transport

The disk must be level when transporting as well as when disking.

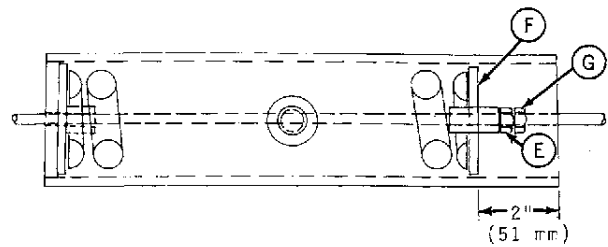
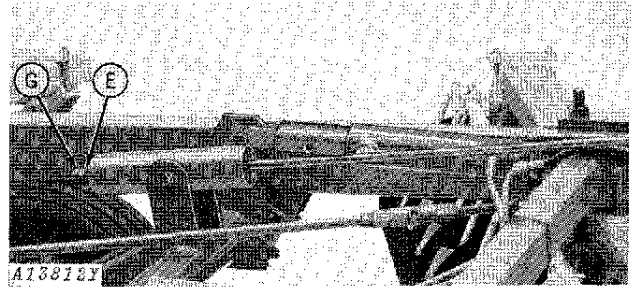
After the stops are in position, level the disk for transporting as follows:



C—Pivot Link Stop D—Mast Pin

Make certain the pivot link stop (C) rests against the mast pin (D).

CAUTION: Do not attempt to adjust leveling rod spring until disk is lowered completely to ground. Retract transport wheel hydraulic cylinders fully to remove maximum amount of compression from the leveling spring.

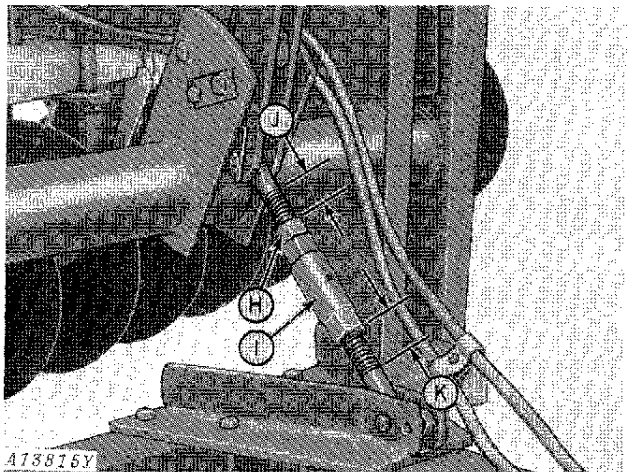


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E—Adjusting Nut G—Nut
F—Spring End Cap

Spring Guide

If the pivot link stop is not against the mast pin, tighten spring adjusting nut (E) until the spring end cap (F) is approximately 2 inches (51 mm) into the spring guide, then lock adjusting nut with nut (G) on leveling rod.



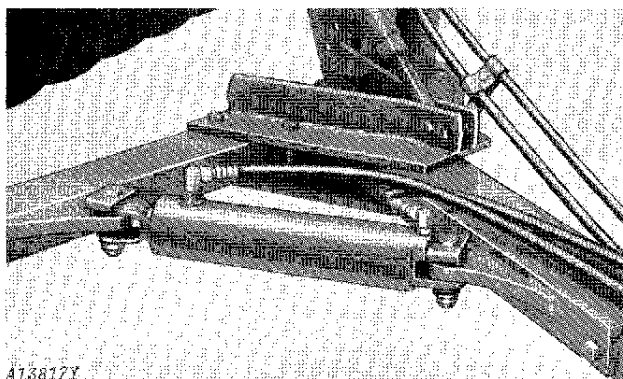
A13815Y

H—Turnbuckle Nut K—Eye Bolt Thread -
I—Turnbuckle 5 inch (127 mm) maximum
J—Eye Bolt Thread -
 4 inch (102 mm) maximum

To level disk main frame, loosen turnbuckle nut (H) and adjust turnbuckle (I) until frame is level and tighten turnbuckle nut (H) against turnbuckle (I).

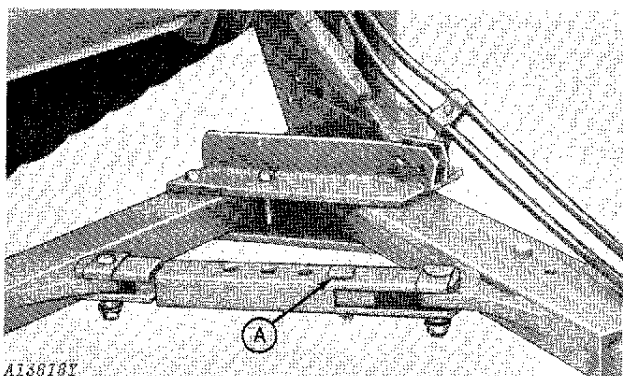
CAUTION: Never expose more than 4 inches (102 mm) of turnbuckle eyebolt thread (J). Never expose more than 5 inches (127 mm) of turnbuckle eyebolt thread (K).

Angling the Hitch for Transport



Hitch Hydraulic Cylinder

If your disk is equipped with a hitch hydraulic cylinder, retract cylinder so the wheel frame will be centered behind the tractor for road transport.



A—Pin in Transport Position
Mechanical Latch

If your disk is equipped with a mechanical latch, retract the hitch so the disk frame will be centered behind the tractor for road transport and insert pin in hole "A".

CAUTION: When transporting the disk on a smooth surface road, do not exceed maximum tractor transport speed. Reduce speed considerably when traveling over rough ground.

When transporting the disk on a road or highway at night or during the day, use accessory lights and devices for adequate warning to operators of other vehicles. In this regard, check local governmental regulations. Various safety lights and devices are available from your John Deere dealer.

OPERATING ADJUSTMENTS

Leveling the Disk

Front and Rear

The front and rear gang leveling is accomplished by three adjustments; tractor drawbar height (see page 3), leveling spring adjustment, and rear hitch pin location.

These adjustments should be made after disk is level for transporting. See page 6.

Leveling Spring

The leveling spring is used to adjust the relative disking depth of the front and rear gangs.

CAUTION: Do not attempt to adjust leveling rod spring until disk is lowered completely to ground. Retract transport wheel hydraulic cylinders fully to remove maximum amount of compression from the leveling spring.

Increasing spring pressure increases the penetration of the rear gangs and decreases the penetration of the front gangs. To increase the spring pressure, tighten the adjusting nut at the rear of the leveling rod and lock the adjusting nut in position with the second nut.

Decreasing the spring pressure results in less rear gang penetration and greater front gang penetration.

To level the disk with the leveling spring, proceed as follows:

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