

WOODS **ROTARY MOWER**

L59 & L306 AC/B & C

For use on Allis Chalmers B & C Tractors

29936
Rev. 5/18/2007

WOODS®
Tested. Proven. Unbeatable.

OPERATOR'S MANUAL

TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the Woods® dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Product Registration included with the Operator's Manual. The customer must sign the registration which certifies that all Dealer Check List items have been completed. The dealer is to return the prepaid postage portion to Woods, give one copy to the customer, and retain one copy. **Failure to complete and return this card does not diminish customer's warranty rights.**

TO THE OWNER:

Read this manual before operating your Woods equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized Woods dealer has trained mechanics, genuine Woods service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine Woods service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model: _____ **Date of Purchase:** _____

Serial Number: (see Safety Decal section for location) _____

Provide this information to your dealer to obtain correct repair parts.

Throughout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING**, and **DANGER** are used in conjunction with the Safety-Alert Symbol (a triangle with an exclamation mark) to indicate the degree of hazard for items of personal safety.



This Safety-Alert Symbol indicates a hazard and means **ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!**



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



Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed.



Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

**IMPORTANT
or NOTICE**

Indicates that failure to observe can cause damage to equipment.

NOTE

Indicates helpful information.

WOODS®

ALITEC™
BMP®
CENTRAL FABRICATORS®
GANNON®
GILL®
WAIN-ROY®
WOODS®

2 Introduction

Gen'l (Rev. 2/5/2007)

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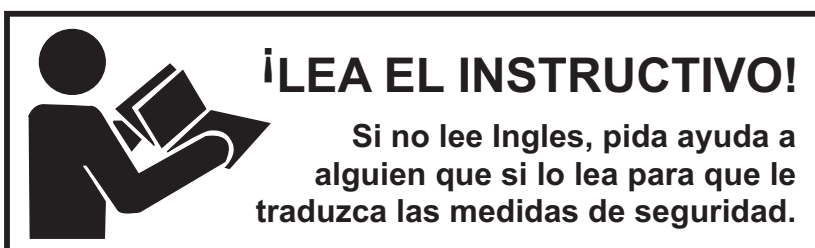
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GENERAL INFORMATION

The purpose of this manual is to assist you in operating and maintaining your cutter. Read it carefully. It furnishes information and instructions that will help you achieve years of dependable performance. These instructions have been compiled from extensive field experience and engineering data. Some information may be general in nature due to unknown and varying operating conditions. However, through experience and these instructions, you should be able to develop procedures suitable to your particular situation.

The illustrations and data used in this manual were current at the time of printing but, due to possible inline production changes, your cutter may vary slightly in detail. We reserve the right to redesign and change the cutters as may be necessary without notification.

Throughout this manual, references are made to right and left directions. These are determined by standing behind the cutter facing the direction of forward travel.



This Operator's Manual should be regarded as part of the machine. Suppliers of both new and second-hand machines must make sure that this manual is provided with the machine.

SAFETY RULES



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



Safety is a primary concern in the design and manufacture of our products. Unfortunately, our efforts to provide safe equipment can be wiped out by an operator's single careless act.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, judgement, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

It has been said, "The best safety device is an informed, careful operator." We ask you to be that kind of operator.

TRAINING

- **Safety instructions are important! Read all attachment and power unit manuals; follow all safety rules and safety decal information. (Replacement manuals and safety decals are available from your dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.) Failure to follow instructions or safety rules can result in serious injury or death.**
- **If you do not understand any part of this manual and need assistance, see your dealer.**
- **Know your controls and how to stop engine and attachment quickly in an emergency.**
- **Operators must be instructed in and be capable of the safe operation of the equipment, its attachments, and all controls. Do not allow anyone to operate this equipment without proper instructions.**
- **Never allow children or untrained persons to operate equipment.**

PREPARATION

- **Check that all hardware is properly installed. Always tighten to torque chart specifications unless instructed otherwise in this manual.**
- **Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.**
- **Make sure attachment is properly secured, adjusted, and in good operating condition.**
- **Remove accumulated debris from this equipment, power unit, and engine to avoid fire hazard.**

- **Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)**

- **Make sure shields and guards are properly installed and in good condition. Replace if damaged.**

- **Inspect and clear area of stones, branches, or other hard objects that might be thrown, causing injury or damage.**

OPERATION

- **You may not be able to stop the tractor safely if the clutch or brake pedal mechanisms are improperly adjusted, allowing them to contact mower components.**

- **When the mower lift stops are installed as instructed in this manual, properly adjusted clutch and brake pedal mechanisms will not contact mower components. You should frequently check that the tractor clutch and brake pedal mechanisms are in adjustment.**

- **If the clutch or brake pedal mechanisms can contact mower components, do not put mower into service until properly adjusted.**

- **Do not put mower into service unless discharge chute is installed and in good condition. Replace if damaged.**

- **Keep bystanders away from equipment.**

- **Do not operate or transport equipment while under the influence of alcohol or drugs.**

- **Never direct discharge toward people, animals, or property.**

- **Operate only in daylight or good artificial light.**

- **Keep hands, feet, hair, and clothing away from equipment while engine is running. Stay clear of all moving parts.**

- **Always comply with all state and local lighting and marking requirements.**

- **Never allow riders on power unit or attachment.**

- **Always sit in power unit seat when operating controls or starting engine. Place transmission in neutral, engage brake, and ensure all other controls are disengaged before starting power unit engine.**

- **Look down and to the rear and make sure area is clear before operating in reverse.**

- **Do not operate or transport on steep slopes.**



SAFETY RULES

ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!



- Do not stop, start, or change directions suddenly on slopes.
- Use extreme care and reduce ground speed on slopes and rough terrain.
- Watch for hidden hazards on the terrain during operation.
- Stop power unit and equipment immediately upon striking an obstruction. Turn off engine, remove key, inspect, and repair any damage before resuming operation.

TRANSPORTATION

- Always comply with all state and local lighting and marking requirements.
- Never allow riders on power unit or attachment.
- Do not operate PTO during transport.
- Watch for hidden hazards on the terrain.
- Do not operate or transport on steep slopes.
- Do not operate auxiliary hydraulics during transport.
- Do not operate or transport equipment while under the influence of alcohol or drugs.

MAINTENANCE

- Before dismounting power unit or performing any service or maintenance, follow these steps: disengage power to equipment, lower the 3-point hitch and all raised components to the ground, operate valve levers to release any hydraulic pressure, set parking brake, stop engine, remove key, and unfasten seat belt.
- Do not modify or alter or permit anyone else to modify or alter the equipment or any of its components in any way.
- Always wear relatively tight and belted clothing to avoid getting caught in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hair, hands, hearing, and head; and respirator or filter mask where appropriate.
- Never go underneath equipment (lowered to the ground or raised) unless it is properly blocked and secured. Never place any part of the body under-

neath equipment or between moveable parts even when the engine has been turned off. Hydraulic system leak down, hydraulic system failures, mechanical failures, or movement of control levers can cause equipment to drop or rotate unexpectedly and cause severe injury or death. Follow Operator's Manual instructions for working underneath and blocking requirements or have work done by a qualified dealer.

- Make sure attachment is properly secured, adjusted, and in good operating condition.
- Keep all persons away from operator control area while performing adjustments, service, or maintenance.
- Make certain all movement of equipment components has stopped before approaching for service.
- Frequently check blades. They should be sharp, free of nicks and cracks, and securely fastened.
- Do not handle blades with bare hands. Careless or improper handling may result in serious injury.
- Your dealer can supply genuine replacement blades. Substitute blades may not meet original equipment specifications and may be dangerous.
- Tighten all bolts, nuts, and screws to torque chart specifications. Check that all cotter pins are installed securely to ensure equipment is in a safe condition before putting unit into service.
- Make sure all safety decals are installed. Replace if damaged. (See Safety Decals section for location.)
- Make sure shields and guards are properly installed and in good condition. Replace if damaged.
- Wear gloves when installing belt. Be careful to prevent fingers from being caught between belt and pulley.

STORAGE

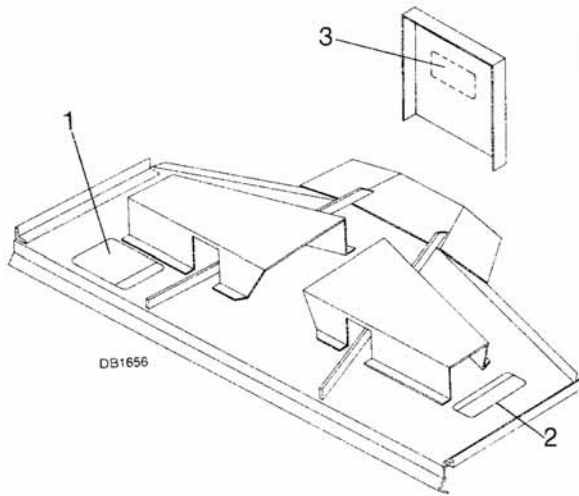
- Block equipment securely for storage.
- Keep children and bystanders away from storage area.



SAFETY & INSTRUCTIONAL DECALS



ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!
Replace Immediately If Damaged!



3 - SERIAL NUMBER PLATE

BE CAREFUL!

Use a clean, damp cloth to clean safety decals.

Avoid spraying too close to decals when using a pressure washer; high-pressure water can enter through very small scratches or under edges of decals causing them to peel or come off.

Replacement safety decals can be ordered free from your Woods dealer. To locate your nearest dealer, check the Dealer Locator at www.WoodsEquipment.com, or in the United States and Canada call 1-800-319-6637.

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WARNING

TO AVOID SERIOUS INJURY OR DEATH,

- Read Operator's Manual and follow all safety precautions. (Contact dealer for manuals.)
- Keep shields and guards in place. Keep clear of drives and belts.
- Lower implement, stop engine and remove key before dismounting.
- Block up implement and remove key before working underneath.
- Do not operate mower in vicinity of other persons. Never allow riders.
- Know how to stop tractor and equipment quickly in an emergency.
- Clear mowing area of debris.
- Never allow children or unqualified persons to operate equipment.
- Be careful on uneven terrain. Decrease speed when turning.
- Do not operate in transport position.

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DANGER



ROTATING BLADES AND THROWN OBJECTS

- Do not put hands or feet under or into mower when engine is running.
- Before mowing, clear area of objects that may be thrown by blade.
- Keep bystanders away.
- Keep discharge chute and guards in place and in good condition.

BLADE CONTACT OR THROWN OBJECTS CAN CAUSE SERIOUS INJURY OR DEATH.

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6 Safety

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OPERATION

WARNING

- Do not allow children or unqualified persons to operate equipment.
- Keep bystanders away from equipment while it is in operation.

CAUTION

- Stop mower and tractor immediately upon striking an obstruction. Turn off engine, remove key, inspect and repair any damage before resuming operation.
- Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Wear sturdy, rough-soled work shoes and protective equipment for eyes, hands, hearing and head.

MOWING GRASS

Woods model **59**, **L59**, and **L306** series mowers are equipped with suction-type blades which make them ideal for finish mowing large areas of lawn. The machine should be run level when mowing, and the uncut area should be kept to the left side (right side on left-handed machine). This prevents a small windrow that might otherwise occur.

Streaking

With certain types of grass and under certain seasonal conditions, the front caster wheels may roll the grass down enough that it will not come all the way back up and will not be cut as short as the surrounding area. This may appear to be a streak left by the spindle, but it is not. The only solution, under these conditions, is to carry the weight of the machine on the lift chains with the caster wheels adjusted up so they carry the weight when riding a high ridge or high spot.

TRACTOR OPERATING INSTRUCTIONS

Operate the tractor at full governed rpm when doing normal mowing. If the forward speed is too high, a lower gear can be used.

Height Adjustment (Without Casters)

The mower is raised or lowered and the mowing height is maintained by the tractor hydraulic system.

Set the hydraulic control lever stop for the desired mowing level. Adjust the side skids so that they just

clear the ground. The side skids will minimize scalping by lifting the mower over bumps.

Height Adjustment (With Casters)

Adjustments for **59** and **L59** casters are made by placing the axle in the upper and lower hole in the yoke, or by moving spacers to top or bottom of the pivot shaft. On **L306**, adjust by using various holes in caster arm. Adjust side skids 1/2" above the ground.

Raise mower off the ground when backing and turning at same time.

Mower Attitude

Position front of mower level with or slightly below the rear of mower to provide a closer cutting. Mowing with the front end high will produce ragged cuts with a scalloped look, excessive shredding, and will require extra power.

Attitude Adjustment (Figure 1)

For best mowing results, dimension "A" should not be more than 1/2" higher, and never lower, than dimension "B".

Dimension "B" is set by adjusting casters, gauge wheels, or lift chains.

Dimension "A" is set by raising or lowering push channel arms in idler bracket.

NOTICE

- Any adjustment to either dimension "A" or "B" will require adjustment to the other.

Check cutting height and attitude by placing a straight edge along the outside edge of the mower frame as shown in Figure 1.

Measure from the bottom edge of the straight edge at the front and rear at least 32" apart. The front measurement should be approximately 1/2" lower than the rear.

To determine cutting height, it is necessary to subtract the distance the blade is below mower frame from the front measurement. On the **L59**, the blade is 4-5/8" below the mower frame. On the **L306**, it is 4-7/8" below.

When checking cutting height, be sure to take measurements on both sides of the mower. Be sure the mower is level from side to side using these measurements.

When changes are made to cutting height or attitude, be sure to check belt alignment and tension.

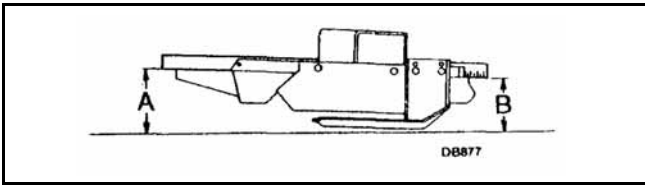


Figure 1. Attitude Adjustment

NOTICE

- Improper belt alignment or tension can cause premature belt failure.

LUBRICATION

Grease caster pivot and wheel every 8 hours of operation. There are grease fittings on each of the three blade spindles. These are accessible without shield removal. Grease every 24 hours of operation with a good grade light to medium grease gun.

NOTICE

- Do not over grease spindles. Excess grease could be transferred to the belt and cause slippage or premature failure.

BELT TENSION (SEE FIGURE 2)

Set belt tension using a spring scale or other force measuring device. Remove left belt shield. Attach scale between cutter and left pulley. Apply between three and four pounds of force. Belt deflection should measure 5/16" for normal conditions.

Tension may be increased if necessary to prevent belt from slipping in heavy mowing conditions.

When checking tension without a force measuring device, the belt, when properly set, should feel very tight.

Cycle belt through at least two revolutions after any adjustment before checking tension. These belts are very strong and need to be adjusted very tight. Belts are more likely to be damaged by excessive slippage than from being overtightened.

NOTICE

- Belt must not rub deck or crosswise support.

Tension adjustments may be made by moving the idler pulleys up or down.

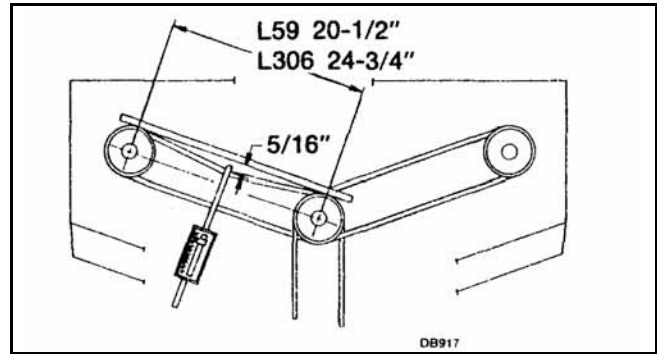


Figure 2. Proper Belt Tension

NOTICE

- Alignment must be rechecked if it is necessary to move idler pulleys to get proper belt tension.
- Tension on a new belt should be readjusted every half hour for the first two hours and then checked every eight hours of operation.

SIDE SHIELD & DISCHARGE CHUTE

Side shield and discharge chute are provided for discharge end of mower (left end on white frames and right end on yellow frames). Use side shield for normal mowing and in areas where other persons may be present. Use discharge chute for very heavy mowing conditions.

NOTICE

- Always use either side shield or discharge chute.

OPTIONAL EQUIPMENT

Optional equipment available includes casters for cutting height control, front roller to minimize scalping, low and extra suction blades, and a leaf mulcher. Low suction blades are for sandy areas where abrasive action could cause excessive blade wear. Extra suction blades are designed to lift up fragile downed grasses for better cutting results and are also recommended for use with Woods leaf mulcher attachment.

MOWER SPINDLE ASSEMBLIES

Mower spindle assemblies are equipped with two tapered roller bearings. Bearing adjustment is held by a roll pin. Adjustment should not be necessary. Repair requires special skills and tools. You may save time and money by using a new spindle assembly.

BLADE SERVICING

Keep blades sharp for a good mowing job. Sharpen both ends of the blade the same amount to maintain balance. Do not sharpen blade to a razor edge, but

leave a 1/16" blunt edge. Do not sharpen back side of blade. When replacing blades, do not substitute any bolt for the special Nylok blade bolt. The Nylock bolt is self-locking, meeting the non-loosening requirements for this application.

NOTICE

■ On mowers with white frames, the blade bolts have left hand threads.

Both 59 and 306 mowers use cup washers under blades. These washers will burn and lose their clamping force if excess slippage occurs. Inspect and replace as necessary. The L306 mower incorporates a friction clutch disc which is designed to slip only when striking a solid object. Should blade slip during mowing, tighten by adding thin shim washers over bushing, between top cup washer and blade, until blades will hold desired load. Blade bolts should be torqued to 170 lbs-ft.

HOW TO SOLVE BELT PROBLEMS

Assemble as shown on mower decal. If not installed correctly, more twist will result than is allowable.

Belt whip is caused by belt misalignment unless mower is driven by a rough-running or 2-cylinder engine.

Proper position of L59 and L306: Adjust mower forward and back to such a position that the rear take-up idlers are near the bottom of their slots when the belt lines up with the proper groove in the center pulley and is tight. Never run the idlers high in the slots as this will cause misalignment.

It is assumed that the mower is adjusted to run approximately level. If the front of the mower is down, the idlers will have to be raised. If the back of the mower is down, the idlers will have to be down further. Belts must be in proper alignment with sheave grooves as shown in Figure 4 and Figure 5.

PTO pulleys must be moved in or out to cause the belt to be in alignment with the idlers.

Belt Tension: Run belts very tight. Present belt designs are much stronger than we are accustomed to and will stand more tension. Slipping will heat and ruin a belt but tension is not harmful. You can minimize the amount of change in belt length as mower is raised and lowered by keeping the rear idlers adjusted to a low position.

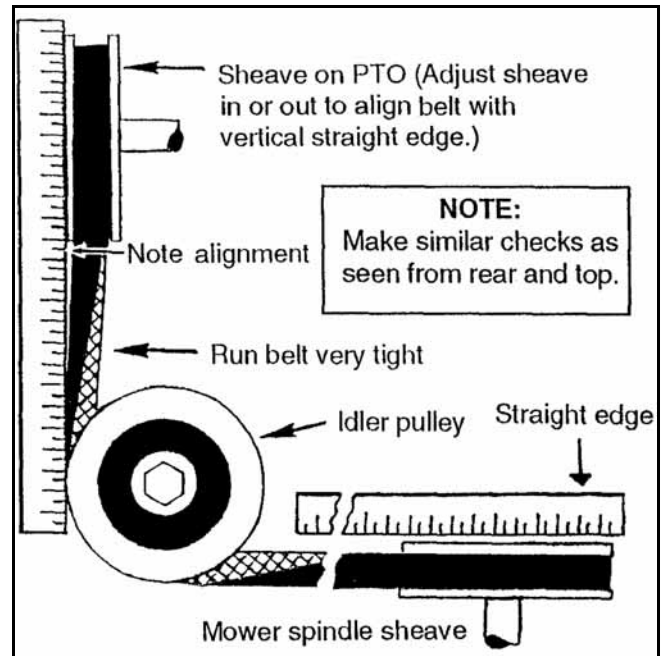


Figure 3. Use of Straight Edge (Side View)

How to Align a Twisted Belt

Right: Inside edge of belt are approximately lined up with the sheave.

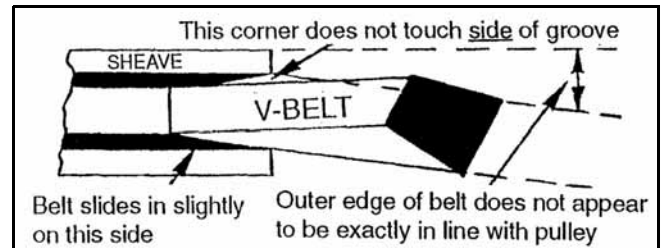


Figure 4

Wrong: Outer edge of belt appears to be in line.

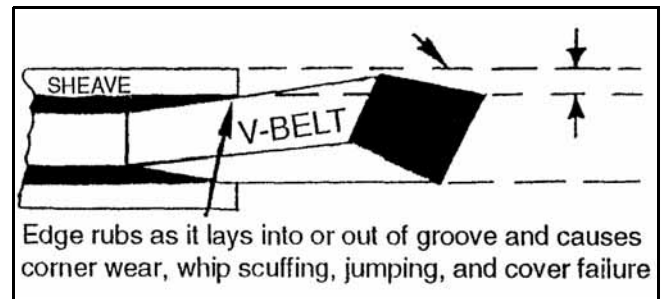


Figure 5

ASSEMBLY

Center Shield

To allow more lift on tractors with minimum ground clearance, such as Fords, IH LoBoy, Kubotas, Satohs, etc., a center belt shield is not offered. Refer to page 24. If the box of parts has a center belt shield, bolt center belt shield bracket (34) to deck with 3/8 x 1" bolt. Bolt center shield (10) to bolts welded in deck and bracket (34).

To provide clearance between tractor muffler and left belt shield on L306, see page 24.

Side Skids

Bolt skids in such a position that they will be carried close to the ground, but so they do not ride continually on the ground when mower is operated at desired mowing height.

On **59**'s, use 3/8 x 1" heat-treated bolts (torque to 35 lbs-ft), lock washer and nuts. On **L306**'s, use 1/2 x 1-1/4" heat treated bolts, lock washers and nuts.

Front Toe Guard

Refer to page 24. Front toe guards (6) are furnished for some mowers. When provided, bolt them to the front of the mower, using 3/8 NC x 3/4" carriage bolts and 3/8" flange lock nuts. (NOTE: On **59** and **L59** where casters are installed on outer deck rails, bolt toe guards to mower so outer ends are about 2" in from end of deck. Otherwise, end of toe guard will be about 1/2" in from end of deck.) End of **L306** toe guard will be 3/4" in from end of deck.

Crosswise Rear Support

Refer to page 24. Install bushing (16) into center hole in crosswise rear support and bolt it to back of mower deck with short bar forward and offset up using 1/2 x 2" hex head cap screw and 1/2" flange lock nut. NOTE: On L59, L306F10-2, "S", JD85, JD95, and GM4 mountings, a special crosswise rear support is provided. If tractor is equipped with turf tires, use upper center hole in crosswise support, and for Ag tires, use lower hole. See mounting frame drawing in those manuals.

Channel Arms

Refer to page 24. Slide mower under tractor. Attach channel arms (12) to mower frame using 5/8 x 1-1/2" clevis pin and safety pins. Pin crosswise rear support bar (15) between channel arms and bolt center to frame angle bracket as shown.

Casters

If casters are used, see page 27 or page 28, except for the L59 mower on Ford 1000, 1600, 1700, 1900, and Satoh S650. (See mounting frame drawing in manual.) L306 caster assembly will not fit on IH424, 2424, 444, 2444, 454 and 2400; John Deere 1010 & 1020; Deutz 2506, 3006 and other tractors with swept back front axle as they will hit front tires. Caster wheels cannot be used on GM4 mounting.

L306 Casters

On Ford 8N, Massey 135, Deutz 4006, IH 354, and 2300 with straight front axle, etc., the right caster should be put on side angle, bolting it over side shield and between side angle and right skid. Left caster should attach to short bar on deck so casters will be inside of left front tire. Left front tractor tire should be moved out to clear caster wheel. On Ford 1000, Kubota tractors, etc., both arms will bolt to the outer deck rails. Caster wheels cannot be used on GM4 mounting.

Front Roller Assembly Instructions

Refer to page 24. On **59** mowers, put item (28) on left side and item (27) on right side of mower using 3/8" carriage bolts and nuts.

On **L306** mowers, item (28) goes on right side and item (27) on left. This will put the highest hole in brackets rearward on **59** and the next to the highest hole rearward on **L306**.

Assemble roller and roller rod (26) in rear holes in brackets (27 & 28). Secure with 3/16" cotter pins. Turn roller by hand to see that it turns freely.

MOUNTING FRAME ASSEMBLY

Refer to page 18.

Idler & Mounting Bracket Assembly

Remove bolts holding front end of drawbar in place. Slide idler bracket (6) between tractor wheel housings, with idler slides rearward, and bolt to the center set of holes in rear wheel housings, using holes in idler bracket.

Use two 7/16" thick shims at each front hole between the end plates and the tractor wheel housings. If necessary, also use 5/8" flat washers. Assembly using either 1/2" or 5/8 x 2-1/4 bolts and lock washers.

Idler Assembly to Idler Bracket

Install one V-groove idler (2) to left side of front verticle slot by installing three 5/8" flat washers between idler

and idler bracket. Install 5/8 x 2-1/2 carriage bolt through slot and idler, and secure with 5/8" nut and lock washer.

Install a 5/8 x 3" bolt through second idler. Put these 5/8" flat washers over bolt, and install assembly to right side of rear vertical slot in idler bracket. Secure with a 5/8" flat washer and nut.

After drive belt has been installed, install rear belt shield (19) over bolt installed in rear idler and secure with another 5/8" nut and two 5/8" flat washers.

Drive Sheave

Remove paint from bore of drive sheave. Install large drive sheave onto tractor belt pulley shaft using tractor key and nut. A flat washer is provided to be installed between nut and sheave. If your tractor has a tapered shaft which is too small for this sheave (made prior to 1939), it will be necessary to install a late model belt pulley shaft (AC part 208959) or to build up the old shaft with shims or weld to fit.

Belt Assembly and Adjustment

Slide mower under tractor and pin push channel to idler bracket with 5/8 x 1-3/4 clevis pin. Put belt on, see Belt Assembly and Adjustment. Make major adjustments by sliding mower fore and aft using 6 holes in channel arm as required. Make minor adjustments with idlers.

Lift Assembly

Attach the lift frame (11) to tractor using upper right hand clutch housing hole for front end of the bracket and 1/2" vertical hole in square tubing on tractor foot rest for the rear attaching point.

For hydraulic lift, assemble triangular plate (12) onto lift frame using 5/8 x 2-1/4 bolt (39), bushing (13), two flat washers, and lock nut with forked end rearward and down.

Remove cylinder from rear of tractor, remove hose and install longer hose provided, using 45° swivel adaptor between valve and hose. Install 90° swivel end of hose in cylinder and straight end in 45° adaptor previously installed.

Install cylinder onto attaching frame on inside of frame at the threaded hole using a 5/8 x 3" bolt. Put bolt through cylinder, then run a nut up on the bolt, screw bolt through the plate, install a nut on outside and tighten. Use a 7/16" clevis pin and cotter pin to attach the cylinder to the triangular plate.

Attach 33-link chain (17) to keyhole lug on mower deck and secure with plastic caplug (14). Attach 7-link chain (15) to triangular plate with 3/8 x 1-1/4" bolt and flange lock nut. Connect the chains together by installing the lower end of 7-link chain (15) through the middle of

longer chain (17), and secure by installing 3/16" safety pin (16) through end of link in chain (15).

Adjust chains so the mower raises level without pulling sideways or hitting rear tires. Also adjust chain so mower does not hit bottom of tractor or tires when fully raised.

Check to make sure the lift triangle does not hit the tractor starter. If it does, use washers to shim lift triangle or lift support frame away from tractor.

If manual height adjustment is used, refer to page 22.

Tractor Wheel Adjustment

On model "B" tractors, the right tire may be fully extended and the mower will cut beyond it, but the left rear tire must be moved in if the mower is to cut clear.

For model "C" tractors, the right tire must be put within four inches of its most inward position for the mower to cut beyond the tire track. With the left tire in its most inward position, the mower will still not quite cut beyond the tire track.

Belt Assembly and Adjustment

Models used on: 59C, L59, and L306 model AC52, AC54, BMC, B-25, D, D10-D12, F, F10, H3, GM2, GM4, JD85, JD95, JM, K17, K22, K28, KD, KL, K210, K260, MF, M25, S, S55, VC, U, etc.

First put belt on the bottom groove, right hand side of the center sheave. Then thread it to left, around the left hand sheave.

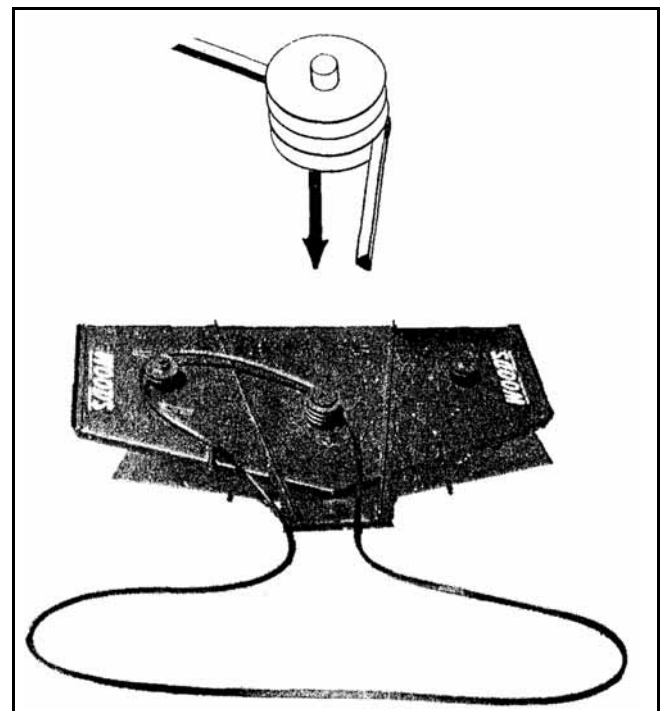


Figure 6.

Bring the belt back across the center sheave in the center groove over to the right outside sheave.

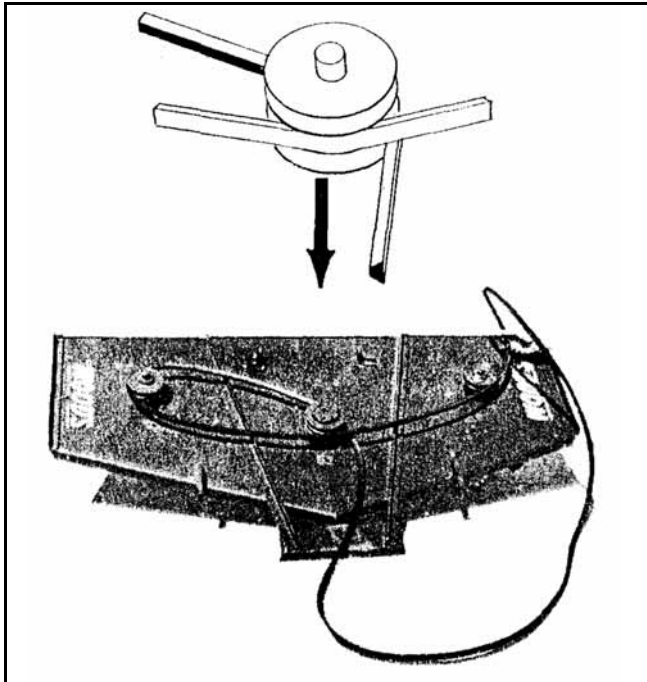


Figure 7.

Then thread it back across the front of the center sheave in the top groove.

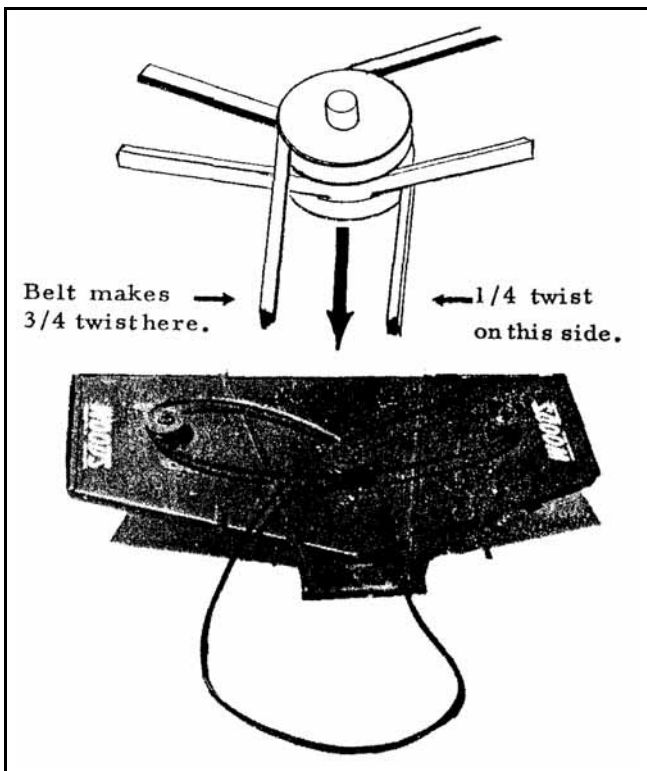


Figure 8.

Proper Twist: The belt then follows with a 3/4 twist back under the left V-idler, up over the drive sheave and back down under the right idler pulley. This will

leave a 1/4 twist in the section of belt extending from the right V-idler to lower groove of the center mower sheave.

Adjust the mower to proper cutting height. The front of the mower should be slightly lower than the rear of the best cutting and least power requirement.

Idler Adjustment: Make minor belt adjustment with idlers but keep left idler about 1" above being in line with the groove in which the belt runs on the center sheave of the mower and right idler about 1" below. Move mower fore and aft for major adjustments. On L306K210, K260, S, and F10, use belt takeup idlers on mower deck for major adjustment.

LEAF MULCHER (OPTIONAL)

1. Turn the mower upside down on saw horses. If mower has a bolt-on front shield, adjust shield all the way down in long slots. Remove side shields. Leave side skids on. If optional front roller has been installed, it must be removed.
2. On mowers with bent-down front frame, remove center baffle and drill three 7/16 diameter holes (two on 59's) in front of mower at the diameter shown on drawing.
3. Attach slotted angles (2) or (3 & 4) to leaf mulcher as shown on drawing.
4. Place leaf mulcher over blades on mower. Attach angles (2) or (3 & 4) and mower side shield to side frame angle on mower. All **59** mowers and **L306** mowers with bolt-on front shield will use front shield hole to attach angles (2) or (3 & 4). **L306** mowers with bent-down front frame will use 2nd hole behind skid to attach angles (3 & 4). Bolt side shields to mower using 3/8 flat washers for spacers.
5. On mowers with bolt-on front shield, bolt front of leaf mulcher to bottom of slots in front shield with 3/8 x 1" bolts and flat washers. On mowers with bent-down front frame, bolt leaf mulcher to inside of mower in holes drilled in front frame using 3/8 x 1" bolts on **L306**, and on **L59**'s use 3/8 x 1-1/2 bolts and 5/8 long pipe spacers between leaf mulcher and mower. On some mowers where 5/8" pipe may be too long, substitute 3/8 flat washers.
6. Drill 7/16 holes in rear of mower deck through holes in leaf mulcher rear plates and bolt rear of leaf mulcher to deck using 3/8 x 1" bolts.
7. Tighten all bolts securely. Turn each blade individually inside the leaf mulcher to see that it clears the leaf mulcher rings. If necessary, the rings may be re-shaped with a hammer to clear the leaf mulcher rings.

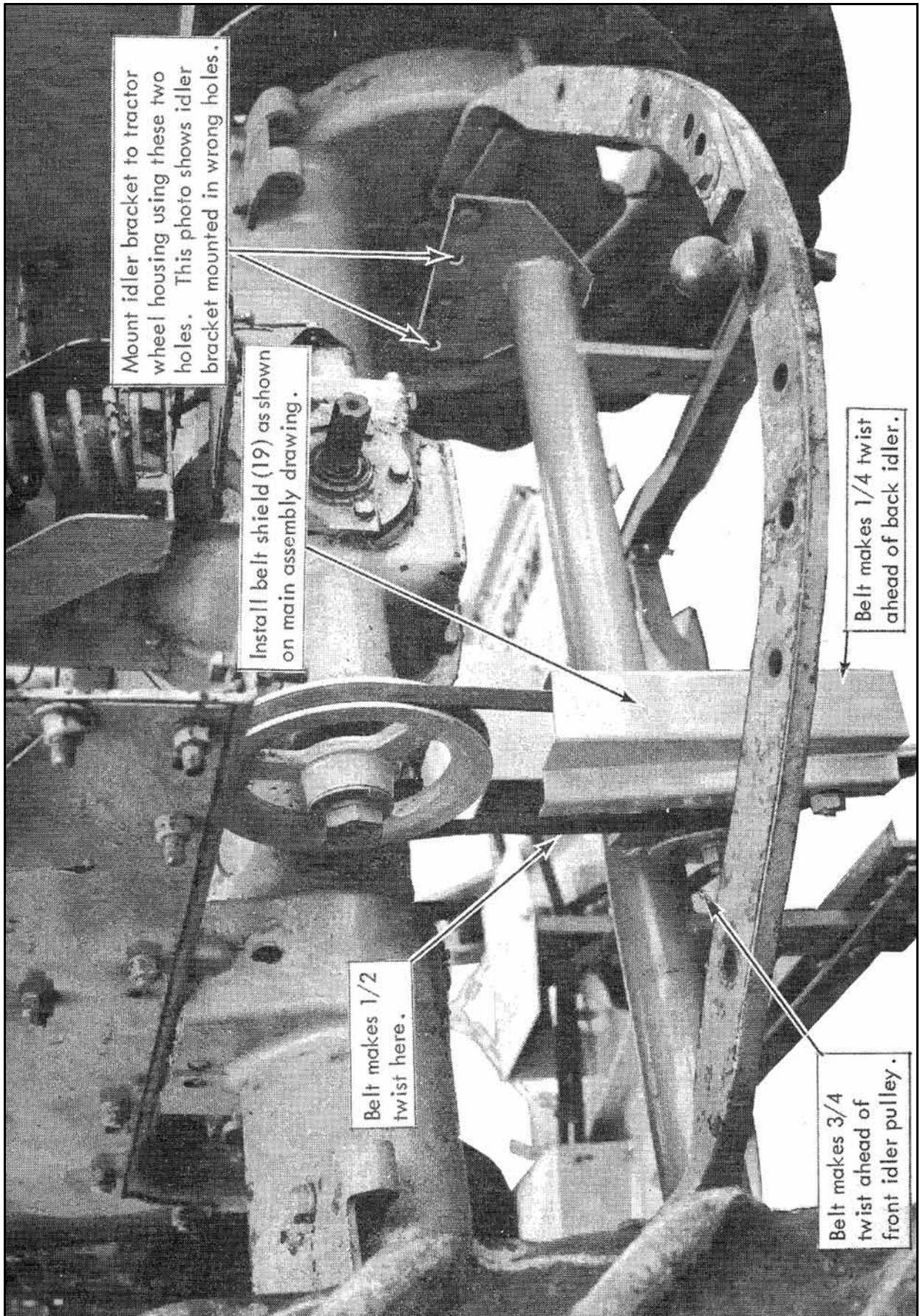


Figure 9. L59-AC/C & L306-AC/C Mounting Frame Assembly Photo

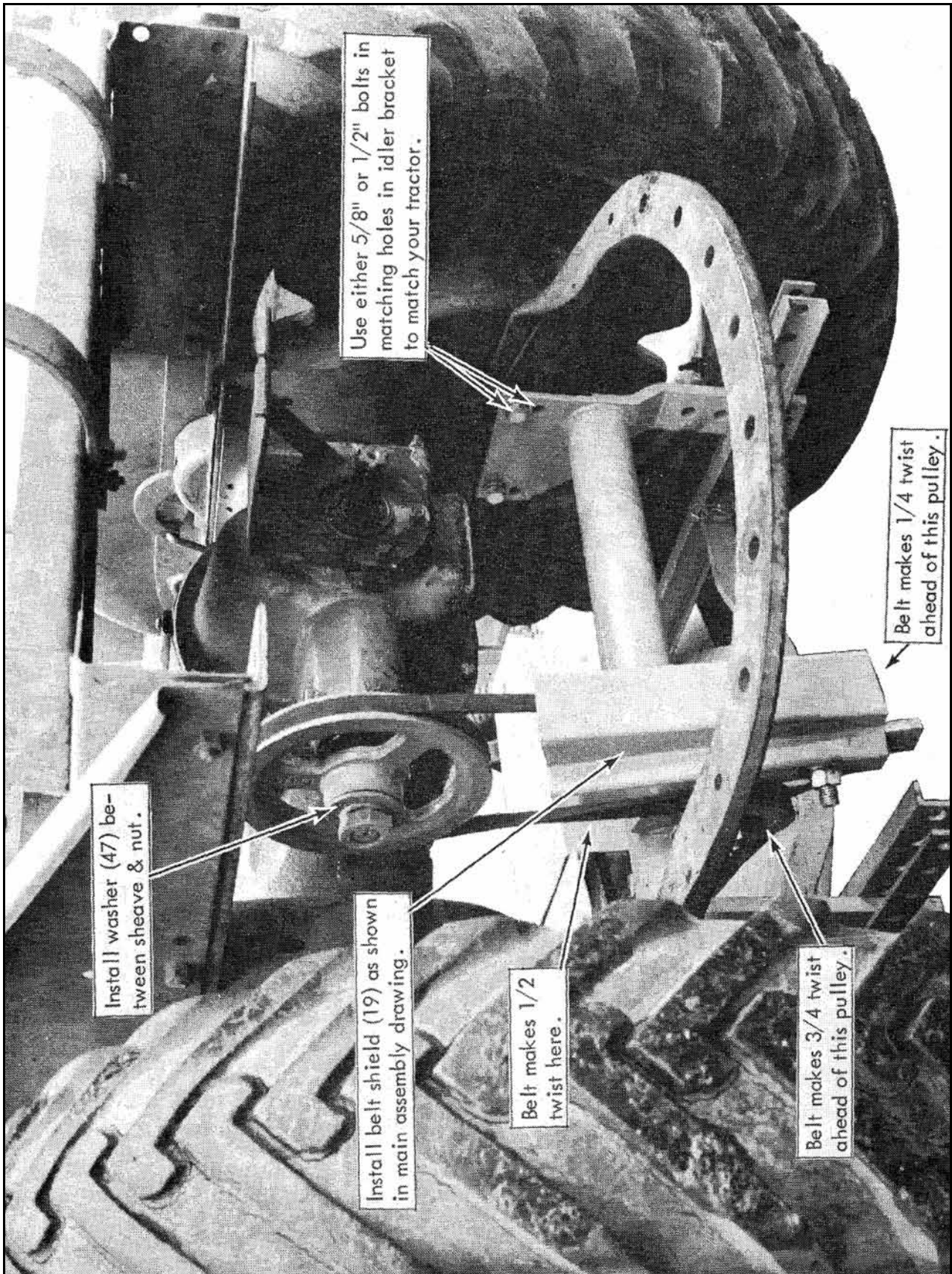


Figure 10. L59-AC/C & L306-AC/C Mounting Frame Assembly Photo

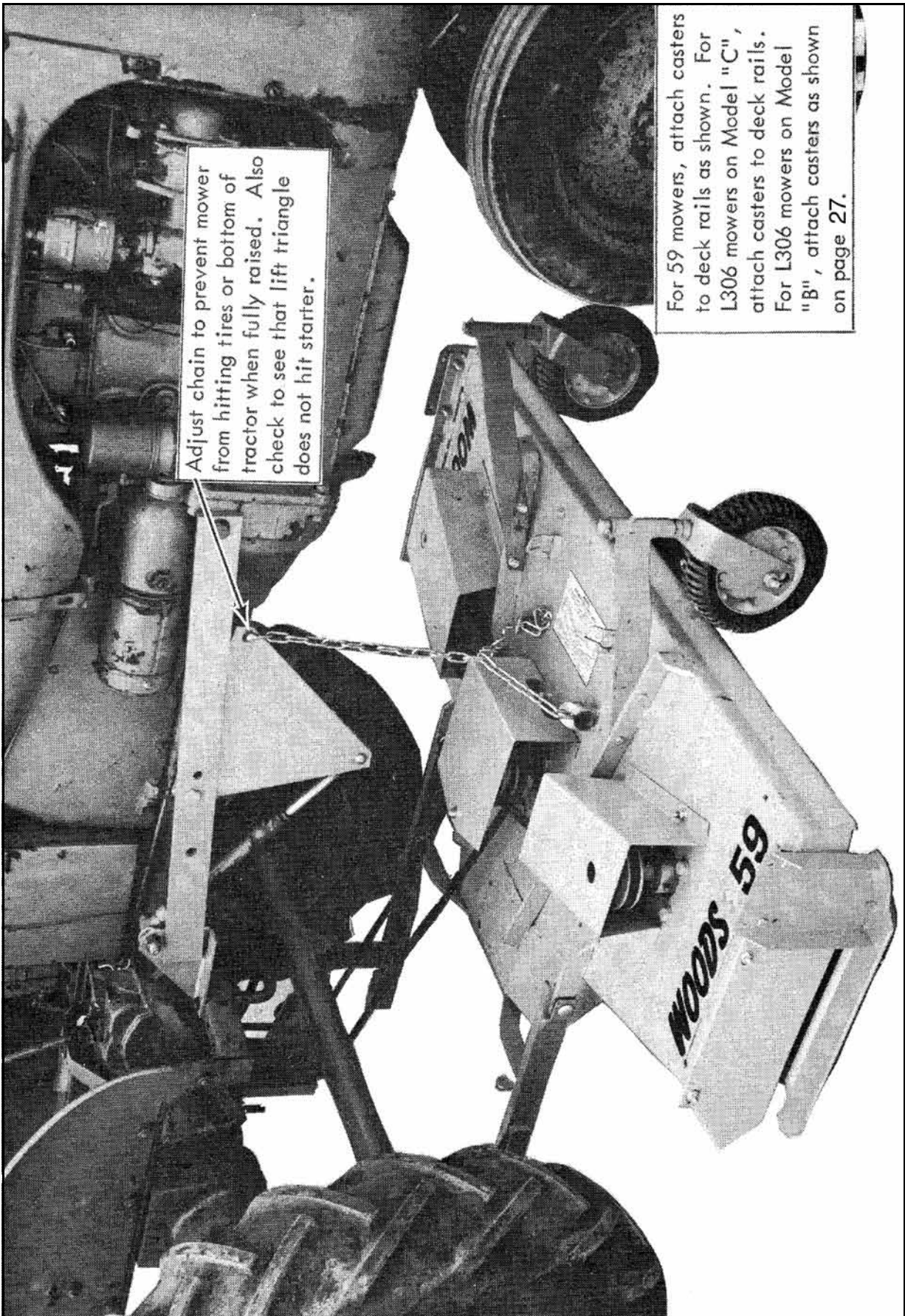


Figure 11. L59-AC/B&C & L306-AC/B&C Hydraulic Lift Assembly Photo

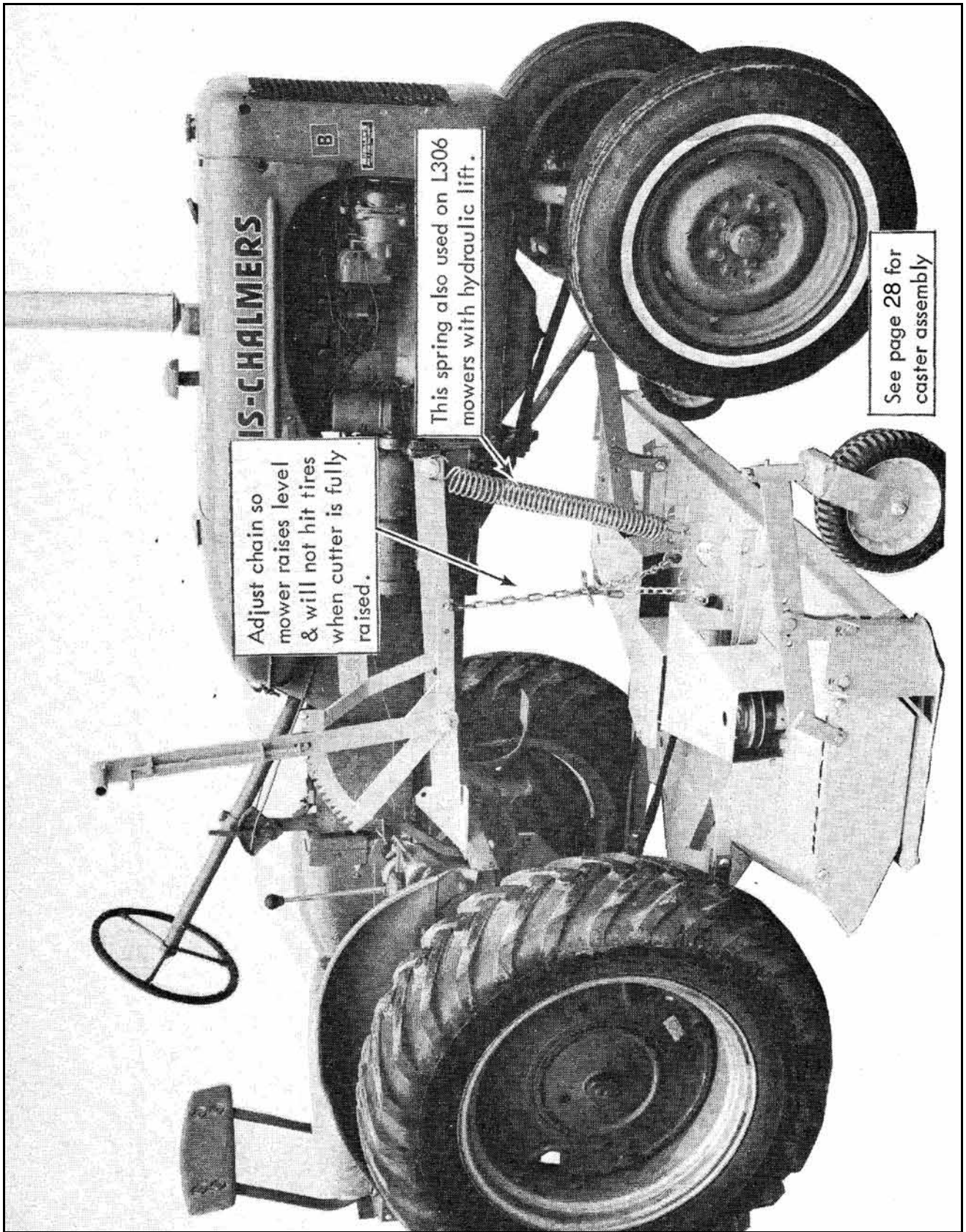
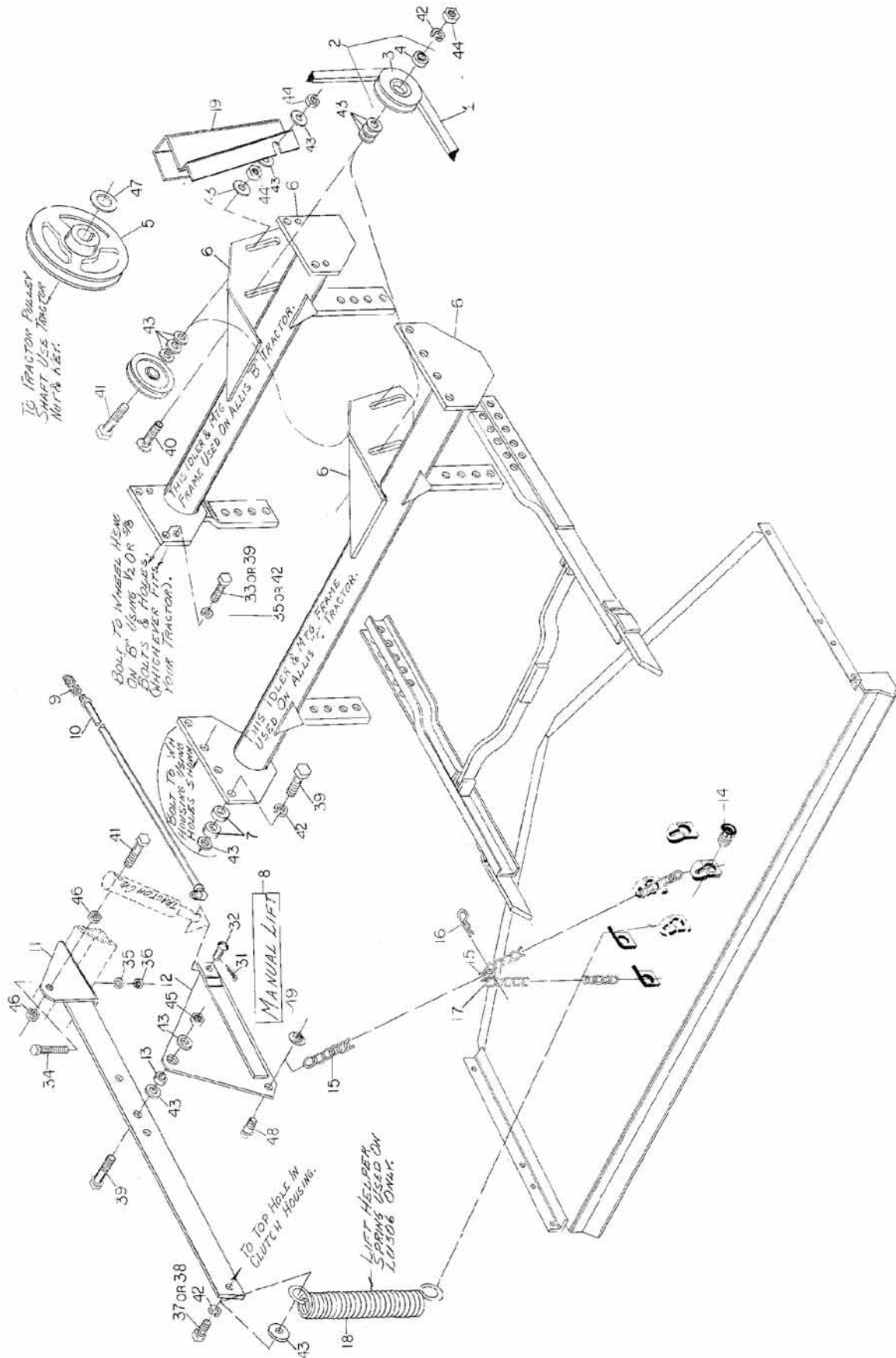


Figure 12. L59-AC/B&C & L306-AC/B&C Manual Lift Assembly Photo

NOTES

L59-AC/B & C & L306-AC/B & C Mounting Frame



18 Parts

29936 (Rev. 5/18/2007)

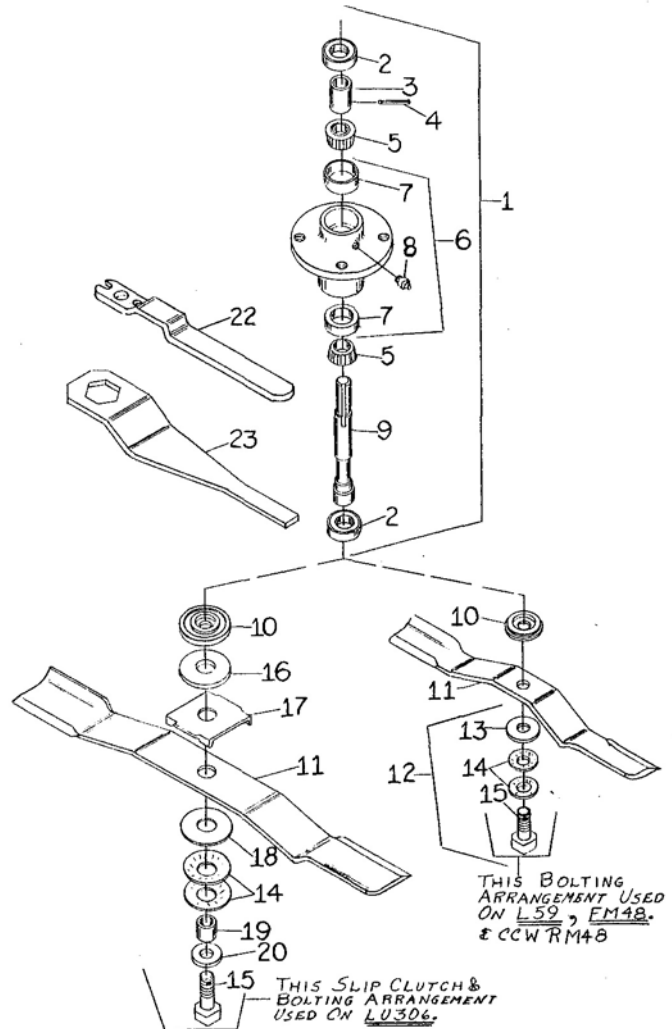
L59-AC/B & C & L306-AC/B & C Mounting Frame

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	3652	1	V-belt, special W188 (for L59) -or-	31	1256 *		3/16 x 1 Cotter pin
1	10859	1	V-belt, special W205 (for L306)	32	7468		7/16 x 1-3/4 Clevis pin
2	4336	2	V-idler sheave with bearing	33	25474 *		1/2 NC x 2-1/4 HHCS GR5 (used on older Allis "B")
3	4335	2	V-idler sheave less bearing	34	3489 *		1/2 NC x 3 HHCS GR5
4	6095	2	Bearing	35	855 *		1/2 Lock washer
5	7451	1	Drive sheave 8B P.D.	36	1093 *		1/2 NC Hex nut
6	9201	1	Idler and mounting frame to fit Allis "C" -or-	37	6268 *		5/8 NC x 1-1/4 HHCS GR5 (used on L59's)
6	9376	1	Idler and mounting frame to fit Allis "B"	38	4548 *		5/8 NC x 1-3/4 HHCS GR5 (used on L306's)
7	7453	4	5/8 x 1-3/8 x 7/16 Thick flat washer	39	12274 *		5/8 NC x 2-1/4 HHCS GR5
8	----	-	Manual lift (see page 22)	40	5836 *		5/8 NC x 2-1/2 Carriage bolts
9	7444	1	1/4 x 1/4 x 45° Swivel street ell (opt)	41	34473 *		5/8 NC x 3 HHCS GR5
10	7443	1	1/4 x 42 One wire braid hyd hose (opt)	42	1286 *		5/8 Lock washer
11	10750	1	Lift support frame	43	692 *		5/8 Flat washer
12	7445	1	Hyd lift triangular assembly (opt)	44	230 *		5/8 NC Hex nut
13	1791	1	5/8 x 1 x 9/16 Hard steel sleeve	45	6239 *		5/8 NC Deformed thread hex nut
14	18336	2	Plastic caplug	46	1598 *		5/8 NC Hex jam nut
15	6911	1	7 Link chain	47	832		1 x 2-1/2 x 7 Washer
16	18270 *	1	3/16 Safety pin	48	12169 *		3/8 NC x 1-1/4 HHCS GR5
17	4154	1	33 Link 3/0 Chain	49	14350 *		3/8 NC Flange lock nut
18	13006	1	Lift holder spring (used on L306 only)				
19	25558	1	Rear belt shield				

* Standard hardware, obtain locally

Spindles and Blades

REF	PART	QTY	DESCRIPTION
1	3761	1	Spindle assembly (for left hand rotation)
2	5089	2	Seal
3	4114	1	Sleeve
4	4115	1	Sel-lock pin
5	4107	2	Bearing cone
6	4117	1	Housing with cups
7	4106	2	Bearing cup
8	1972	1	Grease fitting
9	28897	1	Spindle shaft with left hand thread
10	4110	1	Shoulder washer 2-1/4 diameter (for L59 & FM48) -or-
10	13409	1	Shoulder washer 3 diameter (for L306)
11	5081KT	1	16-13/16 medium suction blade (std on RM48 and FM48) -or-
11	26875KT †	1	16-13/16 Low suction blade (optional on RM48) -or-
11	23825KT	1	20-1/4 Medium suction blade (standard on L59) -or-
11	25997KT †	1	20-1/4 Low suction blade (optional on L59) -or-
11	13404KT	1	24-1/2 Blade (Std on L306) -or-
11	28328KT †	1	24-1/2 Low suction blade (optional on L306)
12	1015826	1	Blade bolt and washer kit (For FM48 & L59)
13	692	1	5/8 Flat washer
14	10635	2	5/8 ID Cup washer (for FM48 & L59)
14	13401	2	1" ID x 2-3/4 OD Cup washer (For L306)
15	10718	1	Special 1-1/2 Long bolt (for FM48 & L59) -or-
15	24184	1	Special 2-3/8 Long bolt (for L306)
16	13402	1	Clutch disk 3" diameter
17	13403	1	Blade stop
18	13405	1	Shim washer
19	12313	1	5/8 ID x 1" OD x 13/16 sleeve, heat treated
20	13451	1	Special heat treated washer
22	4902	1	Spindle lock wrench (used on FM48) -or-
22	2974	1	Spindle lock wrench (used on L59 & L306)
23	3490 ‡	1	Blade bolt wrench



NOTE: Repair shaft 9 and repair sleeve 3 do not have a hole drilled in them for pin 4. After new parts have been assembled and proper bearing adjustment obtained, drill a 3/16" diameter hole through sleeve and shaft. Drive in Sel-lock pin to hold proper bearing adjustment.

NOTE: Left hand blade rotation for "L" series. (See page _ for right hand rotation 59's and yellow RM48's.)

* For maximum suction for difficult mowing.

† For use in sandy areas or where high abrasive wear occurs on fin of standard blade.

‡ Used on mower prior to 1964.

Lift Chain Hook-Up Table

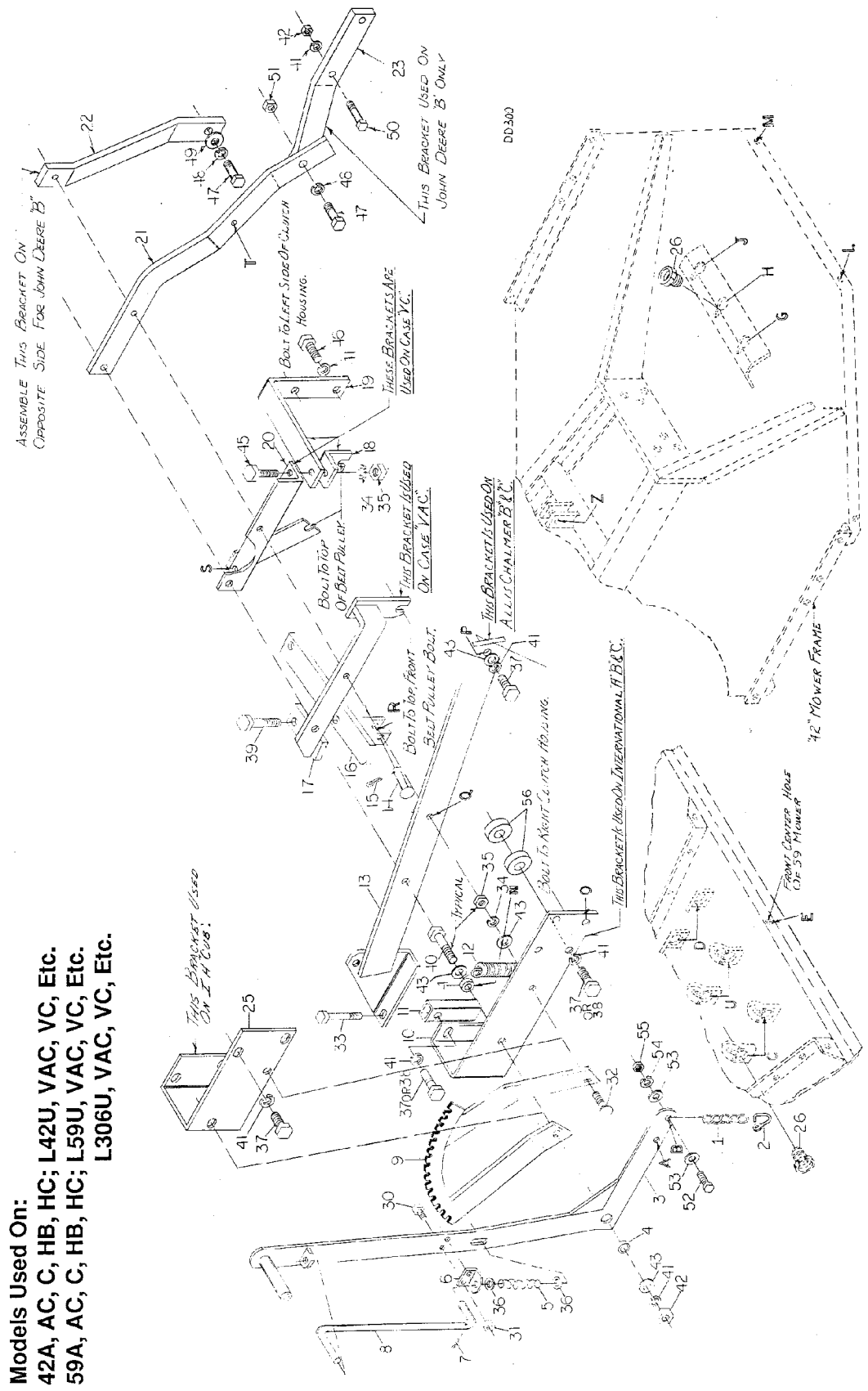
Mower Model Number	Chains Used			Lift Chain Attach Pt		Holes Used for Spring		Special Notes
	Part No	No Used	Description	To Lift Lever Hole	To Holes in Mower	Upper End to Hole Lettered:	Lower End to Hole Lettered:	
42A, HB	4154	1	33 Link Chain	B	H&G	O	See note 4	(10)
L42AC, B&C	4154	1	33 Link Chain	B	G	P	H	(5)
42C	4154	1	33 Link Chain	B	L&M	See note 8	Z	(8)
L42U	17477	1	84" Twisted cut off excess	B	H	T	H	
L42VAC	6673	1	78" Twisted	B	H	R	J	
L42VC	4154	1	33 Link Chain	B	G	S	J	
L59A, 59HB, & L306A	4154 18264	1 1	33 Link Chain 13 Link Chain	A or B Opt	E E	N N	C&D C&D	(1, 3, 8, 10) (1, 3, 8, 10)
59HC	18264	3	13 Link Chain	A or B Opt	E	N	C&D	(1, 3, 8, 9) (1, 3, 8, 9)
L59AC, B&C	4154	1	33 Link Chain	A	C&D	Q	E	(5)
L306AC, B&C	18264	1	13 Link Chain	A	C&D	Q	E	(5)
59C	4154	2	33 Link Chain	A	C&D	See note 8	See note 1,3	(8)
L59U, L306U	17477 18264	1 1	84" Twisted 13 Link Chain	B B	C&D C&D	T T	See note 3 See note 3	(1) (7)
L59VAC, L306VAC	17477	1	84" Twisted	B B	E U	R R	E E	(7)
L59VC, L306VC	4154 18264	1 1	33 Link Chain 13 Link Chain	B B	E U	S S	C&D C&D	(1, 3, 8) (7)

Special Notes (Refer to numbers in parentheses in above table)

1. Hook one 13-link chain between holes "C" & "D".
2. Fasten one 10-link and one 7-link chain together.
3. Hook lower end of spring in crotch chain.
4. Hook spring into chain just above hole "H".
5. Clamp offset end spring under flat washer on out-of-way side of bracket, where indicated.
6. Fasten two 10-link chains together for lift chain.
7. On L306 models, use heavy spring furnished with mower rather than lighter spring furnished with manual lift kit. Hook to a point on tractor so most of mower weight is held by spring which will allow lift to work easier.
8. Hook upper end of spring over bushing (4). Bolt lift chain to lift lever with 3/8 x 2 bolt and nut.
9. Bolt two 13-link chains together for lift chain.
10. On IH "A" lift lever (3) goes inside steering rod. On IH "B" it goes outside steering rod. For IH "B" shim attachment plate (10) out away from tractor using spacer (11), four washers (56) and bolts (38). Lift lever may have to be bent out slightly to clear steering rod.

Manual Height Adjustment

Models Used On:
 42A, AC, C, HB, HC; L42U, VAC, VC, Etc.
 59A, AC, C, HB, HC; L59U, VAC, VC, Etc.
 L306U, VAC, VC, Etc.



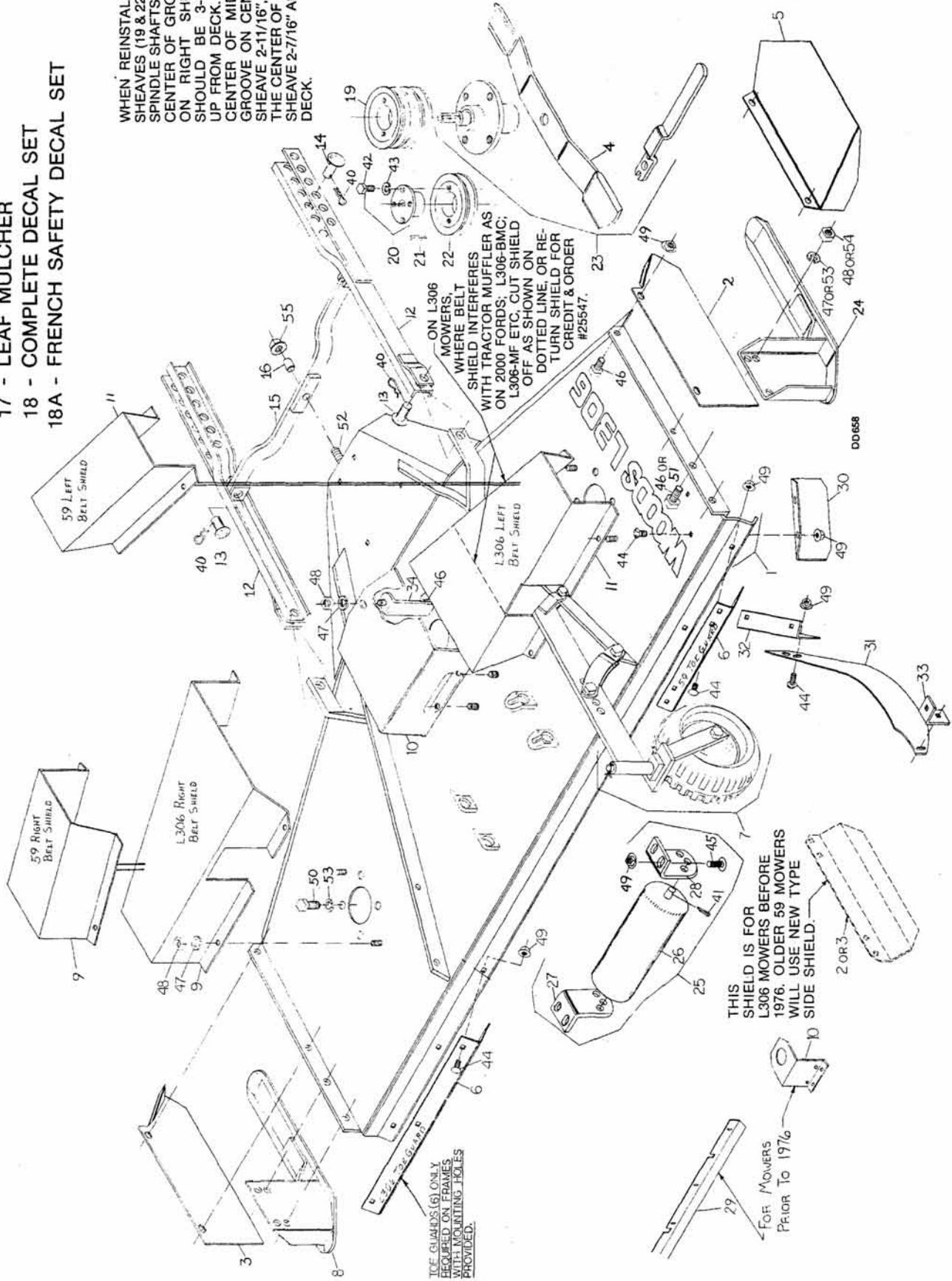
Manual Height Adjustment

REF	PART	QTY	DESCRIPTION	REF	PART	QTY	DESCRIPTION
1	----	-	Chain (see chart for chain used on your mounting)	25	17410	1	IH Cub manual lift mounting plate
2	4155	2-3	1/4 Cold shut repair link	26	18336	2+	Caplug, 1-1/16 - 121D SAE thread
3	10693	1	Manual height adjustment lever assembly	30	2457	*	1/4 NC x 3/4 HHCS GR5
4	484	1-2	5/8 x 1 x 7/16 HT Sleeve	31	6128	*	1/4 NC Hex lock nut
5	10706	1	3-3/8 Long compression spring	32	12735	*	1/2 NC x 1-3/4 Carriage bolt GR5 -or-
6	10701	1	Manual height adjustment clip	32	10284	*	1/2 NC x 2 Carriage bolt
7	3597	* 1	1/8 x 1 Cotter pin	33	3489	*	1/2 NC x 3 HHCS GR5
8	10699	1	Manual height adjustment rod	34	855	*	1/2 Extra-heavy lock washer
9	10702	1	Manual lift sector assembly	35	1093	*	1/2 NC Heavy hex nut
10	9045 NS	1	IHC Manual lift attachment plate (includes hardware & spacer)	36	3598	*	1/2 SAE Flat washer
11	10708	1	IHC Manual height adjustment spacer (used on IHC "B" & "C")	37	6268	*	5/8 NC x 1-1/2 HHCS GR5
12	10707	1	8-1/8 Long extension spring (used on 42's & 59's) -or-	38	12274	*	5/8 NC x 2-1/4 HHCS GR5
12	13006	1	13-1/4 Long extension spring (used on L306's)	39	11854	*	5/8 NC x 2-1/2 HHCS GR8
13	10750	1	Allis Chalmers "B" & "C" lift mounting frame assembly	40	986	*	5/8 x 2-3/4 HHCS GR5
14	409	1	1/2 x 2 Clevis pin	41	1286	*	5/8 Heavy lock washer
15	1256	* 1	3/16 x 1 Cotter pin	42	230	*	5/8 NC Hex nut
16	10735	1	Lift attachment assembly	43	692	*	5/8 Standard flat washer
17	9046	1	Case VAC manual lift mounting	45	24576	*	1/2 NC x 1-3/4 HHCS GR5
18	----	1	Case VC lift mounting lug (no longer available)	46	7832	*	5/8 NC x 1-1/2 HHCS GR5
19	----	1	Case VC manual lift bracket (no longer available)	47	4616	*	3/4 NC x 1-1/2 HHCS GR5
20	----	1	Case VC manual lift weldment (no longer available)	48	2522	*	3/4 Standard lock washer
21	11445	1	Manual lift radius bracket	49	1257	*	3/4 Standard flat washer
22	11446	1	Manual lift bar	50	902	*	5/8 NC x 2 HHCS GR5
23	11489	1	John Deere "B" offset manual lift brace	51	1450	*	3/4 NC Hex nut
24	13450	1	1/4 Keystone connecting link	52	3231	*	3/8 NC x 2 HHCS GR5
				53	565	*	3/8 Standard flat washer
				54	838	*	3/8 Standard lock washer
				55	835	*	3/8 NC Hex nut, plated
				56	25728		5/8 x 2 x 1/2 Flat washer (for IH "B" only)
						*	Obtain locally

59, L59, & L306 Mower Frame Assembly

- 17 - LEAF MULCHER
- 18 - COMPLETE DECAL SET
- 18A - FRENCH SAFETY DECAL SET

WHEN REINSTALLING SHEAVES (19 & 22) ON SPINDLE SHAFTS, THE CENTER OF GROOVE ON RIGHT SHEAVE SHOULD BE 3-1/16" UP FROM DECK. THE CENTER OF MIDDLE GROOVE ON CENTER SHEAVE 2-11/16", AND THE CENTER OF LEFT SHEAVE 2-7/16" ABOVE DECK.



DD 658

24 Parts

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59, L59, & L306 Mower Frame Assembly

REF	Model Red & Yellow Mowers	Model L59 White Mowers	L306 Mowers 1976 & Later	L306 Mowers Prior to 1976	QTY	DESCRIPTION
1	9700	9701	9702	9702	1	Frame only
2	25513	25511	24189	13426	1	Left side shield
3	25512	25510	24188	13426	1	Right side shield
4	6950	23825	13404	13404	3	Blade, medium suction (std.)
	-or-	-or-	-or-	-or-		
4	26559	25997	28328	28328	3	Blade, low suction (opt)
5	26520	26521	26522	-----	1	Side discharge chute

(a) For all 59, L59 models except: GM2, LB, F10, F13, F15, H284, JD85, JD95, K17, K18, K210, K260, S, S55, S-BL, TB, YM; For all L306 models except: AC54, GM2, GM4, H284, JD85, JD95, K22, K24, K210, K260 & S-BL.

(b) For use on 59, L59 models: LB, K17, K18, K210, K260, S55, S-BL, TB, YM; For use on L306 models: AC54, GM2, K22, K24, K210, K260 & S-BL.

(c) For F10, F13, F15, GM4, H284, JD85, JD95, S; See mounting frame assembly drawing for items 12 & 15.

REF	59 & L59 3-Spindle 5' Swath	L306 3-Spindle 6' Swath	QTY	DESCRIPTION
6	26516	25623	2	Front toe guard
7	-----	-----	1pr	Casters (opt) (see page 27)
8	4141	13428	1	Right side skid
9	25506	25528	1	Right belt shield
10	25555	25555	1	Center belt shield (use when front of mower is bent down)
				-or-
10	4130	4130	1	Center belt shield (use when front shield is bolted on mower)
11	25507	25529	1	Left belt shield -or-
11	-----	25547	1	L306 Left belt shield, short
12	13314	23942	2	Channel arms (see a & b)
				-or-
12	18241	23928	2	Channel arms (see b & c)
13	4097	4097	4	5/8 x 1-1/2 Clevis pin
14	410	410	2	5/8 x 1-3/4 Clevis pin
15	3485	3485	1	Crosswise rear support (see a & c) -or-
15	18245	18245	1	Crosswise rear support (see b & c)
16	3504	3504	1	1/2 x 5/8 x 1-1/16 Sleeve, HT
17	-----	-----	1	Leaf mulcher (opt)(see pg 26)
18	5753	13421	1	Complete decal set -or-
18	52311	52311	1	French safety decal set
19	6126	13417	1	Sheave (3-groove)
20	4227	4227	3	H3/4 St bushing with bolts
21	3885	3885	* 3	3/16 x 3/16 x 1-1/4 Key
22	4226	12622	2	Sheave (single-groove)
23	-----	-----	3	Spindle, blade & wrench kit (white, left-hand blade rotation) (see pg 20) -or-
23	-----	-----	3	Spindle, blade & wrench kit (red or yellow, right hand blade rotation) (see pg 20)
24	4142	13429	1	Left side skid

REF	59 & L59 3-Spindle 5' Swath	L306 3-Spindle 6' Swath	QTY	DESCRIPTION
25	24650	24650	1	Front roller complete (opt)
26	24583	24583	1	Front roller, bearing & rod
27	24587	24587	1	Left front roller bracket
28	24586	24586	1	Right front roller bracket
29	5818	-----	1	Front shield (for mowers prior to 1976)
30	25508	-----	† 1	Front corner baffle
31	25509	25533	1	Center baffle
32	25532	25532	1	Rear mounting angle
33	25531	25530	1	Front mounting lug
34	25557	25557	1	Center belt shield bracket

REF	PART	DESCRIPTION
40	2688	* 1/8 Safety pin
41	1256	* 3/16 x 1 Cotter pin
42	10378	* 1/4 NC x 1 HHCS GR5
43	1985	* 1/4 Standard lock washer
44	24597	* 3/8 NC x 3/4 Carriage bolt
45	6697	* 3/8 NC x 1 Carriage bolt
46	839	* 3/8 NC x 1 HHCS GR5
47	838	* 3/8 Standard lock washer
48	835	* 3/8 NC Hex nut, plated
49	14350	3/8 NC Flange hex lock nut
50	4119	1/2 NF x 1 HHCS GR5
51	6100	* 1/2 NC x 1-1/4 HHCS GR5
52	3699	* 1/2 NC x 2 HHCS GR5
53	855	* 1/2 Extra-heavy lock washer
54	1093	1/2 NC Heavy hex nut
55	11900	1/2 NC Flange hex lock nut

* Standard hardware, obtain locally

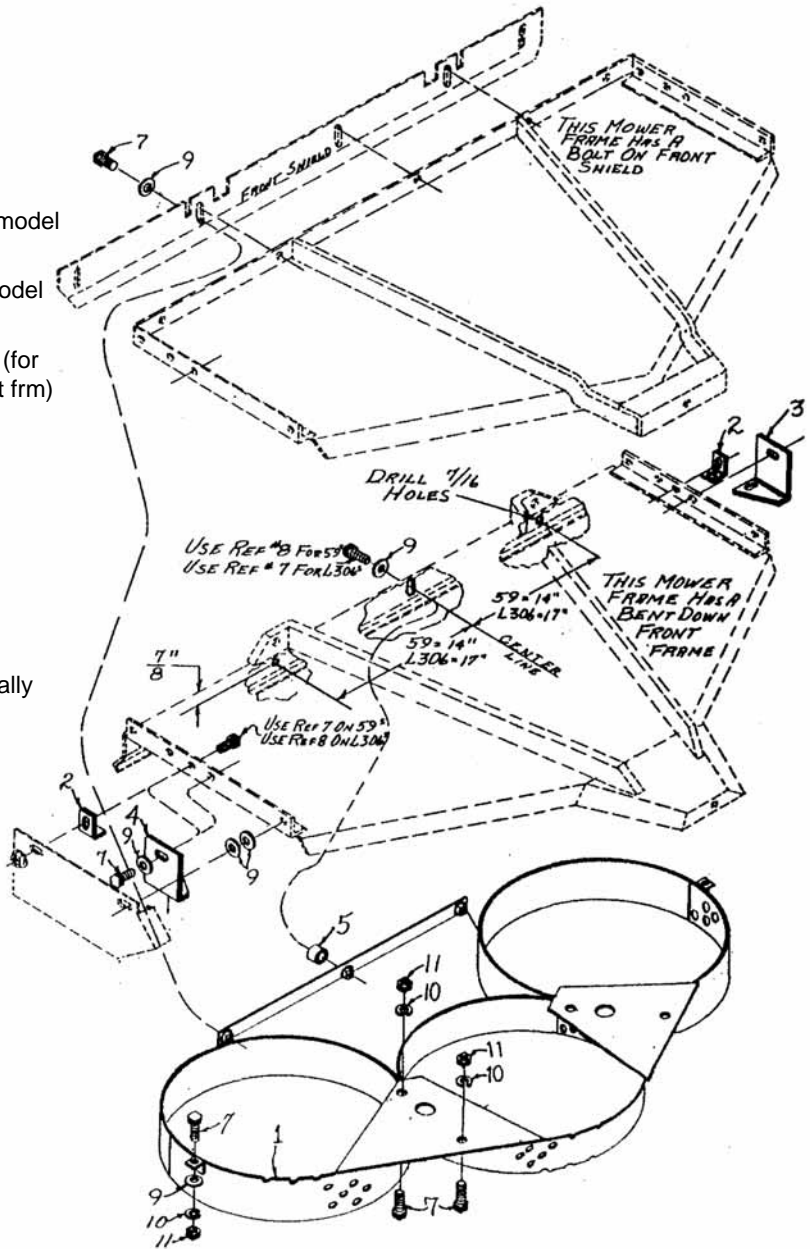
† For mowers sold after 1976. Mower frame will have front of mower formed down. Before this time, mower had a bolt-on front shield.

59 & L306 Leaf Mulcher

REF	PART	DESCRIPTION
A	7080	Model 59 Leaf mulcher -or-
A	13482	Model L306 Leaf mulcher
1	----	N/S leaf mulcher weldment
2	7076	Angle lug (for model 59)
3	13224	Right attachment bracket (for model L306)
4	13225	Left attachment bracket (for model L306)
5	23218	3/8 Schedule 40 pipe 5/8 long (for use only on 59 w/bent down frt frm)
7	839 *	3/8 NC x 1 HHCS GR5
8	976 *	3/8 NC x 1-1/2 HHCS GR5
9	565 *	3/8 Flat washer
10	838 *	3/8 Lock washer
11	835 *	3/8 NC Hex nut

* Standard hardware, obtain locally

Operation: To do a satisfactory job of leaf mulching, the mower should be adjusted so blades are about 1-1/2" above ground and the back of the mower slightly lower than the front. The mower should be run at full rpm with tractor in first or second gear.



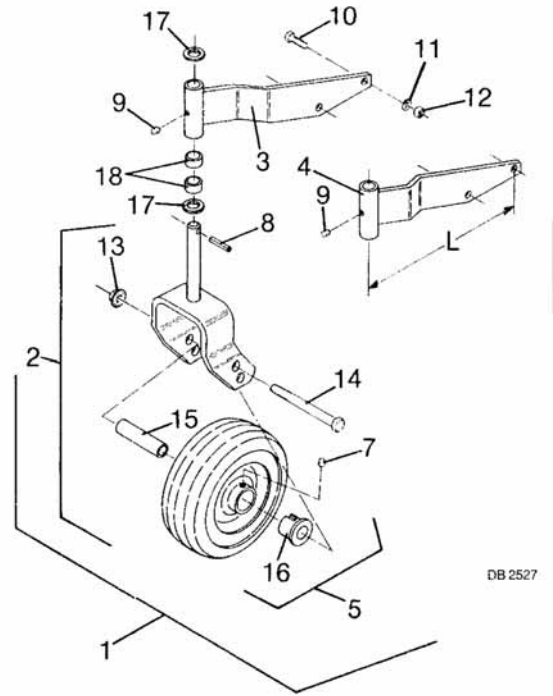
26 Parts

29936 (Rev. 5/18/2007)

59 Casters

REF	PART	QTY	DESCRIPTION
1	29750	1	59 & L59 Right and left caster bundle
2	12243	1	Caster yoke (includes bolt, nut & 2 sleeves)
3	29746	a 1	Right caster arm asy, 13-5/32" long -or-
3	6761	a 1	Right caster arm, 16-5/32" long
4	29747	a 1	Left caster arm asy, 13-5/32" long -or-
4	18424	a 1	Left caster arm, 16-5/32" long
5	19703	1	8" HD Caster wheel with sleeve
7	-----	* 1	Straight 1/4 self-tapping grease fitting (for steel wheel) -or-
7	195	* 1	Straight 1/8P thread grease fitting (for polyethylene wheel)
8	21020	1	1/4 x 1-1/4 Spirol pin -or-
8	1285	* 1	1/4 x 1-1/2 Cotter pin
9	12296	* 1	1/4 - 28 Straight grease fitting, 15/32" long
10	12169	* 2	3/8 NC x 1-1/4 HHCS GR5
11	838	* 2	3/8 Standard lock washer
12	835	* 2	3/8 NC Hex nut, plated
13	765	* 1	1/2 NC Hex lock nut
14	23479	1	1/2 NC x 5 HHCS GR5
15	29368	c 1	1/2 x 3/4 OD x 3-3/8 Sleeve -or-
15	12242	c 1	17 GA Wall x 5/8 OD x 3-3/8 tube
16	29375	b 2	3/4 Bore flanged bearing for 1-1/8 hole -or-
16	4228	b 2	5/8 Bore flanged bearing for 1-3/8 hole -or-
16	2905	b 2	5/8 Bore flanged bearing for 1-1/8 -or-
16	65578	b 2	3/4 Bore x 1.385 flanged wheel bear- ing with groove
17	22240	2	3/4 x 1-3/16 x 10 GA Washer
18	4181	2	25/32 x 1 x 1/2 Heat-treated sleeve

* Standard hardware, obtain locally



L306 Casters

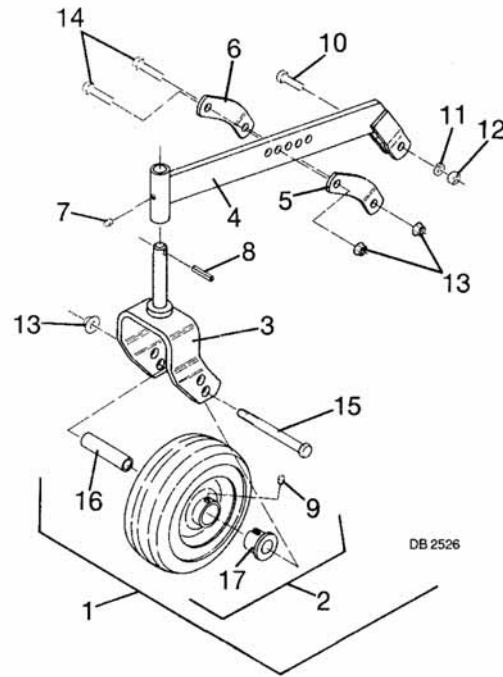
REF	PART	QTY	DESCRIPTION
A	24095	-	L306 Caster assembly bundle
1	13400	1	Caster assembly
2	15638	1	10" Caster wheel with sleeve
3	23857	1	Caster wheel yoke assembly
4	13435	1	Caster arm assembly
5	13444	1	Left caster adjustment bracket
6	13444	1	Right caster adjustment bracket
7	1972	* 1	1/4 - 28 Straight thread grease fitting, 15/32" L
8	21020	1	1/4 x 1-1/4 Spirol pin -or-
8	1285	* 1	1/4 x 1-1/2 Cotter pin
9	-----	* 1	Straight 1/4 self-tapping grease fitting (for steel wheel) -or-
9	195	* 1	Straight 1/8P thread grease fitting (for polyethylene wheel)
10	976	* 1	3/8 NC x 1-1/2 HHCS GR5
11	838	* 1	3/8 Standard lock washer
12	835	* 1	3/8 NC Hex nut, plated
13	11900	* 3	1/2 NC Flanged hex lock nut
14	24576	2	1/2 NC x 1-3/4 HHCS GR5
15	23479	1	1/2 NC x 5 HHCS GR5
16	29368	c 1	1/2 x 3/4 OD x 3-3/8 Sleeve, HT -or-
16	12242	c 1	17 GA Wall x 5/8 OD x 3-3/8 tube
17	29375	b 2	3/4 Bore flanged bearing for 1-1/8 hole -or-
17	4228	b 2	5/8 Bore flanged bearing for 1-3/8 hole -or-
17	2905	b 2	5/8 Bore flanged bearing for 1-1/8 hole -or-
17	65578	b 2	3/4 Bore x 1.385 flanged wheel bearing with groove

* Standard hardware, obtain locally

a For proper caster arm identification, refer to dimension "L" as shown on drawing. The caster arms may be used on either side to obtain best fit.

b Measure old bearing.

c Measure outside diameter of old sleeve.



A - CASTER BUNDLE

BOLT TORQUE CHART

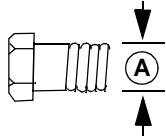
Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual parts list.

Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for metric hardware.

Make sure fastener threads are clean and you start thread engagement properly.

All torque values are given to specifications used on hardware defined by SAE J1701 MAR 99 & J1701M JUL 96.



SAE SERIES TORQUE CHART



SAE Grade 2
(No Dashes)

SAE Bolt Head Identification

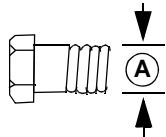


SAE Grade 5
(3 Radial Dashes)



SAE Grade 8
(6 Radial Dashes)

Ⓐ Diameter (Inches)	Wrench Size	MARKING ON HEAD					
		SAE 2		SAE 5		SAE 8	
		lbs-ft	N-m	lbs-ft	N-m	lbs-ft	N-m
1/4"	7/16"	6	8	10	13	14	18
5/16"	1/2"	12	17	19	26	27	37
3/8"	9/16"	23	31	35	47	49	67
7/16"	5/8"	36	48	55	75	78	106
1/2"	3/4"	55	75	85	115	120	163
9/16"	13/16"	78	106	121	164	171	232
5/8"	15/16"	110	149	170	230	240	325
3/4"	1-1/8"	192	261	297	403	420	569
7/8"	1-5/16"	306	416	474	642	669	907
1"	1-1/2"	467	634	722	979	1020	1383



METRIC SERIES TORQUE CHART



8.8
Metric
Grade 8.8

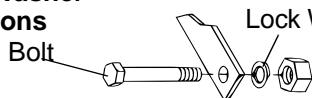
Metric Bolt Head Identification



10.9
Metric
Grade 10.9

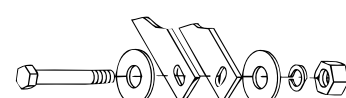
Ⓐ Diameter & Thread Pitch (Millimeters)	Wrench Size	COARSE THREAD				FINE THREAD				Ⓐ Diameter & Thread Pitch (Millimeters)
		MARKING ON HEAD								
		Metric 8.8		Metric 10.9		Metric 8.8		Metric 10.9		
		N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	N-m	lbs-ft	
6 x 1.0	10 mm	8	6	11	8	8	6	11	8	6 x 1.0
8 x 1.25	13 mm	20	15	27	20	21	16	29	22	8 x 1.0
10 x 1.5	16 mm	39	29	54	40	41	30	57	42	10 x 1.25
12 x 1.75	18 mm	68	50	94	70	75	55	103	76	12 x 1.25
14 x 2.0	21 mm	109	80	151	111	118	87	163	120	14 x 1.5
16 x 2.0	24 mm	169	125	234	173	181	133	250	184	16 x 1.5
18 x 2.5	27 mm	234	172	323	239	263	194	363	268	18 x 1.5
20 x 2.5	30 mm	330	244	457	337	367	270	507	374	20 x 1.5
22 x 2.5	34 mm	451	332	623	460	495	365	684	505	22 x 1.5
24 x 3.0	36 mm	571	421	790	583	623	459	861	635	24 x 2.0
30 x 3.0	46 mm	1175	867	1626	1199	1258	928	1740	1283	30 x 2.0

Typical Washer Installations



Lock Washer

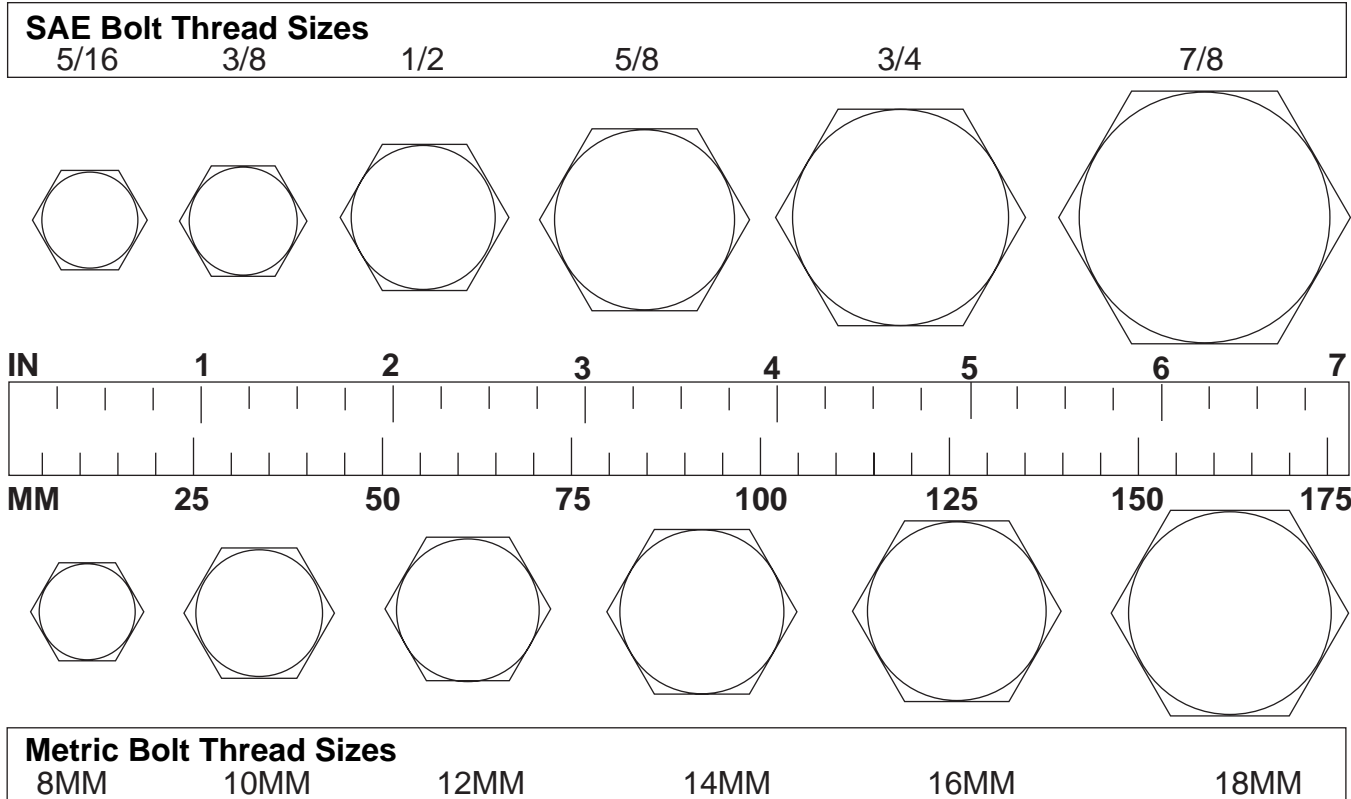
Flat Washer



8/9/00

BOLT SIZE CHART

NOTE: Chart shows bolt thread sizes and corresponding head (wrench) sizes for standard SAE and metric bolts.



ABBREVIATIONS

AG Agriculture
 ASABE American Society of Agricultural & Biological Engineers (formerly ASAE)
 ASAE American Society of Agricultural Engineers
 ATF Automatic Transmission Fluid
 BSPP British Standard Pipe Parallel
 BSPTM British Standard Pipe Tapered Male
 CV Constant Velocity
 CCW Counter-Clockwise
 CW Clockwise
 F Female
 FT Full Thread
 GA Gauge
 GR (5, etc.) Grade (5, etc.)
 HHCS Hex Head Cap Screw
 HT Heat-Treated
 JIC Joint Industry Council 37° Degree Flare
 LH Left Hand
 LT Left
 m Meter
 mm Millimeter
 M Male

MPa Mega Pascal
 N Newton
 NC National Coarse
 NF National Fine
 NPSM National Pipe Straight Mechanical
 NPT National Pipe Tapered
 NPT SWF National Pipe Tapered Swivel Female
 ORBM O-Ring Boss - Male
 P Pitch
 PBY Power-Beyond
 psi Pounds per Square Inch
 PTO Power Take Off
 QD Quick Disconnect
 RH Right Hand
 ROPS Roll-Over Protective Structure
 RPM Revolutions Per Minute
 RT Right
 SAE Society of Automotive Engineers
 UNC Unified Coarse
 UNF Unified Fine
 UNS Unified Special

WARRANTY

(All Models Except Mow'n Machine™ Zero-Turn Mowers and Woods Boundary™ Utility Vehicles)

Please Enter Information Below and Save for Future Reference.

Date Purchased: _____ From (Dealer): _____
 Model Number: _____ Serial Number: _____

Woods Equipment Company ("WOODS") warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

Woods backhoe models BH70-X, BH80-X, and BH90-X are warranted for two (2) years from the date of delivery to the original purchaser.

The warranty periods for specific parts or conditions are listed below:

Part or Condition Warranted	Model Number	Duration (from date of delivery to the original purchaser)
Gearbox components	BW1260, BW1800	8 years
	BB48X, BB60X, BB72X, BB84X, BB600X, BB720X, BB840X, BB6000X, BB7200X, BB8400X, DS1260, DSO1260, DS1440, TS1680, BW126-2, BW180-2	6 years
	PHD25, PHD35, PHD65, PHD95, 2162, 3240, DS96, DS120, RCC42, RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, 7144RD-2, 9180RD-2, 9204RD-2, S15CD, S20CD, S22CD, S25CD, S27CD	5 years
	RDC54, RD60, RD72	3 years (1 year if used in rental or commercial applications)
Blade spindles	RM550-2, RM660-2, RM990-3, PRD6000, PRD7200, PRD8400, 7144RD-2, 9180RD-2, 9204RD-2	3 years
Rust-through	BB600, BB720, BB840, BB6000, BB7200, BB8400, BW126-2, BW180-2, BW1260, BW1800, 2162, 3240, DS1260, DSO1260, DS1440, TS1680	10 years

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than WOODS, a WOODS authorized dealer or distributor, and/or a WOODS authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through WOODS.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

WOODS makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by WOODS. Warranties for these items, if any, are provided separately by their respective manufacturers.

WOODS' obligation under this Warranty is limited to, at WOODS' option, the repair or replacement, free of charge, of the product if WOODS, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. **The product must be returned to WOODS with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.** WOODS shall complete such repair or replacement within a reasonable time after WOODS receives the product. **THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.**

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This Warranty is subject to any existing conditions of supply which may directly affect WOODS' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, WOODS, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

Answers to any questions regarding warranty service and locations may be obtained by contacting:

Woods Equipment Company

2606 South Illinois Route 2
 Post Office Box 1000
 Oregon, Illinois 61061

800-319-6637 tel
 800-399-6637 fax
 www.WoodsEquipment.com



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BMP®
CENTRAL FABRICATORS®
GANNON®
GILL®
WAIN-ROY®
WOODS®



WARRANTY

(Replacement Parts For All Models Except Mow'n Machine™
Zero-Turn Mowers and Woods Boundary™ Utility Vehicles)

Woods Equipment Company ("WOODS") warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser with the exception of V-belts, which will be free of defect in material and workmanship for a period of 12 months.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of WOODS, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

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