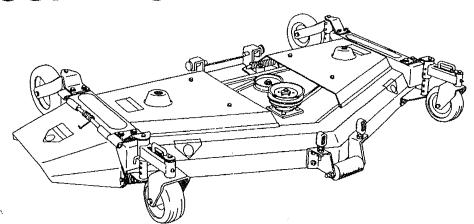


# Owner's Manual

# 60" MOWING DECK FOR SUPER GARDEN TRACTORS



# INSTALLATION AND MAINTENANCE INSTRUCTIONS

Model Number 190-325-100

Important:
Read Safety Rules and Instructions Carefully

Thank you for purchasing an American-built product

CUB CADET CORPORATION • P.O. BOX 360930 • CLEVELAND, OHIO 44136

PRINTED IN U.S.A. FORM NO. 772-9021



# LIMITED WARRANTY

Proper maintenance of your Cub Cadet equipment is the owner's responsibility. Follow the instructions in your owner's manual for correct lubricants and maintenance schedule. Your Cub Cadet dealer carries a complete line of quality lubricants and filters for your equipments engine, transmission, chassis and attachments.

RIDING MOWERS, LAWN TRACTORS, GARDEN TRACTORS, CUB CADET ATTACHMENTS AND HOME MAINTENANCE PRODUCTS.

#### FIRST YEAR

This limited warranty for residential and commercial users, covers any defect in material or workmanship in your Cub Cadet equipment for one year from the date of purchase for the first user purchaser.

Batteries have a one year prorated limited warranty with 100% replacement during the first three months.

We will replace or repair any part or parts without charge through your authorized Cub Cadet dealer.

#### SECOND YEAR

This limited warranty, for residential users only, covers any defects in material or workmanship in the drive train for two years from the date of purchase for the first user purchaser.

The drive train consists of the engine, engine cradle, drive shaft, drive shaft clutch, all parts enclosed by the transmission housing, rear axle housing, brakes and electric power take off (if so equipped). V-belts used for either the traction drive or any attachments are covered for one year only.

#### ITEMS NOT COVERED

The warranty does not cover routine maintenance items such as lubricants, filters (oil, fuel, air and hydraulic), cleaning, tuneups, brake and/or clutch inspection, adjustments made as part of normal maintenance, blade sharpening, set-up, abuse, accidents and normal wear. It does not cover incidental costs such as transporting your equipment to and from the dealer, telephone charges or renting a product temporarily to replace a warranted product.

There is no other express warranty.

#### HOW TO OBTAIN SERVICE

Contact your authorized Cub Cadet servicing dealer who sold you your Cub Cadet equipment. If this dealer is not available see the Consumer Yellow Pages under "lawn mowers" for the name of a dealer near you.

If you need further assistance in finding an authorized Cub Cadet servicing dealer, write or telephone:

Cub Cadet Corporation
Post Office Box 360930
Cleveland, Ohio 44136
Attn: Customer Service

Telephone: (216) 273-4550

#### **HOW DOES STATE LAW APPLY?**

This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

The three spindle, center mounted 60 inch rotary mower is designed for use on Cub Cadet tractors. The mower is quick detachable by the use of two spring loaded pins and two bayonet type hangers.

The mower extends beyond the tractor wheels to permit cutting close to trees, fences, shrubbery, buildings, drive and walkway edges, etc.

The mower is driven by a v-belt from the engine mounted power takeoff clutch. The clutch is operated by means of a switch on the instrument panel.

A heavy duty v-belt connects the three spindles and a spring loaded belt tightener maintains proper belt tension.

The blade spindle bearings are automotive type ball bearings that can be re-lubricated and are carefully enclosed and protected by seals.

The three cutting blades are designed to create a suction to lift the grass and hold it for an even cut.

Raising and lowering of the mower is done by means of the tractor power lift.

The lift linkage provides and maintains a true parallel lift for the mower. The cutting height ranges from approximately 1 to 4 inches.

Gauge wheels allow the mower to follow the contour of the ground and minimize ground scalping. The mower front roller also aids in minimizing scalping.

The lift linkage with mounting brackets can be quickly detached by removing the quick attachable cotter pins and releasing the tractor quick hitch.

The mower can be removed quickly by pulling the rear support pins, moving the mower forward off the front hangers and taking off the belt.

The tapered discharge chute terminates at a large, protected opening for efficient air and material flow across the front of the mower to minimize clogging.

A Completing Package (Mule Drive) is required to mount the 60" mower to the Super Garden Tractors. Completing Package No. 190-385-100.

Keep the machine in good operating condition and keep safety devices in place. Use guards or shields as instructed.





#### KEEP AWAY!

#### **DISCHARGE CHUTE MISSING**

THROWN OBJECTS OR BLADE CONTACT CAN CAUSE SERIOUS INJURY OR DEATH

KEEP DISCHARGE CHUTE IN PLACE

20383

# A DANGER

#### KEEP AWAY!

SHIELD MISSING FROM THIS AREA

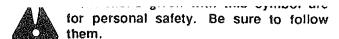
TO AVOID SERIOUS INJURY,
DO NOT OPERATE WITHOUT THIS & ALL OTHER
SHIELDS IN PLACE & IN GOOD CONDITION.

2038











To reduce the potential for any injury, comply with the following safety instructions. Failure to comply with the instructions may result in personal injury.

# SAFE OPERATION PRACTICES FOR RIDING VEHICLES

- Read the owner's manual carefully in its entirety before attempting to assemble or operate this unit. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
- This unit is a precision piece of power equipment not a plaything. Therefore, exercise extreme caution at all times.
- 3. Know the controls and how to stop quickly READ THE OWNER'S MANUAL.
- Do not allow children to operate vehicle. Do not allow adults to operate it without proper instruction. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
- No one should operate this unit while intoxicated or while taking medication which impairs the senses or reactions.
- 6. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in
  b the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
- To prevent injury, do not carry passengers or give rides. Keep children, pets and bystanders out of the area while mowing. Only the operator should ride on the unit and he/she should ride only in the seat.
- 8. Check overhead clearance carefully before driving under power lines, guy wires, bridges or low hanging tree branches; before entering or leaving buildings, or in any other situation where the operator may be struck or pulled from the unit. Such negligence could result in serious injury.
- To maintain control of the unit and reduce the possibility of upset or collision, operate the tractor smoothly. Avoid erratic operation and excessive speed.

- 10. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower. Although the area of operation should be completely cleared of foreign objects, a small object may have been overlooked and could be accidentally thrown by the mower in any direction and cause injury.
- Clear work area of objects which might be picked up and thrown in any direction by the mower and cause injury.
- 12. Stop the blade(s) when crossing gravel drives, walks or roads.
- 13. Disengage all attachment clutches and shift into neutral before attempting to start engine.
- 14. Disengage power to attachment(s) and stop engine before leaving operating position.
- 15. Do not put hands or feet near or under rotating parts. Stay clear of the discharge opening at all times as the rotating blade(s) can cause injury.
- 16. Disengage power to attachment(s) and stop engine before making any repairs or adjustments. Disconnect the spark plug wire(s) and keep the wire(s) away from the plug to prevent accidental starting.
- 17. Before attempting to unclog the mower or discharge chute, stop the engine. The mower blade(s) may continue to rotate for a few seconds after the engine is shut off. Therefore, be sure the blade(s) have stopped completely. Disconnect the spark plug wire(s) and keep the wire(s) away from the plug to prevent accidental starting.
- 18. Disengage power to attachment(s) when transporting or not in use.
- Take all possible precautions when leaving vehicle unattended such as disengaging power-takeoff, lowering attachments, shifting into neutral,

- setting parking brake, stopping engine and removing key.
- 20. Do not stop or start suddenly when going uphill or downhill. Mow up and down face of steep slopes; never across the face. Use extreme caution if it is necessary to drive the tractor up an incline or back the tractor down an incline because the front of the tractor could lift and rapidly flip over backward which could cause serious injury.
- 21. Reduce speed on slopes and in sharp turns to prevent tipping or loss of control. Always keep the tractor in gear when going down steep hills to take advantage of engine braking action.
- 22. Stay alert for holes in terrain and other hidden hazards.
- 23. Use care when pulling loads or using heavy equipment.
  - A. Use only approved drawbar hitch points.
  - B. Limit loads to those you can safely control.
  - C. Do not turn sharply. Use care when backing.
  - Use counterweight(s) or wheel weights when suggested in owner's manual.
- Watch out for traffic when crossing or near roadways.
- 25. When using any attachments, never direct discharge of material toward bystanders. Do not allow anyone near vehicle while in operation.
- 26. Handle fuel with care. It is highly flammable.
  - A. Use approved fuel container.
  - B. Never remove cap or add fuel to a running or hot engine or fill fuel tank indoors. Wipe up spilled fuel.
  - C. Open doors if engine is run in garage. Exhaust fumes are dangerous. Do not run engine indoors.
- 27. Keep the vehicle and attachments in good operating condition, and keep safety devices in place. Use guards as instructed in operator's manual.

- 28. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
- 29. Never store the equipment with fuel in the tank inside a building where fumes may reach an open flame or spark. Allow engine to cool before storing in any enclosure.
- 30. To reduce fire hazard, keep engine free of grass, leaves or excessive grease.
- 31. The vehicle and attachment should be stopped and inspected for damage after striking a foreign object. The damage should be repaired before restarting and operating the equipment.
- 32. Do not change the engine governor settings or overspeed the engine.
- 33. When using the vehicle with mower, proceed as follows:
  - A. Mow only in daylight or in good artificial light.
  - B. Never make a cutting height adjustment while engine is running if operator must dismount to do so.
  - C. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher.
  - D. Check blade mounting bolts for proper tightness at frequent intervals.
- 34. Check grass catcher bags frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.
- 35. Look behind to make sure the area is clear before placing the transmission in reverse and continue looking behind while backing up. Disengage blades before shifting into reverse and backing up.
- 36. This unit should not be driven up a ramp onto a trailer or truck under power, because the unit could tip over, causing serious personal injury. The unit must be pushed manually to load properly.

### **ADJUSTING AND OPERATING**

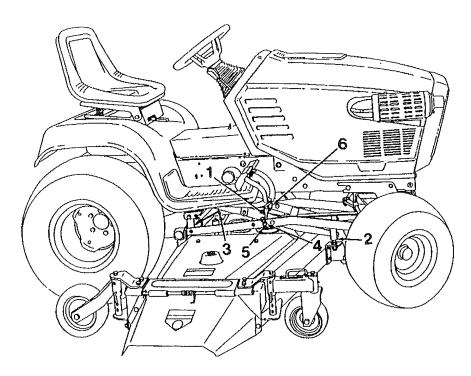


Figure 1
60" MOWER (RIGHT HAND SIDE)

- 1. Adjustable Lift Link
- 2. Support Hanger
- 3. Tractor Up Stop (Part of Tractor Frame)
- 4. Lift Anchor
- 5. Lock Nut
- 6. Tractor Lift Arms

#### LEVEL ADJUSTMENT



## WARNING

Before making any adjustments, turn off the machine, remove the key, and engage the brake pedal lock to avoid accidental starting and injury.

Remove the spark plug high tension leads.



Check the tires for proper inflation before making a level and height adjustment. To level the mower, put the tractor on a level surface. A hard surface such as a garage floor or sidewalk is preferable.

#### Lift Height Adjustment

The 60 inch mower is equipped with two adjustable lift links and lift anchors. This feature allows the mower to be adjusted from side to side for level lifting.

Adjust lift links so that the mower frame has an 1/8" clearance from the tractor up stops when the deck is completely raised.

#### To Adjust Lift Height

Lower the mower to the ground, turn lock nuts on adjustable lift links equally at each side of mower up or down as required to obtain the 1/8 inch clearance at the upstops when mower is raised for transport.



**NOTE:** After rotary mower is installed on tractor make sure tie rod and drag link of tractor steering system is not interfered with by any part of the rotary mower. If necessary make adjustments to steering system to clear rotary mower.

#### TRANSPORT POSITION

Mower should be raised to transport position anytime your tractor/mower is being transported from one location to another. The power take-off electric clutch should be disengaged (OFF) before mower is put into transport position.

#### STARTING THE MOWER

Follow power take-off engagement instructions in your tractor owner's manual.

#### STOPPING THE MOWER

Move the power take-off switch to "OFF" position.

#### **BELT TENSION**



### WARNING

Stop the tractor, disengage the power takeoff, place all controls in neutral, engage the brake pedal lock and stop the engine before performing any maintenance.

After first (1) hour and every ten hours thereafter of running, check the V-belt tension and adjust if necessary.

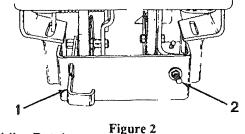
To adjust the belt for proper tension tighten the V-belt tension bolt so the notch on the idler ratchet is in line with the slot on the cover as shown in Figure 2.

See decal on front cover.



#### NOTE

After the first half hour of mower, check the belt for proper tension.



Idler Ratchet

2. Tension Bolt

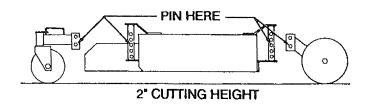
#### **CUTTING HEIGHT**

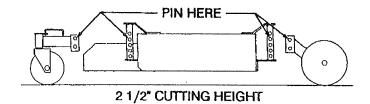
Mowing height adjustment is made by pinning gauge wheels and caster wheels into various adjustment holes for desired height of cut. All heights shown are approximate.

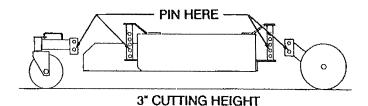


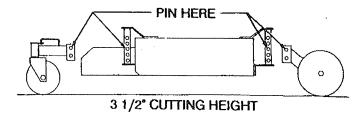
PIN HERE

1 1/2" CUTTING HEIGHT









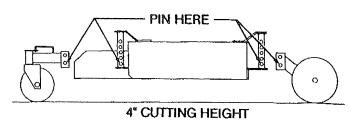


Figure 3



When installing a new belt always check the condition of the pulleys and if they are not in satisfactory condition, replace them with new pulleys available at your authorized dealer.

#### **MOWER FLOAT**

Gauge wheels and caster wheels will allow mower to "float" or move up and down under tractor on uneven terrain.



To return the mower to a specific position, note position of the lift height indicator in relation to the height position decal before raising or lowering the mower. See Figure 4.

To install or remove the belt, the idler ratchet handle must be pushed in and up to lock handle in notch. This will provide the necessary clearance for the belt to be slipped over the pulley flanges. With the lift frame in the lowest position and the mower removed, the belt can be pulled between the idlers and off the tractor.

After installing the drive belt, release the ratchet handle and adjust the belt as previously described.



Be sure narrow dimension of belt is in bottom of all pulley grooves.



Stop the tractor, disengage the power takeoff, place all controls in neutral, engage the brake pedal lock and stop the engine before performing any maintenance.

After the first 10 hours of operation check and retighten, if necessary, all nuts and bolts on the machine. Tighten the hex bolts used to attach the blades to the spindles to 85 ft-lbs. (115 N·m) of torque. Tighten the hex bolts used to attach the pulley to the spindles to 85 ft-lbs. (115 N·m) of torque. Check and tighten, if necessary, all nuts and bolts once a year thereafter.

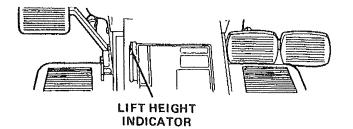


Figure 4

#### **CLEANING AND BLADE CARE**



#### WARNING

Be careful not to cut yourself when sharpening the blades or cleaning the underside of the mower.

Clean the underside of the mower at the end of the mowing season and when the build-up of cut material on the underside is noticed. Also, remove the belt cover and remove any accumulation.

The cutting blades must be kept sharp at all times.



Sharpen ends evenly so that the blades remain balanced and the same angle of sharpness is maintained. However, if the cutting edge of a blade has been sharpened to within 3/8-inch of the wind wings, it is recommended that new blades be installed. New blades are available at your authorized dealer.

# BLADE REMOVAL AND REPLACEMENT

When removing blades, unscrew hex bolt holding

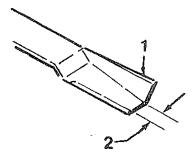


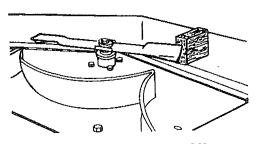
Figure 5

- 1. Wind Wing
- 2. Dimension is 3/8-inch

blade by turning bolt counter-clockwise. Herriove bolt, lockwasher, flat washer and blade.



A block of wood may be placed between mower housing and cutting edge of blade to assist in blade removal and replacement.



WOOD BLOCK IN POSITION

Figure 6

to replace places, install new places to underside vispindles making sure they are assembled so that the cutting edges are in the direction of rotation with the wind wings pointed upward. Secure blade to spindle with bolt, lock washer and flat washer. Tighten blade bolts with 85 ft-lbs. (115 N·m) of torque.

#### LUBRICATION

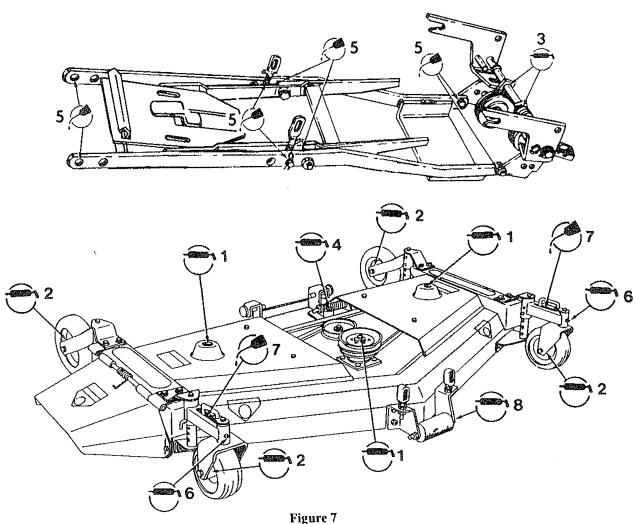
Under normal use lubrication is only required every 50 hours of operation, or at least once a year.



When greasing spindles use a sufficient amount to flush out the old grease and dirt.

#### **GREASE LUBRICATION**

Use Cub Cadet 251H EP grease or equivalent.



- 1. Three Spindle Assemblies
- Gauge Wheels 2.
- Idler Pivot Shaft of Front Hanger

- 4. Idler Pivot
- All Pivot Points of Lift System
- 6. Caster Wheel Pivot
- 7. Caster Centering Spring Guide
- Roller (front and rear Rollers)

#### **OIL LUBRICATION**

Use light weight lubricating oil. Use oil sparingly as large accumulations of grease or oil will collect dust and fine particles of grass.

#### SPINDLE V-BELT REPLACEMENT



Stop the tractor, disengage the power takeoff, place all controls in neutral, engage the brake pedal lock and stop the engine before performing any maintenance.

Spindle V-belt is kept under constant tension and no adjustment is required. When spring loaded, idler reaches the end of its arc, stop pin will touch idler stop, the V-belt is then worn out and will need to be replaced.

To replace V-belt, remove bolts holding V-belt covers in place. Lift inside end of covers slightly and pull cover to inside to remove. Belease tension and remove front mule drive V-belt from top groove of

center blade pulley. Remove old V-belt from deck housing. Place new V-belt around blade pulley on left side of deck, around bottom groove of center blade pulley, and around spring loaded idler pulley, pull V-belt against tension of spring loaded idler and wrap V-belt onto blade pulley on right side of deck. Replace front mule drive V-belt and guards to deck.

#### MOWING



To avoid possible injury, do not allow anyone in the area opposite the discharge chute while mowing. Although the area has been

while mowing. Although the area has been supposedly cleared of foreign objects, small objects may have been overlooked and may be discharged by the mower.

For best results, it is recommended that the first two laps should be cut with the discharge being thrown towards the center. After the first two laps, reverse the direction to throw the discharge to the outside for

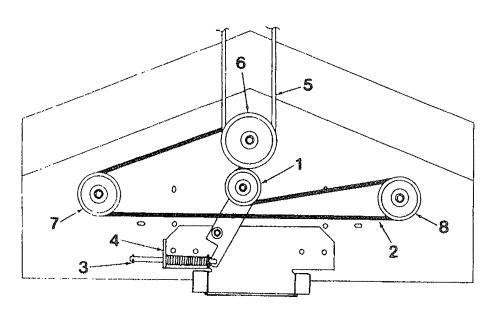


Figure 8

- 1. Spring Loaded idler Pulley
- 2. Spindle V-Belt
- 3. Stop Pin
- 4. Idler Stop
- 5. Front Mule Drive V-Belt
- 6. Center Blade Pulley
- 7. Blade Pulley (Left Hand) Side of Deck
- 8. Blade Pulley (Right Hand) Side of Deck

the balance of cutting. This will give a better appearance to the lawn.

Do not cut the grass too short, as the mower will tend to scalp the grass. Short grass invites weed growth, and yellows quickly in dry weather.

Mowing should be done with the engine at full throttle. Do not mow at high ground speed.

During certain times of the year and under some conditions, the mower may leave streaks of uncut material.

Streaking may occur when attempting to mow heavy weeds and tall grass. Under these conditions it may be necessary to go back over the cut area a second time to get a clean cut.

The following practices will help eliminate streaking:

- 1. Mow the area more often so the grass doesn't get too tall and heavy.
- Operate the tractor at full throttle and lower forward speeds.
- 3. Keep the blades sharp and replace blades when worn.
- Following the mowing procedure shown in Figure
   9.

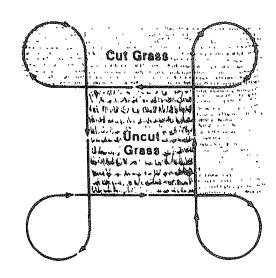


Figure 9



Never direct discharge of material toward bystanders nor allow anyone near the machine while in operation.

# **ASSEMBLY INSTRUCTIONS**

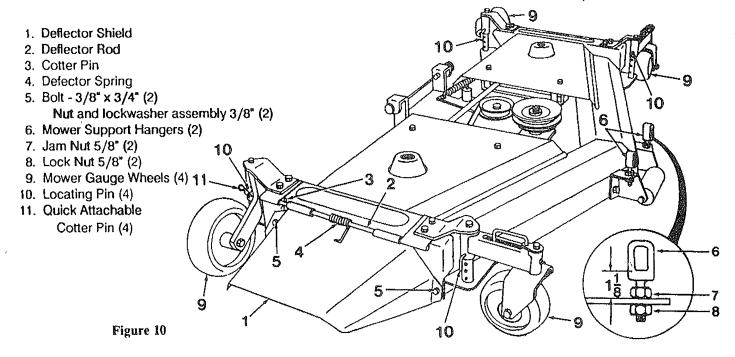
#### STEP 1. MOWER PREPARATION

Attach deflector shield to the mower housing with defector rod, deflector spring, and cotter pin.

Secure defector shield in down cutting position with two bolts  $(3/8" \times 3/4")$  and two nut and lockwasher assemblies (3/8").

Attach mower support hangers to mower housing with two jam nuts (5/8") and two lock nuts (5/8") approximately 1 1/8 from roller bracket to bottom of slot.

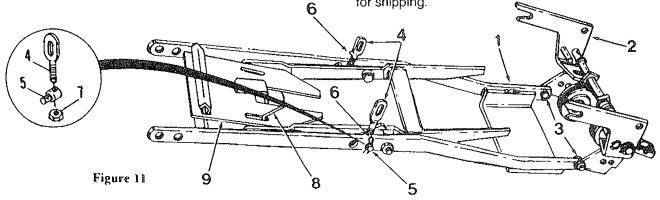
Reposition mower gauge wheels 90 degrees to mower housing. Assemble locating pin through wheel mounting tube and lock locating pin in place with quick attachable cotter pin.



#### STEP 2. LIFT FRAME PREPARATION

Attach front hanger to the mower frame with two shoulder bolts (3/8"), two washers (3/8") lock) and two nuts (3/8")

Insert lift link anchor through hole in each side of mower frame and secure with quick attachable cotter pin. Insert adjustable lift link through left link anchor and turn lock nut onto adjustable lift link until approximately 1/2 Inch of thread extends from lock nut. Cut plastic tie that holds stabilizer plate to mower frame for shipping.



- 1. Mower Frame
- 2. Front Hanger
- Shoulder Bolt 3/8" (2)
   Nut 3/8" (2)
   Washer 3/8" Lock (2)
- 4. Adjustable Lift Link (2)
- 5. Lift Link Anchor (2)
- 6. Quick Attachable Cotter Pin (2)
- 7. Lock Nut (2)
- 8. Plastic Tie
- 9. Stabilizer Plate

# STEP 3. ATTACHING FRONT HANGER AND CENTER FRAME BAR

Slide mower frame and front hanger under tractor.

Lift up on front hanger, pull the quick latch handle downward to the unlock position and push the front hanger against the shoulder bolts. At the same time, push the quick latch pins into the receiver. Push the quick hitch handle upward into the lock position.

Start tractor engine and lower tractor lift system. Engage the center frame bar with the cross shaft located under the tractor making sure stabilizer plate is positioned between the center frame and the cross shaft.

Raise the mower frame on both sides, assemble adjustable link onto tractor rock shaft, secure with washer and quick attachable cotter pin.

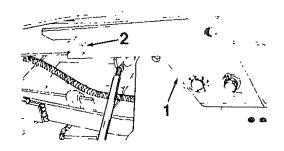


Figure 12
RIGHT SIDE VIEW
Left Hand Opposite

#### 1. Front Hanger

2. Shoulder Bolt

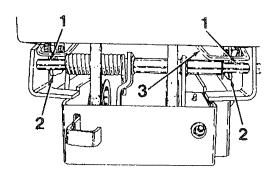


Figure 13
FRONT OF TRACTOR

- 1. Quick Latch Pins
- 3. Quick Latch Handle
- 2. Latch Receiver

### CENTER FRAME BAR

Engage the center frame bar with the cross shaft located under the tractor.

Lift frame on both sides, assemble adjustable link into rockshaft, secure with washer and quick attachable cotter pin.

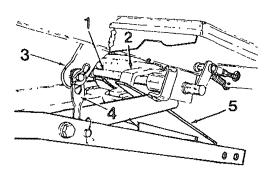
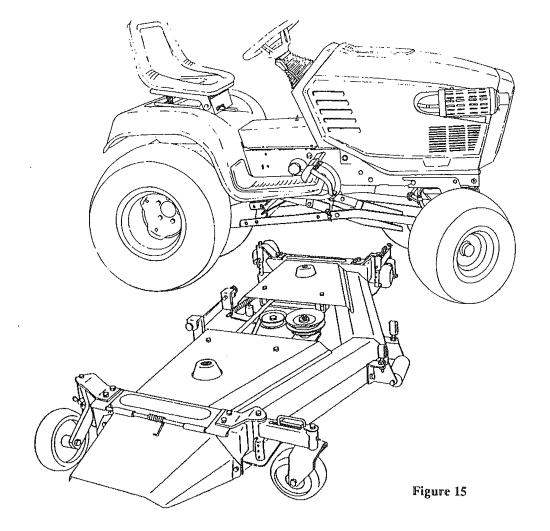


Figure 14
LEFT SIDE VIEW

- Cross Shaft
   Center Frame Bar
- 3. Rockshaft
- 4. Adjustable Lift Link
- 5. Stabilizer Plate



#### STEP 4. ATTACHING MOWER ASSEMBLY

Start tractor engine and raise tractor lift system to the up position. Move tractor to the left hand side of the mower deck and turn tractor wheels all the way to the left, set tractor parking brake and shut off tractor engine.

Roll mower deck under tractor and position mower support hangers in front of mower center frame.

Start tractor engine and lower lift system to align mower center frame with slots in mower support hangers.

Shut off tractor engine, release parking brake and roll tractor forward sliding each leg of the mower center frame into the mower support hangers.

Align the holes in the rear of the mower frame with the quick pins of the mower deck and release.

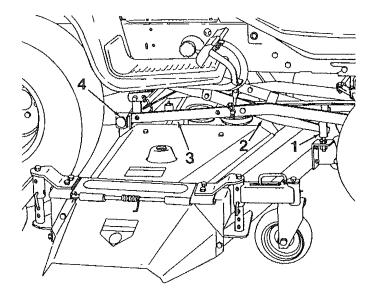


Figure 16

- 1. Mower Support Hangers
- 2. Mower Center Frame
- 3. Mower Frame
- 4. Quick Pins

#### STEP 5. DRIVE BELT INSTALLATION

To install the mule drive V-belt, the idler ratchet handle must be pushed in and up to lock handle in notch. This will provide the necessary clearance for the mule drive V-belt to be slipped over the pulley flanges.

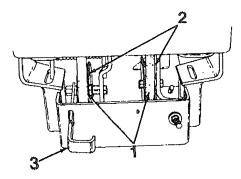


Figure 17

- 1. Mule Drive V-Beit
- 3. Ratchet Handle
- 2. Idler Pulleys

To remove the grille insert on tractors with Serial No. 799,999 and below, pull the top of the grille insert forward. Lift the grille insert up removing the tabs from the bottom of the grille housing. Lower the grille insert so the springs rest on the bottom of the grille housing.



The retaining springs will keep the grille in this retracted position. Do not remove the springs.

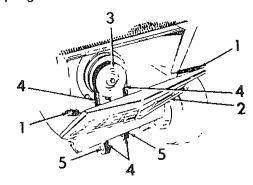


Figure 18

- 1. Retaining Springs
- 2. Grille Insert
- 4. Drive Belt
  5. Idler Pulleys
- 3. Power Take-Off Pulley

To remove the grille insert on tractors with Serial No. 800,000 and above, push down on the top of the grille insert and pull forward. Lift the grille insert up removing the tabs from the bottom of the grille housing.

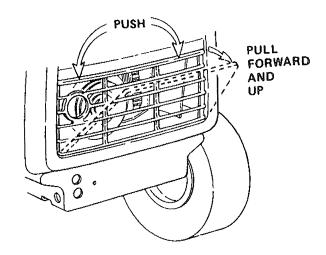


Figure 19



On diesel units Model No. 1572 and 1772, you must reach under the grill to attach V-belt (radiator not shown).

Pull the mule drive V-belt upward from under the front hanger, over the power take-off pulley and route the V-belt around the idler pulleys. The narrow dimension of the V-belt must be in the bottom of the pulley grooves.

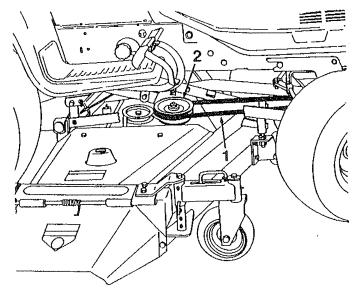


Figure 20

#### 1. Mule Drive V-Belt

#### 2. Mower Pulley

Wrap the mule drive V-belt around the mower pulley and release the ratch handle to apply spring tension to idler pulleys.

Replace the grille insert in reverse order of removal.

## STEP 6. POSITION MOWER DECK WHEELS

Start tractor engine and raise mower deck. Reposition the front and rear gauge wheel of the mower deck to forward position.

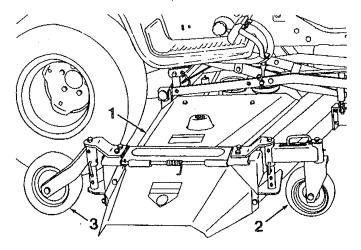


Figure 21

- 1. Mower Deck
- Front Gauge Wheel
   Rear Gauge Wheel