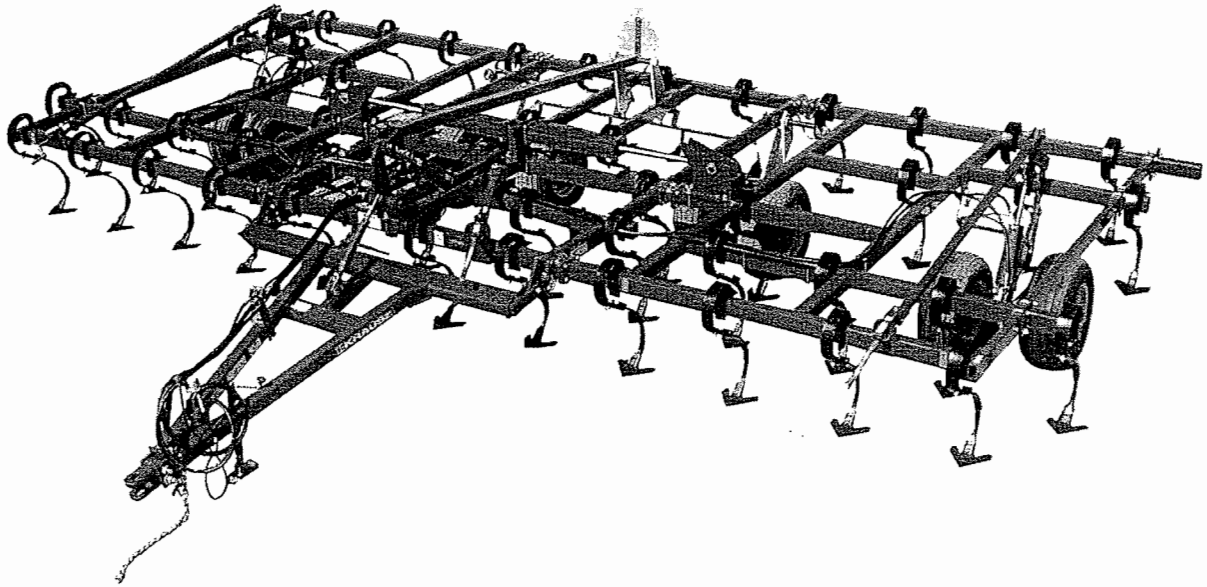


OWNERS'S MANUAL

AUG 2000

5600HR



HIGH RESIDUE FLEX-WING FIELD CULTIVATOR

5600HR SERIES

KRAUSE

305 SOUTH MONROE STREET / P.O. BOX

HUTCHINSON, KANSAS 67504-2707

Congratulations

You have just purchased a quality designed and manufactured Krause tillage tool. Advanced features have been designed into the implement for modern farming operations. As with any investment, a return is expected, and the return received from this investment will be in the form of maximum tillage performance during many years of dependable service.

In order to maintain quality performance of the new Krause implement, it is important that all of the information in the manual be reviewed and studied carefully before operation. The contents provide operating instructions, maintenance instructions, and information on how to make adjustments.

SAFETY ALERT SYMBOL



**BE ALERT TO THE POSSIBILITY OF
PERSONAL INJURY. THIS SYMBOL
IDENTIFIES IMPORTANT SAFETY
MESSAGES. CAREFULLY READ THE
MESSAGE THAT FOLLOWS.**

MODEL NUMBER _____ SERIAL NUMBER _____

PURCHASE RECORD -- DATE _____

A note to our customers, parts managers and dealers:

This manual has been prepared to assist you in the proper use, daily care, and operation of your new Krause equipment. It contains specific information on the many built-in features of your equipment, the accessories and options that are available, general specifications, and instructions for making minor adjustments.

Read this manual carefully before operating your Krause equipment, and keep it in a convenient location for later reference.

In order to ensure that you have the most current owner's manual available for your implement, we have added a revision code to each manual. Please note the information listed below and specify when placing service calls or ordering parts.

Manual for Model: 5600HR

This manual covers models beginning with Serial No. 1076

Owner's Manual #: 5620-1

Parts Manual #: 5620-2

Rev.:

ISSUED TO:

ISSUED BY:

Owner's Name

Krause Dealer

Mailing Address

City

City

State

State

Date of Purchase



Warranty Policy

(Krause Serial Numbered Wholegoods purchased subsequent to 7/1/99)

Note: All warranty work must be accomplished by a Krause Corporation Authorized Service Center rated to perform maintenance on Krause Corporation Products.

A. KRAUSE CORPORATION ("KRAUSE") LIMITED WARRANTY.

- (1) Subject to the limitations and conditions hereinafter set forth, Krause warrants, at the time of delivery by Krause to be free from (i) defects in materials or workmanship, and (ii) defects in design that in the view of the state of the art as of the date of manufacture should have been foreseen provided, however, that the defect must be discovered and reported to Krause within the periods specified as follows. For a period of one year all new serial numbered production agricultural units covered by this warranty; for a period of thirty-six (36) months the tongue weldment, center frame weldment, wing frame weldments, disc harrow gang bearings and K-Tine field cultivator shanks.
- (2) Krause does not warrant disc blades, tires, chisel shanks, hydraulic cylinders, accessories and other parts not manufactured by it, but supplied with or as a part of its products. Krause will, however, obtain and pass on any adjustments provided by the manufacturers of such parts under these manufacturer's warranties.
- (3) The entire extent of Krause's liability shall be limited to that of either reimbursing Buyer for its costs of purchasing a rebuilt, over-hauled or repaired part from either Krause or a proper Krause Authorized Service Center or, at Krause's election, reimbursing buyer for its costs of having the part repaired at a proper Krause Authorized Service Center. If Krause elects not to repair the part and if neither a rebuilt, over-hauled or repaired part is, in Krause's opinion, timely available then Krause will reimburse buyer for its costs of purchasing a new part from either Krause or a proper Krause Authorized Service Center. The labor necessary to remove from the product such part or parts and to install in the product such part or parts, as well as any repair made as the result of improper installations by Krause, shall be covered by this warranty, provided the work is performed at a proper Krause Authorized Service Center.★ If return of the defective part is required, it must be returned shipping prepaid to Krause. Krause's limited warranty will apply to any part repaired or replaced by a proper Krause Authorized Service Center pursuant to Krause's Limited Warranty: however, the applicable warranty for such part repaired or replaced shall be limited to the unexpired portion of Krause's Limited Warranty described in paragraph (1) or (2) above, as applicable. In other words, the warranty period of the part repaired or replaced does not start over from the date of reinstallation.

★[Krause Corporation will repair or replace, free of charge, any part of the product found to be defective, within the specified warranty periods, after an inspection of the part has deemed it to be defective. Inspection must be performed by an authorized agent of Krause Corporation, or returned to the Krause factory for inspection and disposition. Warranty labor will be considered during the first year of warranty only. Krause Corporation will establish and publish an hourly flat rate for shop labor and reimbursement during the first year of the warranty period. Krause Corporation does not allow credit for the cost of travel time, mileage or hauling as a warranty allowance. During the remaining second and third year, when applicable, Krause will repair or replace the defective part, without consideration of labor charges.]

- (4) Routine services (such as inspections, field settings, adjustments, etc.) and replacement of items which deteriorate from expected normal wear and tear or exposure (such as paint, tires, hoses, blades, sweeps, etc.) are not covered by this Limited Warranty. Such routine services and replacements required during the course of operation are not considered to be the result of any defect in the product.

B. LIMITATIONS APPLICABLE TO KRAUSE'S LIMITED WARRANTY.

- (1) Krause will be relieved of all obligations and liability under this warranty if:
 - (i) The alleged defect in the part is due to misuse or neglect on the part of someone other than Krause;
or
 - (ii) Krause's identification mark or name or serial number has been removed from the part in question;
or
 - (iii) The product and/or equipment have not been maintained, operated or stored either in accordance with applicable manuals, communications or other written instructions of Krause or any manufacturer of the part involved, or in accordance with applicable regulations and advisory circulars unless buyer shows that such maintenance, operation or storage was not a contributory cause of the defect; or
 - (iv) The part in question has been modified or altered after delivery other than by the manufacturer or in accordance with a modification or alternation scheme approved in writing by the manufacturer; or
 - (v) The product is used for purposes other than conventional owner/operator usage. Usage not considered conventional owner/operator includes, but is not limited to, operation conditions that consist of rocks or other obstructions.
- (2) For the purpose of this Warranty, no part of the product or equipment will be regarded as breaching the limited warranty merely because, subsequent to its delivery, some modification or alteration becomes necessary for product improvements or in order to meet a change in the requirements of any applicable regulation.
- (3) TO THE EXTENT ALLOWED BY APPLICABLE LAW, BUYER WAIVES AS TO KRAUSE ALL OTHER WARRANTIES, WHETHER OF MERCHANTABILITY, FITNESS OR OTHERWISE, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACT HEREOF.
- (4) TO THE EXTENT ALLOWED BY APPLICABLE LAW, THE OBLIGATIONS OF KRAUSE SET FORTH HEREIN SHALL BE THE EXCLUSIVE REMEDIES FOR ANY BREACH OF WARRANTY HEREUNDER, AND, TO THE SAME EXTENT, KRAUSE SHALL NOT BE LIABLE FOR ANY GENERAL, CONSEQUENTIAL OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, ANY DAMAGES FOR DIMINUTION OF MARKET VALUE, LOSS OF USE OR LOSS OF PROFITS, OR ANY DAMAGES TO THE PRODUCT CLAIMED BY-BUYER OR ANY OTHER PERSON OR ENTITY UPON THE THEORIES OF NEGLIGENCE OR STRICT LIABILITY IN TORT.
- (5) ANY ACTION BY BUYER FOR BREACH OF THIS WARRANTY BY EITHER KRAUSE OR SELLER MUST BE COMMENCED WITHIN (1) YEAR AFTER THE CAUSE OF ACTION ACCRUES.

Establishing Customer Warranty

Dealer's Obligation

1. It is the responsibility of the dealer to complete a **Delivery Report and Warranty Registration** form. The form should contain the model, serial number, delivery date, along with the complete dealer and customer address. This form must be signed by the dealer and customer upon physical delivery of the product to the customer. The dealer must complete the **pre-delivery check list** provided on the Delivery Report and Warranty Registration form.
2. Dealer will review the **Predelivery Check List** located in the front of the owner's manual with the customer and / or operator. This should be signed by the dealer at time of delivery to the retail customer.
3. The dealer will review the **Customer Review Sheet** located at the front of the owner's manual with the customer and / or operator. This should be signed by the dealer representative and the customer.
4. An authorized Krause dealer will submit **warranty claims** on behalf of the customer. All claims must be handled through the dealer. They will then be given to the Krause District Manager for inspection and approval. Warranty requests must be filed within 60 days from completion of the repair for consideration.
5. It is the dealer's responsibility to **service** the warranty on products sold through said dealership.

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

Establishing Customer Warranty

Customer's Obligation

1. The customer is responsible for reading the operator's manual supplied with each serial numbered unit. The manual describes the safe and correct operating procedures of the specific product. The operator's manual will also instruct the user on recommended lubrication and maintenance of the product.
2. The customer will advise the dealer of the anticipated start date of the product so a dealer representative can be on hand to make necessary field adjustments.
3. The owner is also responsible for inspecting the product during and after use. If a part has failed or is in need of repair, it should be replaced. When continued use of the product would result in excessive wear of other components, the part should be replaced before operation is continued. Continued use of the product may void warranty on other parts damaged from this condition. The user must make the machine available to the dealer for a warranty repair.
4. It is the customer's responsibility to deliver his machine to an authorized Krause dealer for completion of a warranty repair. If the dealer agrees to make a service trip to the customer's residence, it is an agreement between the dealer and the customer. Krause will not allow warranty credit for the cost of travel, mileage, or hauling.
5. Warranty labor consideration will only be given during the first year of warranty. Any labor charge for the 2nd or 3rd year on the limited warranty will be at the customer's expense.

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

5600HR SERIES FLEX WING FIELD CULTIVATOR DEALER PREDELIVERY CHECK SHEET

TO BE CHECKED BY DEALER

CUSTOMER _____ DATE _____

ADDRESS _____

DEALER _____

ADDRESS _____

MODEL _____ SERIAL NUMBER _____

DEALER CHECK:

1. ___ Check to see that all rocker pivot pins and bolts are secured in place.
2. ___ Check to see that hydraulic cylinders are full of oil (air bled out of cylinders). Clevis pins with hair pin clips should be in place. Hydraulic system requires 21 Quarts for Model 5620 and 24 Quarts for Model 5625.
3. ___ Examine hydraulic hoses to see that they are protected from damage.
4. ___ Bolts attaching the walking tandem to the wheel arms should be tight. Check to see that bearings have been adjusted and greased.
5. ___ Check lug bolts holding wheels to the hub to see that they are torqued from 90 to 95 Ft. Lbs.
6. ___ The correct size of tire should be on the implement. All tires on this cultivator are 11L x 15, 8-Ply with 44 P.S.I. pressure.
7. ___ Check to see that bolts attaching hitch to frame and clevis to hitch are in place and tightened.
8. ___ Jack should be operational for support of tongue when implement is not attached to a tractor.
9. ___ Wing hinge casting bolts should be tight and hinge pins should be secured with roll pins.
10. ___ Road lock and wing lock hydraulic valves are correctly installed and operate satisfactorily. (Valve "A" port should be toward tractor)
11. ___ Restrictor is installed in wing lift cylinder rod end ports.
12. ___ All decals are in place per page P37 of this owner's manual.
13. ___ Safety chain is in place.
14. ___ Customer review sheet is filled out and signed.
15. ___ Review lighting requirements. Light kits are standard equipment.
16. ___ Check to see that the Owner's Manual is in the storage tube on the implement.
17. ___ Check to see that the SMV emblem is clean and in place.

DELIVERED BY _____

DATE _____

5600HR SERIES FLEX WING FIELD CULTIVATOR CUSTOMER REVIEW SHEET

CUSTOMER _____ DATE _____

ADDRESS _____

DEALER _____

ADDRESS _____

MODEL _____ SERIAL NUMBER _____

1. ___ Owner's manual provided.
2. ___ Warranty card filled out and mailed.
3. ___ Review safety warnings and cautions as listed in this owner's manual.
4. ___ Review recommended maximum road speed, width, and height for implement.
5. ___ Review field operational speeds, horsepower, depth and rock conditions.
6. ___ Demonstrate the proper use of hydraulic road and wing locks.
7. ___ Explain the hydraulic depth control system.
8. ___ Review limitations of additional weight and transport speed when adding attachments.
9. ___ Explain the importance of maintaining the implement through lubrication, checking that bolts are kept tight, and replacement of worn or broken parts.
10. ___ Recommend that the safety chain be used with the implement.
11. ___ Check wheel lug bolts frequently until they become set.
12. ___ Review lighting requirements for your area.

DEALER _____ DATE _____

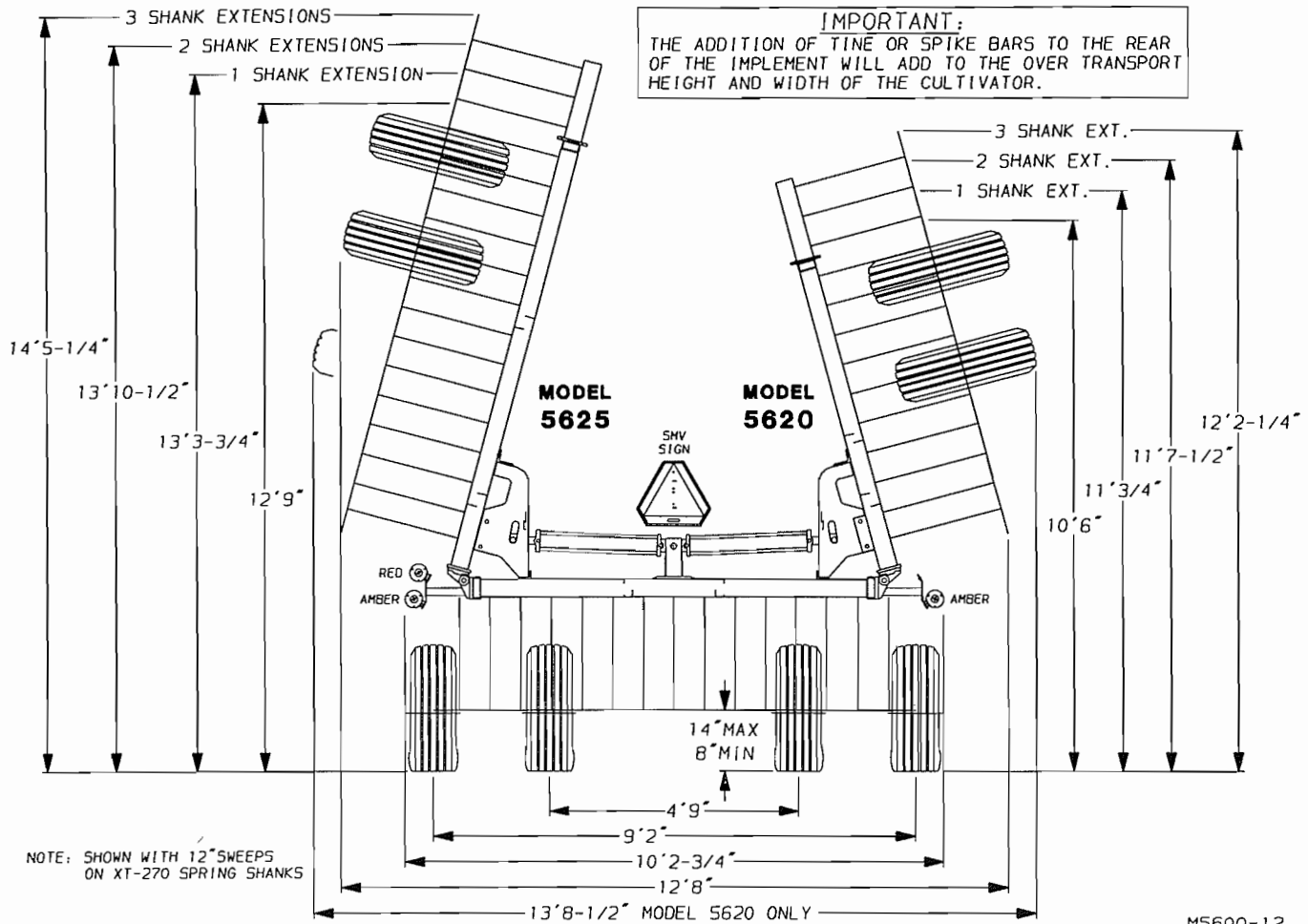
CUSTOMER _____ DATE _____

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8/00

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5620HR FIELD CULTIVATOR SPECIFICATIONS



M5600-12

Revised 8/00

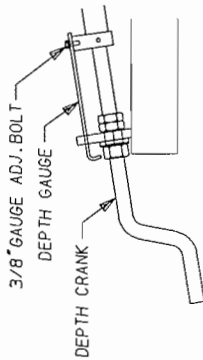
MODEL	SPACING	TOTAL SHANKS	CUT WIDTH	TRANSPORT WIDTH	TRANSPORT HEIGHT
5620 2-Pc K-Tines ONLY	6"	41	20' 6"	13' 8-1/2"	10' 6"
	6"	43	21' 6"	13' 8-1/2"	11' 3/4"
	6"	45	22' 6"	13' 8-1/2"	11' 7"
	6"	47	23' 6"	13' 8-1/2"	12' 1/2"
5625 2-Pc K-Tines ONLY	6"	51	25' 4"	12' 8"	12' 9"
	6"	53	26' 4"	12' 8"	13' 3-3/4"
	6"	55	27' 4"	12' 8"	13' 10"
	6"	57	28' 4"	12' 8"	14' 3-1/2"

GENERAL INFORMATION

DEPTH ADJUSTMENT PROCEDURE

- 1) FULLY EXTEND ROCKER CYLINDERS AND HOLD LEVER FOR ADDITIONAL 30 SECONDS TO REPHASE SYSTEM.
- 2) LOWER CULTIVATOR TO GROUND AND FULLY RETRACT THE ROCKER CYLINDERS.
- 3) ADJUST CRANK ON EACH SECTION AS NEEDED.

- NOTE: (6) TURNS = 1" OF DEPTH CHANGE
- 4) AFTER ALL SECTIONS ARE AT THE PROPER DEPTH, LOOSEN THE DEPTH GAUGE 3/8" BOLT AND SLIDE THE GAUGE UNTIL ALL SECTIONS READ THE SAME.



! ROAD AT A REASONABLE SPEED
DO NOT EXCEED 20 M.P.H.

IMPORTANT

- H** GREASE EACH 48 HOURS OF USE
- W** CHECK THESE POINTS PERIODICALLY FOR WEAR

! ALWAYS PIN TRACTOR DRAWBAR BEFORE TRANSPORTING.
USE A SAFETY CHAIN WITH THE TENSILE STRENGTH
EQUAL TO THE GROSS WEIGHT OF THE LOAD BEING TOWED.

W HITCH AND
CLEVIS BOLTS

! CLOSE BOTH HYDRAULIC LOCK
VALVES BEFORE TRANSPORTING

CLOSED POSITION

! CHECK SWEEPS AND POINTS
FOR WEAR, TURN OR REPLACE
WHEN NEEDED.

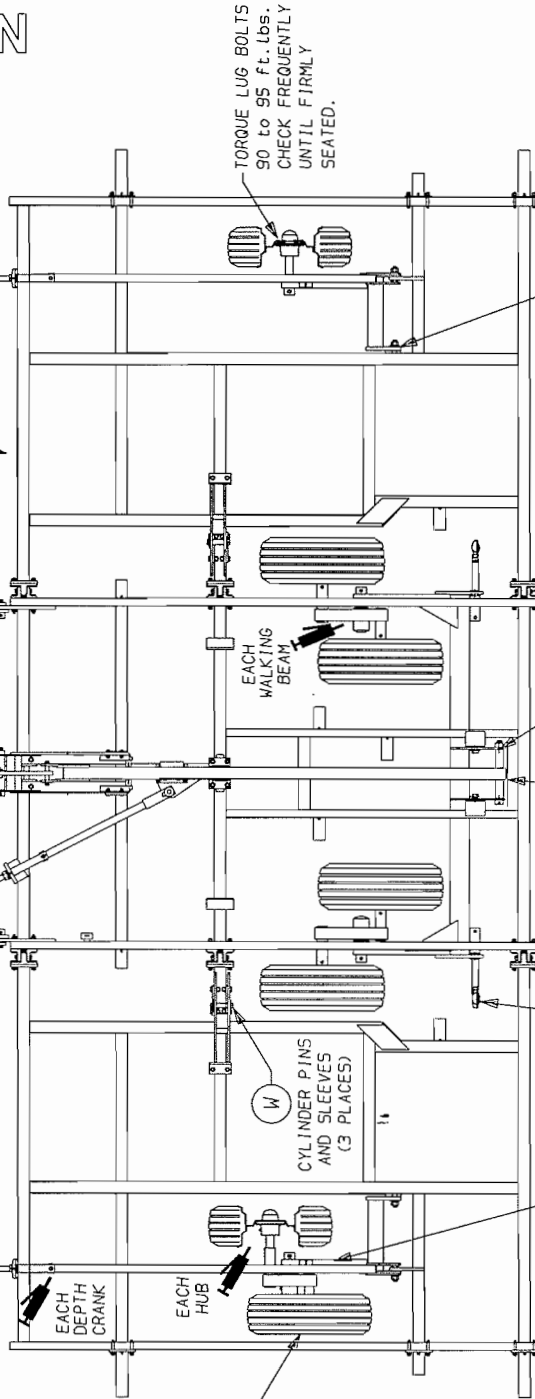
BE SURE TO PIN THE TONGUE JACK
IN THE STORAGE POSITION BEFORE
MOVING THE FIELD CULTIVATOR

RIGHT WING
DEPTH
ADJUSTMENT
CRANK

RATCHET JACK
TONGUE LEVELING

LEFT WING
DEPTH
ADJUSTMENT
CRANK

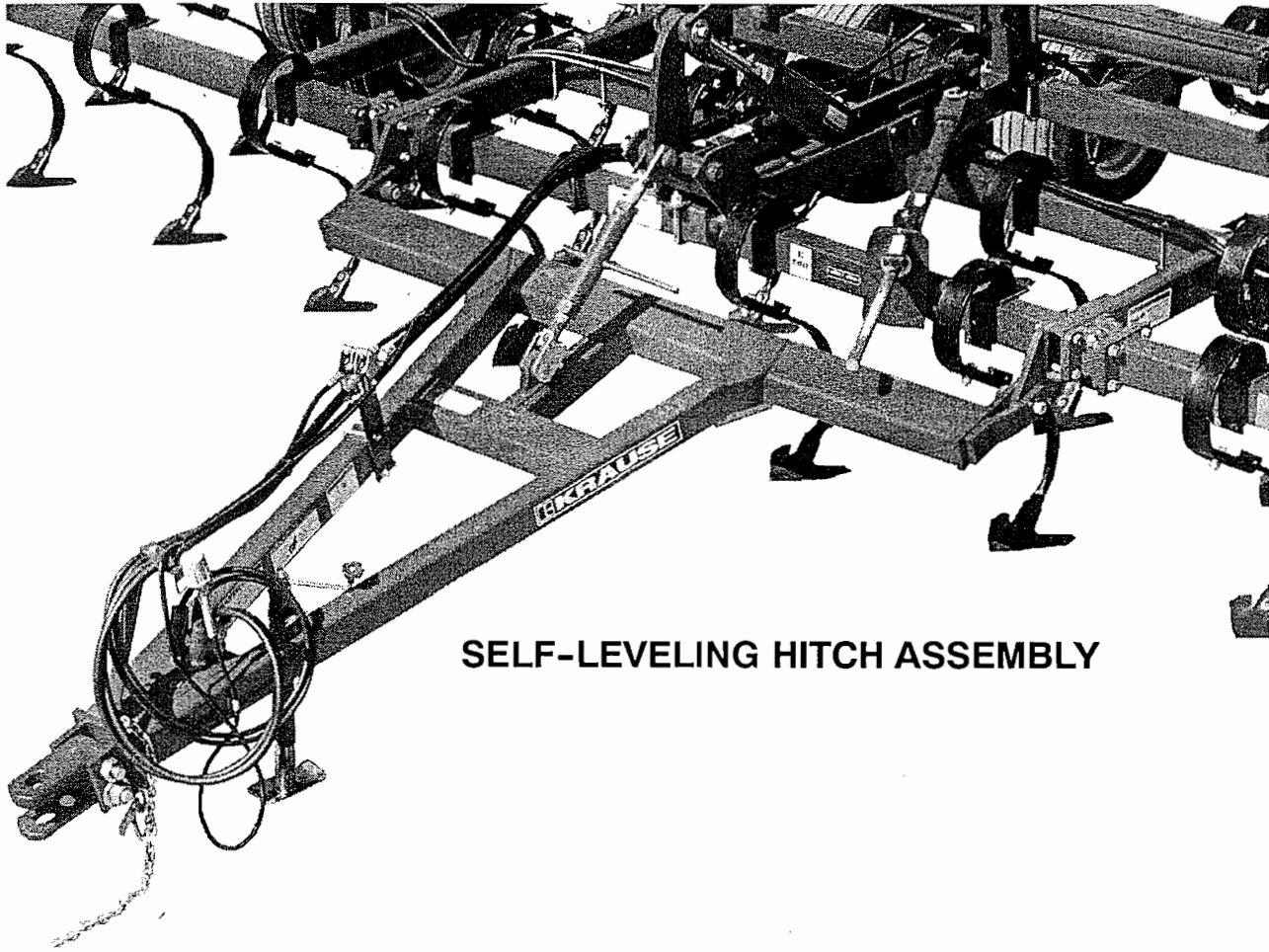
CENTER DEPTH
ADJUSTMENT
CRANK



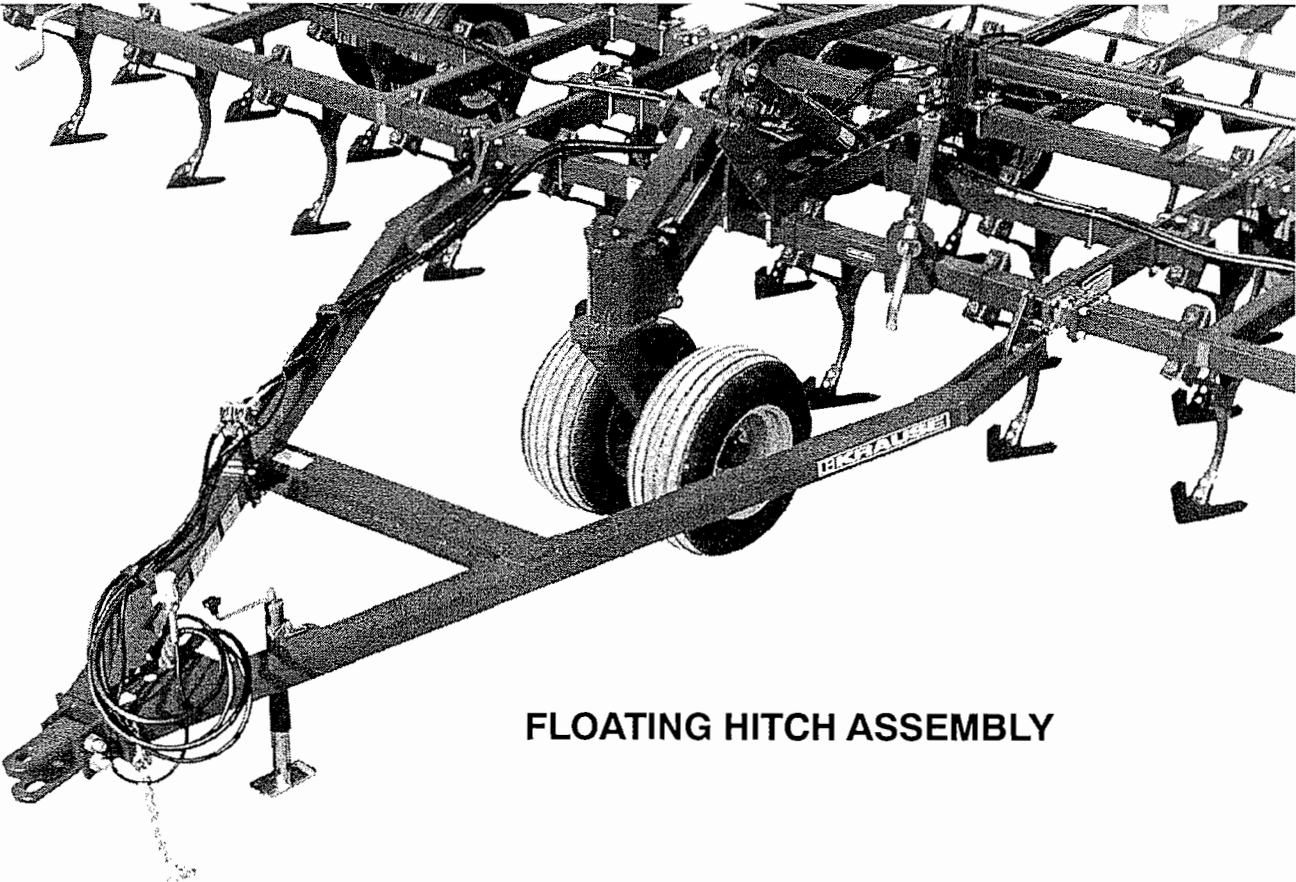
FULLY EXTEND DEPTH CONTROL CYLINDERS
& HOLD TRACTOR VALVE OPEN A FEW SECONDS
TO SYNCHRONIZE WING CYLINDERS.

NOTE: CULTIVATOR IS IN RAISED
POSITION WHEN ROCKER
CYLINDERS ARE FULLY EXTENDED

! MAKE SURE LIGHTS ARE WORKING
BEFORE TRANSPORTING

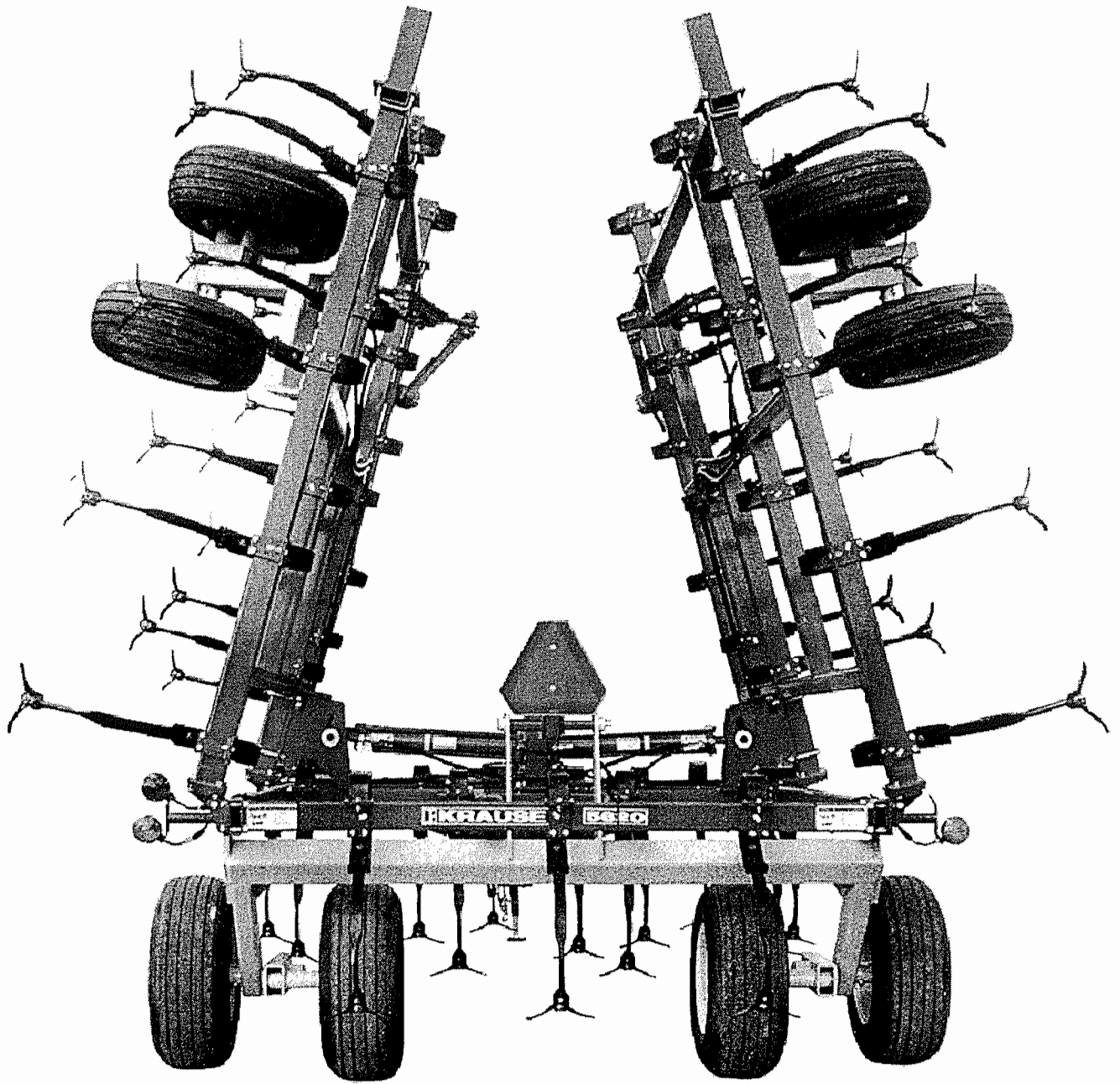


SELF-LEVELING HITCH ASSEMBLY



FLOATING HITCH ASSEMBLY

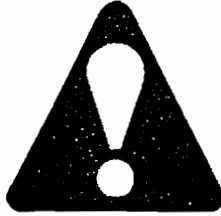
MODEL 5625HR SHOWN



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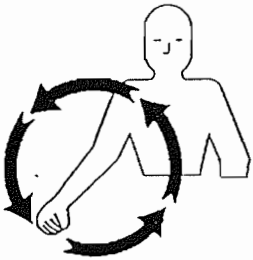
OPERATING SECTION

SAFETY ALERT SYMBOL

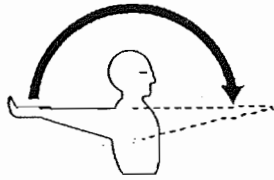


BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY.
THIS SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES.
CAREFULLY READ THE MESSAGE THAT FOLLOWS.

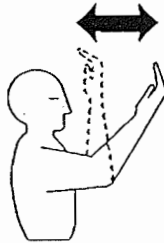
TEN MOST COMMON HAND SIGNALS USED IN THE FIELD



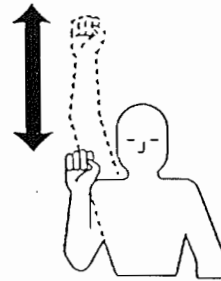
START
THE
ENGINE



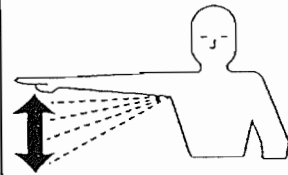
MOVE OUT
OR
TAKE OFF



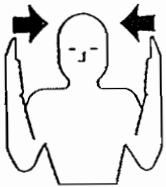
MOVE
TOWARD
ME



SPEED
IT UP



SLOW IT
DOWN



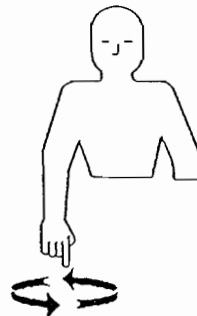
THIS FAR
TO GO



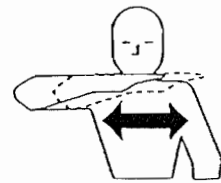
STOP



RAISE
THE
EQUIPMENT



LOWER
THE
EQUIPMENT



STOP
THE
ENGINE

SAFETY DECALS

⚠ CAUTION

READ AND UNDERSTAND YOUR OPERATOR'S MANUAL. OBSERVE ALL CAUTION, WARNING &/OR DANGER INSTRUCTIONS AND OTHER SAFETY PRACTICES

<ol style="list-style-type: none"> 1. Stop tractor engine and set hand brake before working on or under implement. 2. Do not allow anyone to ride on implement. Do not allow anyone on tractor except operator. 3. Make certain that everyone is clear before moving implement or activating any controls that may cause movement of implement, hydraulics, or any components. 4. Operate with increased caution on slopes and near ditches where there is a possibility that the tractor or implement could overturn. 	<ol style="list-style-type: none"> 5. Before transporting, install wing locks, transport locks, and safety chain. The towing vehicle must weigh more than the implement. 6. Before transporting, clean off reflectors and make certain SMV emblem is clearly visible. 7. Maximum transport speed is 15 MPH on best road surface. 8. Store with wings and implement on ground. 9. Lower wings when working on or around implement. 10. Regularly inspect bolts & pins in hitch, wheel hubs, cylinders & transport locks.
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FAILURE TO OBSERVE SAFETY INSTRUCTIONS AND SAFETY PRACTICES CAN CAUSE PROPERTY DAMAGE, SERIOUS BODILY INJURY, &/OR DEATH.

74-117

⚠ WARNING




CONTACT WITH A POWER LINE OR OTHER OBSTRUCTION CAN CAUSE DAMAGE, SERIOUS BODILY INJURY OR DEATH.

BE AWARE OF THE IMPLEMENT TRANSPORT WIDTH AND HEIGHT. WATCH WIDTH AND HEIGHT CLEARANCES WHEN MOVING THE IMPLEMENT.

HARROW ATTACHMENTS WILL ADD TO TRANSPORT HEIGHT AND WIDTH. FOR YOUR SAFETY, MEASURE OVERALL WIDTH AND HEIGHT OF THE IMPLEMENT AFTER INSTALLING HARROWS OR ANY OTHER ATTACHMENT TO THE IMPLEMENT.

74-121

⚠ WARNING



FAILURE OF HYDRAULIC COMPONENTS OR ACCIDENTAL OPERATION OF HYDRAULIC CONTROLS CAN ALLOW IMPLEMENTS OR WINGS TO FALL AND CAUSE SERIOUS BODILY INJURY OR DEATH!

1. Keep everyone clear when raising or lowering implement.
2. Install all transport lock pins when working on or under implement.
3. Check for adequate overhead and side-to-side clearance before raising or lowering wings.
4. Make certain all hydraulic systems are full of oil and free of air before raising or lowering wings or implement. Check operator's manual for detailed instructions.

74-102

⚠ WARNING

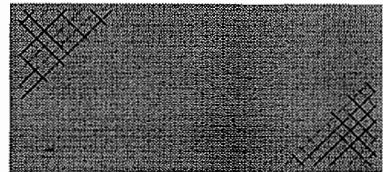
CYLINDERS MUST BE CHARGED WITH OIL BEFORE IMPLEMENT OR WINGS ARE LOWERED. LOWERING WITHOUT PURGING ALL AIR FROM THE HYDRAULIC CYLINDERS MAY RESULT IN PERMANENT AND EXTENSIVE DAMAGE.

1. Remove rod end pins from cylinders.
2. Block up rod end of cylinder to allow freedom of movement while extending and retracting cylinder rod.
3. Cycle cylinder sufficient times to remove all air.
4. Reconnect cylinder rod end pin.

74-113



74-107 AMBER REFLECTOR



74-108 RED REFLECTOR

⚠ CAUTION:

ADDITION OF REAR ATTACHMENTS WILL ADD 8 TO 14 INCHES TO TRANSPORT HEIGHT AND UP TO 24 INCHES IN TRANSPORT WIDTH ON SOME IMPLEMENTS. FOR YOUR SAFETY, MEASURE OVERALL WIDTH AND HEIGHT OF IMPLEMENT AFTER INSTALLING REAR ATTACHMENTS.


74-145

⚠ WARNING

Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.



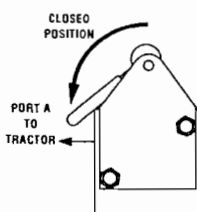
INSPECT the hose assembly before each use. REPLACE the hose assembly immediately if:

- A. The jacket of the hose appears abnormal.
- B. You have reason to believe it may be abnormal.
- C. There is any fluid leakage.
- D. The couplings are damaged.
- E. The hose is damaged or kinked.
- F. The reinforcement is visible through the jacket.

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⚠ WARNING

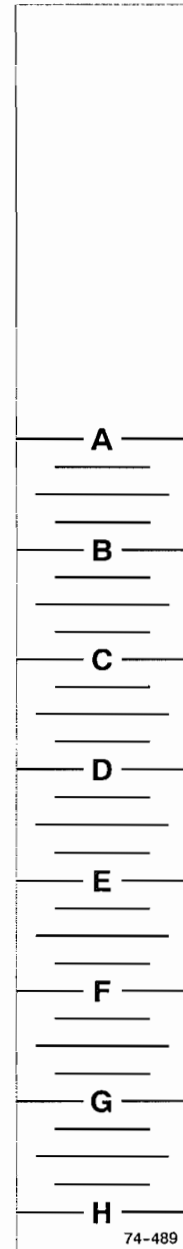
TO AVOID INJURY CLOSE LOCK VALVE BEFORE TRANSPORTING OR SERVICING MACHINE.



74-393

See page P34 in this manual for proper location on implement.

INFORMATIVE DECALS



See page P34 in this manual for proper location on implement.

OPERATING INSTRUCTIONS



Do not allow anyone to operate this implement who has not been trained in its safe operation. Read all safety decals on the implement, and review the safety first suggestions on the back cover of this manual to refresh your memory. Watch for the safety symbol and read the information. This is for your own protection. If you do not understand any safety decal or instructions in this manual, contact your dealer for assistance.

ABOUT YOUR FIELD CULTIVATOR

This field cultivator has been designed for all secondary tillage as well as some light duty primary tillage. The 5600 cultivator equipped with 2-Piece K-Tines is excellent for weed control, seedbed preparation, and chemical incorporation. This cultivator is flexible enough to follow the contours of most field conditions. The wings can float down 8° and up 16° . The floating hitch option allows this cultivator to gauge its own depth with wheels on both front and rear of the cultivator. This option makes the cultivator flexible from front-to-rear as well as from side-to-side.

Horsepower requirements will range from 2-1/2 to 4 drawbar horsepower per foot of cut. This cultivator works best at speeds of 5 to 7 M.P.H., however, rocky conditions may require a slower field speed. The maximum working depth is 5" with K-Tines. Krause offers several different attachments for finish tillage: 3, 4, or 5 rows of tine harrows; 3 or 5 rows of spikes; 3 rows of tines followed by reels and 3 rows of spikes followed by reels.

NOTE: Floating hitch option cultivators are limited to spikes or tines to keep them from becoming "tail heavy". Self-leveling hitch cultivators may need a rear jack mount when heavy rear attachments are added.



Caution: Adding of excess additional weight could cause frame or axle failures resulting in loss of control during transport.

PREPARING THE FIELD CULTIVATOR FOR OPERATION

1. The wings should be down and implement lowered to the ground. All hydraulic cylinders should be pinned and full of oil.



Caution: Lower the implement to the ground before making the following inspections. With the implement lowered, enter the framework by stepping over, do not crawl under the framework. If the implement is not lowered, any hydraulic failure could cause the implement to drop suddenly, causing personal injury.

2. Check for loose bolts and tighten if needed. Check again if needed. Check again for loose bolts after the first half day of operation.
3. Check the shank locations with the Placement Drawings at the back of this manual for the model being used to be sure that the unit has been set up properly.
4. Check tire pressure. Inflate 8-Ply tires to 44 PSI. Also check the wheel lug bolts to see if they are torqued from 90 to 95 Ft. Lbs., and that the wheel hub bearings do not have excessive end play.

5. Make sure that all grease zerk locations have been sufficiently greased. Grease zerks will be found on wheel hubs, walking beams, depth cranks, and floating hitch castor pivot.
6. Check and adjust tightness of wheel bearings before operation, after the first week and periodically thereafter. *(See Service Section of this book)*

PREPARING THE TRACTOR

Read your tractor owner's manual. It will describe safe methods of operation. Make sure your tractor has proper added ballast, and that its hydraulic system is full of oil and working properly. Check tractor brakes and warning lights, make sure they are in working order.

HYDRAULIC SYSTEM

Inspect the hydraulic system for tell-tale leaks and loose fittings. Tighten if needed. Loose tape fragments may cause cylinder valve or O-Ring leaks that can cause drifting or poor cylinder operation. Make sure a restrictor is installed in the wing lift cylinder rod end port. If not previously filled, your hydraulic system will require approximately 21 Quarts on Model 5620HR and 24 Quarts on Model 5625HR.

When working with rephasing rocker cylinders, be sure all of the cylinders are mounted in proper sequence. Hoses must be attached in the proper order, and all air bled from the hoses and cylinders. See page O11 under REPHASING CYLINDER SYSTEM. If, after some time, one cylinder of the series should start to close for no apparent reason, oil is probably leaking past the O-Rings and an O-Ring kit, available from Krause, should be installed.

REPAIR OF HYDRAULIC CYLINDERS SHOULD BE MADE BY AN AUTHORIZED KRAUSE DEALER ONLY.

A HYDRAULIC HOSE AND CYLINDER SCHEMATIC CAN BE FOUND FOR EACH MODEL IN THIS SERIES ON PAGES P20 THROUGH P27 OF THE PARTS SECTION.

HYDRAULIC SAFETY (Please read carefully)

If the implement hydraulic system has never been used, stored over a period of time or disassembled for any reason, unpin the rod ends of the cylinders and support the cylinders so the rod ends will clear frame members when fully extended. Back the tractor to the front of the implement and connect the hydraulic hoses. Check the tractor hydraulic reservoir and make sure it is full of the manufacturer's recommended oil. If you are sure the implement hydraulic hose connections are tight, begin filling the system by extending and retracting the cylinders. Hold the control lever open and pause at the end of each stroke to bleed the air from the system. Continue the cycles until the cylinders respond with immediate solid actuation. When you are sure the systems are free of air, pin the rod ends of the cylinders to the implement cylinder lugs.



Warning: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.

AVOID HEATING NEAR PRESSURIZED HYDRAULIC HOSES

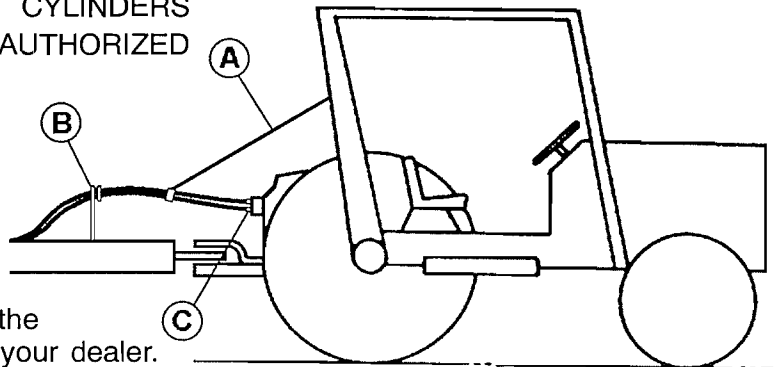
Flammable spray can be generated by heating near pressurized hydraulic hoses, resulting in severe burns to yourself and bystanders. Do not heat by welding, or using a torch near hoses. Hoses can be accidentally cut when heat goes beyond the immediate flame area.

THE FOLLOWING WARNINGS PERTAIN TO THE MORE COMMON ABUSES OF HYDRAULIC HOSE:

1. **INSPECT** the hose assembly before each use.
2. **REPLACE** the hose assembly immediately if:
 - a) The jacket of the hose appears abnormal
 - b) You have reason to believe it may be abnormal
 - c) There is any fluid leakage.
 - d) The couplings are damaged.
 - e) The hose is damaged or kinked.
 - f) The reinforcement is visible through the jacket.
5. **DO NOT EXCEED** the maximum recommended working pressure of hose.
6. **DO NOT KINK** the hose assembly.
7. **DO NOT BEND** the hose assembly beyond its minimum bend radius of 3.25
8. **DO NOT EXPOSE** to temperatures in excess of 225° Fahrenheit
9. **DO NOT USE AS A STRENGTH MEMBER** for pulling or lifting equipment.

IMPORTANT: REPAIR OF HYDRAULIC CYLINDERS SHOULD BE MADE BY AN AUTHORIZED KRAUSE DEALER.

Prevent damage to trail hoses by supporting them from the tractor with an elastic strap "A". Avoid having excess hose between the implement support "B" and the tractor connection "C". Either reposition the hose farther back on the implement or request a shorter hose from your dealer.



Inspect the hydraulic system for tell-tale leaks and loose fittings. Tighten if needed. When assembling our hydraulic system, if JIC and O-Ring fittings and hoses are to be used, the use of a tape or liquid sealer is not necessary. **MAKE SURE** a retractor (FITTING WILL BE TAGGED) is installed in the rod end port of each wing lift cylinder.

⚠ Caution: Air in hydraulic system could allow field cultivator or wings to drop suddenly.

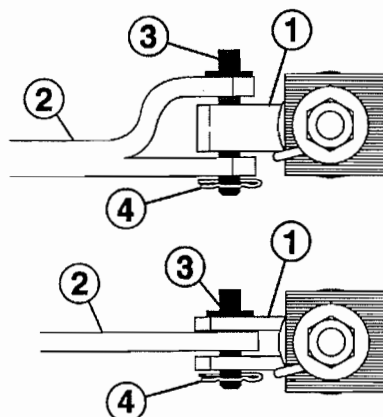
HITCHING & UNHITCHING

⚠ Danger: Do not allow any person to stand between the tractor and implement while backing into position. Sudden loss of control could cause serious injury or death to a person caught between the tractor and implement. Tell your helper to wait until you give him the signal that the tractor is in park or neutral and the hand brake is set and engine is shut off.

Hitching To The Tractor

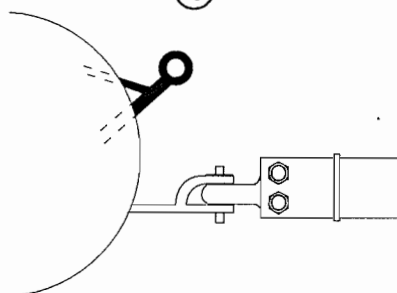
- a) The field cultivator should be supported by the two rear stands and the tongue jack. The road lock pin is in the storage hole. The clevis spring will hold the clevis forward.
- b) Unpin the tractor drawbar so it can be moved from side to side.
- c) Back the tractor to the field cultivator.

- d) Attach clevis **1** to tractor drawbar **2** with clevis pin **3** that fits the hole size in the tractor drawbar. Make sure pin is locked or bolted in place **4** to prevent loss.



- e) Fasten safety chain and/or lights. (See "Transporting")
- f) Place tongue jack in storage position.
- g) Connect hydraulic hoses to tractor.
- h) Raise the cultivator and engage the road lock pin.

IMPORTANT: BEFORE MOVING THE IMPLEMENT, BE SURE THAT THE LOWER ARMS OF THE THREE POINT HITCH HAVE BEEN RAISED TO THE TOP AND SECURED TO PREVENT DAMAGE TO THE CLEVIS AND TONGUE WHEN MAKING TURNS.



Unhitching From The Tractor

If the implement is not to be used for the remainder of the day, select a good parking place that will permit the lowering of the wings. The implement should be parked in the storage position with the wings down and the transport lock valve closed. If the implement is to remain parked for storage over a long period of time, be sure to read the storage suggestions on page O14.

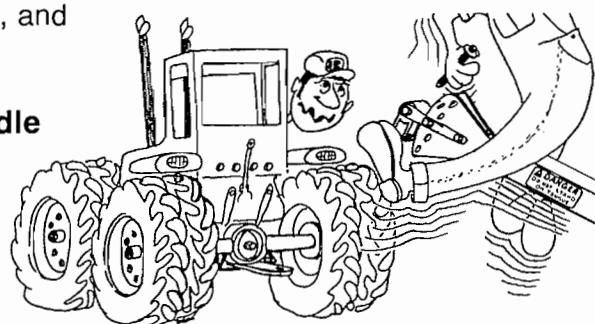
- a) To unhitch the tractor from the implement, place the tractor in park or neutral and set the hand brake. If you are not parking on level ground block the implement tires to prevent damage to the jack.
- b) Have all personnel stand clear and lower the wings.
- c) Close transport lock valve, turn off tractor power, relieve any hydraulic pressure that might be in the system by moving the tractor control lever(s) back and forth.
- d) Lower the tongue jack, raise the tongue height until the clevis pin can be removed.

NOTE: If rear attachments have been added, and the implement is tail heavy, lower the rear jack mount and adjust the rear jack until the clevis pin can be removed. (Order 2330-85-0 Rear Jack Mount and 73-100 Jack if implement is "tail heavy")

- e) Disconnect the hydraulic hose, safety chain, and lights, and then move the tractor away.



Caution: Do not stand on or straddle implement tongue when unhitching. If any rear attachments have been added to the unit, it may affect the balance of the field cultivator, causing the tongue to come suddenly when unhitching.



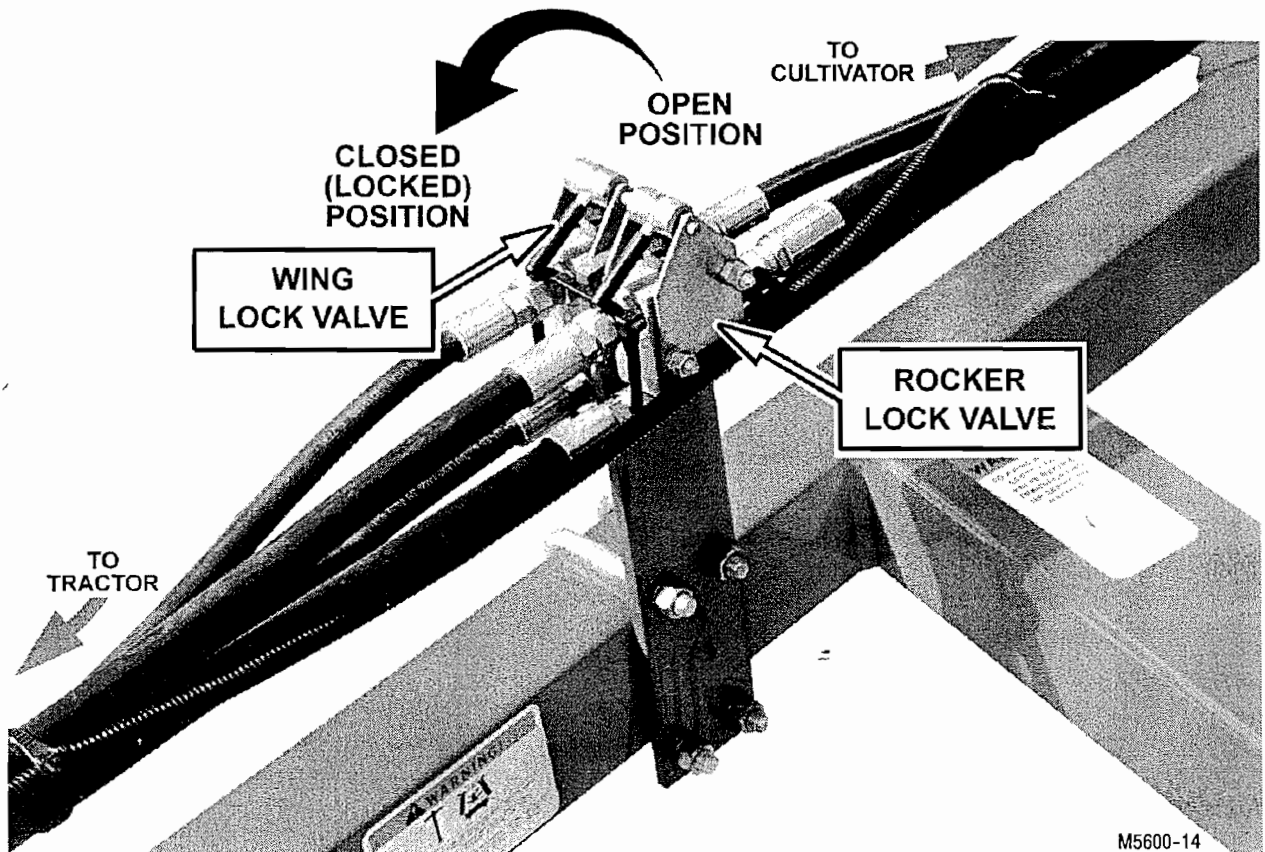
TRANSPORTING

⚠ Warning: Always close both transport locks when transporting to prevent unit from falling due to hydraulic failure, or accidental activation of the operator's control. Lowering of the tool during transporting could result in loss of control or implement and / or tractor. The tractor drawbar must always be pinned for transport.

Transport Lock Valves

The road locks are hydraulic valves. Turning the handle to release the poppet (handle toward the tractor) will close the valve. Turning the handle to engage the poppet (handle towards the cultivator) will open the road lock for field use.

MOVE VALVE HANDLE TO CLOSED (LOCKED) POSITION BEFORE TRANSPORTING IMPLEMENT



Raising The Wings

The implement should be in the raised position with the transport lock valve closed. If the system is full of oil, you are ready to also raise the wings. The wings will be secured in the raised position with a transport lock valve.

⚠ Warning: Always stand clear of wings when they are in raised position. A hydraulic failure or activation of hydraulic controls by someone could result in serious injury to anyone under the wings.

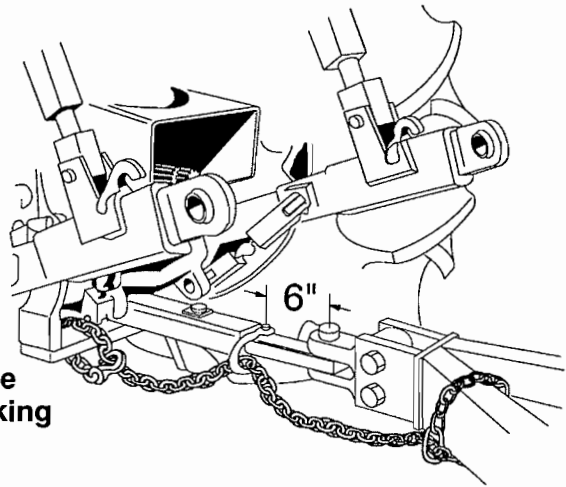
Lowering The Wings

Open the wing lock valve to unlock both wings then lower the wings with all persons standing at a safe distance away from the implement.

Transport Safety

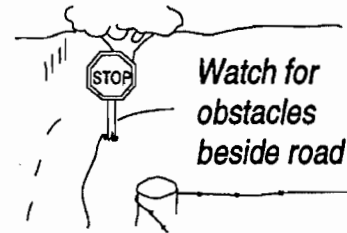
Warning: Always use a safety chain with tensile strength equal to the gross weight of the unit, plus any attachments, when transporting.

NOTE: A safety chain, SMV emblem, and a light kit were furnished as standard equipment with your implement. Make sure they are in place, clean and in working order.



Insert the ASAE Slow Moving Vehicle (SMV) emblem into the bracket provided. The emblem is to be mounted point up in a plane perpendicular to the direction of travel ± 10 degrees. It shall be placed centrally at the rear of the vehicle, unobscured, and 2' to 6' (0.61 to 1.8m) above the ground, measured from the lower edge of the emblem. The SMV emblem should be wiped clean before entering the road or highways.

Comply with state and local laws pertaining to lighting and road widths. Turn on flashing lights whenever traveling on a highway except where it is prohibited by law. Transport during daylight hours only. Watch your clearance. Be aware of obstacles along the side of the roadway that might be caught by the field cultivator when passing by. Pull over to the side of the road to permit safe clearance for oncoming traffic. Keep the red and yellow reflectors clean and visible. Replace the reflectors if they become faded or damaged. Watch for pedestrians on the side of the road that need to be warned of your presence.



Danger: Always check conditions of transport lock valve, tires, wheels, hubs, safety chain, hitch bolts, and clevis pin before transporting the implement.

Check specification page and be aware of the transport height and width of your model of field cultivator.

Danger: Do not exceed 15 m.p.h. in transport on best surface. Exceeding this speed can result in failure in wheel hubs or spindles and loss of control of implement and / or tractor. Do not tow this implement if its weight exceeds 1-1/2 times the weight of the towing unit. Pin tractor drawbar to prevent side sway during transport.

FIELD ADJUSTMENTS

Leveling The Frames

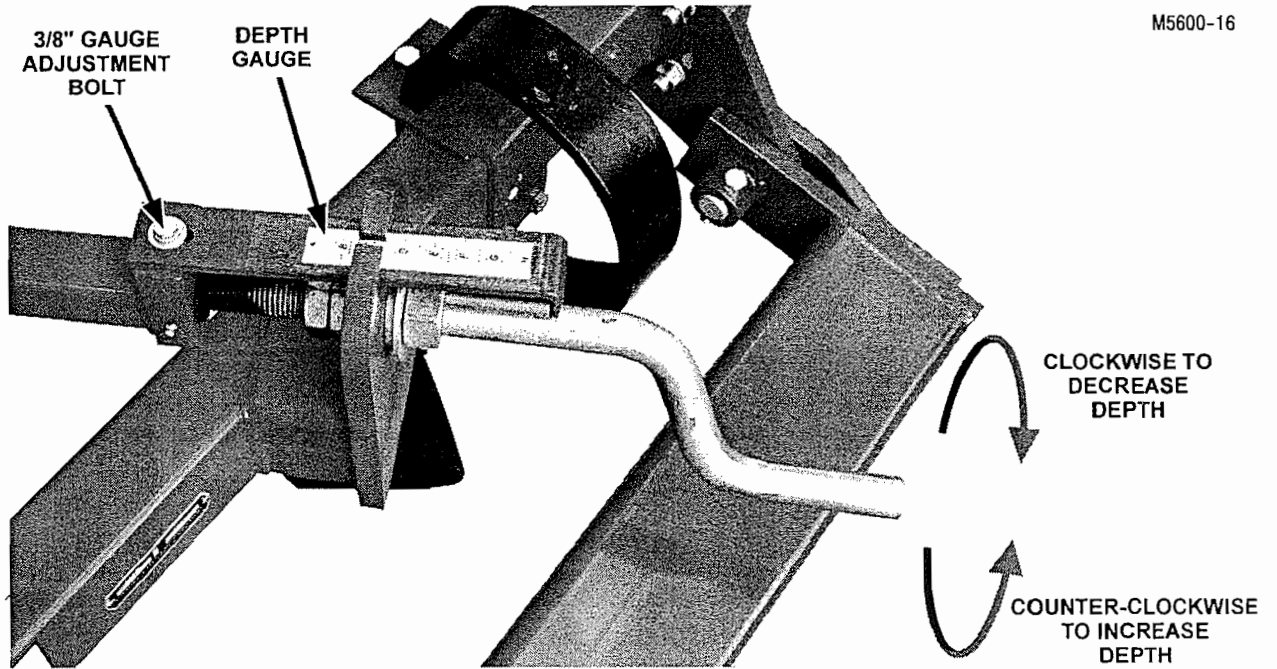
To operate your cultivator most efficiently, it must be worked level. First, level the cultivator before going to the field. This will reduce the amount of field time needed to level the cultivator.

Step 1.

- a) Fully extend rocker cylinders and hold lever for additional 30 seconds to rephase system.
- b) Lower the cultivator to the ground and fully retract the rocker cylinders.

- c) Rotate the center section crank clockwise until the crank begins to carry some load and then stop.
- d) Rotate each wing crank clockwise until the crank begins to carry load and then turn crank counterclockwise (4) turns. The cultivator should be set for an approximate depth of 2-1/2"
- e) Loosen the 3/8" gauge adjustment bolts and slide the gauge until all sections read the same.

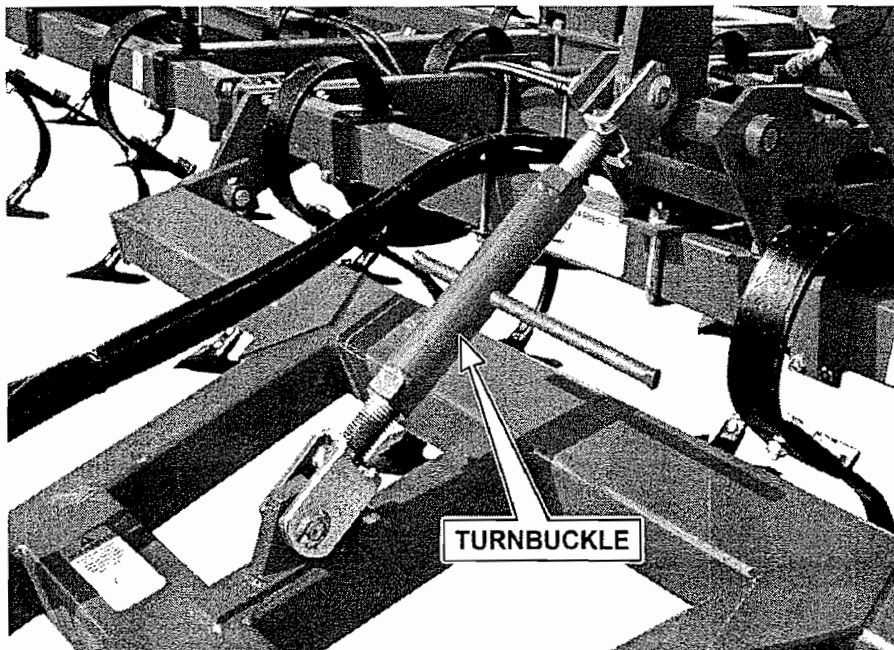
NOTE: (6) Crank turns will be approximately equal to 1" change in depth.



M5600-16

Step 2.

- a) Lower the cultivator into the ground and pull it for a short distance.
- b) Stop the tractor with the cultivator still in the ground.



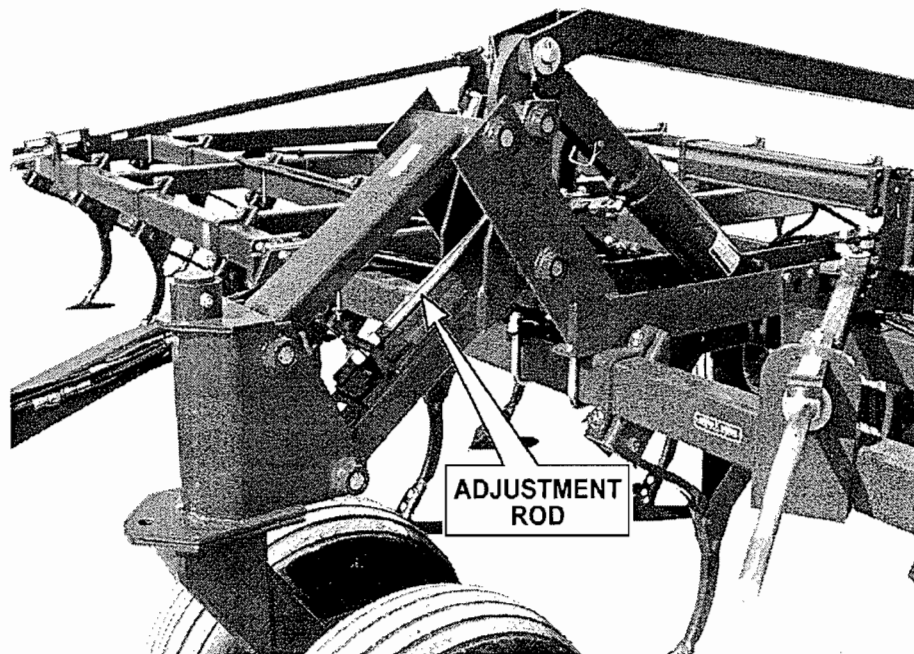
Extend the hitch turnbuckle to *raise* the front.

Shorten the hitch turnbuckle to *lower* the front.

M5600-15

- c) Stand at one side of the cultivator at a reasonable distance and view the frame from front to back. Some prefer to dig out the front and rear sweeps to determine front to rear leveling. If the frame is not level, adjust the hitch turnbuckle on self leveling models, or the castor wheel adjustment rod on floating hitch models.

M5600-17



Loosen the rear nut on the adjustment rod and tighten the front nut to **raise** the front.

Loosen the front nut on the adjustment rod and tighten the rear nut to **lower** the front.

Step 3. Side to Side Leveling in the Field

- With the cultivator stopped in the ground, view the cultivator from behind. Double check by digging out a sweep on the center section and compare its depth to one on the outer end of each wing.
- Note how much higher or lower each wing is, if any.
- Raise the cultivator out of the ground, lower it back down, and retract the cylinders to free up the cranks.
- Rotate the wing crank counter-clockwise to increase depth or clockwise to decrease depth. A 1" depth change requires approximately (6) turns.
- Pull the cultivator forward and recheck Steps 2 & 3.
- When you are sure the cultivator is level from side to side, loosen the 3/8" depth gauge bolt and slide the gauge until all sections read the same.

NOTE: If your cultivator is equipped with front wing gauge wheels, make sure they are not carrying too much weight. This can make leveling difficult as well as potentially causing damage to the gauge wheel assembly.

Changing Field Depth

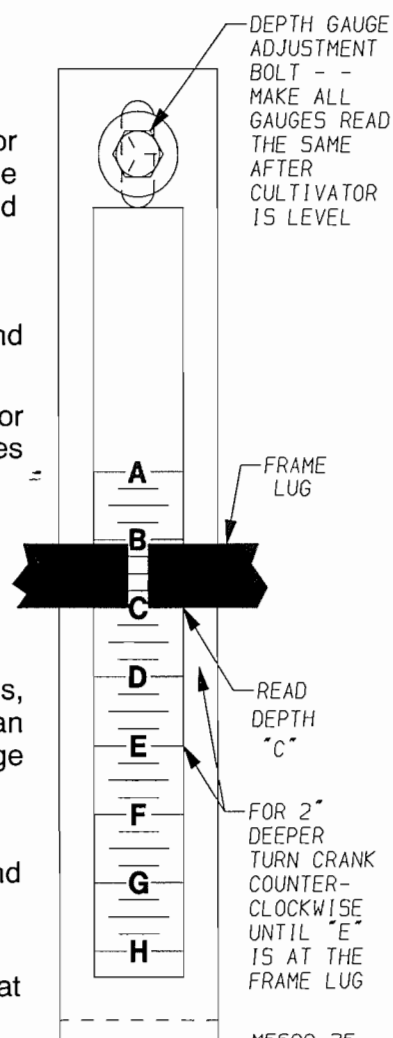
Raise the cultivator out of the ground, lower it back down, and retract the cylinders to free up the cranks.

All depth cranks must be changed the same amount.

This can be done by counting turns or by using the depth gauge at each crank.

Each letter on the depth gauge is approximately equal to 1" of depth. Each mark between the letters is approximately equal to 1/4" of depth.

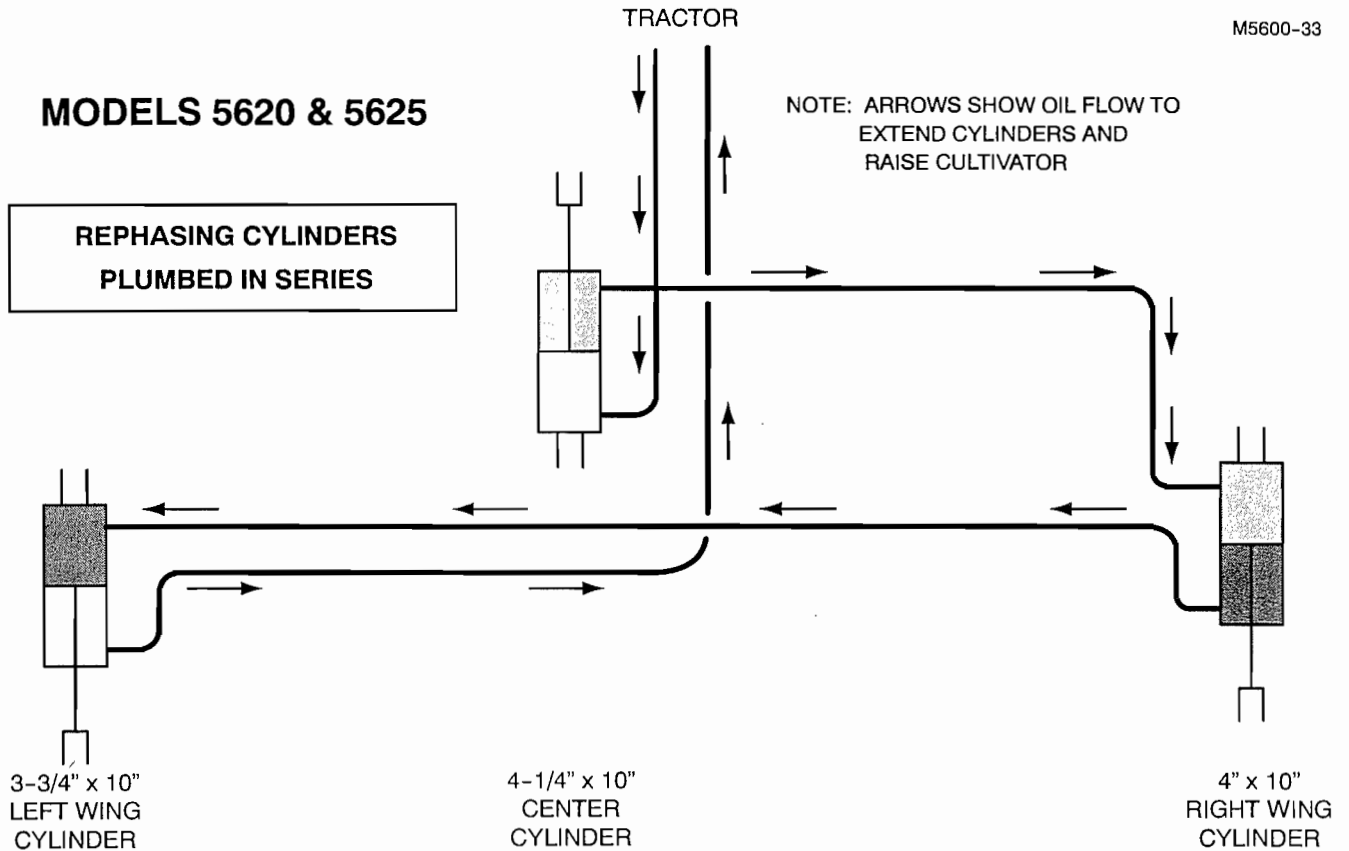
Make sure the front wing gauge wheels are changed to match the unit depth.



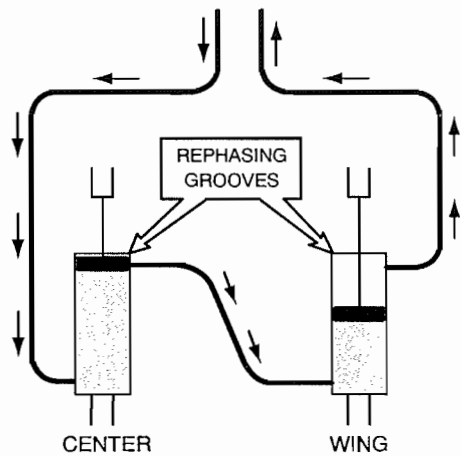
M5600-25

Understanding Your Rephasing Cylinder System

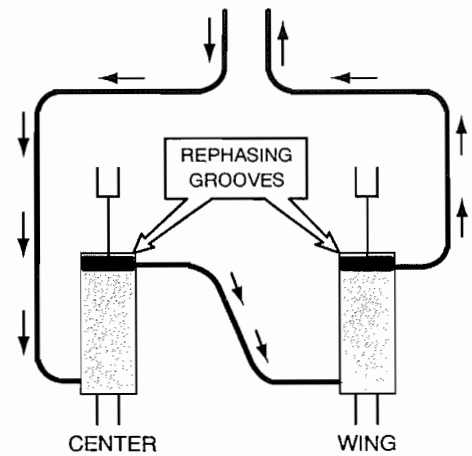
When the cultivator is raised completely out of the ground these specially designed cylinders are rephased for uniform lifting by holding the tractor remote hydraulic control lever in the raised position for 20 to 30 seconds. This allows a small volume of oil to bypass the piston seals. Consequently, all of the cylinders can be fully extended.



When the center cylinder is fully extended, oil can flow around the piston seal through rephasing grooves in the cylinder wall. As the oil continues to be forced past the rephasing grooves, the other cylinders in the system can also fully extend.



WING CYLINDER NOT IN PHASE WITH CENTER CYLINDER.

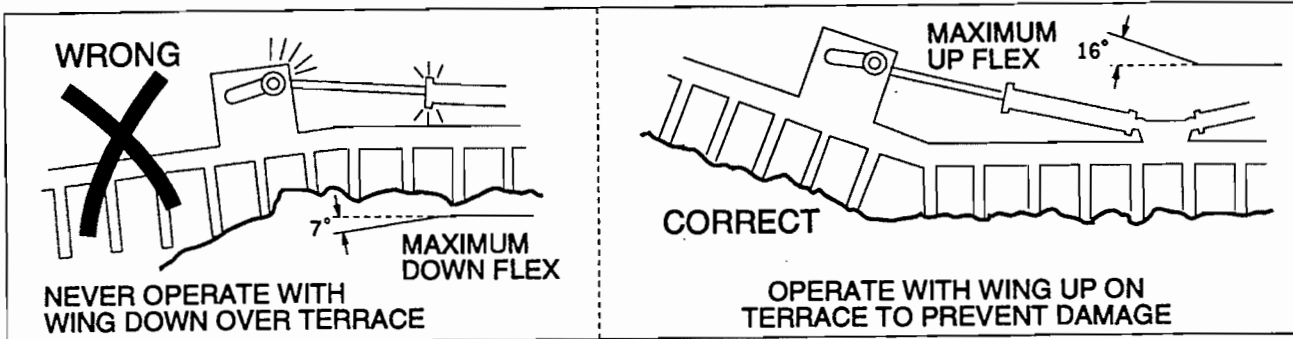


CENTER & WING CYLINDERS ARE BOTH FULLY REPHASED.

Flexibility

ALWAYS WORK WITH THE WINGS DOWN: Major damage may occur to shanks and frame members if used with the wings up. For maximum flexibility, make sure the wing hydraulic cylinders are fully extended after the wings are down.

When working terraced ground, place the wing up on the terrace, not down over the terrace, as the wing is limited in its downward movement, but not as much in its upward movement.



Turning In The Field

Short turns at working depth may result in driving the outside shanks deeper in the ground, causing damage to shanks or frame members. If short turns must be executed, raise the field cultivator out of the ground and complete the turn before engaging the tool for further tilling.

When lifting the field cultivator completely out of the ground, hold the tractor hydraulic valve open for a second or two to resynchronize the slave cylinders.

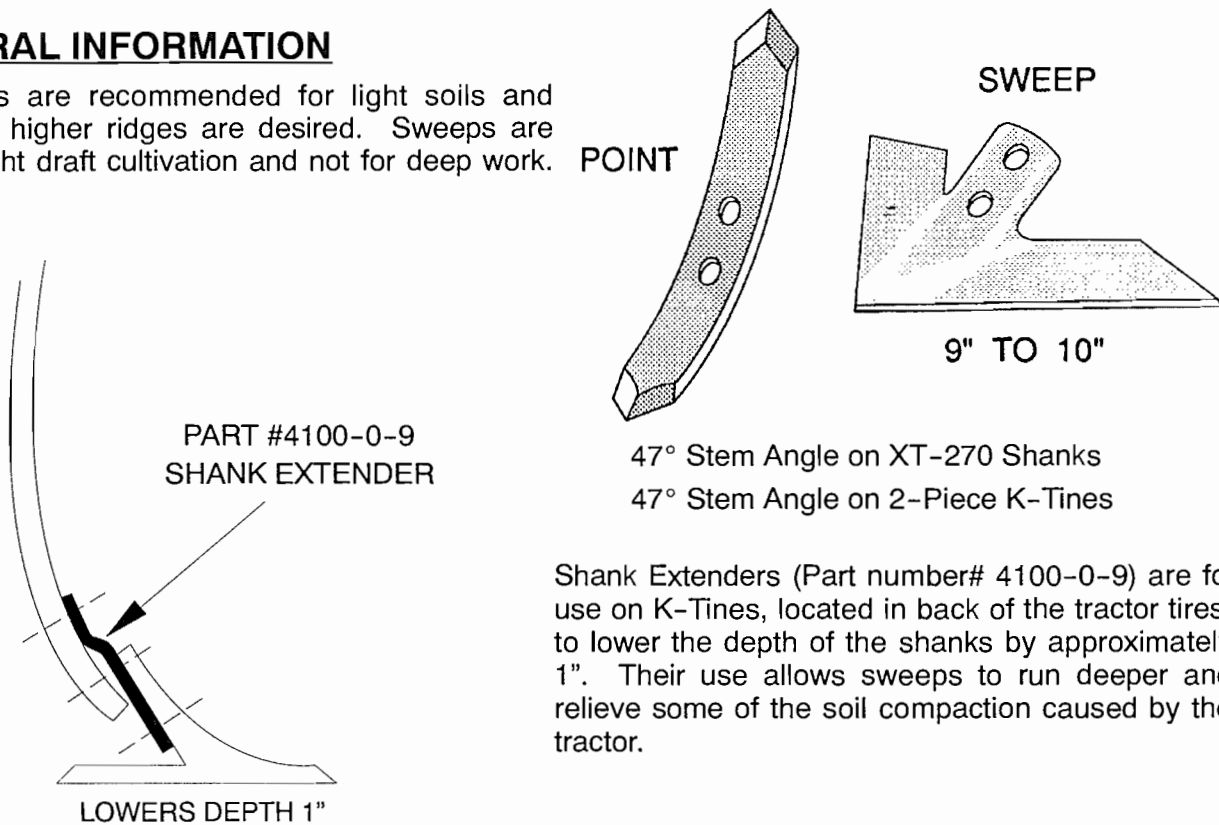
See section "UNDERSTANDING YOUR REPHASING CYLINDER SYSTEM" on page O11.

Field Speed

While high field speed of around 7 M.P.H. may be recommended for weed killing purposes in light soil and shallow depth, a slower speed is recommended for heavy soils and deep work. Slower speed will also add life to field cultivator points and sweeps.

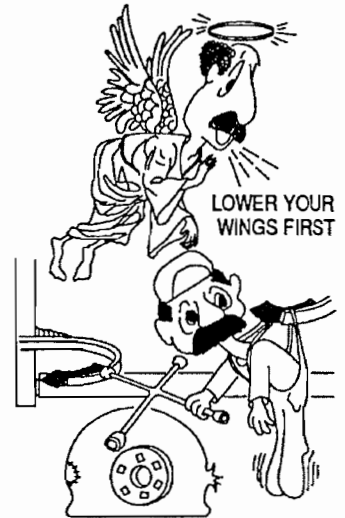
GENERAL INFORMATION

Points are recommended for light soils and when higher ridges are desired. Sweeps are for light draft cultivation and not for deep work.



Shank Extenders (Part number# 4100-0-9) are for use on K-Tines, located in back of the tractor tires, to lower the depth of the shanks by approximately 1". Their use allows sweeps to run deeper and relieve some of the soil compaction caused by the tractor.

! Danger: The wing mounted shanks and points can seriously injure anyone that gets too close. Never under any circumstances should anyone be allowed to walk or work under a wing that is in the raised transport position.



SERVICING

General Maintenance

All nuts should be checked and tightened during and after the first 1/2 day of operation, and periodically thereafter. Keep tires inflated to the recommended pressure, and check the wheel bolts until they are firmly seated. Hydraulic hoses should be checked for wear and pinched areas and replaced if necessary. Check shanks and mountings for breaks and turn or replace points when worn.

NOTE: When turning or replacing points, be sure to turn or replace all of the points.

! Warning: Raise the cultivator and make sure that the center road lock and wing depth stops are pinned in front holes before working around cultivator point or sweeps.

Lubrication



The initial lubrication of all grease fittings will assure long life and satisfactory performance from the field cultivator. Minimum lubrication is required. Use a multi-purpose type grease at all grease zerk locations after each 24 hours of operation. Rocker shaft bearing clamps will accept grease more efficiently if the whole unit is lowered to the ground with the weight of the unit removed from the wheels. points of lubrication are: wing hinges, walking tandem bearings, wheel hubs, and depth stop assemblies.

FOR YOUR SAFETY: WHEN LUBRICATING OR ADJUSTING YOUR FIELD CULTIVATOR, WATCH FOR OBSTRUCTIONS AND PROTRUSIONS. LOWER IMPLEMENT WINGS TO THE GROUND AND ENTER FRAMEWORK BY STEPPING OVER. DO NOT WALK ON TIRES.

Wheel Bearings

Grease wheel bearings every 48 hours of use. Check for excessive end play each time bearings are greased. Once a year, clean and repack wheel bearings with EP#2 Grease. Replace seals each time bearings are removed. Replace any worn or damaged parts. After repacking, replace hub with seal and rear bearing already assembled. Use light oil on seal surface and use extreme care when pushing seal over the spindle. Install outer bearings, flat washer, and slotted nut. Tighten nut while turning hub until there is resistance to rotation. Then back off nut from 1 to 2 slots until hub turns freely without end play. Secure nut with clinched cotter pin.

Walking Beam Maintenance

Grease walking beam bearings every 24 hours of use. Check, clean, and repack walking beam bearings each year in a procedure similar to that of wheel bearings.

When reassembling the walking beam, tighten the slotted axle nut in until there is a 5 to 10 ft. lb. preload on the bearings. **Do not back the axle nut off.**

Storage

Select a level area, lower the wings and set the field cultivator down on blocks to prevent points from settling into the ground. Retract the gauge wheel hydraulic cylinder. Coat sweeps and wing lift cylinder rods with rust preventative. Inspect for worn or damaged parts and replace as needed to avoid delays the next season. Check to be sure hydraulic hose couplers are stored on top of the tongue and not left laying on the ground.

Repair Parts

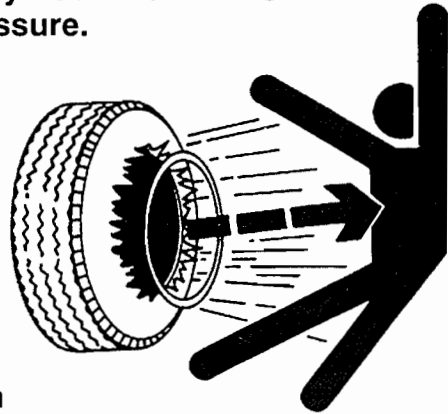
Refer to the Assembly Section of this book when repairing or replacing parts, and follow the same procedure as used when assembling a new unit. Reverse this procedure for disassembly. The Parts Section of this book will show a breakdown of assemblies, location of parts and part numbers.

KRAUSE parts were developed and tested for these units, therefore, it is recommended that KRAUSE replacement parts be used.

⚠ Caution: If replacing hydraulic hose, use only hose that meets or exceeds 3,000 PSI working pressure.

⚠ Caution: Explosive separation of a tire and rim parts can cause serious injury or death.

Always maintain the correct tire pressure. Do not inflate the tires above the recommended pressure. Inspect tires and wheels daily. Do not operate with low pressure, cuts, bubbles, damaged rims or missing lug bolts and nuts.



IMPORTANT: REPAIR OF HYDRAULIC CYLINDERS SHOULD BE MADE BY AN AUTHORIZED KRAUSE DEALER ONLY.

SUGGESTED REMEDIES FOR POSSIBLE FIELD PROBLEMS

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
Plugging	Straw is dragging	Work deeper
	Bunched trash	Work shallow the first time
	Field is too wet	Allow field to dry
	Shanks positioned wrong	Recheck shank spacing

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY	
Excessive Ridges	Loose point or sweep bolts	Tighten plow bolts or replace if missing	
	Improper shank spacing or shanks located wrong	Measure and relocate. If shank is shifting on frame, make sure shank is straight front to back when tightening hex nuts	
	Frame not level	Level frame at operating depth as described in operating instructions	
	Bent shank	Straighten or replace shank	
	Sweeps with old residue will cause soil build-up preventing necessary scouring for even flow	Remove trash and residue. Clean field cultivator after operation. Use rust preventative before storing	
Field cultivator will not lower	Road lock	Open road lock valve	
	Hose couplers not locked in tractor sockets	Check hydraulic hose connectors	
	Oil not flowing through system	Plugged line or cylinder	Look for restrictor ell in rocker cylinder plumbing. Replace with STD. 90° ell.
Field cultivator does not follow directly behind tractor	Points are different length	Replace or turn	
	Bent shanks	Replace or straighten shanks	
	Wings out of adjustment	Readjust wing depth stop assemblies. See pages O8 - O10	
	Bent rocker shaft	Replace or straighten	
	Tire size or air pressure	All tires should be within $\pm 1/2$ " diameter	
		All tires should have same air pressure. See Specification page	
	Shank locations wrong	Check shank spacing. Correct if needed.	
		Check shank locations. Relocate correctly. See placement pages.	
Slave cylinder out-of-phase	Raise unit out of ground. Hold control lever open until cylinders are completely extended.		
Center section not level from side to side	Incorrect tire pressure	Check tire pressures. Inflate 11L x 15, 8-Ply tires to 44 PSI	
	Bent/ twisted rocker shaft/wheel arm	Replace or straighten	
	Bent frame	Replace or straighten	

PROBLEM	POSSIBLE CAUSE	SUGGESTED REMEDY
Wings not level from side to side	Wing too high	To lower wing; adjust wing depth stop. See pages O8 - O10
	Wing too low	To raise wing; adjust wing depth stop. See pages O8 - O10
	Wing lift cylinders not fully extended	Extend cylinder to maximum length; hold open briefly
	Slave cylinders out of phase	Raise unit out of ground, hold control lever open until cylinders are completely extended
Wings will not raise to transport position	Wing lift cylinder restrictors plugged	Remove, check & clear any foreign material that might plug small orifice in restrictor at rod end of cylinders
	Insufficient hydraulic pressure	Check tractor hydraulic system
Wings will not lower	Wings lock	Open wing lock valve
	Hose couplers not locked in tractor disconnect socket	Check hydraulic hose connectors
Wheels have excessive wobble	Loose wheel bolts	Torque wheel bolts from 90-95 Ft. Lbs.
	Loose spindle nut	Tighten spindle nut, turn back one notch and pin
Wings will not flex down	Wing lift cylinders not fully extended	Extend wing lift cylinders to max. length
Field cultivator will not penetrate	Sweeps have wrong angle	Use 47° stem angle sweep. Point of sweep must be level or slightly lower than wing, if not place a 3127-25-3 shim between sweep and shank.
	Ground is too hard	Wait for moisture
	Dull points	Replace or turn over
	Excessive field speed	Slow to 5-MPH or less
	Cultivator not set deep enough	To increase depth; lower all depth stops See page O10

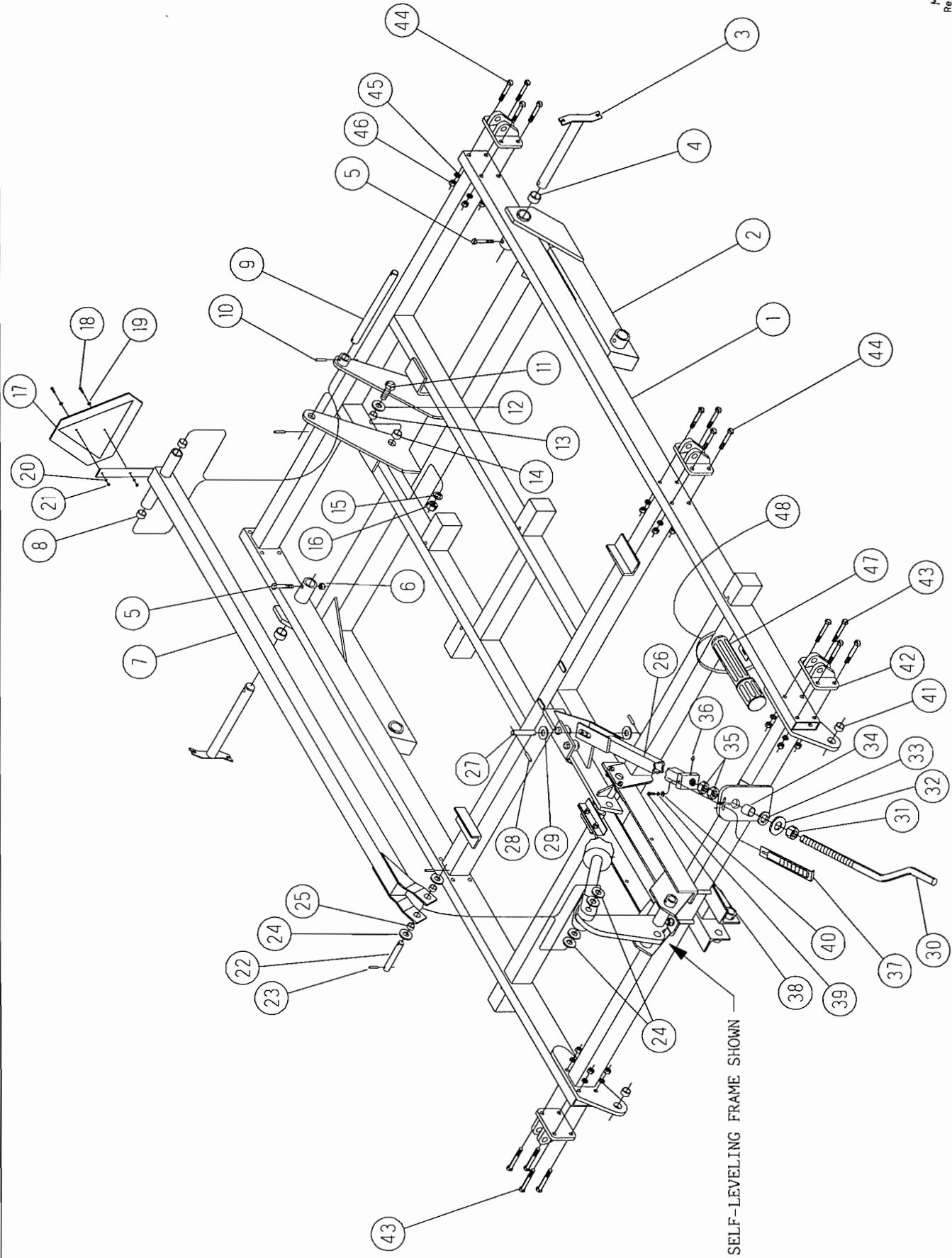
*** IMPORTANT: DO NOT REMOVE SHANKS**

* NOTE: Removing shanks to obtain additional depth will cause the remaining shanks, and frame members on which these shanks are mounted to be overloaded. This could cause bent shanks, broken bolts or clamps, or twisted frame members.

PARTS SECTION

THE FOLLOWING ILLUSTRATED PARTS SECTION HAS BEEN COMPILED TO REFLECT PART NUMBERS REQUIRED TO ORDER PARTS, AND TO SUPPORT THE ASSEMBLY SECTION FOR DIMENSIONS AND DESCRIPTIONS OF ALL PARTS, BOLTS, PINS, ETC. THE OPERATOR CAN ALSO IDENTIFY PART NAMES TO CLARIFY PROPER OPERATIONAL STEPS.





SELF-LEVELING FRAME SHOWN

CENTER SECTION ASSEMBLY

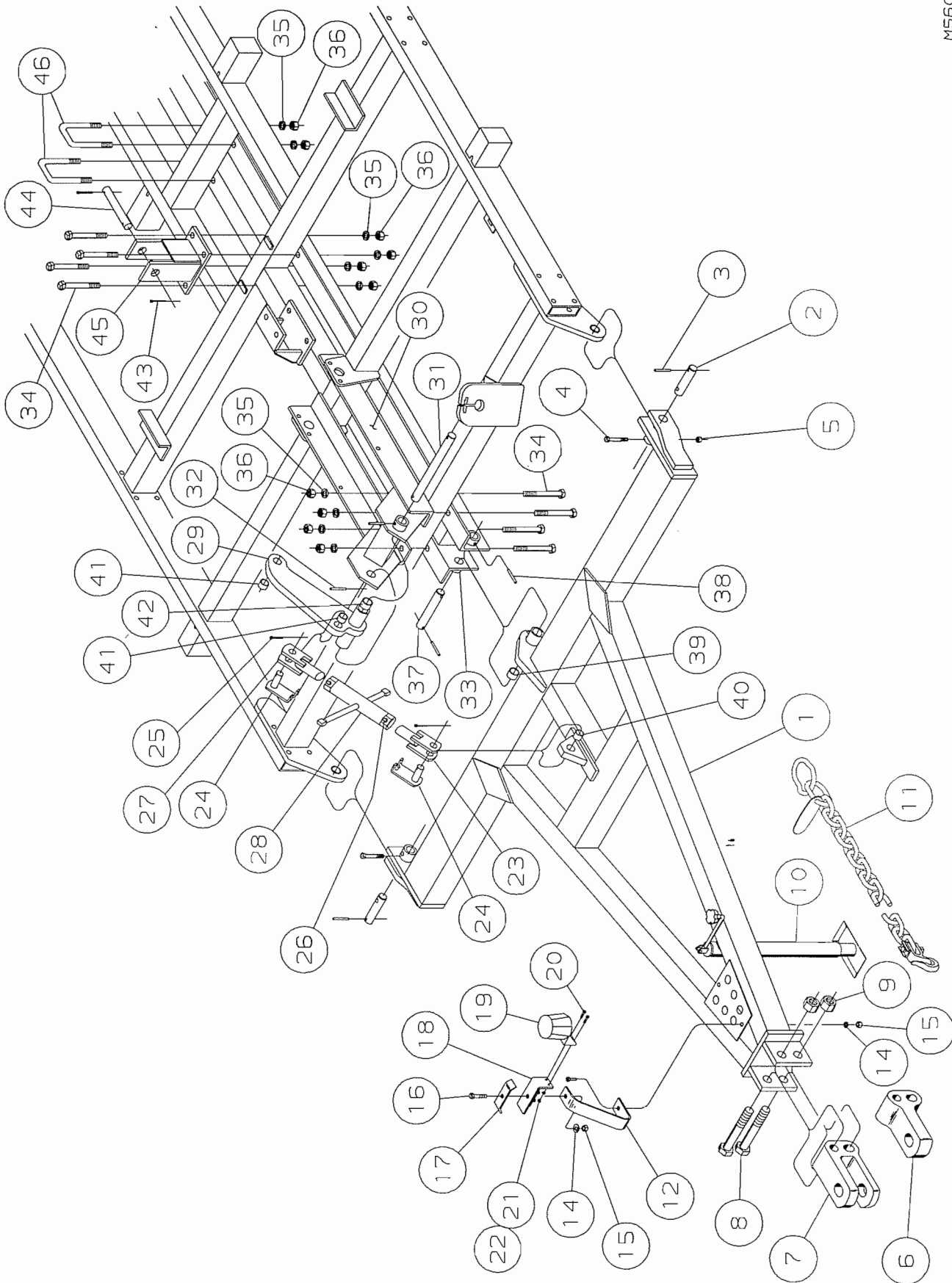
FOR MODELS - ALL

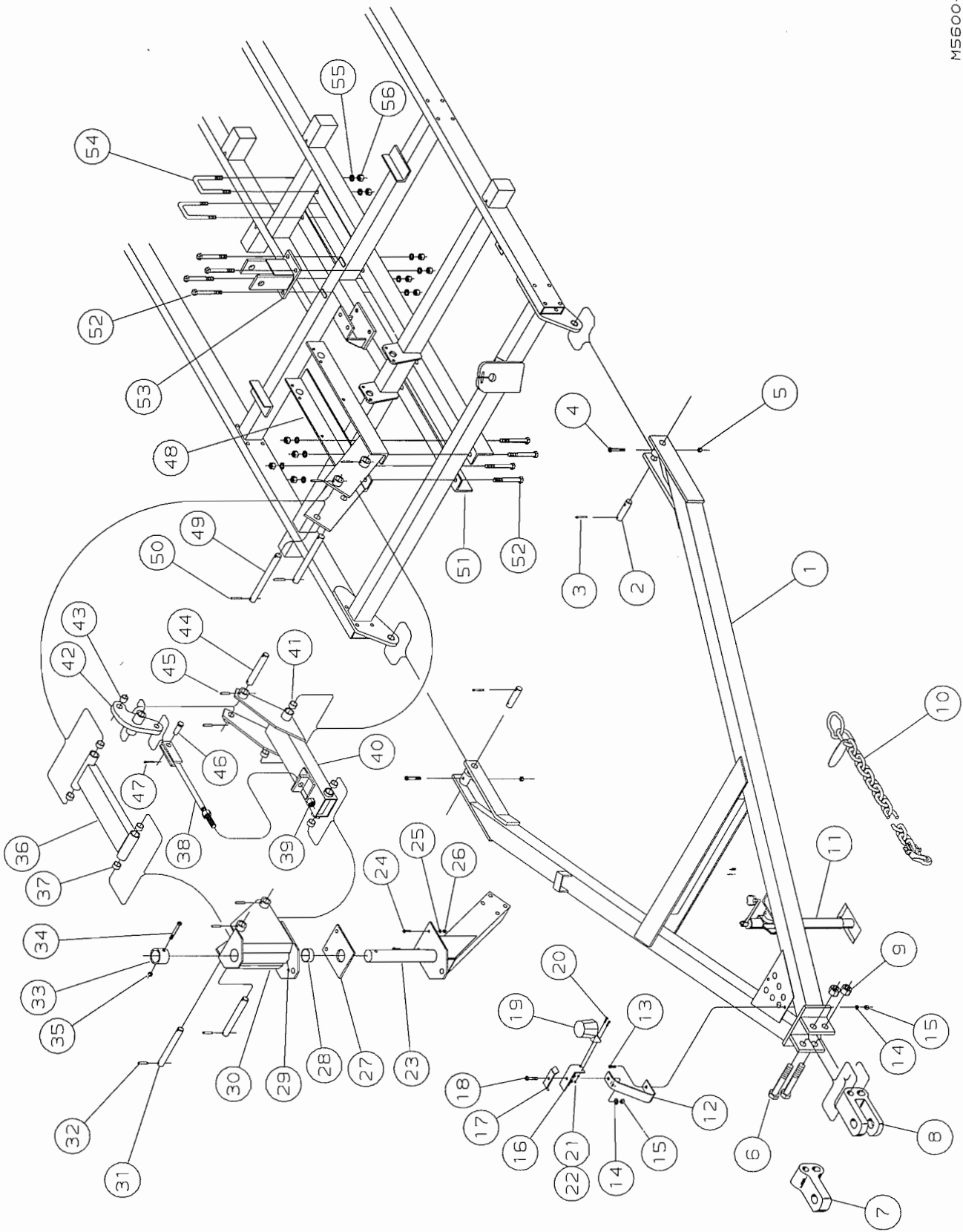
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Item	Part Number	Part Description	Qty.
1	5620-1-0A	Center Frame Weldment	1
2	5620-10-0A	Center Rocker Weldment	1
3	5620-52-0	1-3/4" DIA. x 16-1/4" Pin	2
4	53-146	Wear Sleeve 2" O.D. x 1-3/4" I.D. x 1-1/2"	2
5	62-176	5/8NC x 3-1/2" GD5 Cap Screw	2
6	63-110	5/8NC Lock Nut	2
7	5620-85-0	Center Link Weldment	1
8	53-113	Wear Sleeve 1-1/2" O.D. x 1-9/32" I.D. x 3/4"	2
9	5620-0-1	1-1/4" DIA. x 16-1/2" Pin	1
10	60-615	3/8" DIA. x 2" Roll Pin	2
11	62-238	1NC x 3" GD5 Cap Screw	2
12	64-119	1" STD. Flat Washer	2
13	53-102	Wear Sleeve 1-1/4" x 1" x 1"	2
14	53-113	Wear Sleeve 1-1/2" O.D. x 1-9/32" I.D. x 3/4"	2
15	64-118	1" STD. Lock Washer	2
16	63-117	1NC Hex Nut	2
17	74-487	SMV Sign	1
18	62-507	1/4NC x 3/4" GD5 Cap Screw	2
19	64-101	1/4" STD. Flat Washer	2
20	64-100	1/4" STD. Lock Washer	2
21	63-100	1/4NC Hex Nut	2
22	5620-0-3	1" DIA. x 6-5/16" Pin	1
23	60-611	5/16" DIA. x 2" Roll Pin	2
24	64-119	1" STD. Flat Washer	6
25	53-116	Wear Sleeve 1-1/4" O.D. x 1-1/16" I.D. x 1/2"	2
26	5620-83-0	Center Turnbuckle	1
27	5620-0-5	1" DIA. x 4-5/8" Pin	1
28	60-611	5/16" DIA. x 2" Roll Pin	2
29	64-119	1" STD. Flat Washer	2
30	4000-0-19	Crank	1
31	63-123	1-1/4NC Hex Nut	1
32	64-127	1-1/4" SAE Flat Washer	1
33	44-193	Nylon Washer 2-1/2" O.D. x 1-5/16" I.D. x 5/16"	1
34	5620-0-16	Spacer Tube 1-1/2" O.D. x 1-1/4" I.D. x 1-3/16"	1
35	63-124	1-1/4NC Hex Jam Nut	2
36	65-113	1/4" UNF Zerk	1
37	5620-0-7	Depth Gauge - shown with decal # 74-489	1
38	62-108	3/8NC x 1" GD5 Cap Screw	1
39	64-103	3/8" STD. Lock Washer	1
40	64-104	3/8" STD. Flat Washer	1
41	53-113	Wear Sleeve 1-1/2" O.D. x 1-9/32" I.D. x 3/4"	2
42	5660-0-14	Main Frame Hinge (Double)	6
43	62-339	5/8NC x 4-1/2" GD5 Cap Screw	8
44	62-176	5/8NC x 3-1/2" GD5 Cap Screw	16
45	64-109	5/8" STD. Lock Washer	24
46	63-109	5/8NC Hex Nut	24
47	99-192	Owner's Manual Storage Canister	1
48	25-1163	Hose Clamp	1

● Self Leveling Hitch Option (Shown)

★ Floating Hitch Option uses (4) 62-210 3/4NC x 6" GD5 Cap Screws



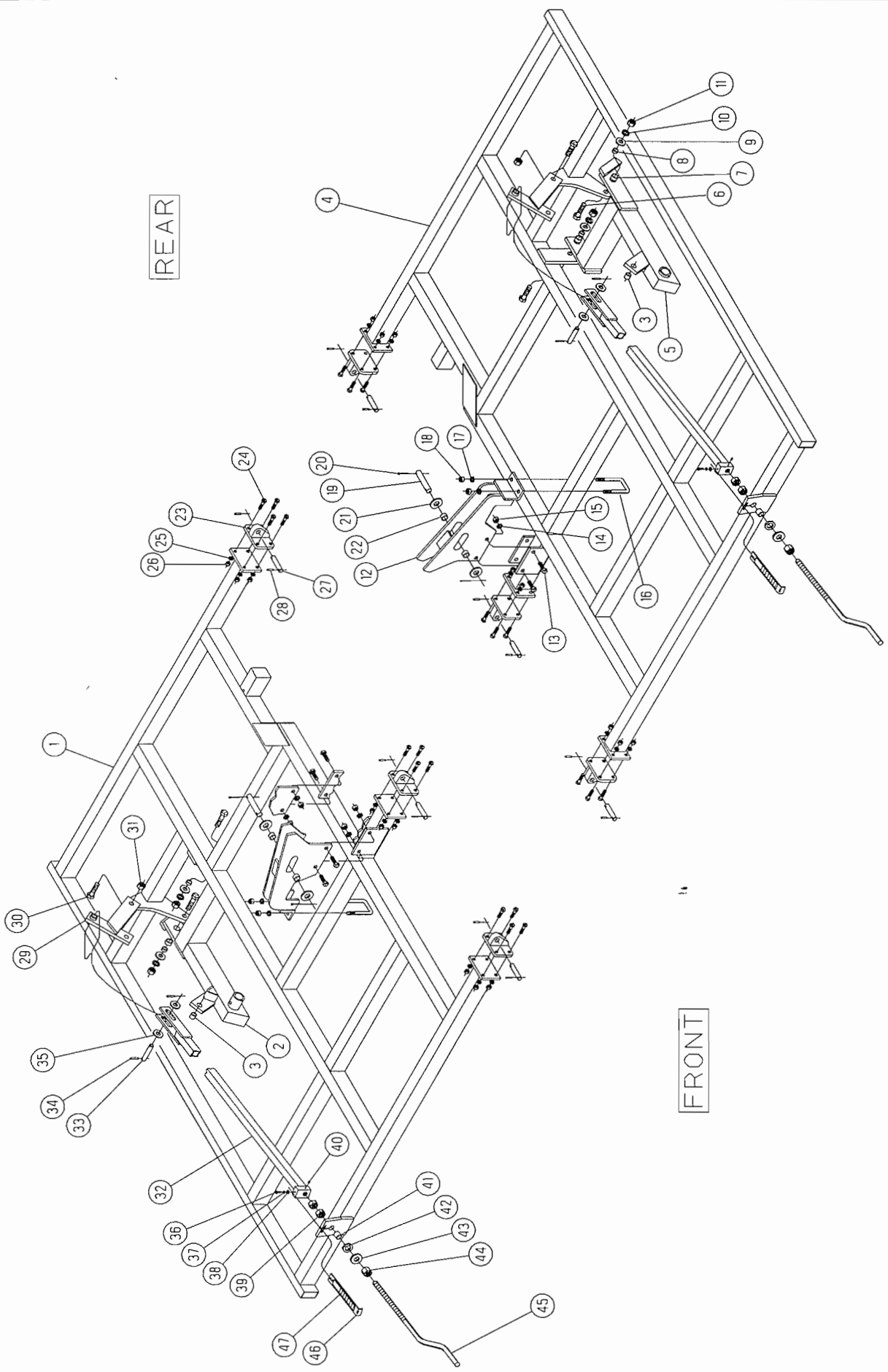


FLOATING HITCH ASSEMBLY

FOR MODELS - ALL

5/99

Item	Part Number	Part Description	Qty.
1	5620-40-0	Tongue Weldment	1
2	5620-0-4	1-1/4" DIA . x 5" Pin	2
3	60-617	3/8"DIA . 2-1/2" Roll Pin	2
4	62-151	1/2NC x 3" GD5 Cap Screw	2
5	63-107	1/2NC Lock Nut	2
6	62-275	1-1/4NC x 7-1/2" Cap Screw	2
7	3950-0-11	Double Clevis 1-3/8" Max. Pin	1
8	3950-0-10	Single Clevis (1-5/8" x 2-1/8" Hole)	1
9	63-126	1-1/4NC Lock Nut	2
10	72-351	10,000 Lb. Safety Chain	1
11	73-100	Jack Assembly	1
12	2145-170-3	Hose Carrier	1
13	62-300	1/2NC x 1" GD5 Cap Screw	1
14	64-107	1/2" STD. Lock Washer	2
15	63-106	1/2NC Hex Nut	2
16	3991-0-1	Hose & Plug Plate	1
17	2426-170-5	Hose Clamp	1
18	62-343	1/2NC x 2" GD5 Cap Screw	1
19	79-397	Plug Storage Receptacle	1
20	62-417	1/4NC x 1" GD5 Cap Screw	2
21	64-100	1/4" STD. Lock Washer	2
22	63-100	1/4NC Hex Nut	2
23	5620-41-0	Castor Weldment	1
24	62-108	3/8NC x 1" GD5 Cap Screw	2
25	64-103	3/8" STD. Flat Washer	2
26	63-102	3/8NC Hex Nut	2
27	5620-0-23	Castor Bearing	1
28	53-145	2.75"O.D. x 2.51" I.D. x 1.50" Wear Bushing	1
29	65-113	1/4"UNF Grease Zerk	2
30	5620-37-0	Castor Frame	1
31	5620-0-9	1-1/4"DIA. x 10" Pin	2
32	60-615	3/8" DIA. x 2" Roll Pin	4
33	5620-0-11	Collar	1
34	62-377	1/2NC x 4" GD5 Cap Screw	1
35	63-108	1/2NC Lock Nut	1
36	5620-29-0	Upper Link	1
37	53-113	1.50" O.D. x 1.28" I.D. x .75" Wear Bushing	4
38	5620-26-0	Adjustment Rod	1
39	63-117	1NC Hex Nuts	2
40	5620-39-0	Lower Link	1
41	53-113	1.50" O.D. x 1.28" I.D. x .75" Wear Bushing	4
42	5620-24-0	Cylinder Lug	1
43	53-102	1.25"O.D. x 1.02" I.D. x 1" Wear Bushing	1
44	5620-0-10	Float Adjustment Pin	1
45	60-615	3/8"DIA. x 2" Roll Pin	2
46	60-238	1"DIA. x 2-1/4" Clevis Pin	1
47	60-704	3/16"DIA. x 2" Cotter Pin	1
48	5620-28-0	Floating Frame	1
49	5620-0-2	1-1/4"DIA. x 12-1/2" Pin	2
50	60-615	3/8"DIA. x 2" Roll Pin	4
51	5620-0-15A	Angle Guide	2
52	62-210	3/4NC x 6"GD5 Cap Screw	8
53	5620-84-0	Center Fold Lug Weldment	1
54	61-232	3/4" DIA. x 3-1/16" x 5-1/2" U-Bolt	2
55	64-112	3/4" STD. Lock Washer	12
56	63-112	3/4NC Hex Nut	12



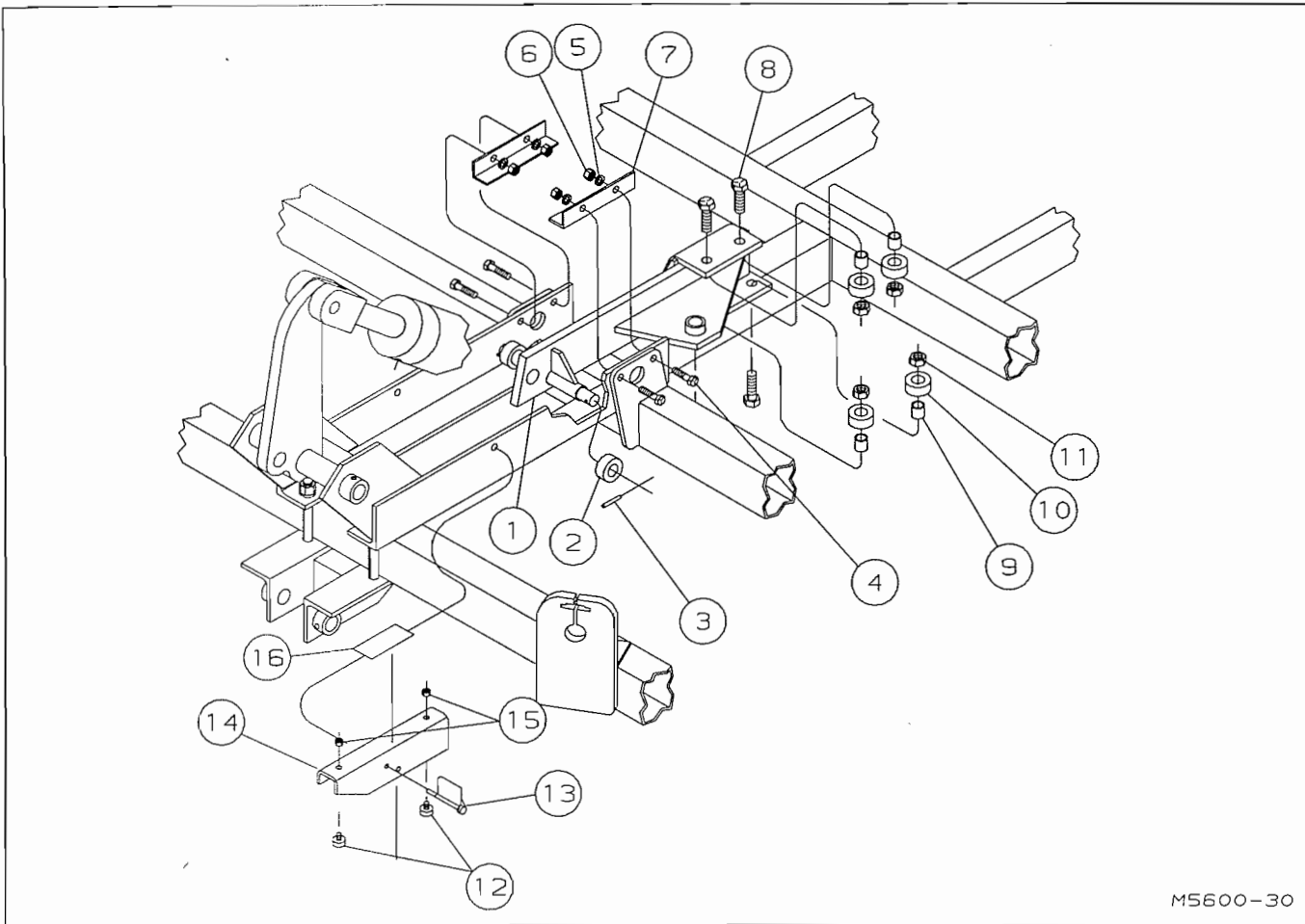
WING FRAME ASSEMBLY

FOR MODELS - ALL

5/99

<i>Item</i>	<i>Part Number</i>	<i>Part Description</i>	<i>Qty.</i>
1	5620-20-0A	Right Wing Frame Weldment	1
	5625-20-0A	Right Wing Frame Weldment (Shown)	1
2	5620-13-0A	Right Wing Rocker Weldment	1
3	53-102	Wear Bushing	2
4	5620-18-0A	Left Wing Frame Weldment	1
	5625-18-0A	Left Wing Frame Weldment (Shown)	1
5	5620-12-0A	Left Wing Rocker Weldment	1
6	62-240	1NC x 3-1/2" GD5 Cap Screw	4
7	53-113	Wear Bushing	4
8	53-102	Wear Bushing	4
9	64-119	1" STD. Flat Washer	4
10	64-118	1" STD. Lock Washer	4
11	63-117	1NC Hex Nut	4
12	5620-89-0	Wing Lift Assembly	2
13	62-421	3/4NC x 2" GD5 Cap Screw	8
14	64-112	3/4" STD. Lock kWasher	4
15	63-112	3/4NC Hex Nut	4
16	61-232	3/4" DIA. U-Bolt	4
17	64-112	3/4" STD. Lock Washer	8
18	63-112	3/4NC Hex Nut	8
19	2145-0-6	1-1/4" DIA. x 5-7/8" Wing Lift Pin	2
20	60-705	3/16" DIA. x 2-1/2" Cotter Pin	4
21	64-126	1-1/4" STD. Flat Washer	4
22	53-113	Wear Bushing 1-1/2" O.D X 1-1/4" I.D. x 3/4"	4
23	5660-0-15	Wing Hinge Casting - Single	6
24	62-169	5/8NC x 2" GD5 Cap Screw	24
25	64-109	5/8" STD. Lock Washer	24
26	63-109	5/8NC Hex Nut	24
27	5648-0-2	1" DIA. x 4-3/8" Hinge Pin	6
28	60-610	5/16" DIA. x 1-1/2" Roll Pin	12
29	5620-33-0	Link	2
30	62-238	1NC x 3" GD5 Cap Screw	2
31	63-119	1NC Lock Nut	2
32	5620-34-0	Wing Turnbuckle	2
33	5620-0-5	1" DIA. x 4-5/8" Pin	2
34	60-611	5/16" DIA. x 2" Roll Pin	4
35	64-119	1" STD. Flat Washer	4
36	62-108	3/8NC x 1" GD5 Cap Screw	2
37	64-103	3/8" STD. Lock Washer	2
38	64-104	3/8" STD. Flat Washer	2
39	63-124	1-1/4NC Hex Jam Nut	2
40	65-113	1/4"UNF Grease Zerk	2
41	5620-0-16	Spacer Tube	2
42	44-193	Nylon Washer 2-1/2" O.D. x 1-5/16" I.D. x 5/16"	2
43	64-127	1-1/4"SAE Flat Washer	2
44	63-123	1-1/4NC Hex Nut	2
45	4000-0-19	Crank	2
46	5620-0-7	Depth Gauge	2
47	74-489	Depth Decal	2

CENTER CYLINDER LUG ASSEMBLY



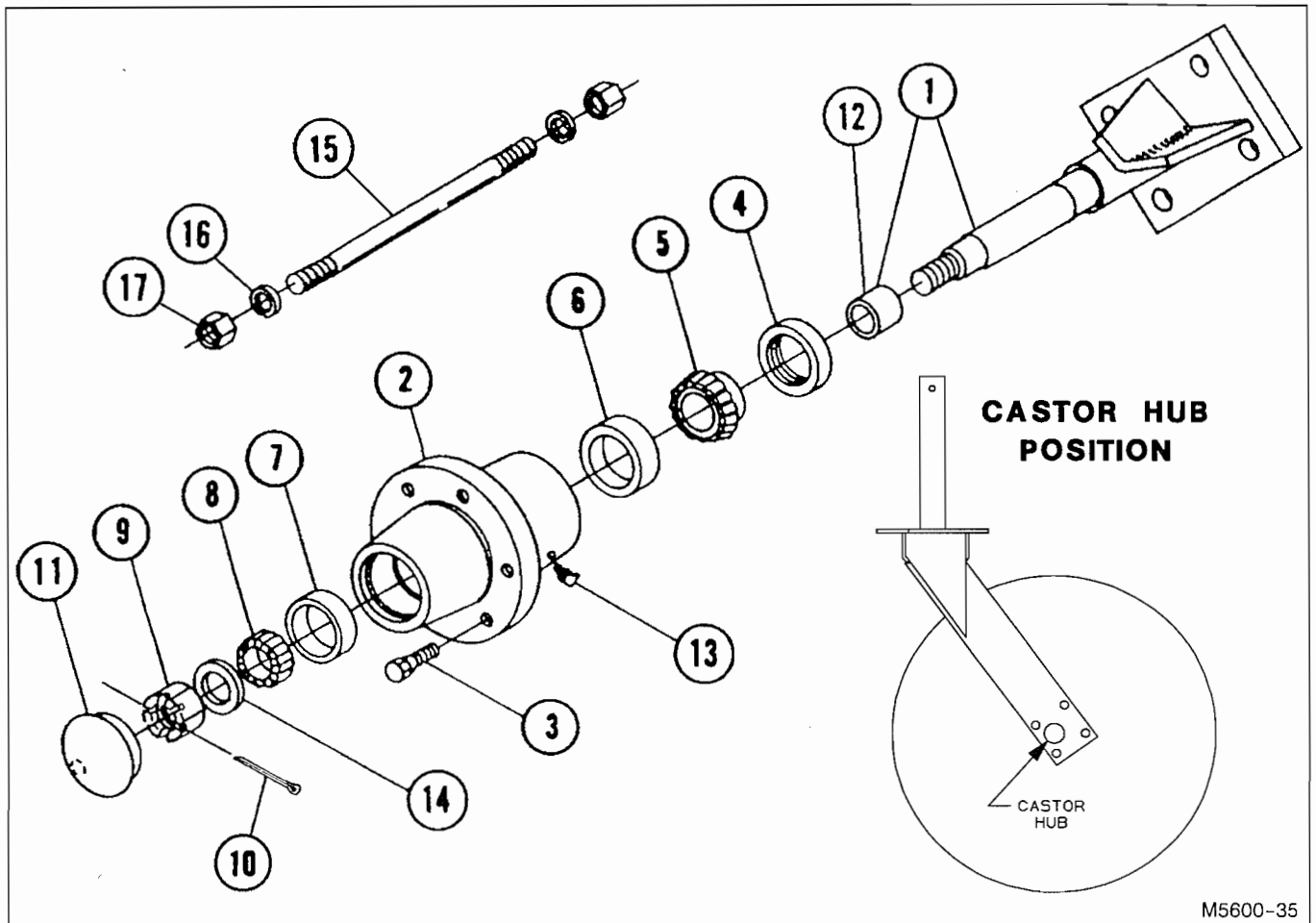
M5600-30

FOR MODELS -

6/98

Item	Part Number	Part Description	Qty.
1	5620-80-0	Center Cylinder Lug Weldment	1
2	5620-0-21	Roller	2
3	60-605	1/4" DIA. x 1-1/2" Roll Pin	2
4	62-414	1/2NC x 1-3/4" GD5 Cap Screw	4
5	64-107	1/2" STD. Lock Washer	4
6	63-106	1/2NC Hex Nut	4
7	5620-0-12	Angle Guide	2
8	62-421	3/4NC x 2" G5 Cap Screw	4
9	5620-0-22	1" x 3/4" x 15/16" Bushing	4
10	5620-0-21	Roller	4
11	63-113	3/4NC Hex Jam Nut	4
12	44-107	Rubber Threaded Bumper	2
13	60-103	P.T.O. Lock Pin	1
14	6124-17-1	Road Lock Channel	1
15	63-102	3/8NC Hex Nut	2
16	74-365	Road Lock Decal	1

HUB ASSEMBLY



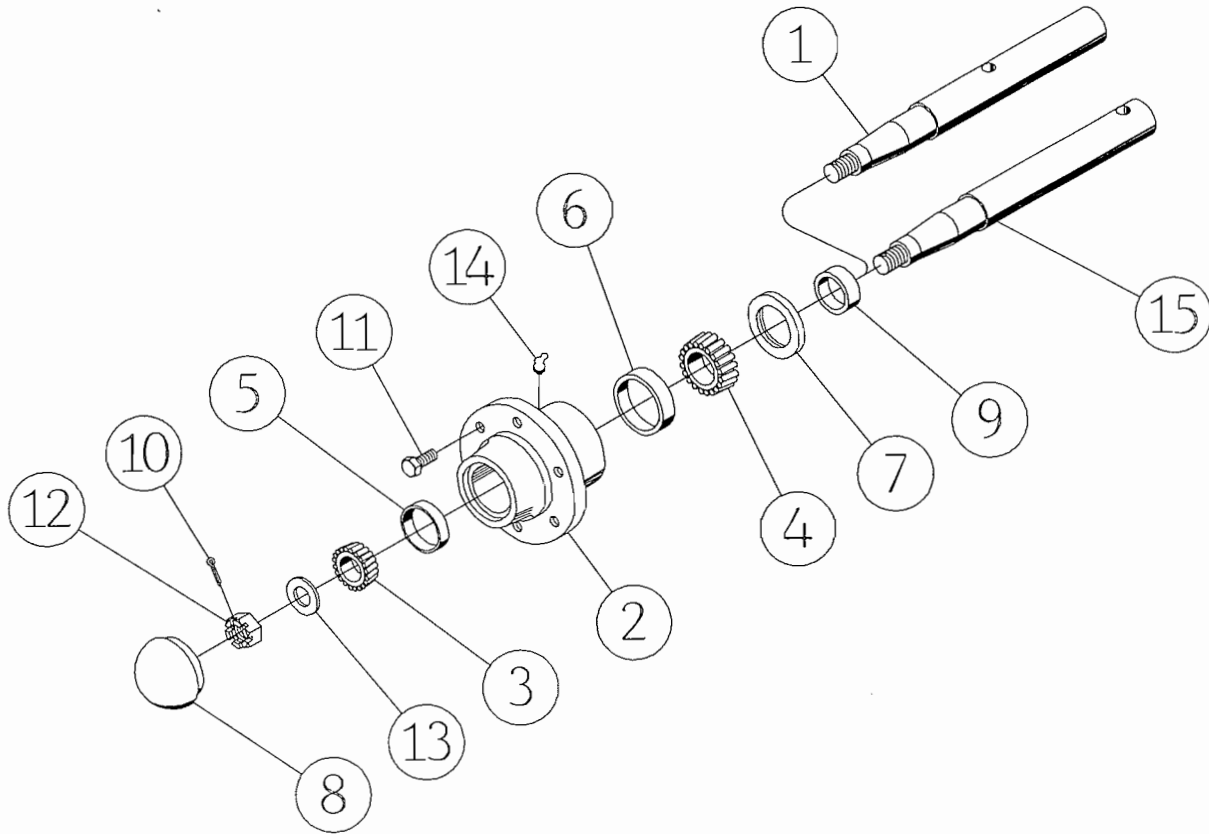
M5600-35

FOR MODELS - ALL

1/99

Item	Part Number	Part Description	Qty.
	1918-17-0	Hub and Axle Assembly	Spec.
1	1918-15-0	Repair Spindle and Sleeve Assembly	1
2	1918-14-0A	Repair Hub Assembly (Includes Items 2, 3, 6, 7 and 13)	1
3	62-295	Wheel Bolt - 9/16NF x 1-1/8" GD.5	6
4	42-108	Seal	1
5	41-113	Rear Cone	1
6	41-209	Rear Cup	1
7	41-208	Front Cup	1
8	41-112	Front Cone	1
9	63-204	1NF Slotted Nut	1
10	60-702	3/16" DIA. x 1-1/2" Cotter Key	1
11	52-302	Hub Cap	1
12	53-105	Wear Ring	1
13	65-122	1/4" x 65° Drive Zerk	2
14	64-120	1" SAE Flat Washer	1
15	62-302	3/4NC x 7-3/8" Axle Stud Bolt	4
16	64-112	3/4" STD. Lock Washer	10
17	63-112	3/4NC Hex Nut	10
	1918-84-0	Hub Bearing Repair Kit (Includes Items 4, 5, 6, 7, 8)	

HUB ASSEMBLY



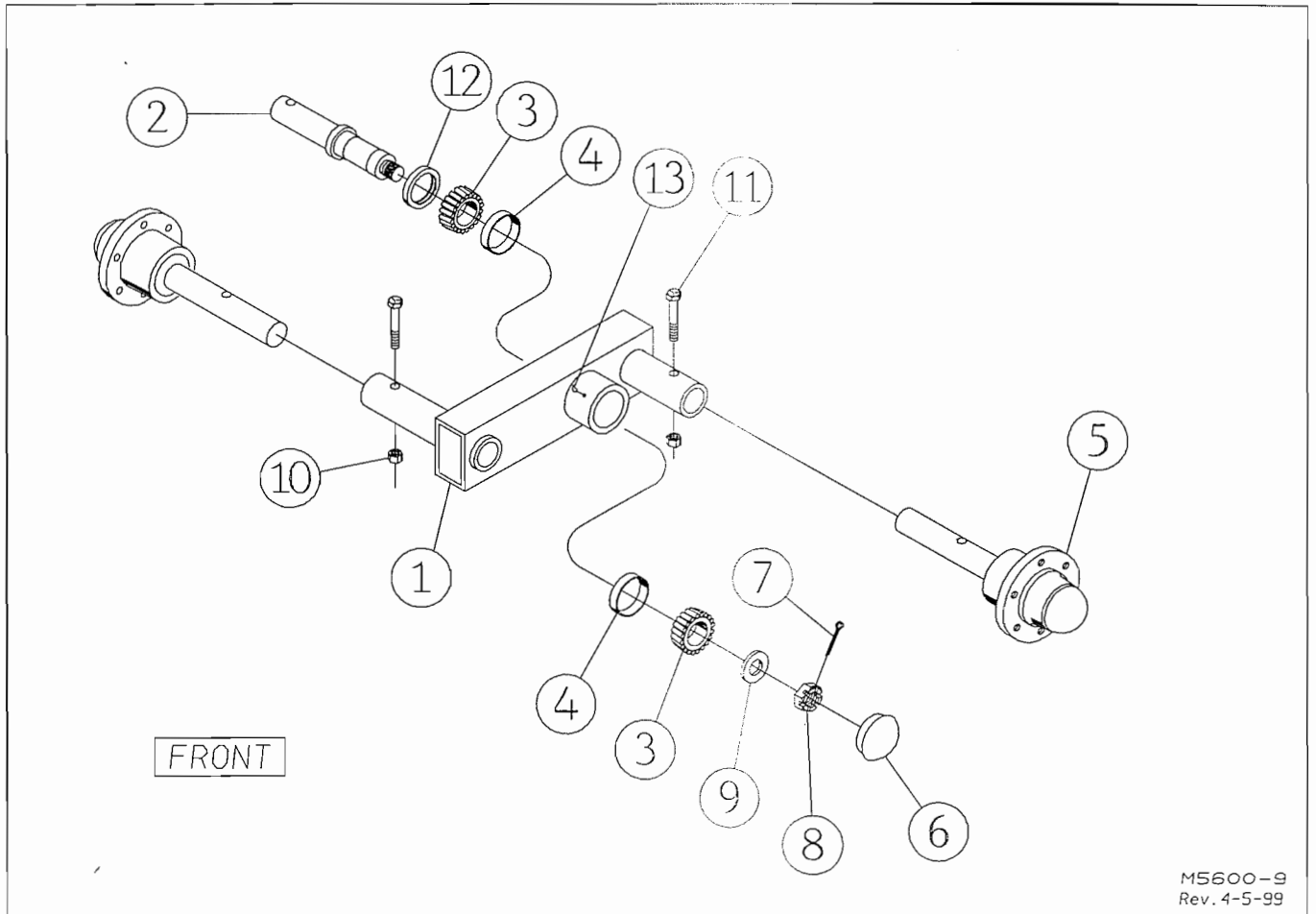
M5600-8
Rev. 4/99

FOR MODELS - ALL

1/99

Item	Part Number	Part Description	Qty.
	4122-17-0	Hub Assembly (Center)	1
	5620-27-0	Wing Hub Assembly	1
1	4122-13-0	Center Repair Spindle and Sleeve Assembly - (Includes Item 9)	1
2	1918-14-0A	Repair Hub Assembly (Includes Items 2, 5, 6, 11 and 14)	1
3	41-112	Front Cone	1
4	41-113	Rear Cone	1
5	41-208	Front Cup	1
6	41-209	Rear Cup	1
7	42-108	Seal	1
8	52-302	Hub Cap	1
9	53-105	Wear Ring	1
10	60-702	3/16" DIA. x 1-1/2" Cotter Key	1
11	62-295	Wheel Bolt - 9/16NF x 1-1/8" GD.5	6
12	63-204	1NF Slotted Nut	1
13	64-120	1" SAE Flat Washer	1
14	65-122	1/4" x 65° Drive Zerk	2
15	5620-115-0	Wing Repair Spindle and Sleeve Assembly - (Includes Item 9)	1
	1918-84-0	Hub Bearing Repair Kit (Includes Items 4, 5, 6, 7, 8)	

CENTER WALKING BEAM ASSEMBLY



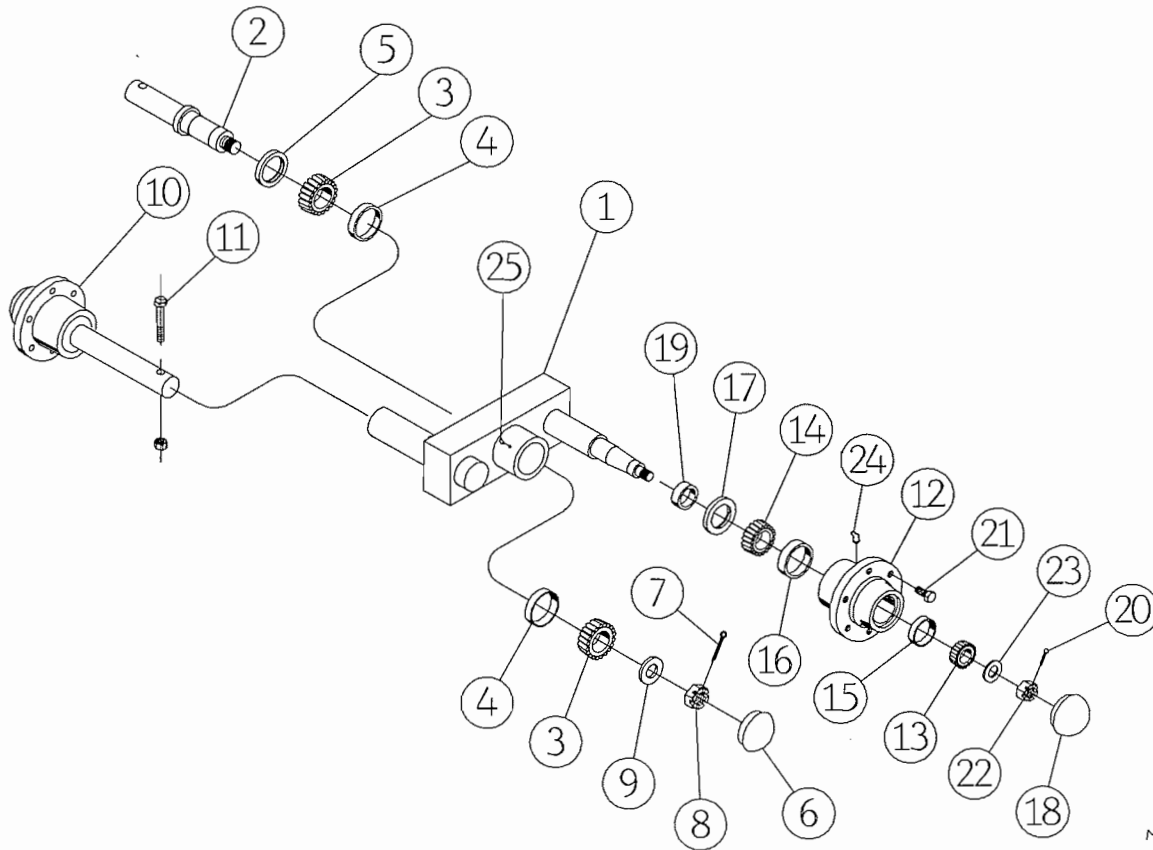
M5600-9
Rev. 4-5-99

FOR MODELS - ALL

5/99

Item	Part Number	Part Description	Qty.
	5620-57-0A	Center Walking Beam Assembly	1
1	5620-55-0A	Repair Walking Beam Weldment (Includes Item 4)	1
2	5620-56-0A	Spindle Weldment	1
3	41-114	Cone	2
4	41-210	Cup	2
5	* 4122-17-0	Hub and Spindle Assembly	2
6	52-307	Grease Cap	1
7	60-708	1/4" DIA. x 1-3/4" Cotter Pin	1
8	63-231	1-1/4NF Slotted Jam Nut	1
9	64-167	Special Washer	1
10	63-110	5/8NC Lock Nut	2
11	62-176	5/8NC x 3-1/2" GD5 Cap Screw	2
12	42-131	Seal	1
13	65-122	1/4" x 65° Drive Zerk	
* See page P12 for parts listing			

WING WALKING BEAM ASSEMBLY



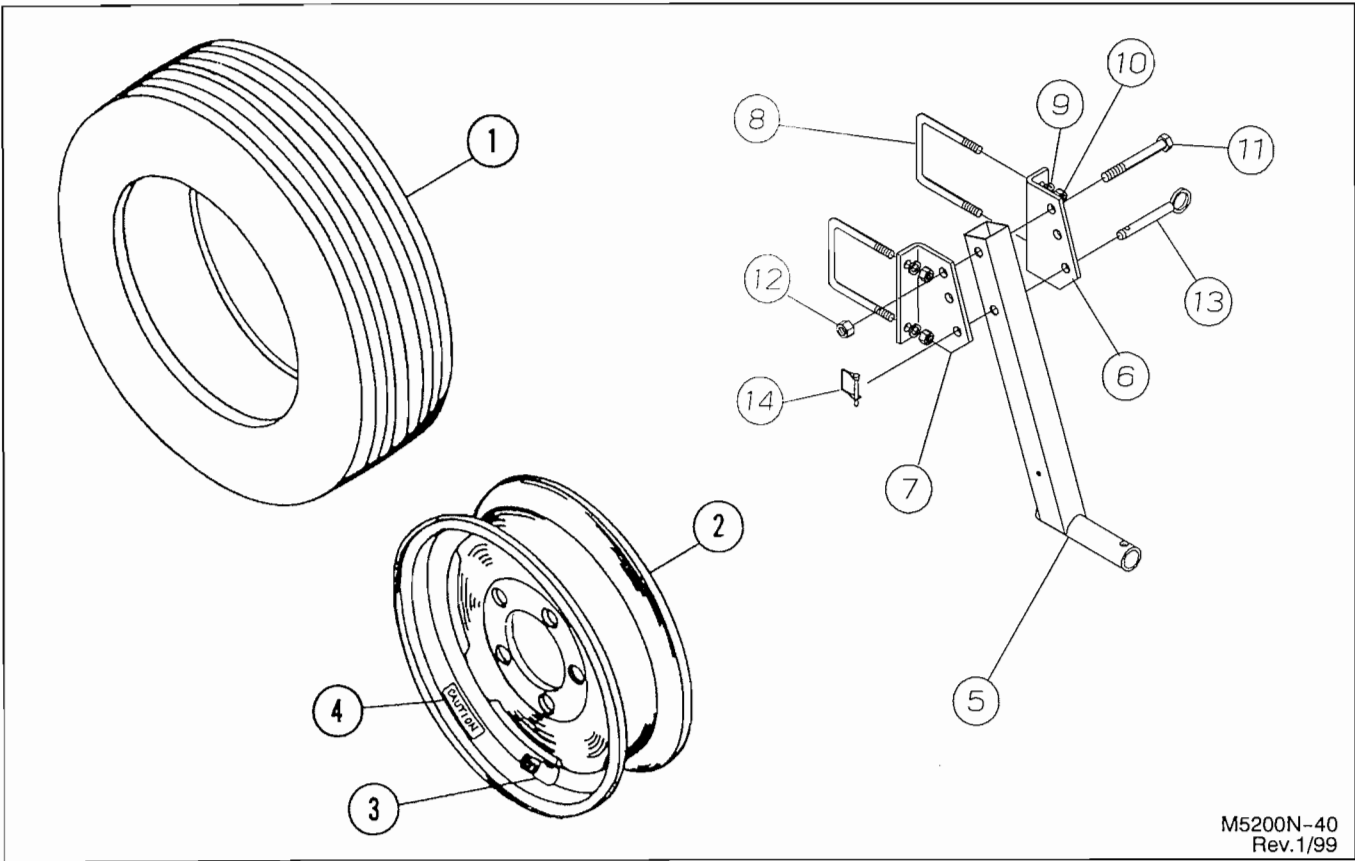
M5600-7
Rev.4/99

FOR MODELS - ALL

5/99

Item	Part Number	Part Description	Qty.
	5620-47-0	Wing Walking Beam Assembly	1
1	5620-45-0	Repair Wing Walking Beam Weldment (Includes Item 4)	1
2	5620-56-0A	Spindle Weldment	1
3	41-114	Cone	2
4	41-210	Cup	2
5	42-131	Seal	1
6	52-307	Grease Cap	1
7	60-708	1/4" DIA. x 1-3/4" Cotter Pin	1
8	63-231	1-1/4NF Slotted Jam Nut	1
9	64-167	Special Washer	1
10	5620-27-0	Hub and Spindle Assembly	1
11	62-176	5/8NC x 3-1/2" GD5 Cap Screw	1
12	1918-14-0A	Repair Hub Assembly (Includes Items 12, 15, 16, 21 and 24)	1
13	41-112	Front Cup	1
14	41-113	Rear Cone	1
15	41-208	Front Cup	1
16	41-209	Rear Cup	1
17	42-108	Seal	1
18	52-302	Hub Cap	1
19	53-105	Wear Ring	1
20	60-702	3/16" DIA. x 1-1/2" Cotter Pin	1
21	62-295	Wheel Bolt 9/16NF x 1-1/8" GD5	6
22	63-204	1NF Slotted Hex Nut	1
23	64-120	1" SAE Flat Washer	1
24	65-122	1/4" x 65 Drive Zerk	2
25	63-110	5/8NC Lock Nut	1
	1918-84-0	Hub Bearing Repair Kit (Includes Items 13, 14, 15, 16, 17)	

WHEELS AND TIRES



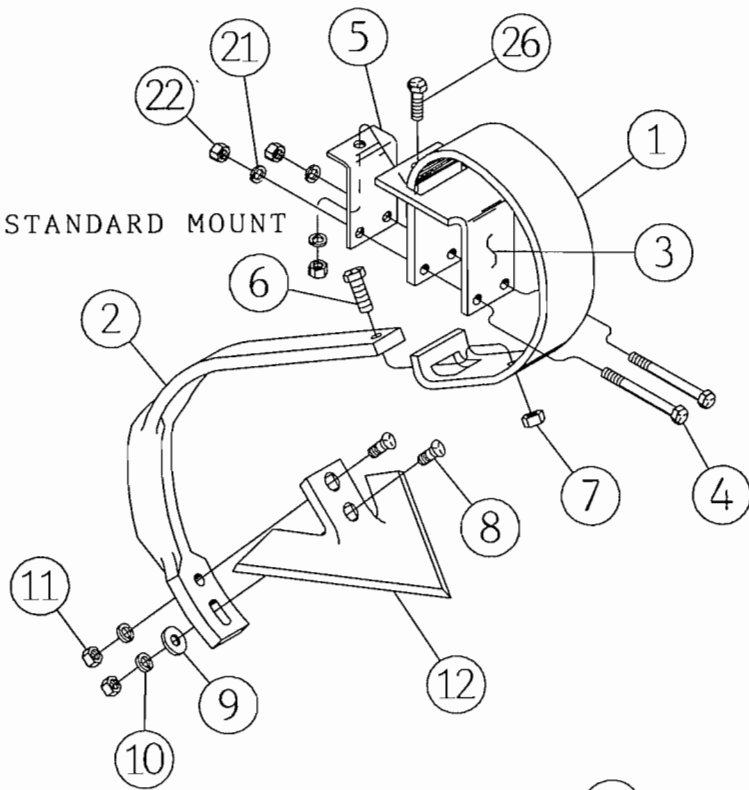
M5200N-40
Rev.1/99

FOR MODELS - ALL

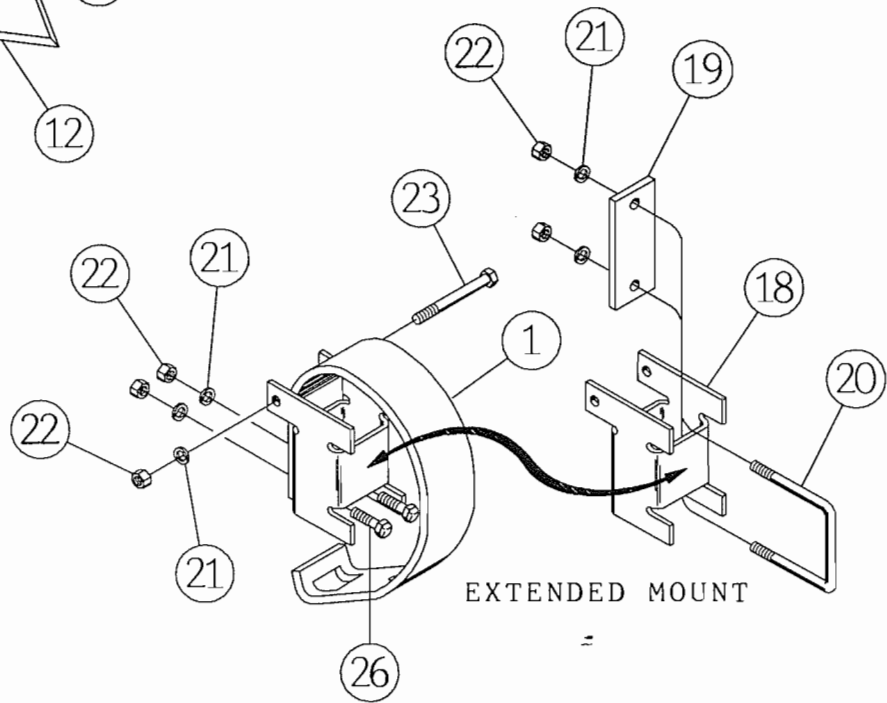
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Item	Part Number	Part Description	Qty.
	1000-11580-0	Wheel & Tire Assembly	1
1	51-106	Tire 11L x 15, 8-Ply	1
2	52-103	Wheel 15" x 10"	1
3	51-107	#415 Valve Stem	1
4	74-109	Decal - Check Wheel Bolt	1
	★ 1000-95588-0	Wheel & Tire Assembly (Front Wing Gauge Wheels)	1
1	51-102	Tire 9.5L x 15, 8-Ply	1
2	52-102	Wheel 15" x 8"	1
3	51-107	#415 Valve Stem	1
4	74-109	Decal - Check Wheel Bolt	1
	2330-85-0	Rear Jack Mount	1
5	2330-86-0	Post Weldment	1
6	2330-85-2	Right Bracket	1
7	2330-85-3	Left Bracket	1
8	61-123	U-Bolt 5/8"DIA. x 4-1/16"W x 5-3/8"L	2
9	64-109	5/8" STD. Lock Washer	4
10	63-109	5/8NC Hex Nut	4
11	62-203	3/4NC x 4-1/2" GD5 Cap Screw	1
12	63-114	3/4NC Lock Nut	1
13	2330-87-0	Pin Assembly	1
14	60-103	P.T.O. Lock Pin	1
★ Part of Floating Hitch Option			

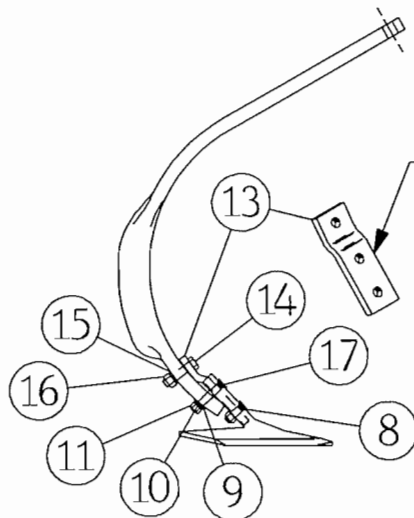
STANDARD MOUNT



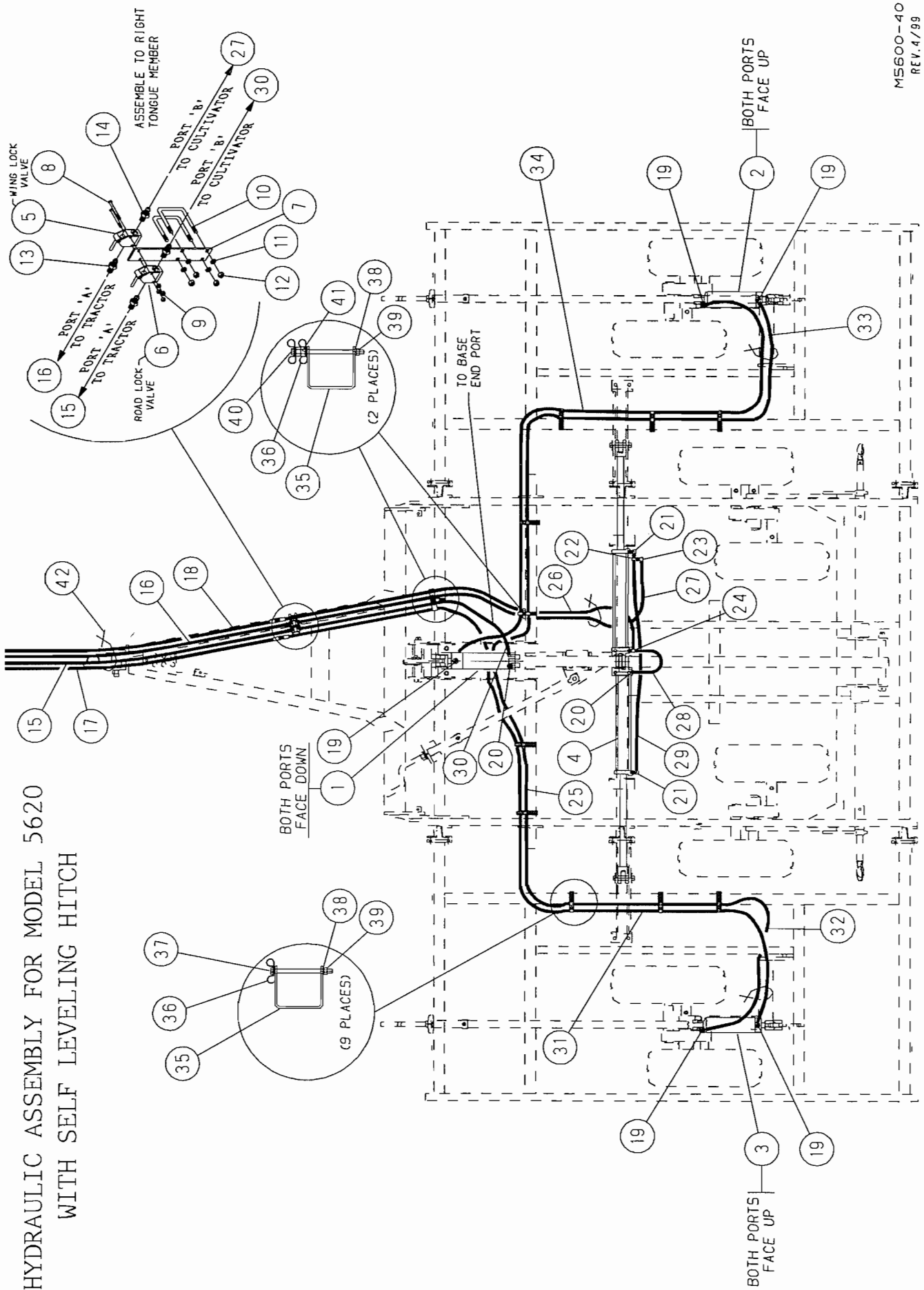
EXTENDED MOUNT



USE EXTENSION SHANK AT SHANK LOCATIONS IN TRACTOR TRACK IF NEEDED.



HYDRAULIC ASSEMBLY FOR MODEL 5620
WITH SELF LEVELING HITCH



M5600-40
REV. 4/99

HYDRAULICS ASSEMBLY: SELF LEVELING HITCH

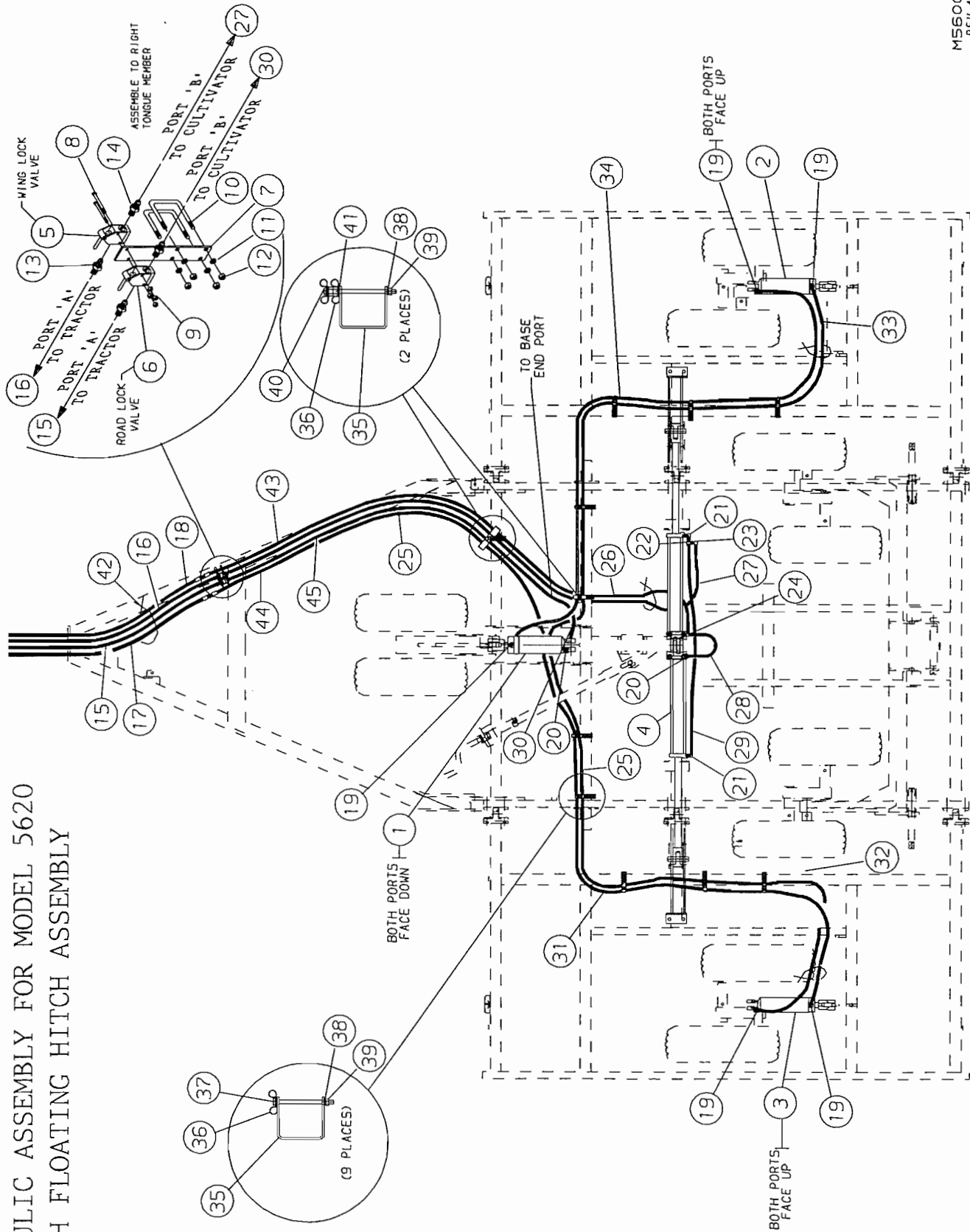
FOR MODELS - 5620

8/00

Item	Part Number	Part Description	Qty.
1	21-1008	4-1/4" x 10" Series Cylinder	1
2	21-1007	4" x 10" Series Cylinder	1
3	21-1006	3-3/4" x 10" Series Cylinder	1
4	21-181	4" x 24" Hydraulic Cylinder	2
5	25-2272	Lock Valve - Wing Lock	1
6	25-2272	Lock Valve - Road Lock	1
7	5620-0-8	Valve Bracket	1
8	62-450	5/16NC x 4" GD5 Cap Screw	2
9		5/16NC Hex Nut (Supplied with valve)	4
10	61-216	1/2" DIA. x 4-1/16" x 4-1/4" U-Bolt	2
11	64-107	1/2" STD. Lock Washer	4
12	63-106	1/2NC Hex Nut	4
13	25-314	O-Ring 37° Flare Female Fitting	2
14	25-300	O-Ring 37° Flare Adapter	2
15	• 4990-75-0	1/2" x 92" Hose Assembly (With Red/Red Plastic Grip)	1
16	• 4990-77-0	3/8" x 92" Hose Assembly (With Red/Black Plastic Grip)	1
17	• 4990-76-0	1/2" X 92" Hose Assembly (With Yellow/Yellow Plastic Grip)	1
18	• 4990-78-0	3/8" x 92" Hose Assembly (With Yellow/Black Plastic Grip)	1
19	25-301	O-Ring 37° Flare 90° Ell Hydraulic Fitting	5
20	25-300	O-Ring 37° Flare Adapter	2
21	4956-75-0	Restrictor Assembly w/ Tag	2
22	25-307	37° Flare Male / Female Tee Hydraulic Fitting	1
23	25-310	37° Flare Male / Female 90° Ell Hydraulic Fitting	1
24	25-302	O-Ring 37° Flare Tee Hydraulic Fitting	1
25	25-304	37° Flare Male Coupler Hydraulic Fitting	1
26	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
27	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
28	24-245R	Black 2W 3/8" x 18" (JIC) Hose Assembly	1
29	24-2114R	Black 2W 3/8" x 60" (JIC) Hose Assembly	1
30	24-312R	Black 2W 1/2" x 79" (JIC) Hose Assembly	1
31	24-327R	Black 2W 1/2" x 251" (JIC) Hose Assembly	1
32	24-397R	Black 2W 1/2" x 132" (JIC) Hose Assembly	1
33	24-355R	Black 2W 1/2" x 220" (JIC) Hose Assembly	1
34	24-373R	Black 2W 1/2" x 190" (JIC) Hose Assembly	1
35	5654-0-4	Clevis	11
36	25-127	3/4" I.D. Hose Clamp	26
37	62-126	3/8NC x 5-1/2" GD5 Cap Screw	9
38	64-103	3/8" STD. Lock Washer	11
39	63-102	3/8NC Hex Nut	11
40	62-426	3/8NC x 6-1/2" GD5 Cap Screw	2
41	63-106	1/2NC Hex Nut	4
42	25-126	Panduit Stay Straps	4

• See page P28 for Detailed Parts Listing

HYDRAULIC ASSEMBLY FOR MODEL 5620 WITH FLOATING HITCH ASSEMBLY



M5600-41
REV.4/99

HYDRAULICS ASSEMBLY: FLOATING HITCH

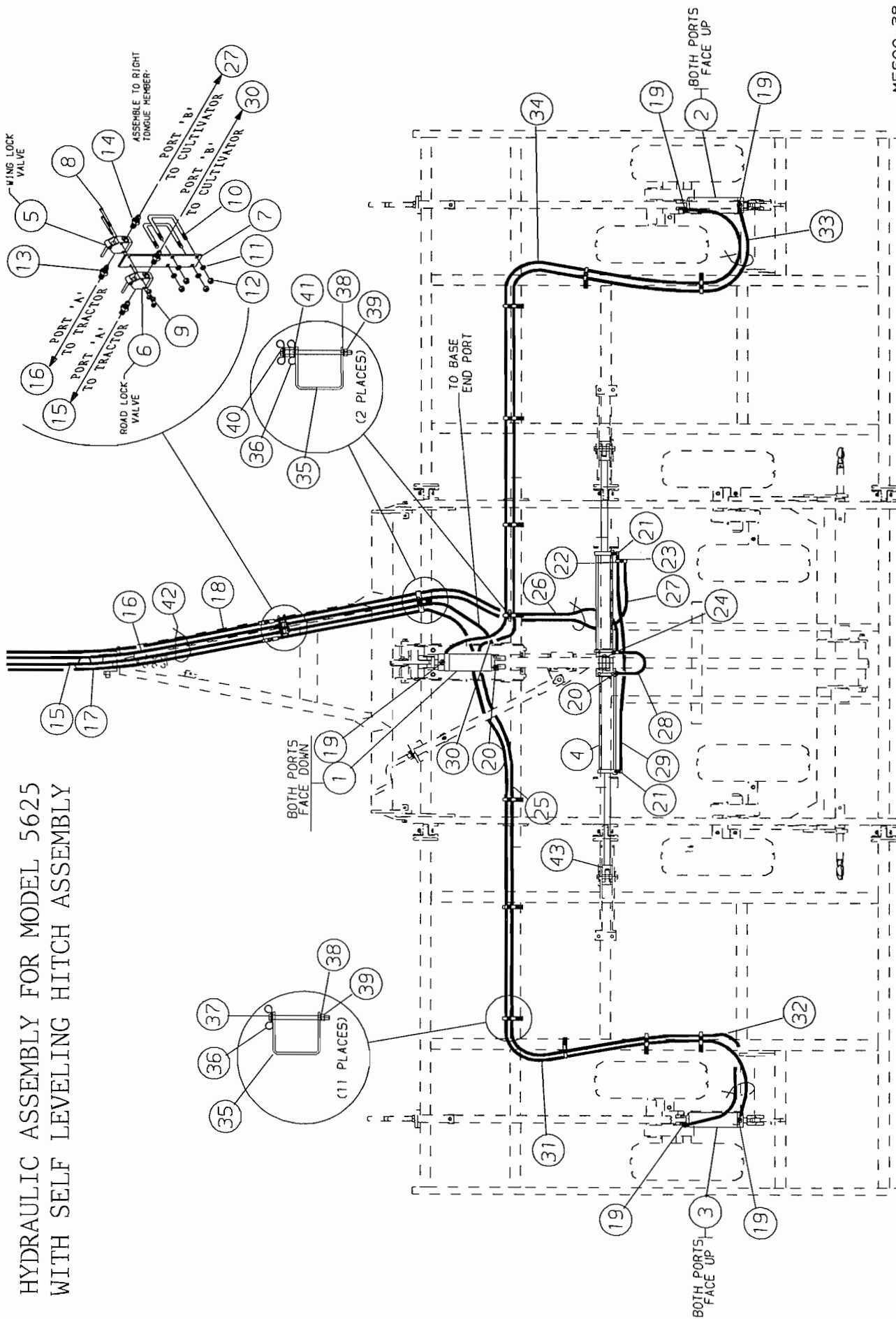
FOR MODELS - 5620

8/00

Item	Part Number	Part Description	Qty.
1	21-1008	4-1/4" x 10" Series Cylinder	1
2	21-1007	4" x 10" Series Cylinder	1
3	21-1006	3-3/4" x 10" Series Cylinder	1
4	21-181	4" x 24" Hydraulic Cylinder	2
5	25-2272	Lock Valve - Wing Lock	1
6	25-2272	Lock Valve - Road Lock	1
7	5620-0-8	Valve Bracket	1
8	62-450	5/16NC x 4" GD5 Cap Screw	2
9		5/16NC Hex Nut (Supplied with valve)	4
10	61-216	1/2" DIA. x 4-1/16" x 4-1/4" U-Bolt	2
11	64-107	1/2" STD. Lock Washer	4
12	63-106	1/2NC Hex Nut	4
13	25-314	O-Ring 37° Flare Female Fitting	2
14	25-300	O-Ring 37° Flare Adapter	2
15	• 4990-75-0	1/2" x 92" Hose Assembly (With Red/Red Plastic Grip)	1
16	• 4990-77-0	3/8" x 92" Hose Assembly (With Red/Black Plastic Grip)	1
17	• 4990-76-0	1/2" X 92" Hose Assembly (With Yellow/Yellow Plastic Grip)	1
18	• 4990-78-0	3/8" x 92" Hose Assembly (With Yellow/Black Plastic Grip)	1
19	25-301	O-Ring 37° Flare 90° Ell Hydraulic Fitting	5
20	25-300	O-Ring 37° Flare Adapter	2
21	4956-75-0	Restrictor Assembly w/ Tag	2
22	25-307	37° Flare Male / Female Tee Hydraulic Fitting	1
23	25-310	37° Flare Male / Female 90° Ell Hydraulic Fitting	1
24	25-302	O-Ring 37° Flare Tee Hydraulic Fitting	1
25	25-304	37° Flare Male Coupler Hydraulic Fitting	5
26	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
27	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
28	24-245R	Black 2W 3/8" x 18" (JIC) Hose Assembly	1
29	24-2114R	Black 2W 3/8" x 60" (JIC) Hose Assembly	1
30	24-312R	Black 2W 1/2" x 79" (JIC) Hose Assembly	1
31	24-327R	Black 2W 1/2" x 251" (JIC) Hose Assembly	1
32	24-397R	Black 2W 1/2" x 132" (JIC) Hose Assembly	1
33	24-355R	Black 2W 1/2" x 220" (JIC) Hose Assembly	1
34	24-373R	Black 2W 1/2" x 190" (JIC) Hose Assembly	1
35	5654-0-4	Clevis	11
36	25-127	3/4" I.D. Hose Clamp	26
37	62-126	3/8NC x 5-1/2" GD5 Cap Screw	9
38	64-103	3/8" STD. Lock Washer	11
39	63-102	3/8NC Hex Nut	11
40	62-426	3/8NC x 6-1/2" GD5 Cap Screw	2
41	63-106	1/2NC Hex Nut	4
42	25-126	Panduit Stay Straps	6
43	24-256R	Black 2W 1/2" x 48" (JIC) Hose Assembly	2
44	24-305R	Black 2W 1/2" x 55" (JIC) Hose Assembly	1
45	24-3013R	Black 2W 1/2" x 48" (JIC) Hose Assembly	1

• See page P28 for Detailed Parts Listing

HYDRAULIC ASSEMBLY FOR MODEL 5625
WITH SELF LEVELING HITCH ASSEMBLY



M5600-38
REV. 4/79

HYDRAULIC ASSEMBLY: SELF LEVELING HITCH

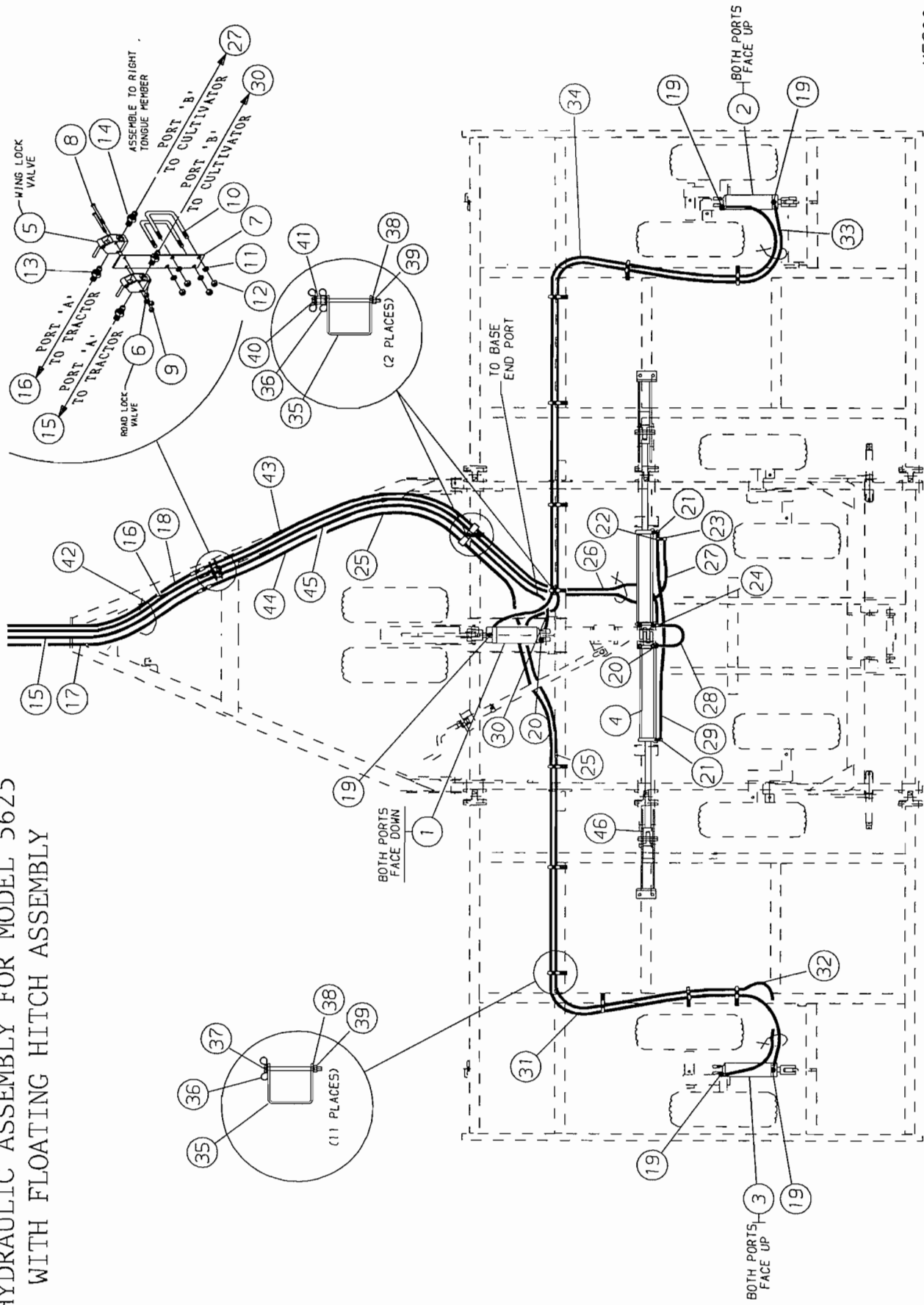
FOR MODELS - 5625

8/00

Item	Part Number	Part Description	Qty.
1	21-1008	4-1/4" x 10" Series Cylinder	1
2	21-1007	4" x 10" Series Cylinder	1
3	21-1006	3-3/4" x 10" Series Cylinder	1
4	21-181	4" x 24" Hydraulic Cylinder	2
	21-176	4-1/2" x 24" Hydraulic Cylinder	2
5	25-2272	Lock Valve - Wing Lock	1
6	25-2272	Lock Valve - Road Lock	1
7	5620-0-8	Valve Bracket	1
8	62-450	5/16NC x 4" GD5 Cap Screw	2
9		5/16NC Hex Nut (Supplied with valve)	4
10	61-216	1/2" DIA. x 4-1/16" x 4-1/4" U-Bolt	2
11	64-107	1/2" STD. Lock Washer	4
12	63-106	1/2NC Hex Nut	4
13	25-314	O-Ring 37° Flare Female Fitting	2
14	25-300	O-Ring 37° Flare Adapter	2
15	• 4990-75-0	1/2" x 92" Hose Assembly (With Red/Red Plastic Grip)	1
16	• 4990-77-0	3/8" x 92" Hose Assembly (With Red/Black Plastic Grip)	1
17	• 4990-76-0	1/2" X 92" Hose Assembly (With Yellow/Yellow Plastic Grip)	1
18	• 4990-78-0	3/8" x 92" Hose Assembly (With Yellow/Black Plastic Grip)	1
19	25-301	O-Ring 37° Flare 90° Ell Hydraulic Fitting	5
20	25-300	O-Ring 37° Flare Adapter	2
21	4956-75-0	Restrictor Assembly w/ Tag	2
22	25-307	37° Flare Male / Female Tee Hydraulic Fitting	1
23	25-310	37° Flare Male / Female 90° Ell Hydraulic Fitting	1
24	25-302	O-Ring 37° Flare Tee Hydraulic Fitting	1
25	25-304	37° Flare Male Coupler Hydraulic Fitting	1
26	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
27	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
28	24-245R	Black 2W 3/8" x 18" (JIC) Hose Assembly	1
29	24-2114R	Black 2W 3/8" x 60" (JIC) Hose Assembly	1
30	24-312R	Black 2W 1/2" x 79" (JIC) Hose Assembly	1
31	24-398R	Black 2W 1/2" x 277" (JIC) Hose Assembly	1
32	24-333R	Black 2W 1/2" x 186" (JIC) Hose Assembly	1
33	24-355R	Black 2W 1/2" x 220" (JIC) Hose Assembly	1
34	24-355R	Black 2W 1/2" x 220" (JIC) Hose Assembly	1
35	5654-0-4	Clevis	13
36	25-127	3/4" I.D. Hose Clamp	30
37	62-126	3/8NC x 5-1/2" GD5 Cap Screw	11
38	64-103	3/8" STD. Lock Washer	13
39	63-102	3/8NC Hex Nut	13
40	62-426	3/8NC x 6-1/2" GD5 Cap Screw	2
41	63-106	1/2NC Hex Nut	4
42	25-126	Panduit Stay Straps	4
43	21-507	Clevis (used with 21-176 Cylinder)	2

• See page P28 for Detailed Parts Listing

HYDRAULIC ASSEMBLY FOR MODEL 5625
WITH FLOATING HITCH ASSEMBLY



M5600-39
REV. 4/79

HYDRAULIC ASSEMBLY: FLOATING HITCH

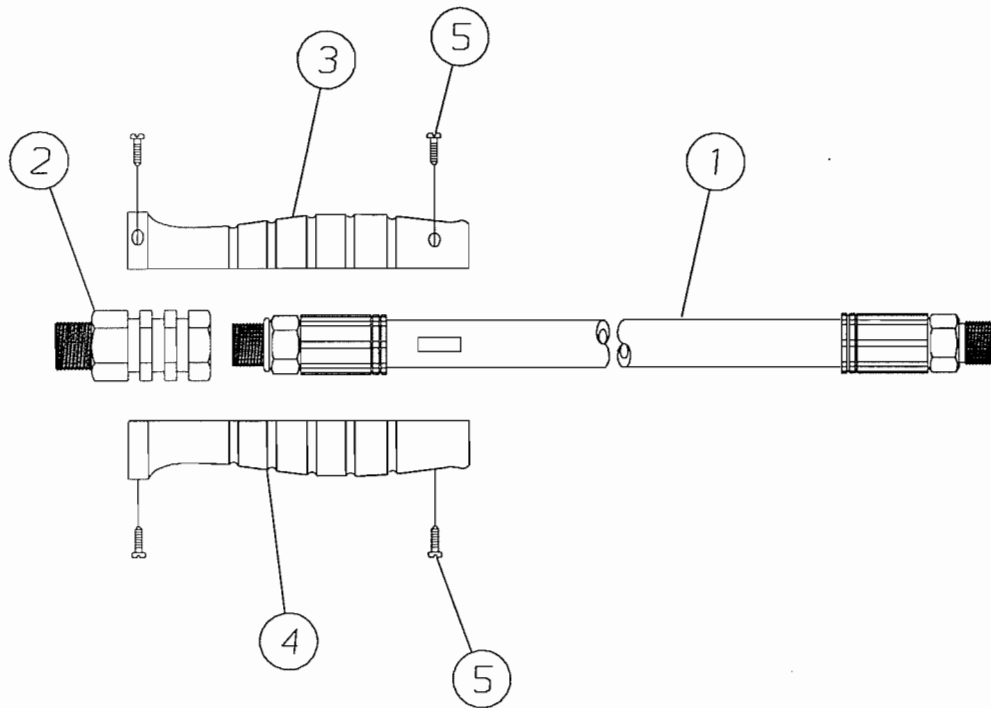
FOR MODELS - 5625

8/00

Item	Part Number	Part Description	Qty.
1	21-1008	4-1/4" x 10" Series Cylinder	1
2	21-1007	4" x 10" Series Cylinder	1
3	21-1006	3-3/4" x 10" Series Cylinder	1
4	21-181	4" x 24" Hydraulic Cylinder	2
	21-176	4-1/2" x 24" Hydraulic Cylinder	2
5	25-2272	Lock Valve - Wing Lock	1
6	25-2272	Lock Valve - Road Lock	1
7	5620-0-8	Valve Bracket	1
8	62-450	5/16NC x 4" GD5 Cap Screw	2
9		5/16NC Hex Nut (Supplied with valve)	4
10	61-216	1/2" DIA. x 4-1/16" x 4-1/4" U-Bolt	2
11	64-107	1/2" STD. Lock Washer	4
12	63-106	1/2NC Hex Nut	4
13	25-314	O-Ring 37° Flare Female Fitting	2
14	25-300	O-Ring 37° Flare Adapter	2
15	• 4990-75-0	1/2" x 92" Hose Assembly (With Red/Red Plastic Grip)	1
16	• 4990-77-0	3/8" x 92" Hose Assembly (With Red/Black Plastic Grip)	1
17	• 4990-76-0	1/2" X 92" Hose Assembly (With Yellow/Yellow Plastic Grip)	1
18	• 4990-78-0	3/8" x 92" Hose Assembly (With Yellow/Black Plastic Grip)	1
19	25-301	O-Ring 37° Flare 90° Ell Hydraulic Fitting	5
20	25-300	O-Ring 37° Flare Adapter	2
21	4956-75-0	Restrictor Assembly w/ Tag	2
22	25-307	37° Flare Male / Female Tee Hydraulic Fitting	1
23	25-310	37° Flare Male / Female 90° Ell Hydraulic Fitting	1
24	25-302	O-Ring 37° Flare Tee Hydraulic Fitting	1
25	25-304	37° Flare Male Coupler Hydraulic Fitting	5
26	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
27	24-220R	Black 2W 3/8" x 110" (JIC) Hose Assembly	1
28	24-245R	Black 2W 3/8" x 18" (JIC) Hose Assembly	1
29	24-2114R	Black 2W 3/8" x 60" (JIC) Hose Assembly	1
30	24-312R	Black 2W 1/2" x 79" (JIC) Hose Assembly	1
31	24-398R	Black 2W 1/2" x 277" (JIC) Hose Assembly	1
32	24-333R	Black 2W 1/2" x 186" (JIC) Hose Assembly	1
33	24-355R	Black 2W 1/2" x 220" (JIC) Hose Assembly	1
34	24-355R	Black 2W 1/2" x 220" (JIC) Hose Assembly	1
35	5654-0-4	Clevis	13
36	25-127	3/4" I.D. Hose Clamp	28
37	62-126	3/8NC x 5-1/2" GD5 Cap Screw	11
38	64-103	3/8" STD. Lock Washer	13
39	63-102	3/8NC Hex Nut	13
40	62-426	3/8NC x 6-1/2" GD5 Cap Screw	2
41	63-106	1/2NC Hex Nut	4
42	25-126	Panduit Stay Straps	6
43	24-256R	Black 2W 1/2" x 48" (JIC) Hose Assembly	2
44	24-305R	Black 2W 1/2" x 55" (JIC) Hose Assembly	1
45	24-3013R	Black 2W 1/2" x 48" (JIC) Hose Assembly	1
46	21-507	Clevis (used with 21-176 Cylinder)	2

• See page P28 for Detailed Parts Listing

HYDRAULIC HOSE WITH PLASTIC GRIP ASSEMBLIES



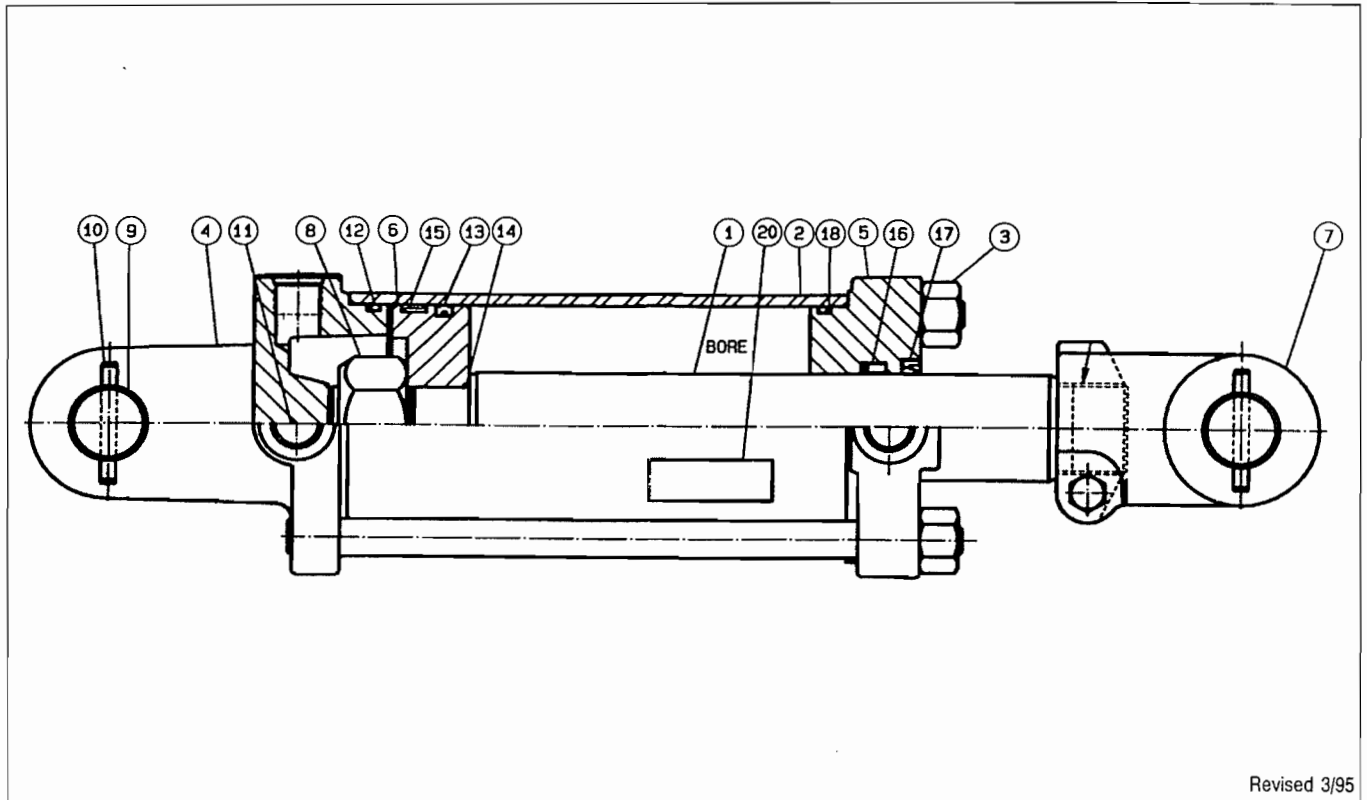
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Rev. 5/97

FOR MODELS - ALL

8/00

Item	Part Number	Part Description	Qty.
	4990-75-0	1/2" x 92" 100R2 Hose with Red/Red Grip Assembly	1
1	24-330R	1/2" DIA. x 92" JIC/ORB 100R2 Hose	1
2	25-2295	3/4 ORB to 1/2 NPT Hydraulic Fitting	1
3	25-2289	Hose Grip Half - Red	1
4	25-2289	Hose Grip Half - Red	1
5	62-656	Screw	4
	4990-76-0	1/2" x 92" 100R2 Hose with Yellow/Yellow Grip Assembly	1
1	24-330R	1/2" DIA. x 92" JIC/ORB 100R2 Hose	1
2	25-2295	3/4 ORB to 1/2 NPT Hydraulic Fitting	1
3	25-2290	Hose Grip Half - Yellow	1
4	25-2290	Hose Grip Half - Yellow	1
5	62-656	Screw	4
	4990-77-0	3/8" x 92" 100R2 Hose with Red/Black Grip Assembly	1
1	24-2105R	3/8" x 92" JIC/ORB 100R2 Hose	1
2	25-2295	3/4 ORB to 1/2 NPT Hydraulic Fitting	1
3	25-2289	Hose Grip Half - Red	1
4	25-2291	Hose Grip Half - Black	1
5	62-656	Screw	4
	4990-78-0	3/8" x 92" 100R2 Hose with Yellow/Black Grip Assembly	1
1	24-2105R	3/8" x 92" JIC/ORB 100R2 Hose	1
2	25-2295	3/4 ORB to 1/2 NPT Hydraulic Fitting	1
3	25-2290	Hose Grip Half - Yellow	1
4	25-2291	Hose Grip Half - Black	1
5	62-656	Screw	4

PRINCE HYDRAULIC CYLINDER

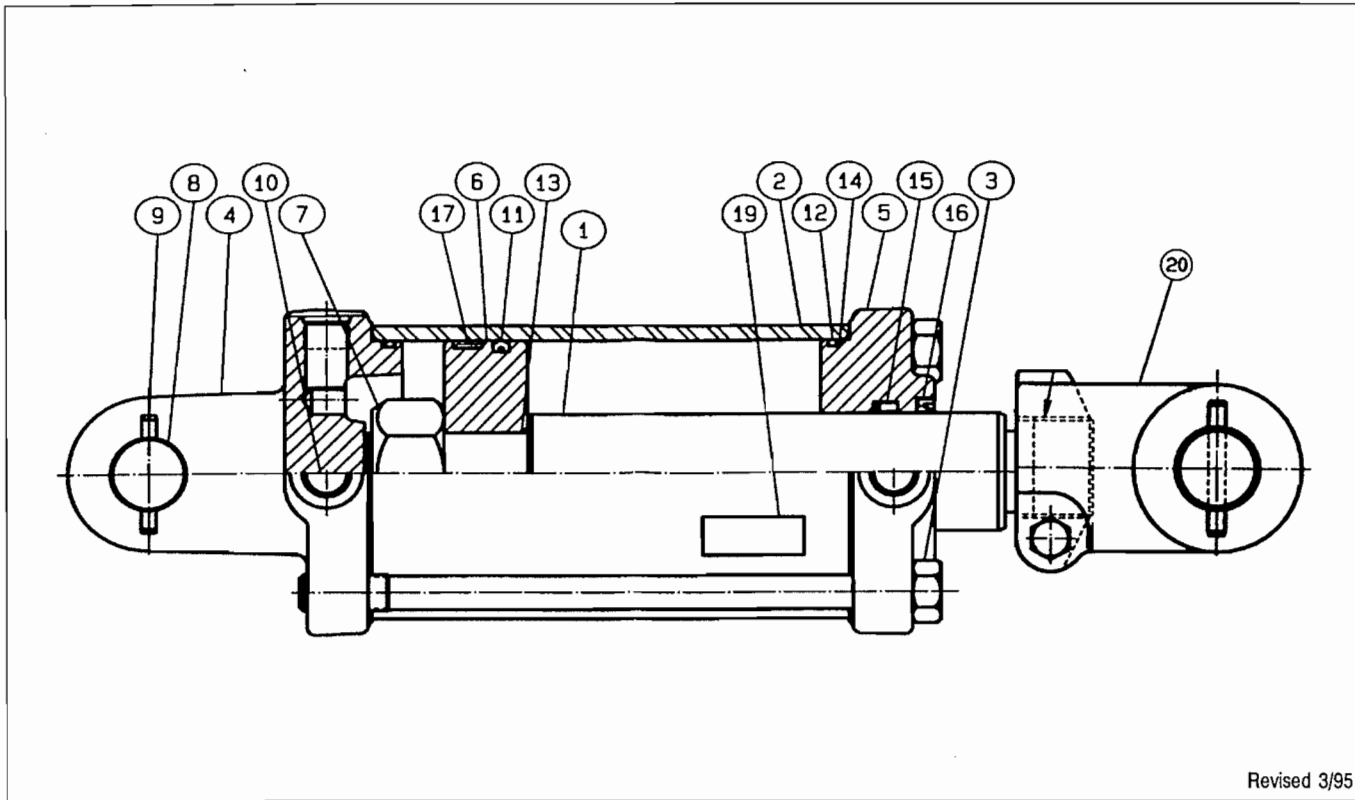


Revised 3/95

21-181 4" X 24" PRINCE HYDRAULIC CYLINDER ASSEMBLY 12/98
 Retracted - 36-3/4" Extended - 60-3/4" Stroke - 24" Rod Diameter - 1-3/4"

Item	Part Number	Part Description	Qty.
1	21-904	Piston Rod	1
2	21-222	Tube	1
3	21-2046	Tie Rod	1
4	21-738	Butt	4
5	21-878	Gland	1
6	21-879	Piston	1
7	21-507	Clevis Assembly	1
8	21-286	Lock Nut	1
9	21-859	Clevis Pin	2
10		1/4" DIA. x 2" Roll Pin	4
11	21-831	Port Plug	3
12	*	O-Ring	2
13	*	Crown Seal	1
14	*	O-Ring	1
15	*	Bearing Ring	1
16	*	U-Cup	1
17	*	Wiper	1
18	*	Back-Up Washer	2
19			
20	74-113	Cylinder Warning Decal	1
	• 21-857	Seal Kit (* Items Included In Kit)	
• Not Included in Cylinder Assembly			

PRINCE HYDRAULIC CYLINDER

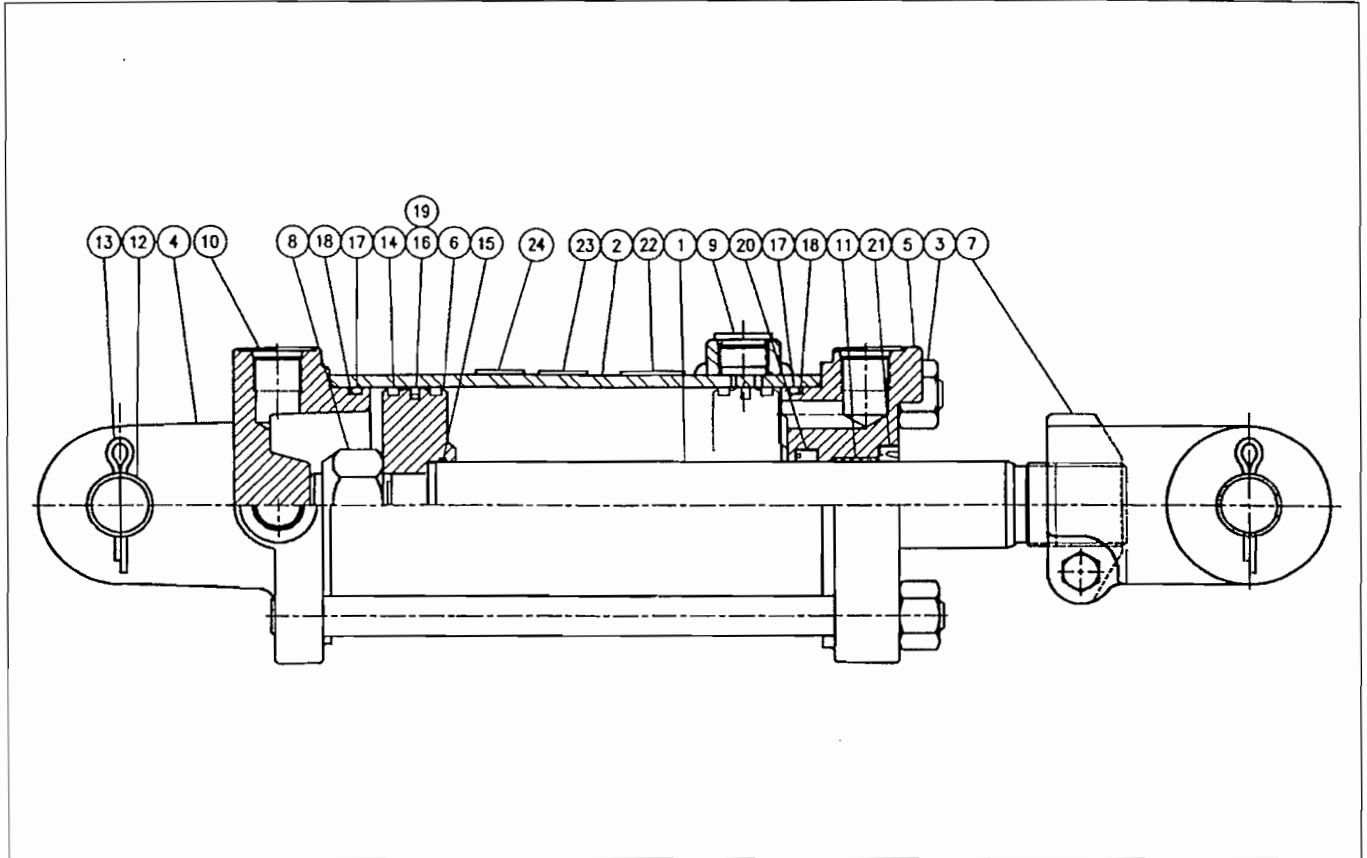


Revised 3/95

21-176 4-1/2" X 24" PRINCE HYDRAULIC CYLINDER ASSEMBLY 12/98
 Retracted - 36-3/4" Extended - 60-3/4" Stroke - 24" Rod Diameter - 2"

Item	Part Number	Part Description	Qty.
1	21-884	Piston Rod	1
2	21-885	Tube	1
3	21-886	Tie Rod	1
4	21-887	Butt	4
5	21-888	Gland	1
6	21-889	Piston	1
7	21-890	Lock Nut	1
8	21-859	Clevis Pin	2
9		1/4" DIA. x 2" Roll Pin	4
10	21-831	Port Plug	3
11	*	Crown Seal	1
12	*	O-Ring	2
13	*	O-Ring	1
14	*	Back-Up Washer	2
15	*	U-Cup	1
16	*	Wiper	1
17	*	Bearing Ring	1
18			
19	74-113	Cylinder Warning Decal	1
20	• 21-507	Clevis Assembly	1
	• 21-892	Seal Kit (* Items Included In Kit)	
• Not Included in Cylinder Assembly			

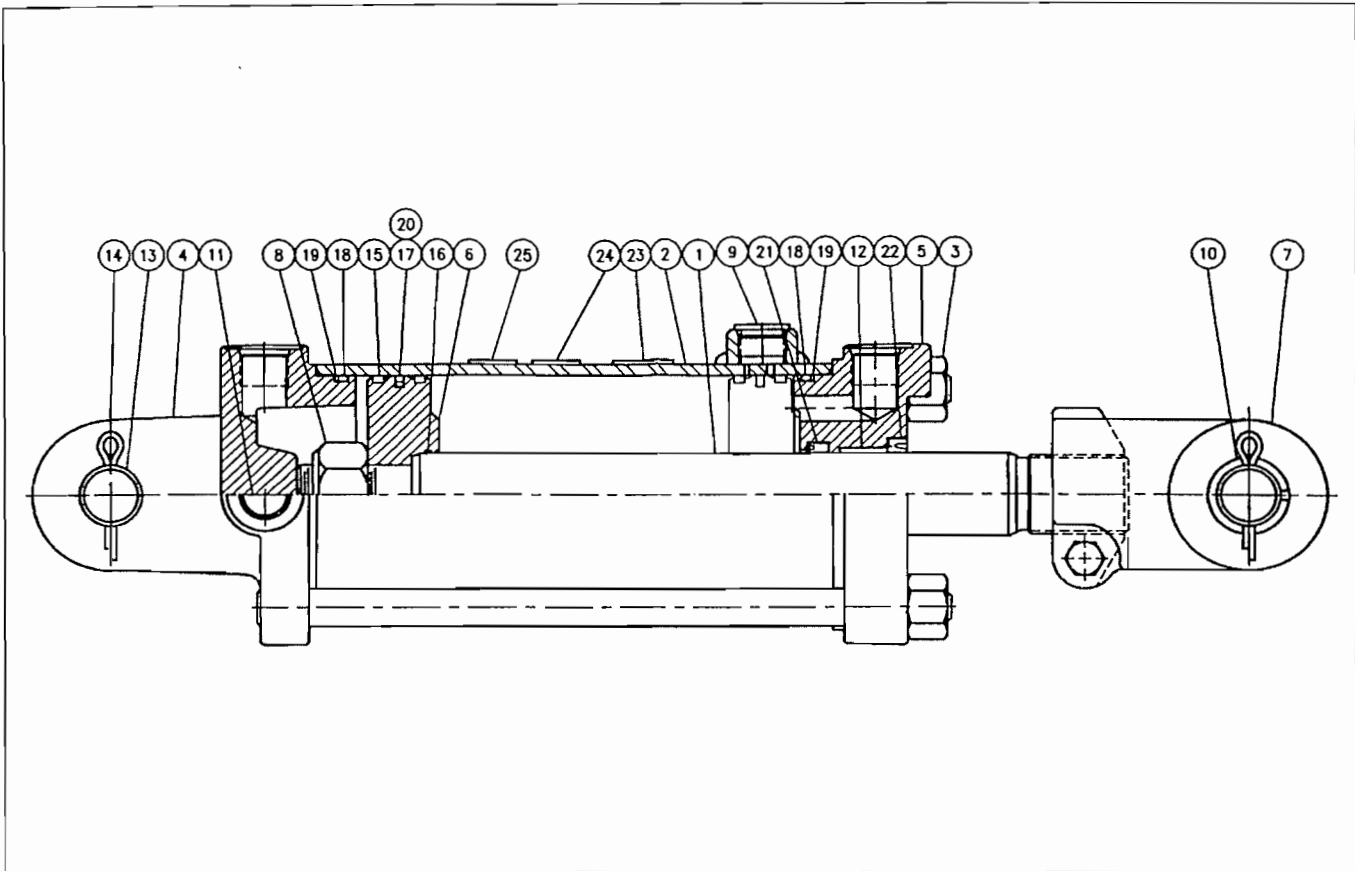
PRINCE HYDRAULIC CYLINDER



21-1006 3-3/4" X 10" PRINCE HYDRAULIC CYLINDER ASSEMBLY (Series) 3/00
Retracted - 22-1/4" Extended - 32-1/4" Stroke - 10" Rod Diameter - 1-3/8"

Item	Part Number	Part Description	Qty.
1	21-2061	Piston Rod	1
2	21-2064	Tube Assembly	1
3	21-710	Tie Rod	4
4	21-348	Butt	1
5	21-803	Gland	1
6	21-804	Piston	1
7	21-2066	Clevis Assembly	1
8	21-225	Lock Nut	1
9	21-820	Port Plug	1
10	21-404	#8 SAE Plug	3
11	21-807	Bushing	1
12	21-260	Clevis Pin	2
13		3/16" DIA. x 1-3/4" Cotter Pin	4
14	★	Bearing Ring	1
15	★	O-Ring	1
16	★	O-Ring	1
17	★	O-Ring	2
18	★	Back-Up Washer	2
19	★	Teflon Seal	1
20	★	U-Cup	1
21	★	Wiper	1
22	74-515	Seal Kit Decal	1
23	21-443	Series Caution Decal	1
24	74-113	Cylinder Warning Decal	1
	21-2058	Seal Kit (★ Items Included in Kit)	

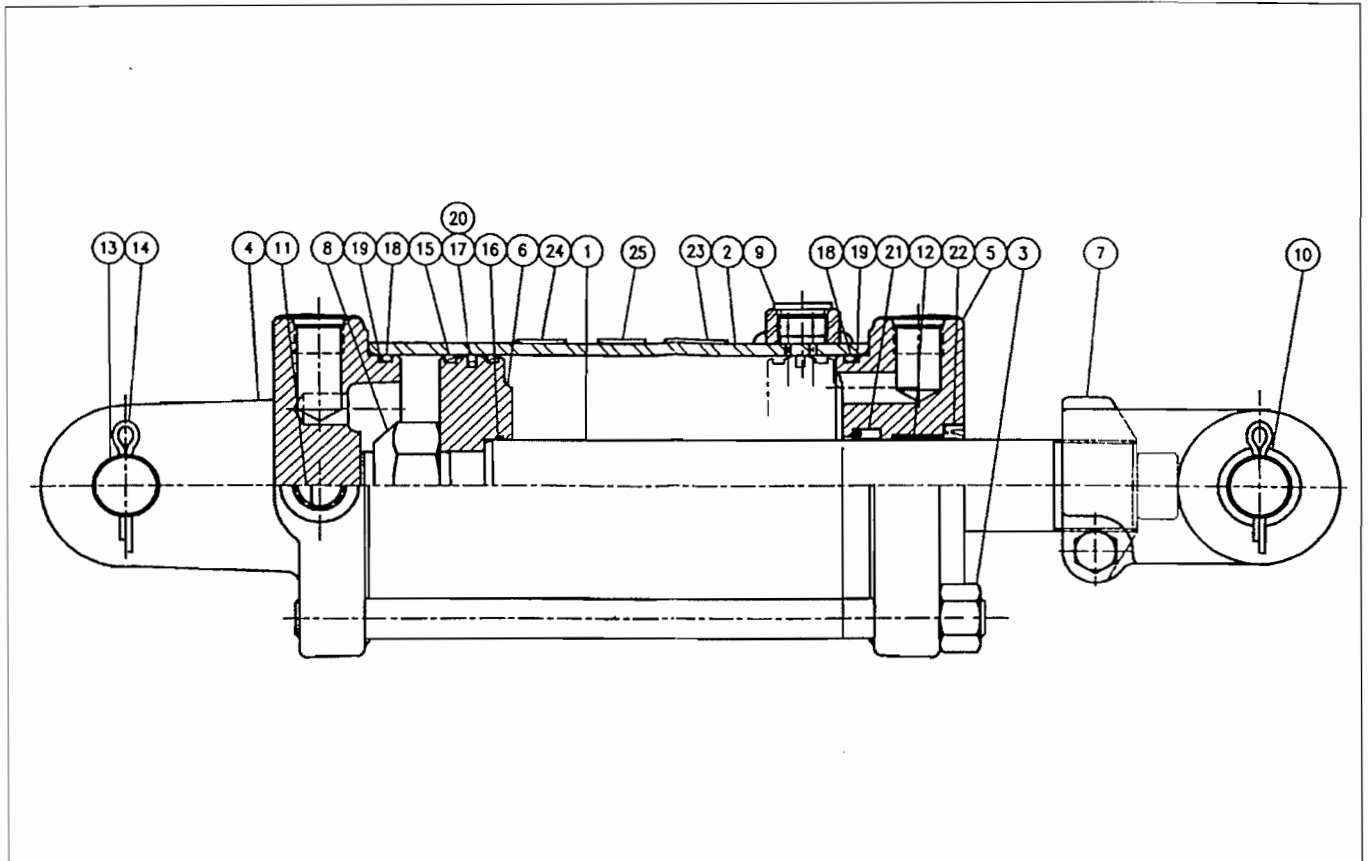
PRINCE HYDRAULIC CYLINDER



21-1007 4" X 10" PRINCE HYDRAULIC CYLINDER ASSEMBLY (Series) 3/00
 Retracted - 22-1/4" Extended - 32-1/4" Stroke - 10" Rod Diameter - 1-3/8"

Item	Part Number	Part Description	Qty.
1	21-2061	Piston Rod	1
2	21-2063	Tube	1
3	21-710	Tie Rod	4
4	21-337	Butt	1
5	21-810	Gland	1
6	21-811	Piston	1
7	21-2067	Clevis Assembly	1
8	21-225	Lock Nut	1
9	21-820	ORB Plug	1
10	21-2068	Bushing	2
11	21-404	#8 SAE Plug	1
12	21-807	Bushing	1
13	21-260	Clevis Pin	2
14		3/16" DIA. x 1-3/4" Cotter Pin	4
15	★	Bearing Ring	1
16	★	O-Ring	1
17	★	O-Ring	1
18	★	O-Ring	2
19	★	Back-Up Washer	2
20	★	Teflon Seal	1
21	★	U-Cup	1
22	★	Wiper	1
23	74-516	Seal Kit Decal	1
24	21-443	Series Caution Decal	1
25	74-113	Cylinder Warning Decal	1
	21-2059	Seal Kit (★ Items Included in Kit)	

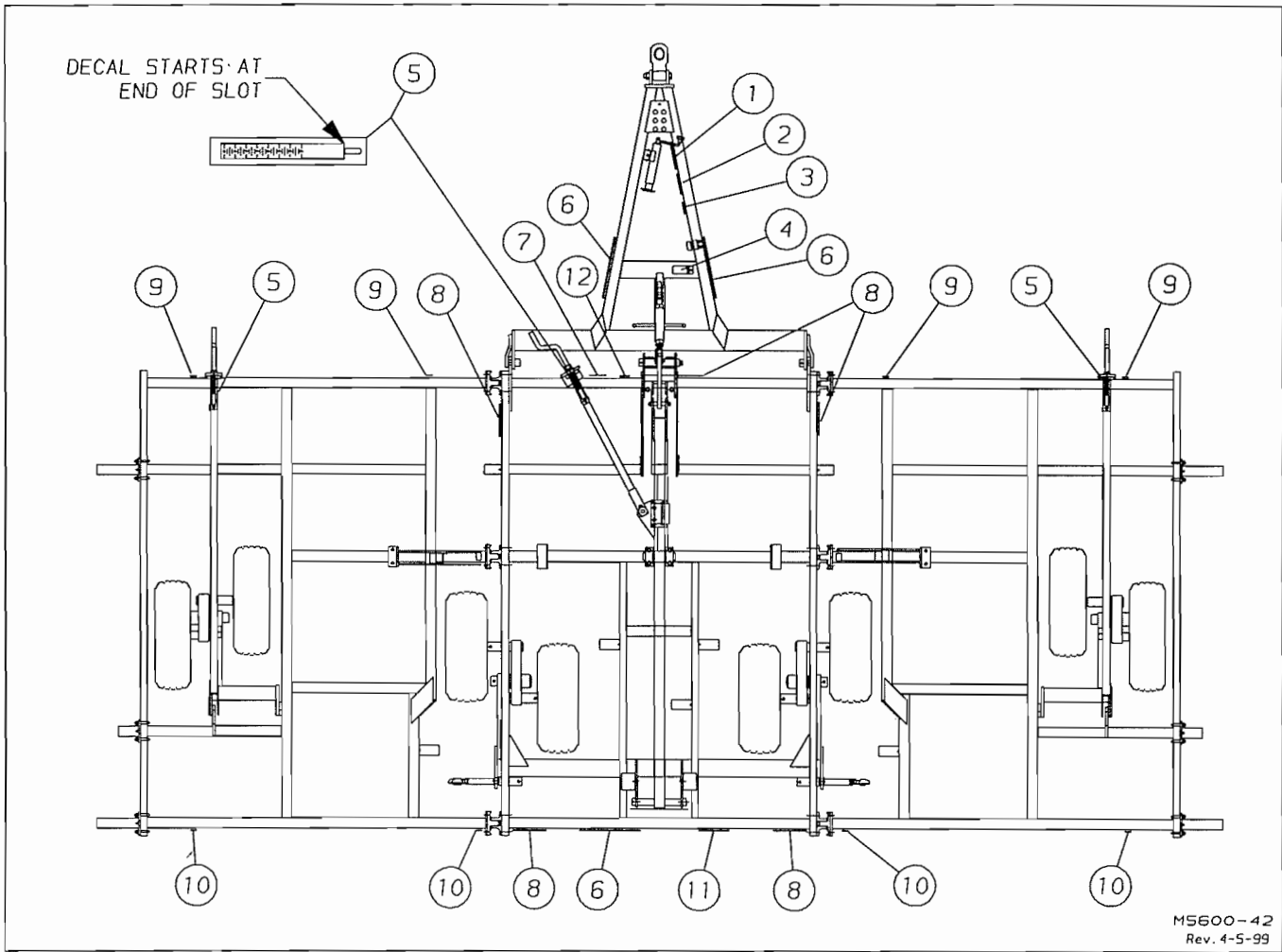
PRINCE HYDRAULIC CYLINDER



21-1008 4-1/4" X 10" PRINCE HYDRAULIC CYLINDER ASSEMBLY (Series) 3/00
Retracted - 22-1/4" Extended - 32-1/4" Stroke - 10" Rod Diameter - 1-1/2"

Item	Part Number	Part Description	Qty.
1	21-2062	Piston Rod	1
2	21-2065	Tube	1
3	21-2070	Tie Rod	4
4	21-2072	Butt	1
5	21-2073	Gland	1
6	21-2074	Piston	1
7	21-2075	Clevis Assembly	1
8	21-819	Lock Nut	1
9	21-820	Port Plug	1
10	21-2068	Bushing	2
11	21-404	#8 SAE Plug	3
12	21-2069	Bushing	1
13	21-260	Clevis Pin	2
14		3/16" DIA. x 1-3/4" Cotter Pin	4
15	★	Bearing Ring	1
16	★	O-Ring	1
17	★	O-Ring	1
18	★	O-Ring	2
19	★	Back-Up Washer	2
20		Teflon Seal	1
21	★	U-Cup	1
22	★	Wiper	1
23	74-517	Seal Kit Decal	1
24	21-443	Series Caution Decal	1
25	74-113	Cylinder Warning Decal	1
	21-2060	Seal Kit (★ Items Included in Kit)	

DECALS AND REFLECTORS

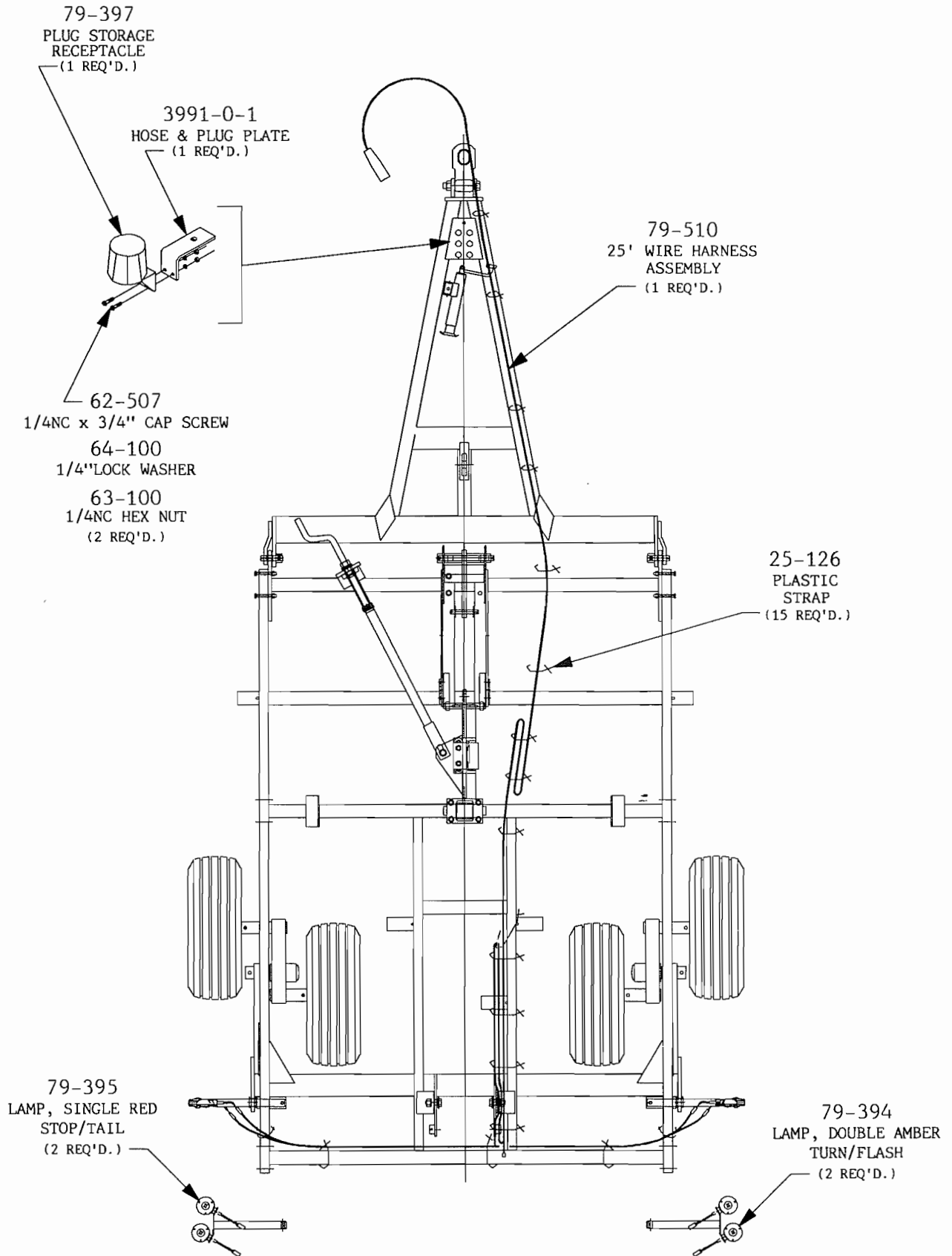


FOR MODELS - ALL

6/98

Item	Part Number	Part Description	Qty.
1	74-117	Implement Safety Decal	1
2	74-276	WARNING! High Pressure Decal	1
3	74-121	CAUTION - Width Height Decal	1
4	74-393	Transport Lock Decal	1
5	74-489	5600 Depth Setting Decal	3
6	74-100	KRAUSE Decal	3
7	74-115	Name Plate	1
8	74-102	Stand Clear Of Wing Decal	5
9	74-107	Amber Reflector	4
10	74-108	Red Reflector	4
11	74-488	5600 SERIES Decal	1
12	74-162	K-TINE Decal	1

5620-170-0 LIGHT KIT



M5600-36
Rev. 4-5-99

PROPER BOLT USE

DO NOT use these values if a different torque value or tightening procedure is given for a specific application. Torque values listed are for general use only. Check tightness of fasteners periodically.

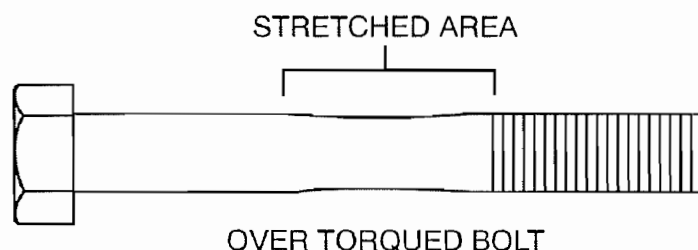
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

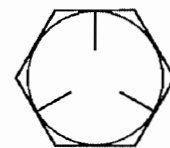
Tighten plastic insert or crimped steel-type lock nuts to approximately 110 percent of the dry torque shown in the chart, applied to the nut, not to the bolt head. Tighten toothed or serrated-type lock nuts to the full torque value.

NOTE: "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication. **Tighten lubricated bolts to approximately 80% of dry bolts.**

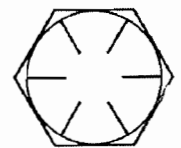
BOLT SIZE	WRENCH SIZE	BLACK OR PLATED BOLTS		
		GRADE 2	GRADE 5	GRADE 8
3/8"	9/16"	20	33	45
7/16"	5/8"	32	52	70
1/2"	3/4"	50	80	105
5/8"	15/16"	100	150	210
3/4"	1-1/8"	160	260	375
7/8"	1-5/16"	175	415	600
1"	1-1/2"	250	625	880
1-1/8"	1-11/16"	375	850	1400
1-1/4"	1-7/8"	530	1100	1765
1-1/2"	2-1/4"	930	1400	2540



SAE
GRADE 2

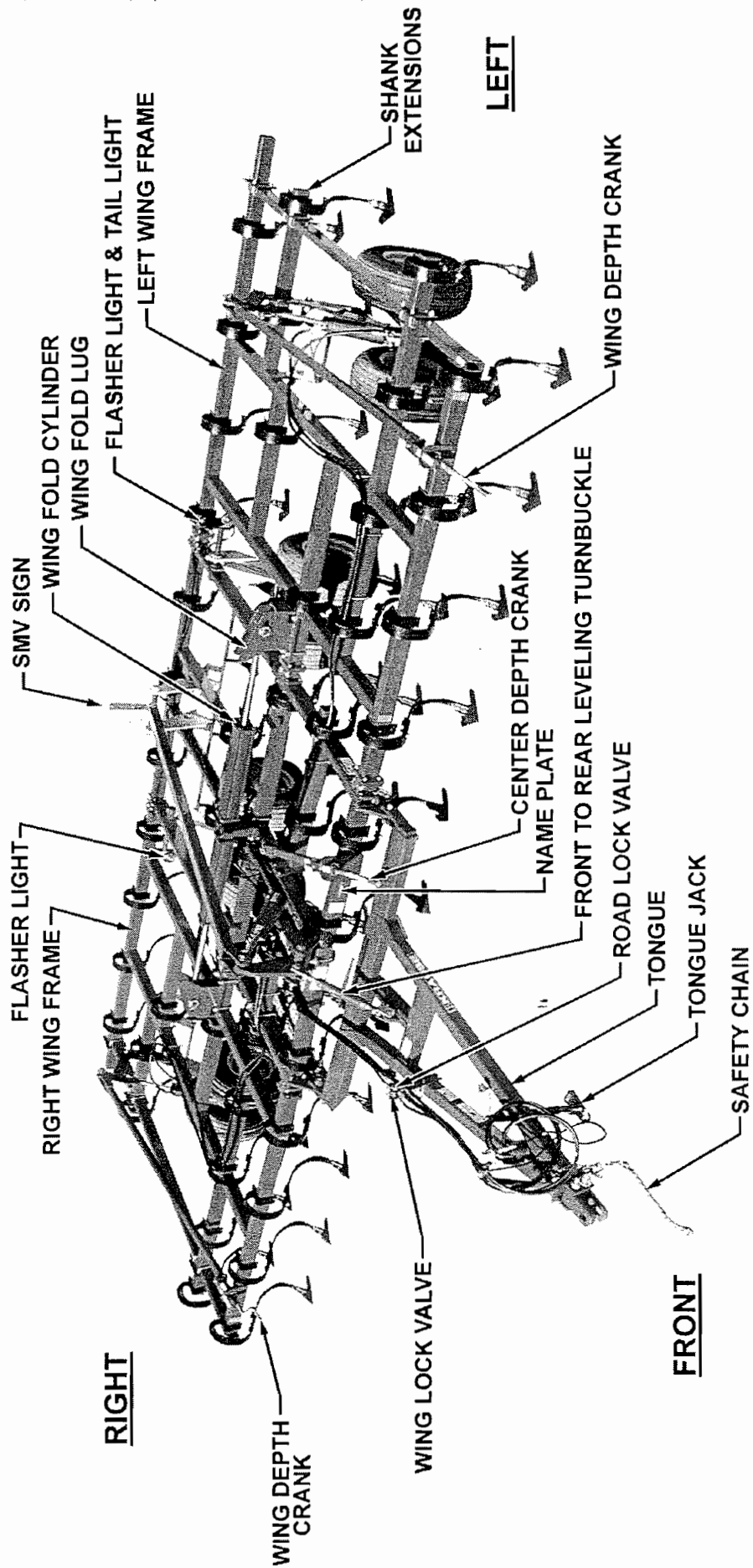


SAE
GRADE 5



SAE
GRADE 8

MODEL 5625 WITH SELF LEVELING HITCH SHOWN



ASSEMBLY INSTRUCTIONS

STUDY THE NAMES AND LOCATIONS OF THE PARTS AND FAMILIARIZE YOURSELF WITH THE FIELD CULTIVATOR BEFORE STARTING THE ASSEMBLY. READING THE STEP BY STEP INSTRUCTIONS THAT FOLLOW WILL BE HELPFUL.

SAFETY



READ ALL OF THE SAFETY DECALS ON THE CHISEL AND REVIEW THE SAFETY FIRST SUGGESTIONS ON THE BACK COVER OF THIS MANUAL TO REFRESH YOUR MEMORY. WATCH FOR THE SAFETY SYMBOL AND READ THE INFORMATION. THIS IS FOR YOUR OWN SAFETY.

ASSEMBLY

Select an area for the assembly that will be large enough to accommodate the completed field cultivator. The surface of the work area should be as level as possible. Use the proper hand tools to insure proper bolt tightness. Refer to the page titled "Proper Bolt Use" for the recommended torque values of different sizes of bolts.

PART LOCATIONS


FRONT - the front of the frame can be determined by location of the name plate that has been attached to the front frame member.

RIGHT and **LEFT** sides can be established by standing behind the frame and looking toward the front.

TOP - To be sure the frame is right side up, position the frame with the hitch pivot lugs down.

ASSEMBLY STEPS

Shown here is one method of assembly that can be accomplished with a small crew of assemblers. Each step of assembly is accompanied with a picture or illustration with the part names and bolt sizes listed.

 **Warning:** Always attach chains securely. If a chain would break, the recoil action could cause the loose end to whip in any direction and injure any person nearby.

Proof load rating of chain must equal or exceed 5 times the weight being lifted.

THE HEAVIEST COMPONENT TO BE LIFTED INTO PLACE IS THE CENTER FRAME WHICH WEIGHS 800 LBS.

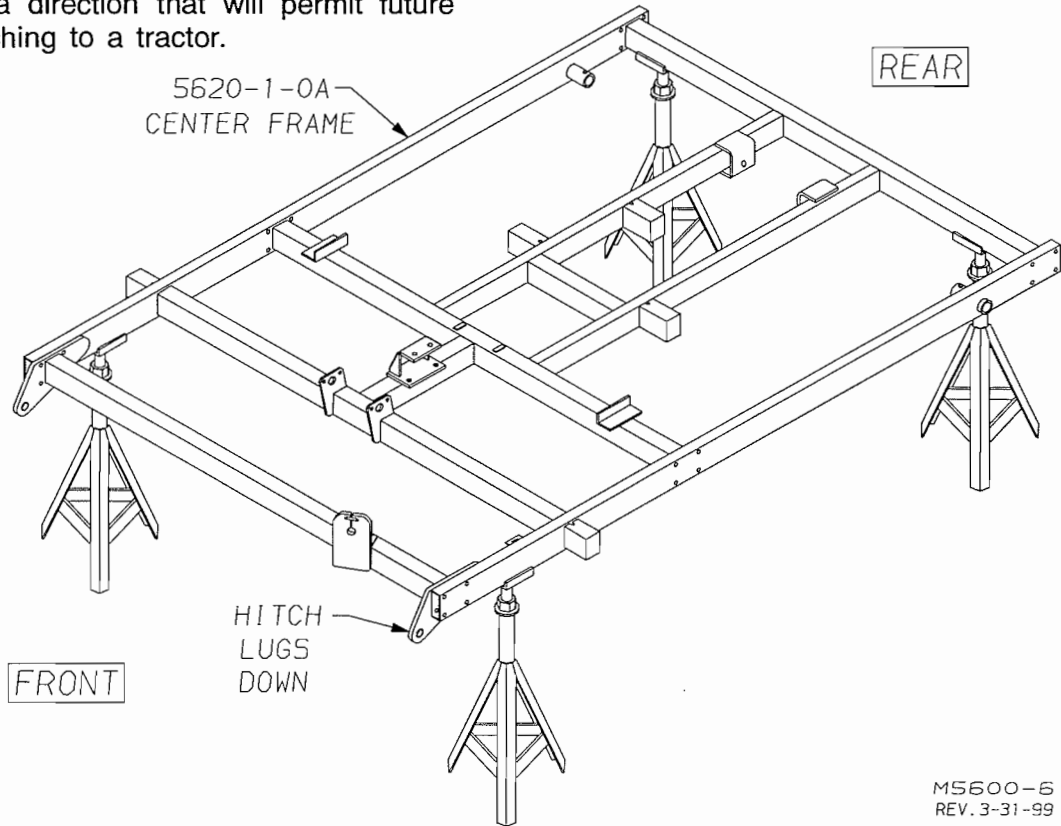
MODEL NUMBERS

Know the model number of the field cultivator being assembled. Use the Model number whenever referring to the assembly, parts pages, or the placement pages. The number is stamped on the NAME PLATE located on the front frame member.



I. CENTER FRAME ASSEMBLY

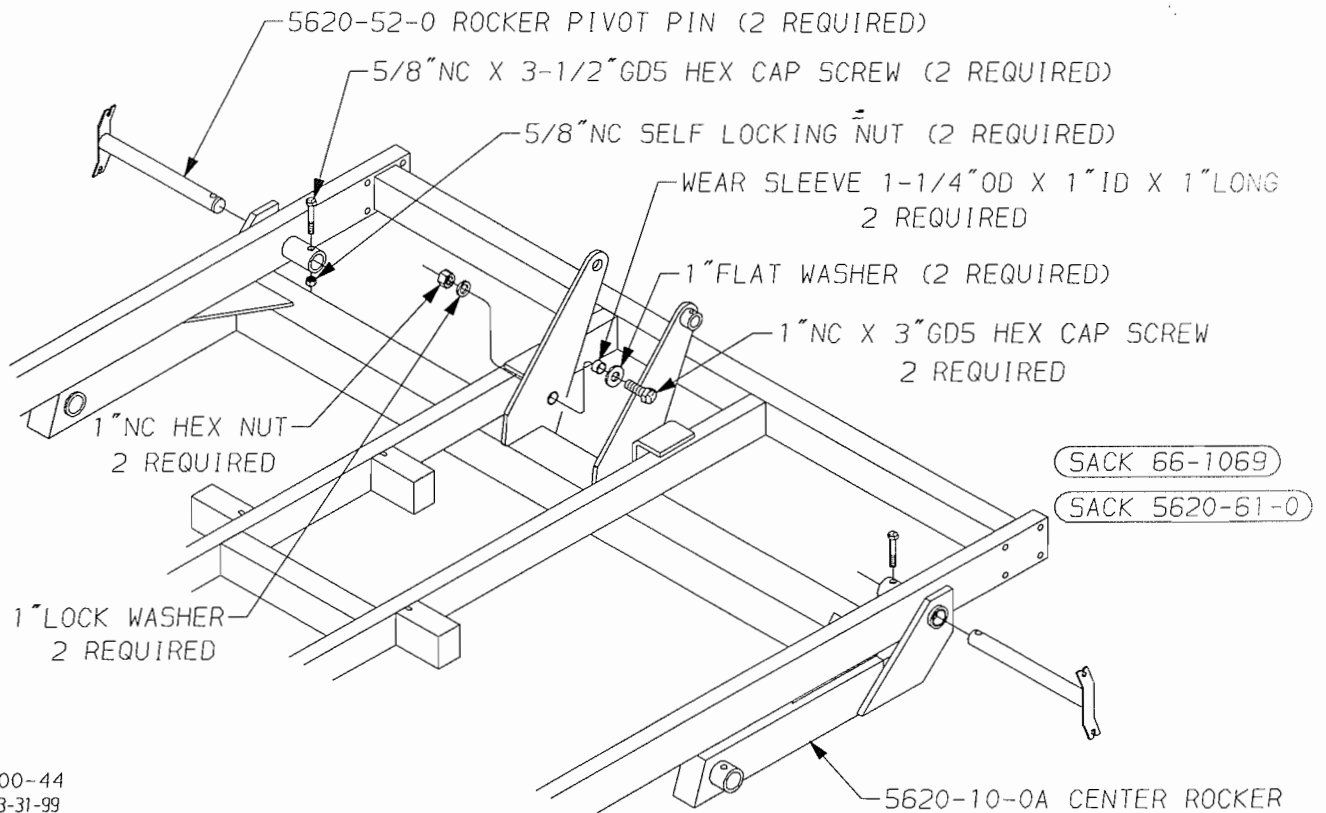
- Place the center frame on stands approximately 38" high in the center of the assembly area in a direction that will permit future hitching to a tractor.



M5600-6
REV. 3-31-99

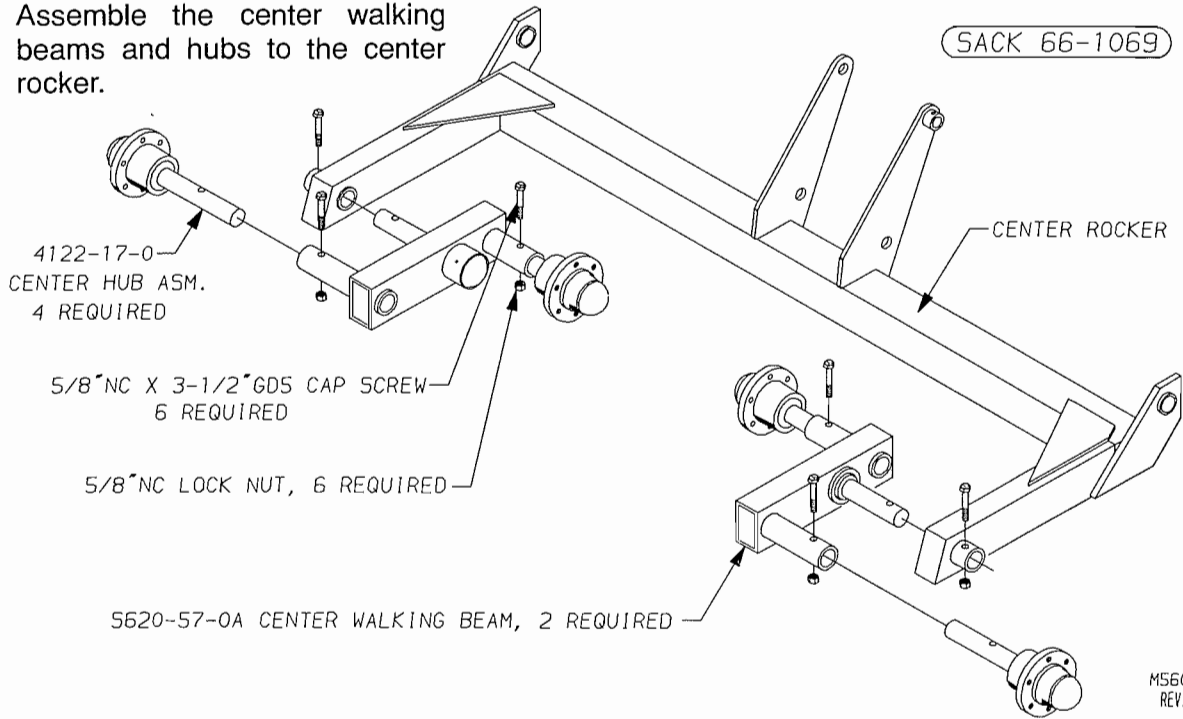
NOTE: The stands will be required to support the assembly that will weight approximately 2,500 lbs. before the tool will be self-supported.

- Assemble the center rocker to the center frame as shown below.



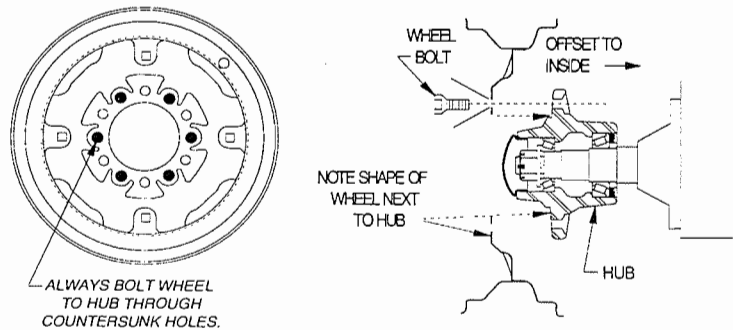
M5600-44
REV. 3-31-99

3. Assemble the center walking beams and hubs to the center rocker.

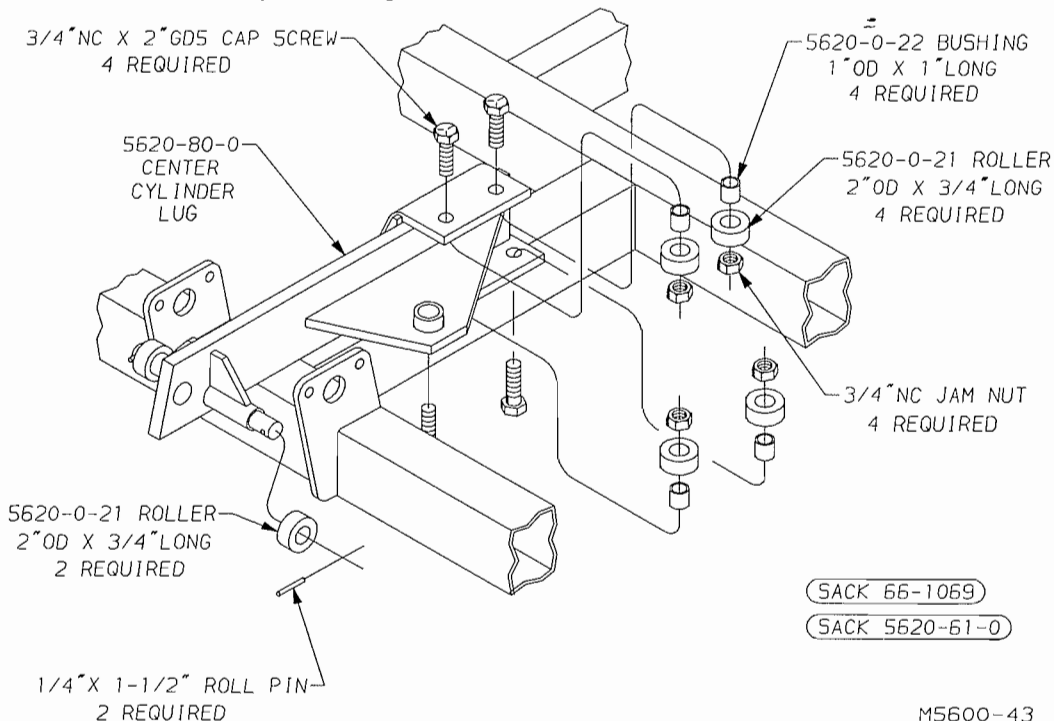


4. Attach the (4) center 11L x 15, 8-ply wheel assemblies to the center walking beams. Torque the wheel bolts to 90-95 Ft. Lbs.

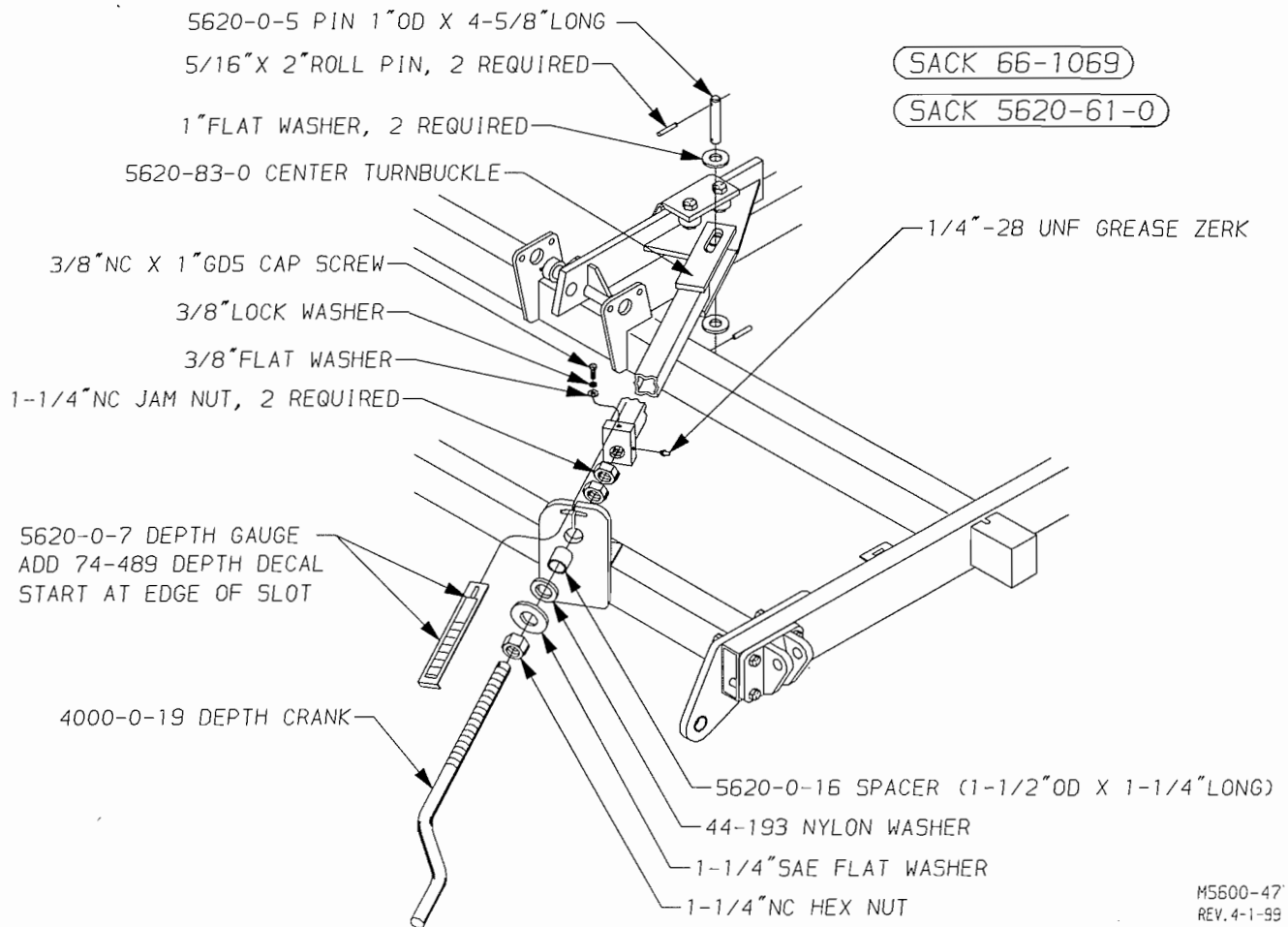
IMPORTANT: CHECK THE HUBS FOR EXCESSIVE END PLAY. IF NECESSARY, ADJUST THE WHEEL HUB AT THIS TIME IN ASSEMBLY. DO NOT ALLOW DIRT AND DUST TO ENTER THE HUBS. DIRT IN THE HUBS MAY RESULT IN BEARING FAILURE DURING OPERATION.



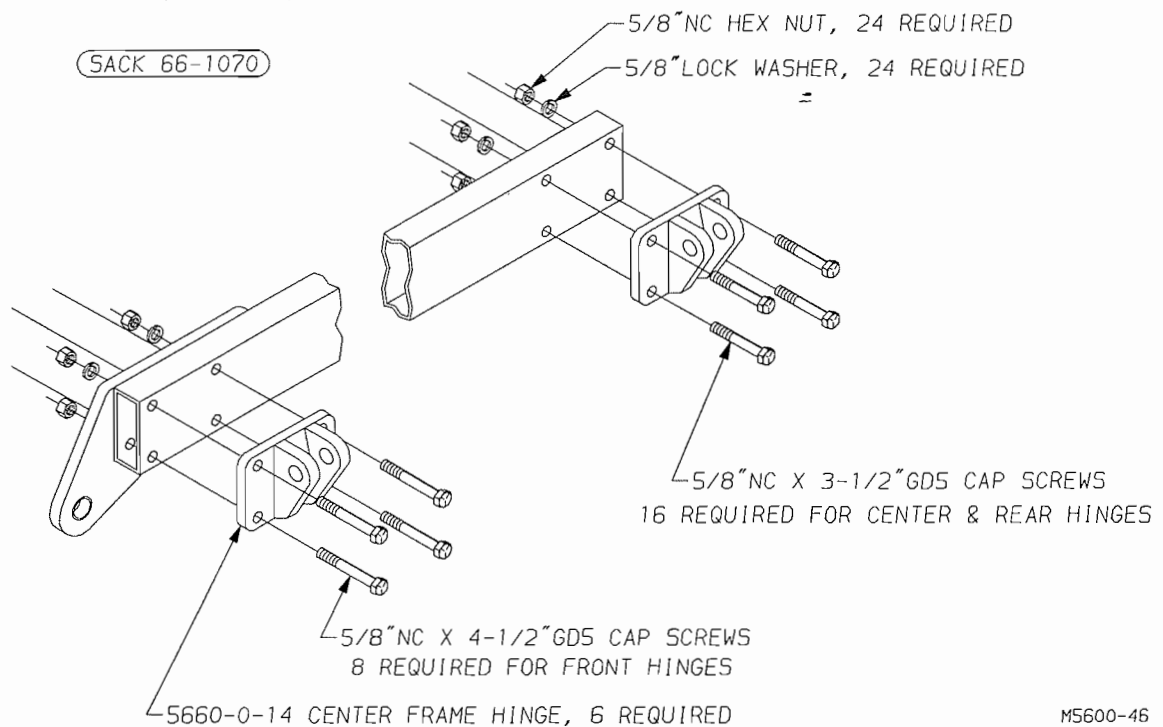
5. Assemble the center cylinder lug and rollers to the center frame.



6. Assemble the center depth crank and turnbuckle. Thread the 1-1/4NC Nut as far as possible onto the crank. Make sure the assembly is tightened completely between the Jam Nuts and the Standard Nut.

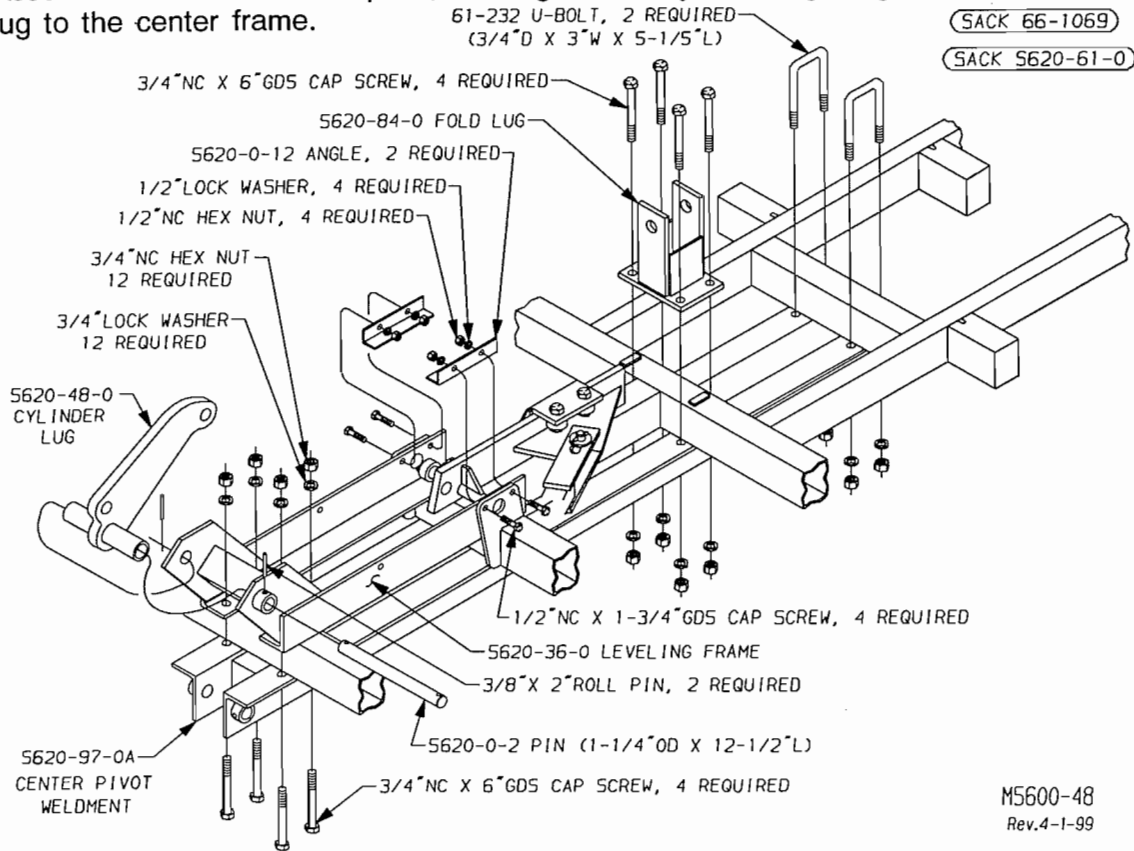


7. Bolt the hinge castings to the center frame.

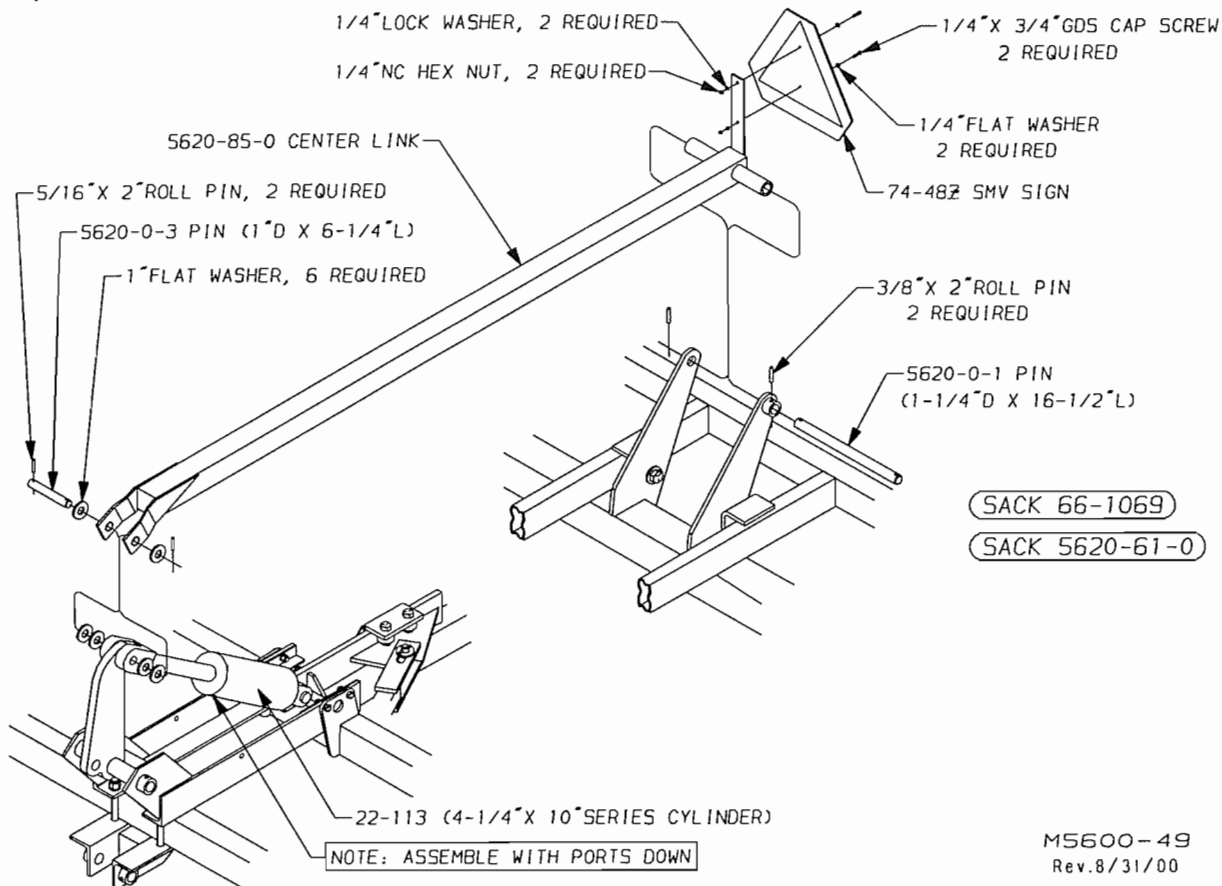


II. SELF LEVELING HITCH ASSEMBLY

1. Assemble the center hitch pivot, leveling frame, cylinder lug, angle retainers, and wing fold lug to the center frame.



2. Assemble the center cylinder, center link, and SMV sign to the center frame. Make sure the ports are down when assembly the 4-1/4" x 10" cylinder.



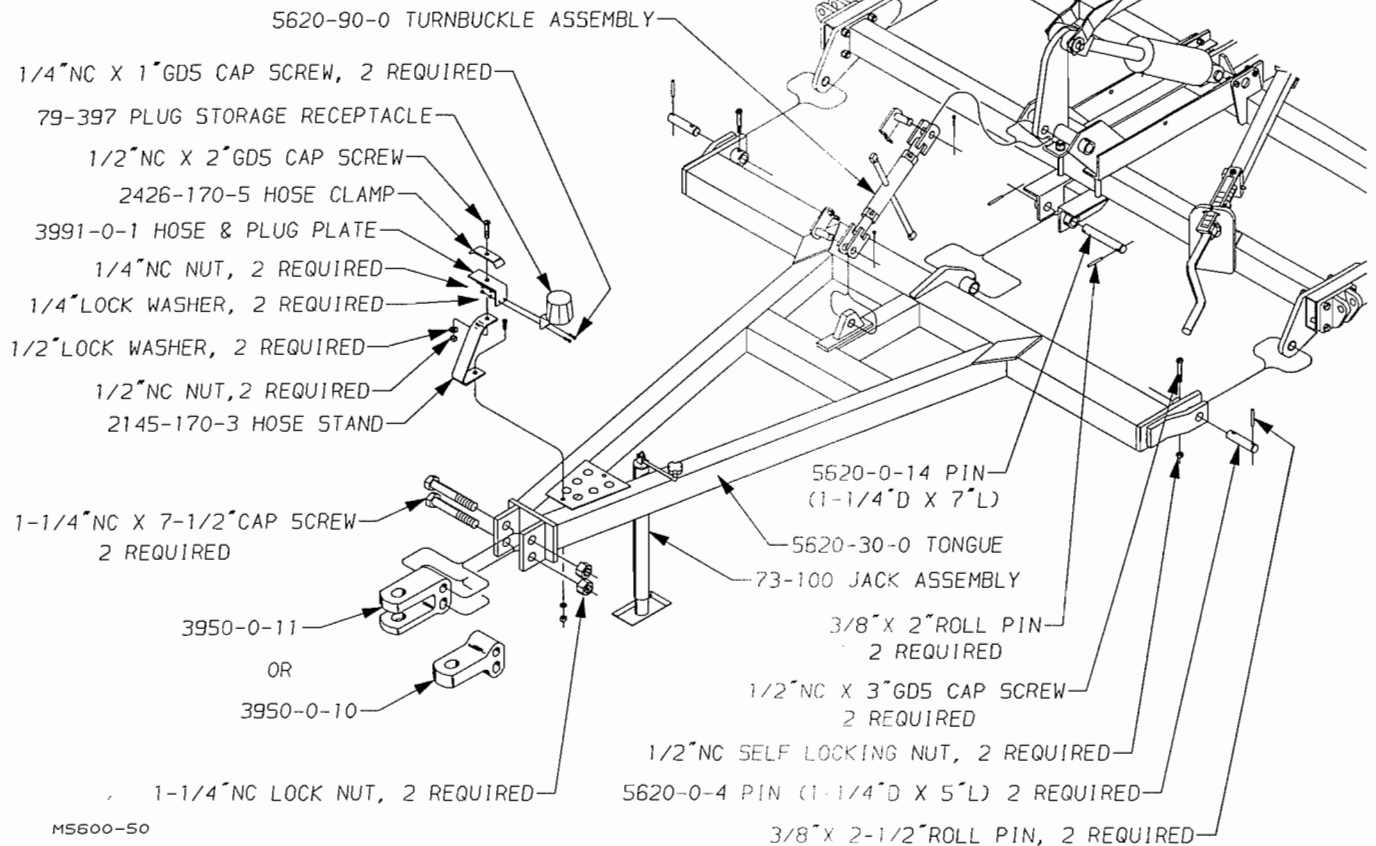
3. Assemble the tongue, leveling turnbuckle, jack, hose stand, and hitch clevis.

(SACK 5620-60-0)

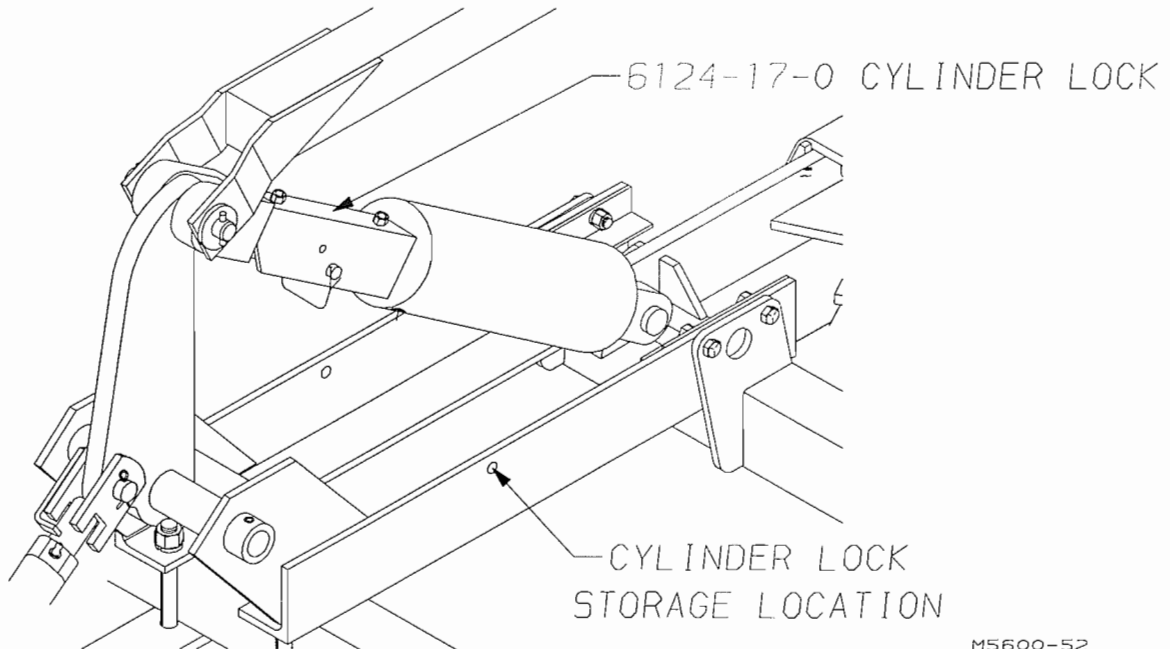
(BOX 5620-60-0)

(SACK 5620-75-0)

(SACK 66-1071)



4. Assemble the cylinder lock onto the extended 4-1/4" x 10" cylinder rod.

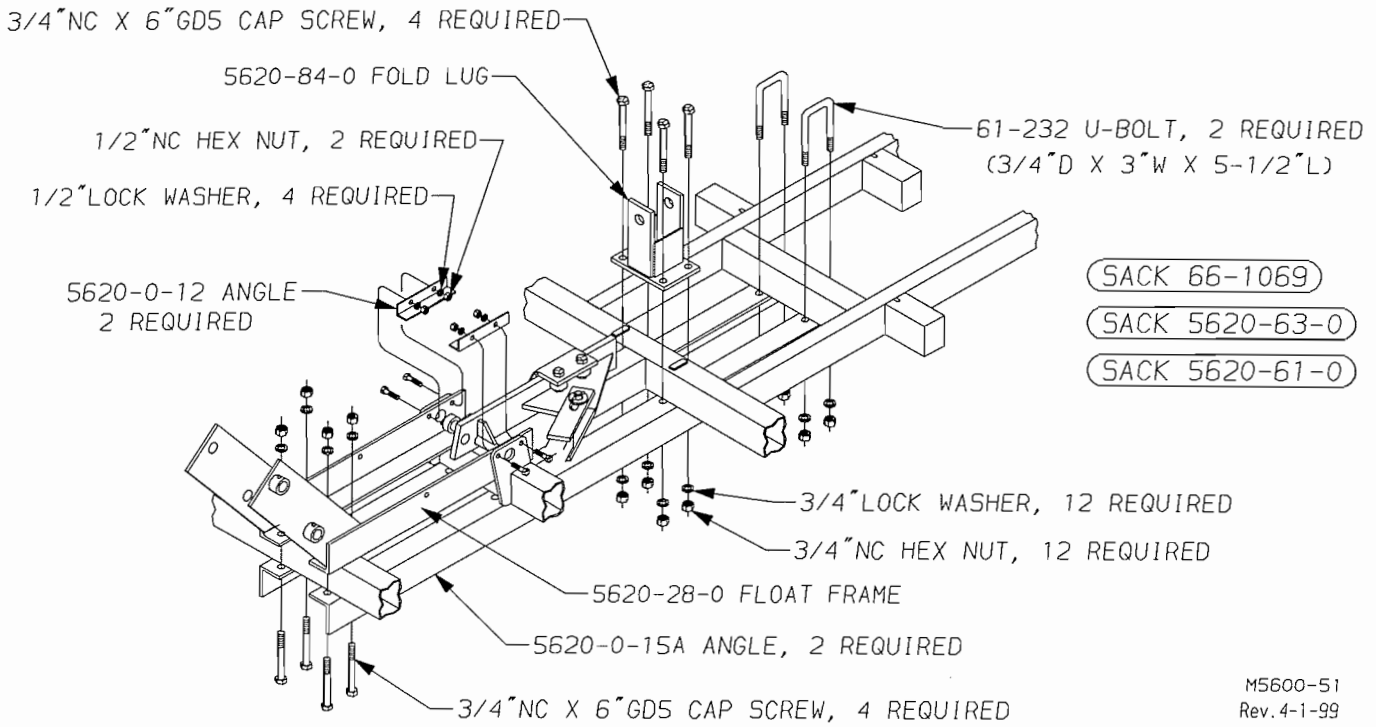


5. Gently lift the back of the frame until the weight is off the stands. Remove the stands. The center frame should be free standing on its own tires.

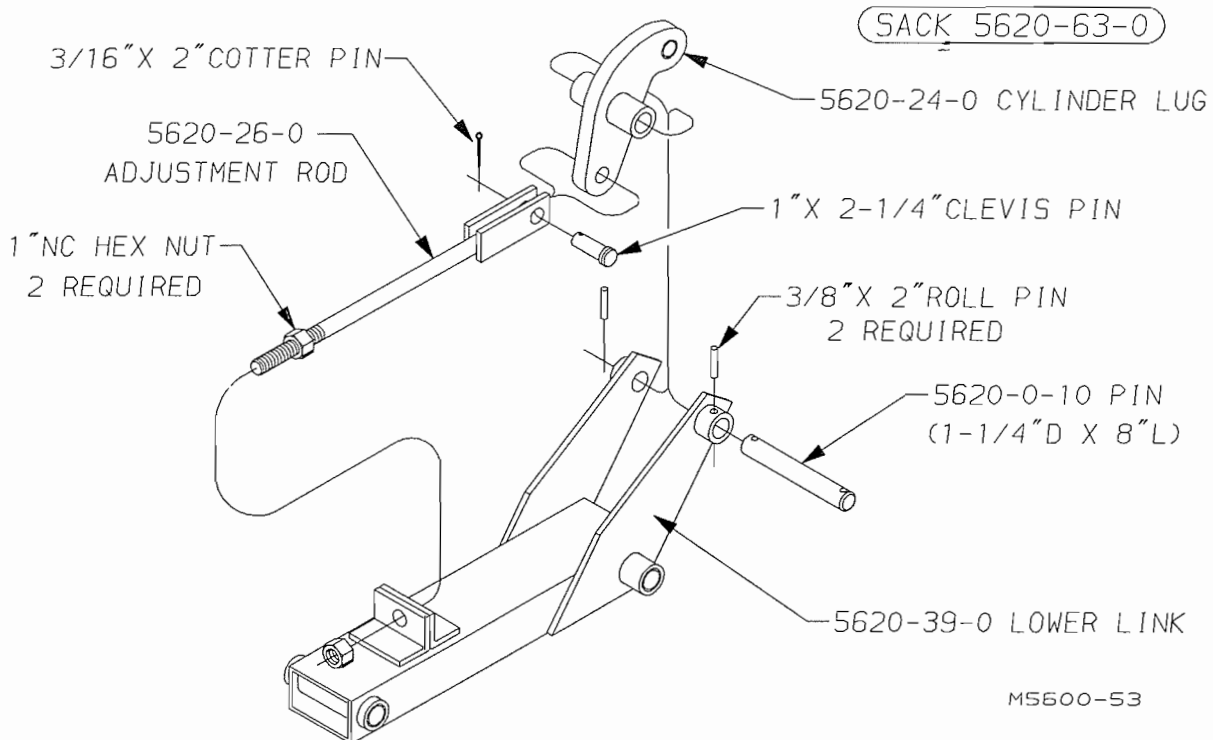
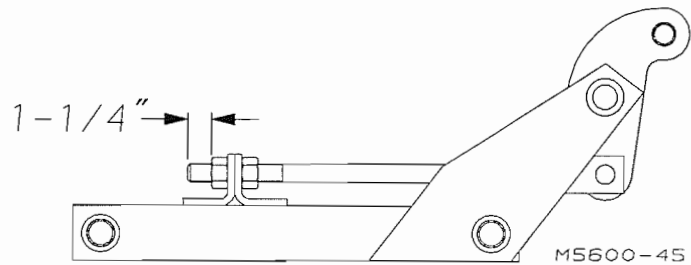
Warning: Have all persons stand clear before removing frame stands.

III. FLOATING HITCH ASSEMBLY

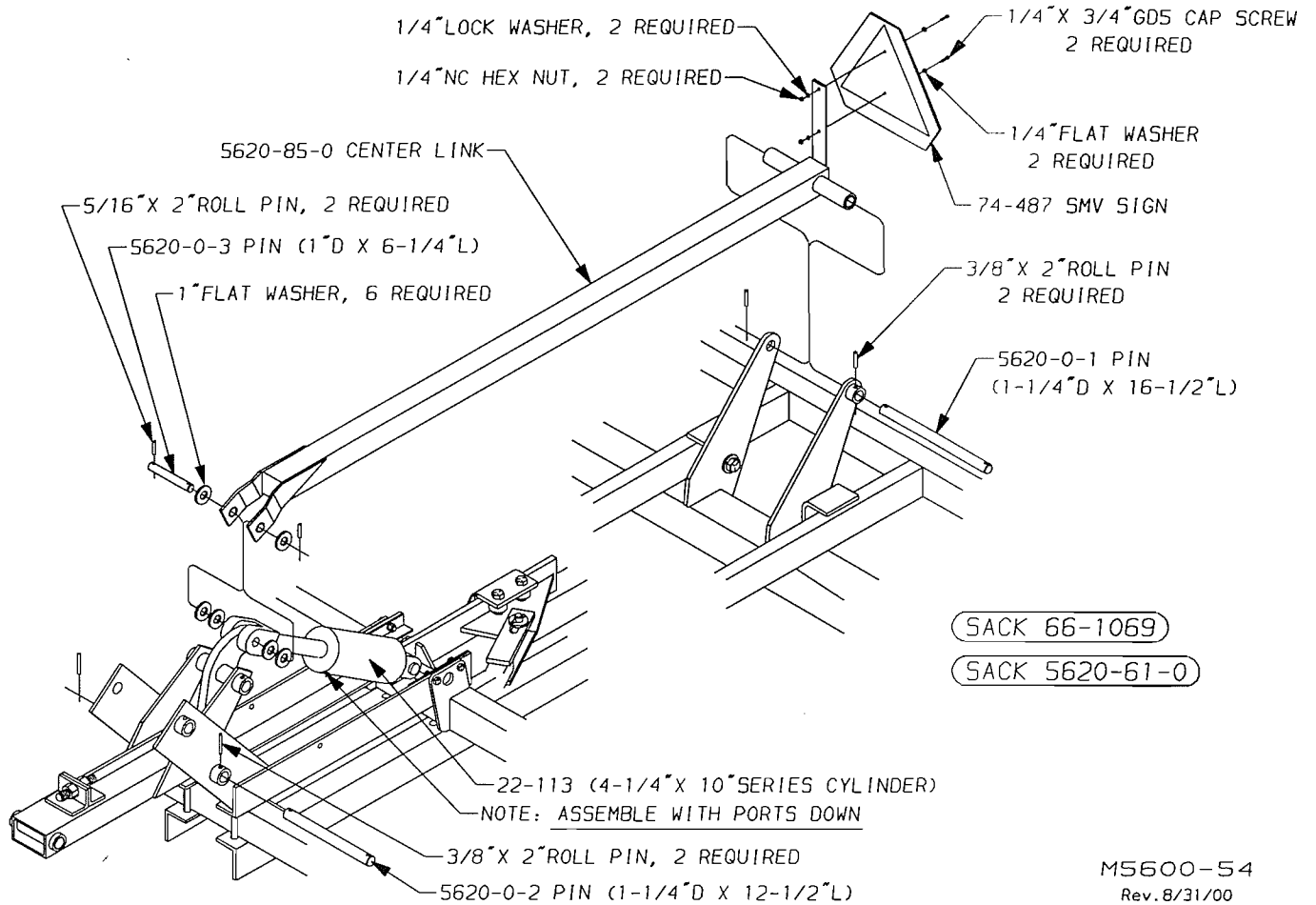
1. Assemble the float frame, angle supports, angle retainers, and the wing fold lug to the center frame.



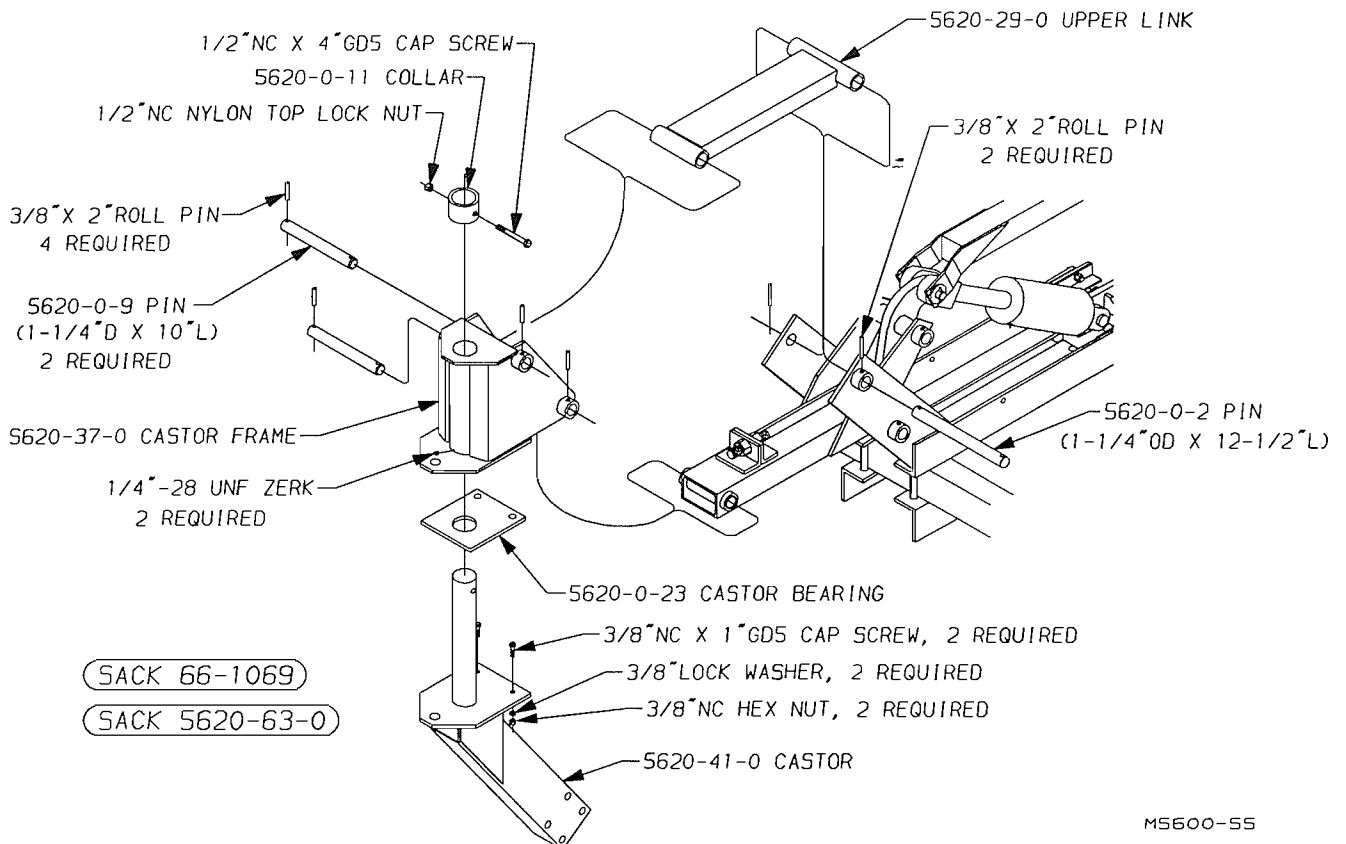
2. Sub-assemble the lower castor parallel link. Tighten the two 1NC Nuts together at the initial set up dimension shown.



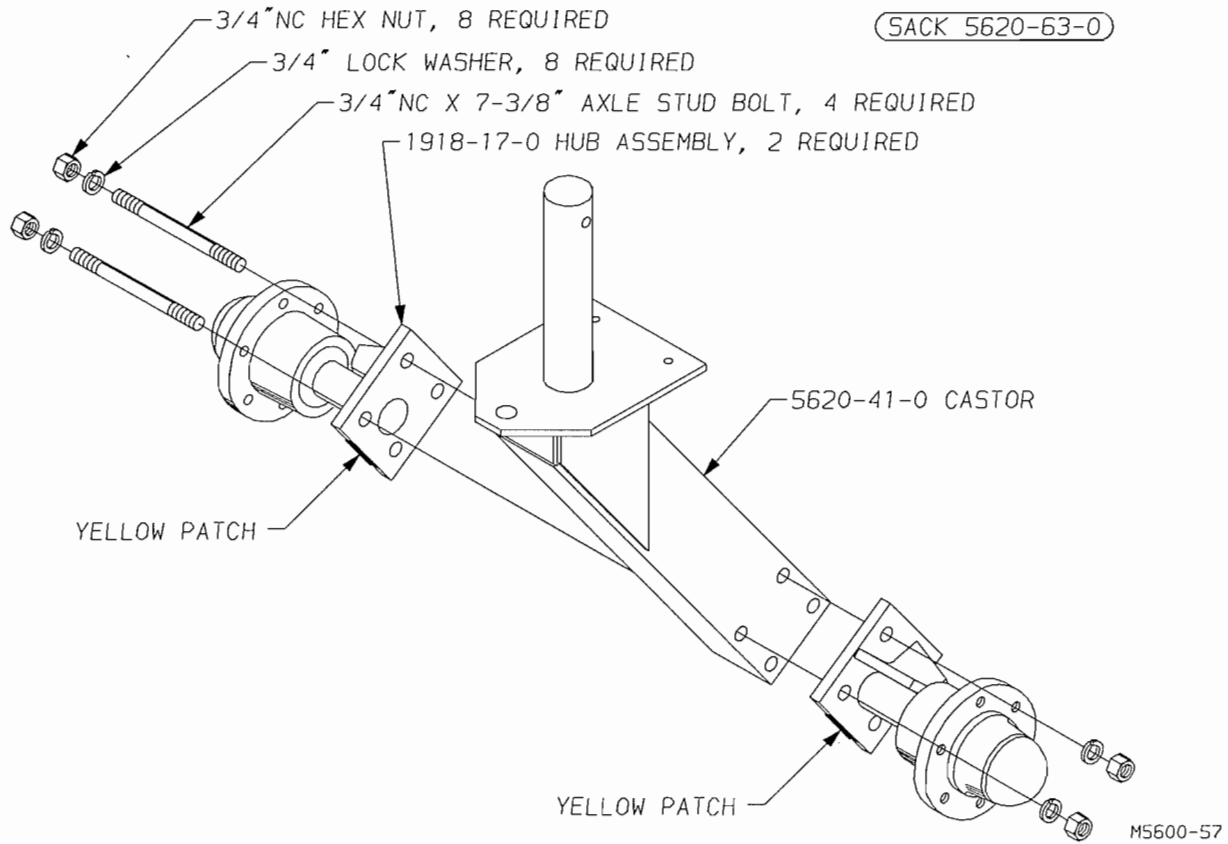
3. Assemble the lower link, center cylinder, center link and SMV sign.



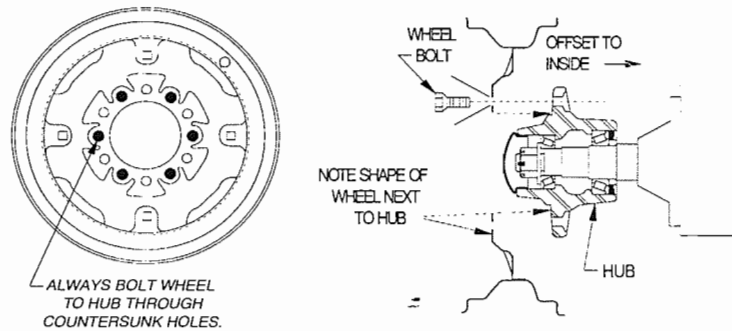
4. Assemble the upper link, castor frame and castor wheel arm.



5. Assemble the wheel hubs to the castor arm with the yellow patch position as shown below.

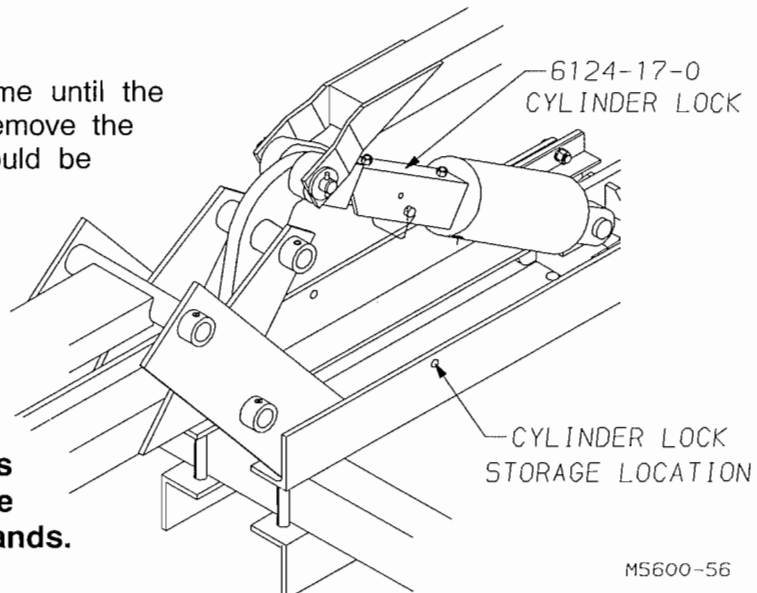


6. Attach (2) 11L x 15, 8-ply wheel and tire assemblies to the hubs. Secure the wheels to the hub with the wheel bolts and torque them from 90 to 95 Ft. Lbs. DO NOT OVER-TIGHTEN.



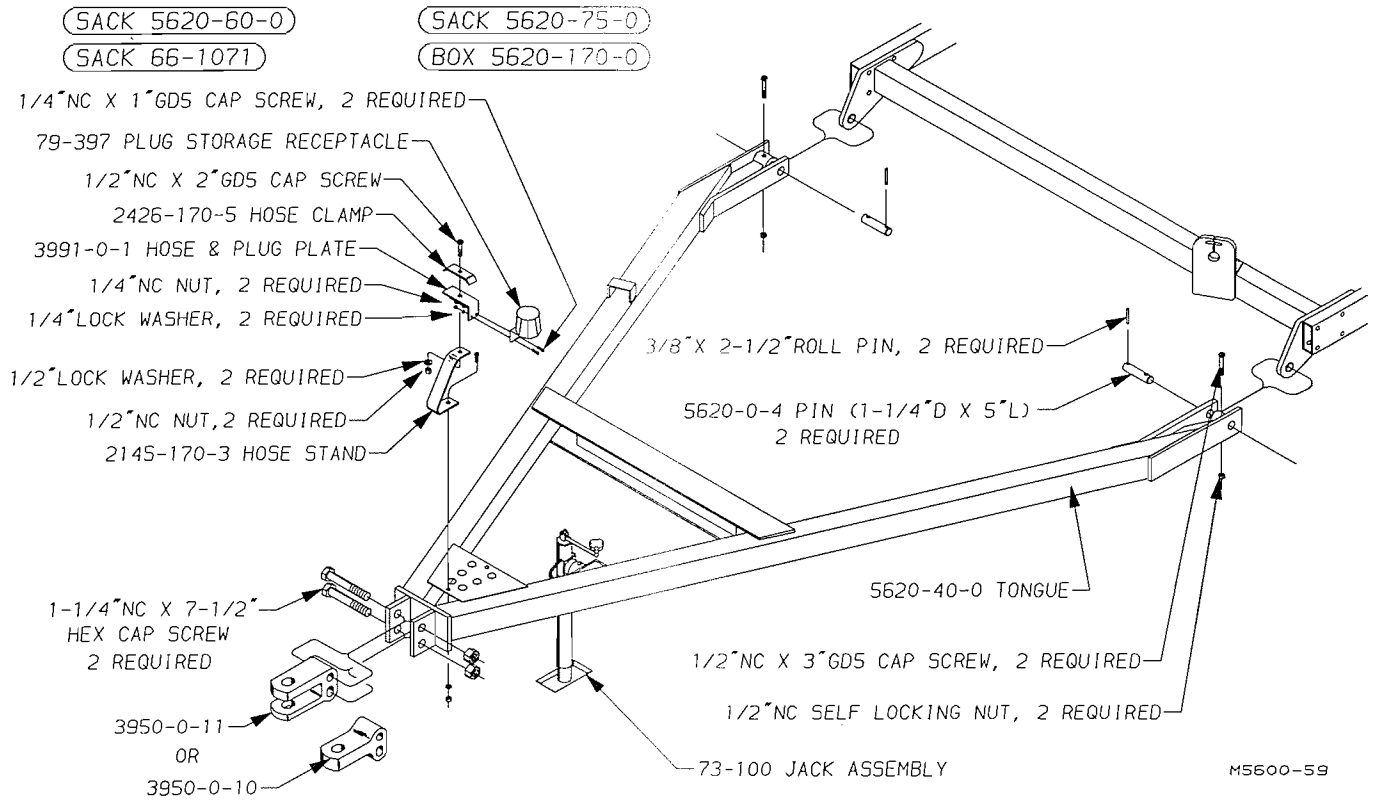
7. Assemble the cylinder lock onto the extended 4-1/4" x 10" cylinder rod.

8. Gently lift the back of the frame until the weight is off of the stands. Remove the stands. The center frame should be free-standing on its own tires.



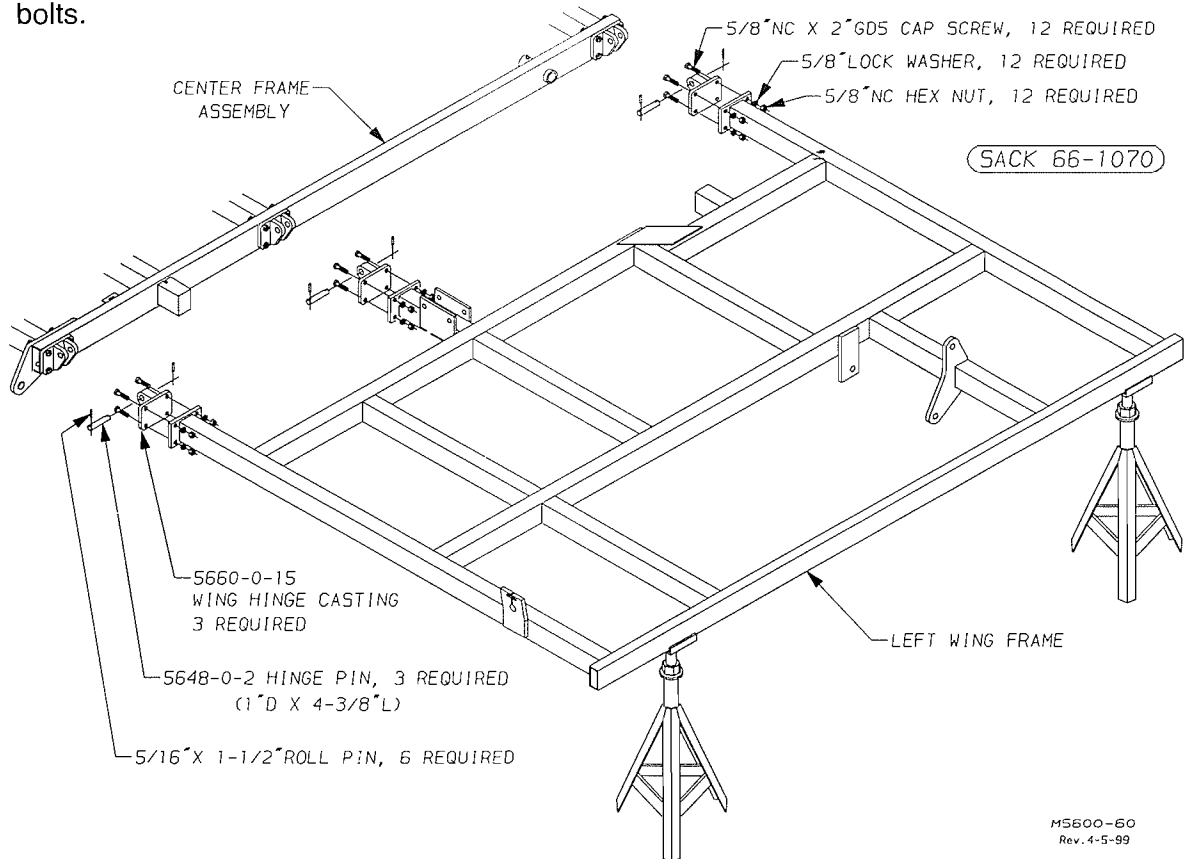
Warning: Have all persons stand clear before removing frame stands.

9. Assemble the tongue, jack, hose stand and hitch clevis.

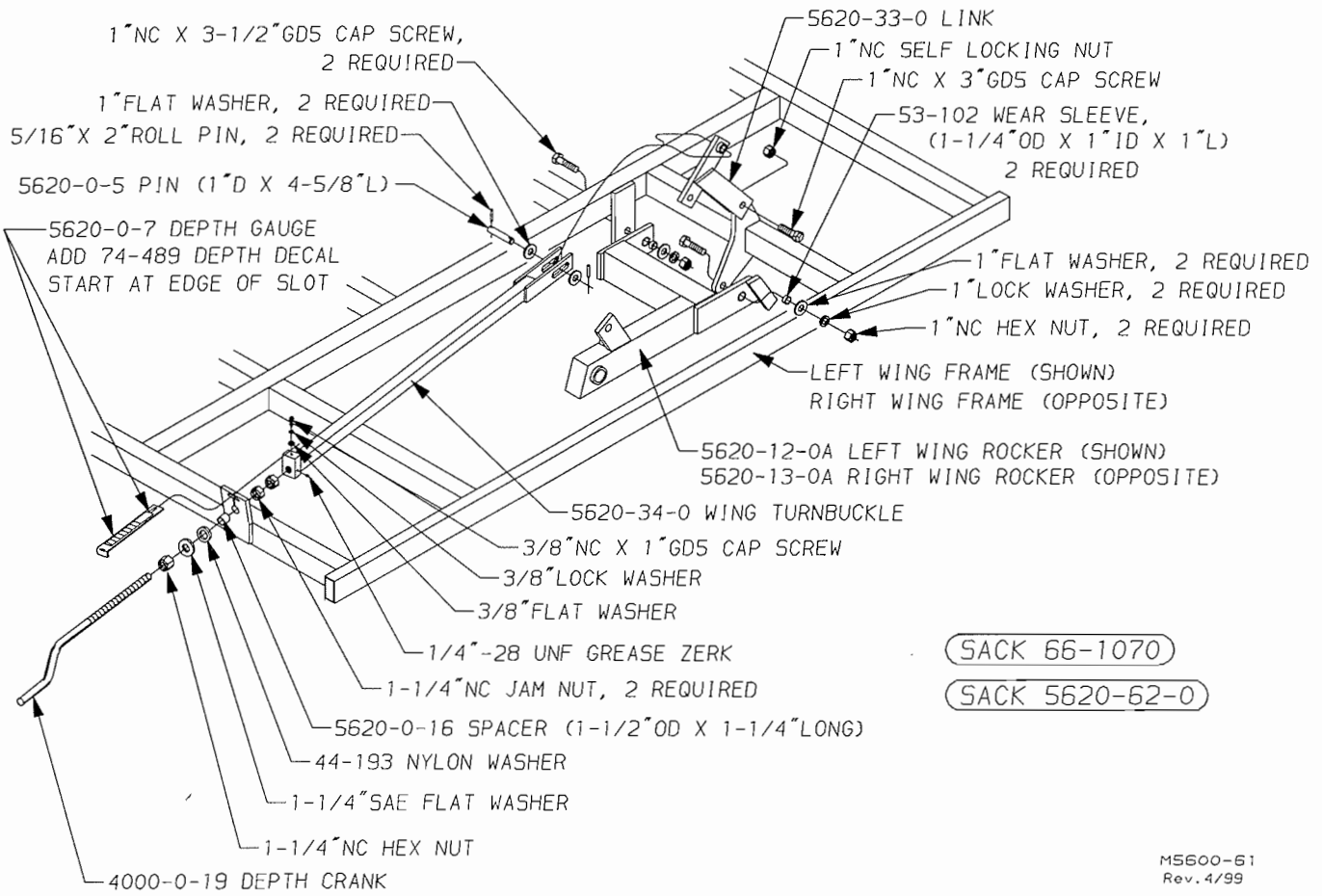


IV. WING ASSEMBLY

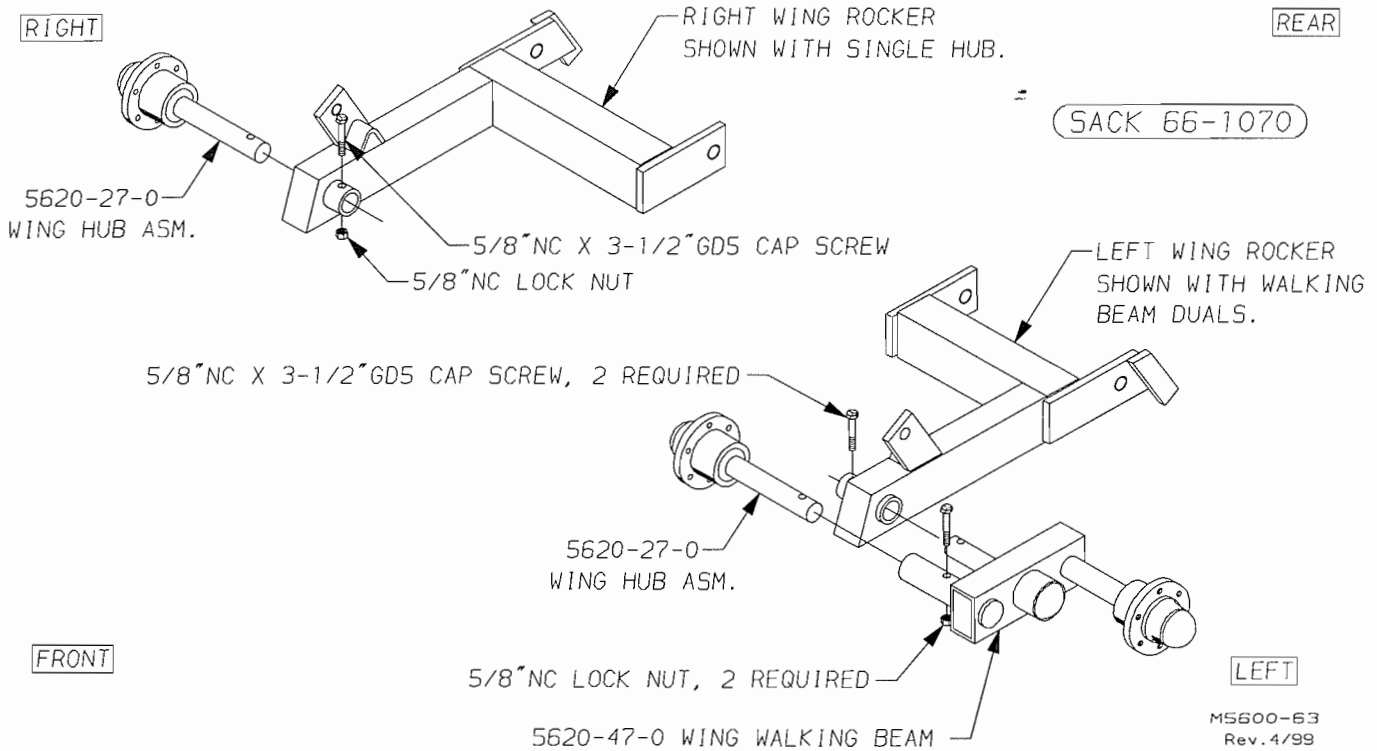
- Loosely sub-assemble the wing hinge castings to the wing frames. Pin the wing hinges to the center frame hinges and support the outer end of the wing with stands. Tighten hinge bolts.



2. Assemble the wing rocker and depth stop. Thread the 1-1/4NC Nut as far as possible onto the crank. Make sure the assembly is tightened completely between the Jam Nuts and the Standard Nut. Do not fully tighten the 1NC Lock Nut on the 5620-33-0 link.



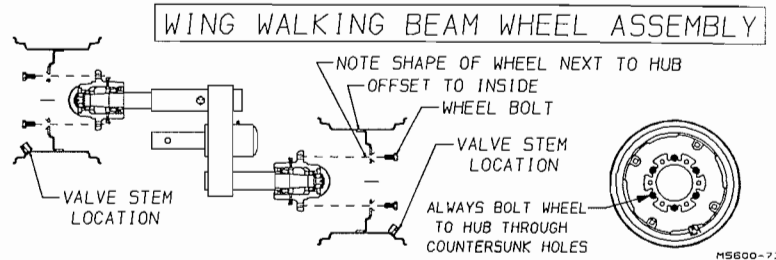
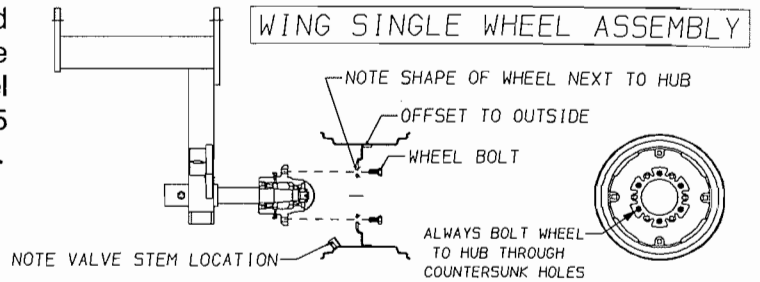
3. Assemble the wing hubs or walking beams.



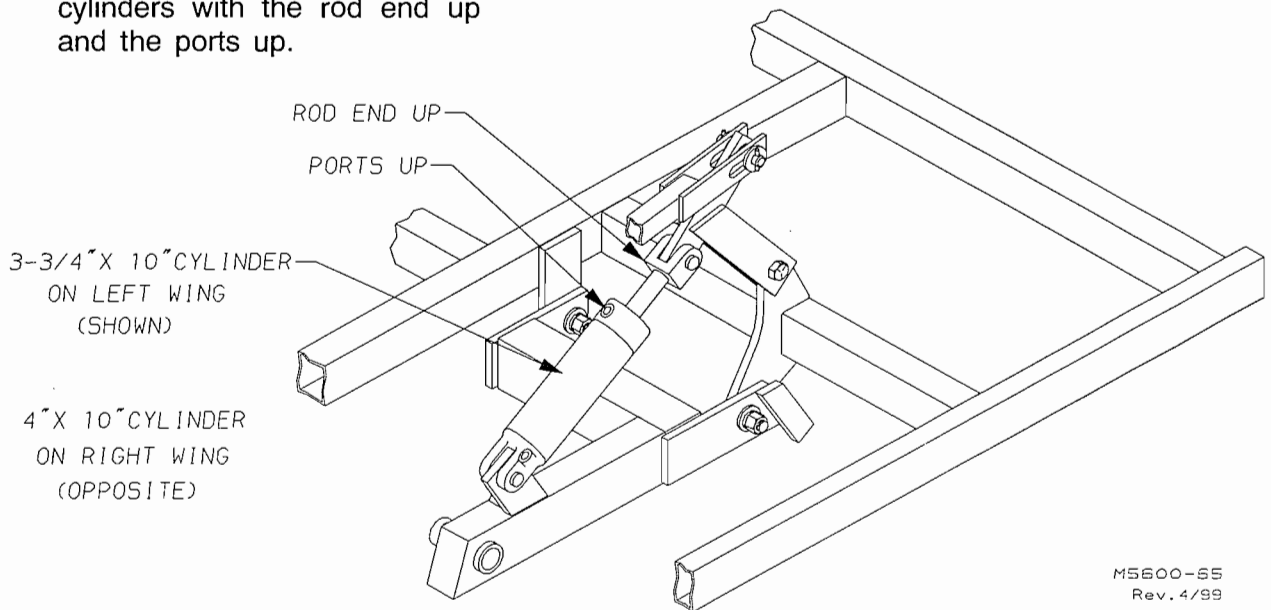
4. Attach (2) 11L x 15, 8-ply wheel and tire assemblies to the hubs. Secure the wheels to the hub with the wheel bolts and torque them from 90 to 95 Ft. Lbs. DO NOT OVER-TIGHTEN.

SPECIAL NOTE:

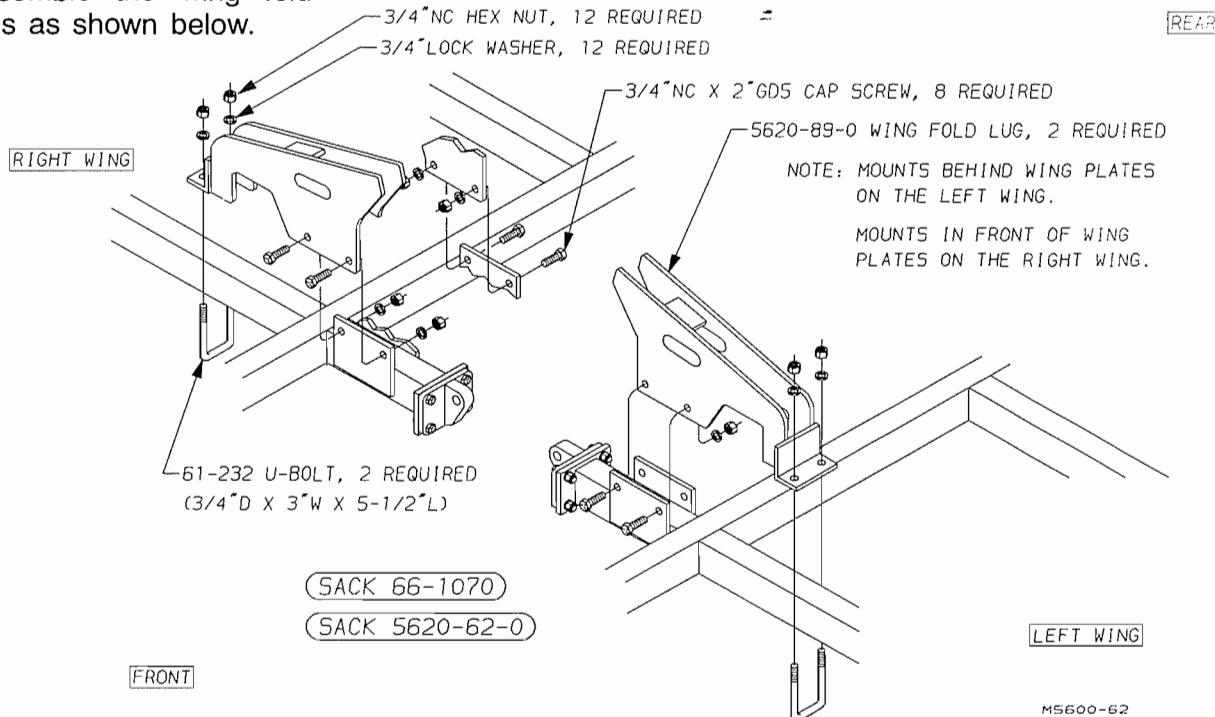
The single wheel assembly mounts backwards with the offset away as shown in the illustration to the right.



5. Assemble the wing rocker cylinders with the rod end up and the ports up.



6. Assemble the wing fold lugs as shown below.

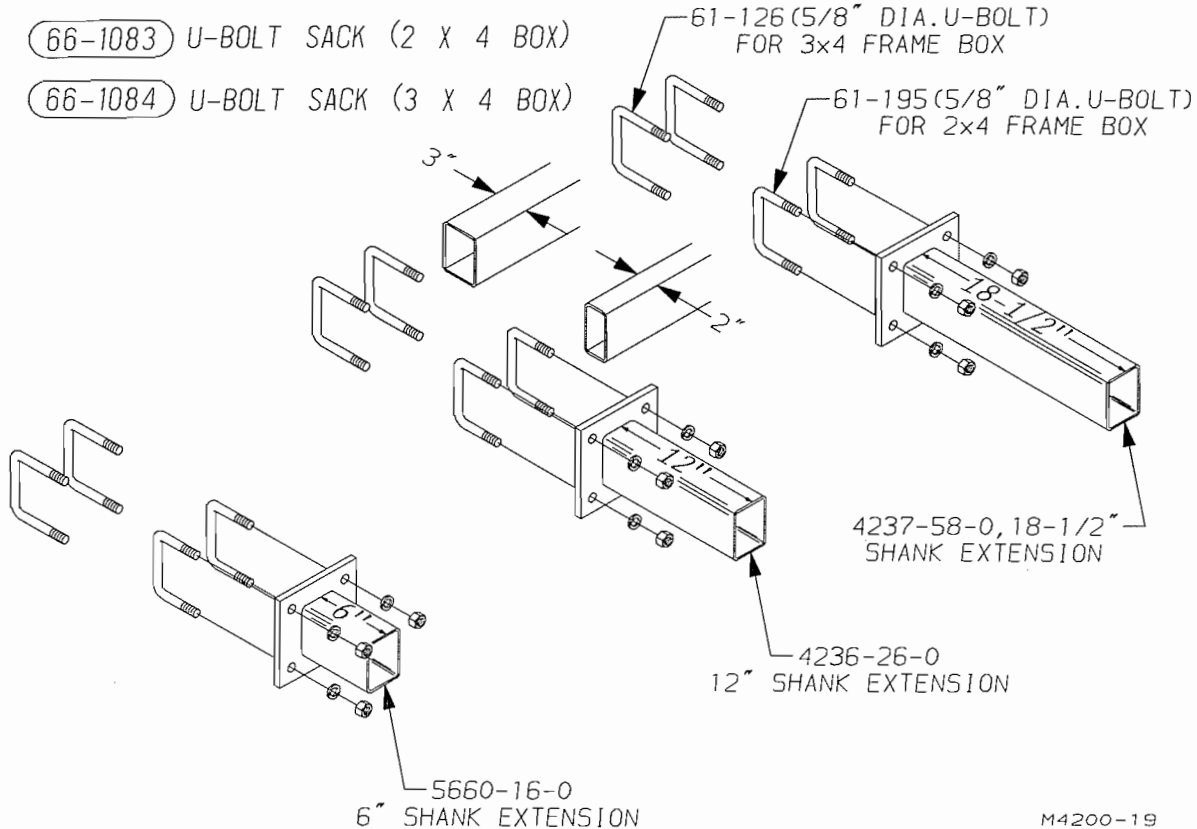


V. SHANK EXTENSION ASSEMBLY (ALL MODELS)

U-Bolted shank extensions are used as needed at various locations with the frame as well as for add-on extensions to the wings.

There are (3) different extensions: 6", 12" and 18-1/2".

There are (2) different U-Bolts: for a 2" x 4" box, and for a 3" x 4" box.



The shank placement pages at the back of this manual will show the locations for extensions. Determine the extension length and the U-Bolts required and assemble as shown in the placement drawing for your model.

VI. SHANK ASSEMBLY

K-TINE SHANKS

- Refer to the placement drawing at the back of the book for shank location and type of mounting.
- Bolt Sweep or Point to the shank with (2) 7/16NC x 1-1/2" GD5 Plow Bolts. A 7/16" Flat Washer is required next to the slotted hole.
- There are (4) different types of K-Tine Mountings.

2-PIECE K-TINE SHANKS

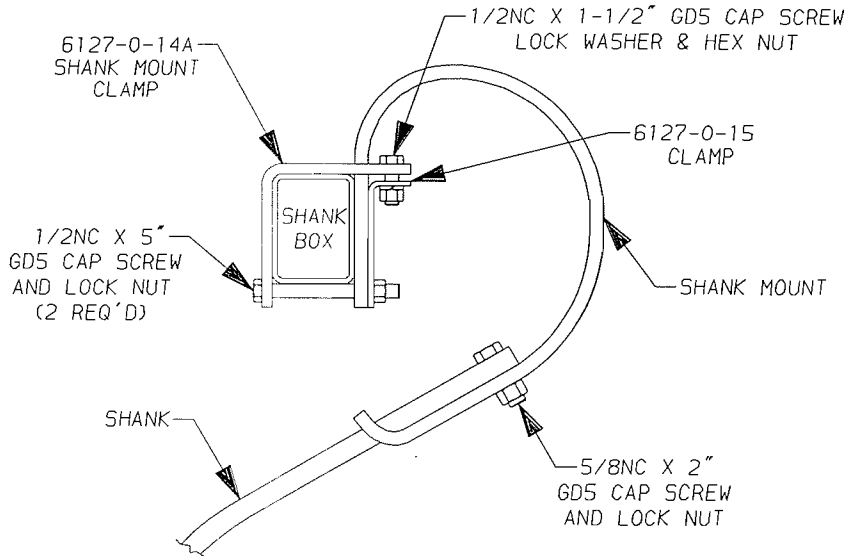
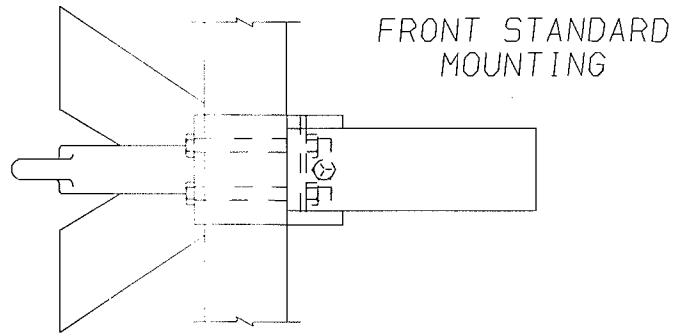
a.) Front Standard Mounting

(66-1079)

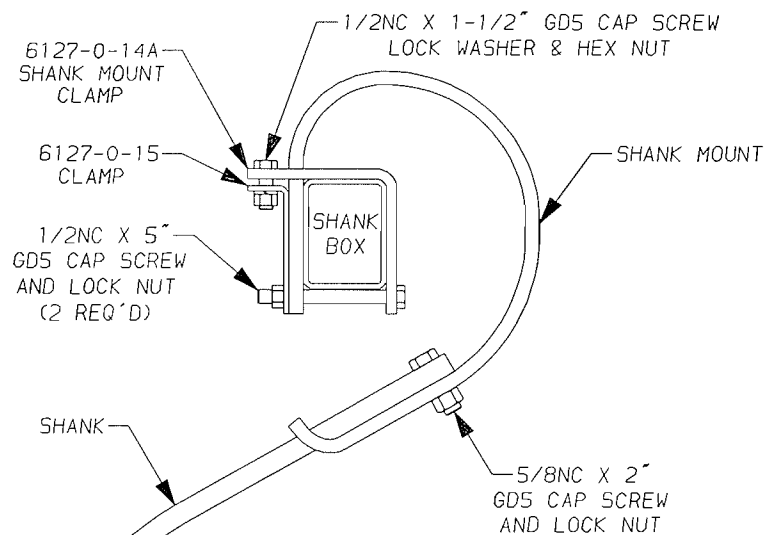
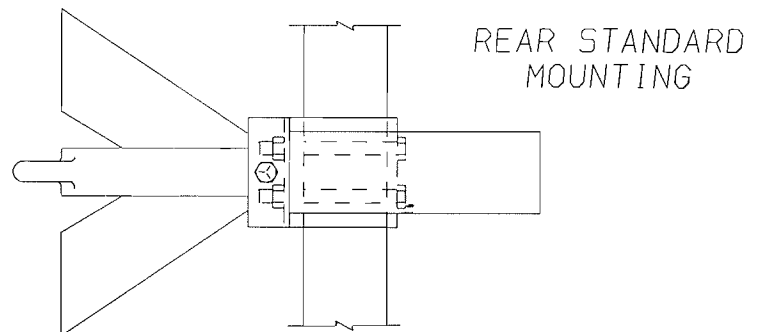
(FOR 10 SHANKS)

(66-1080)

(FOR 2 SHANKS)



b.) Rear Standard Mounting



c.) **Rear Extended Mount**

REAR EXTENDED MOUNT

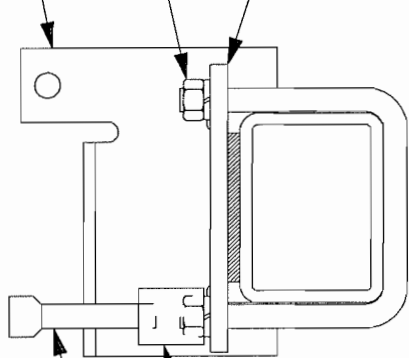
(66-1081) (FOR 10 SHANKS)

(66-1082) (FOR 2 SHANKS)

4226-0-10 (EXTENDED BRACKET)

61-216 (U-BOLT 1/2" X 4-1/16" X 4-1/4")
 (2) 1/2" LOCK WASHERS
 (2) 1/2" NC HEX NUTS

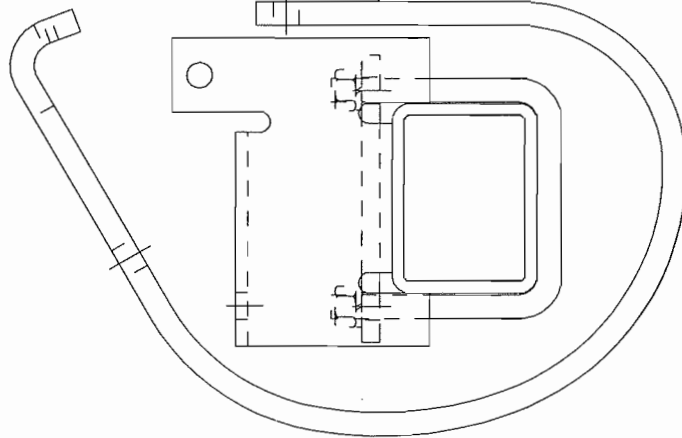
4226-0-11 (BOLT PLATE)



3/4" SOCKET
 1/2" DRIVE EXTENSION

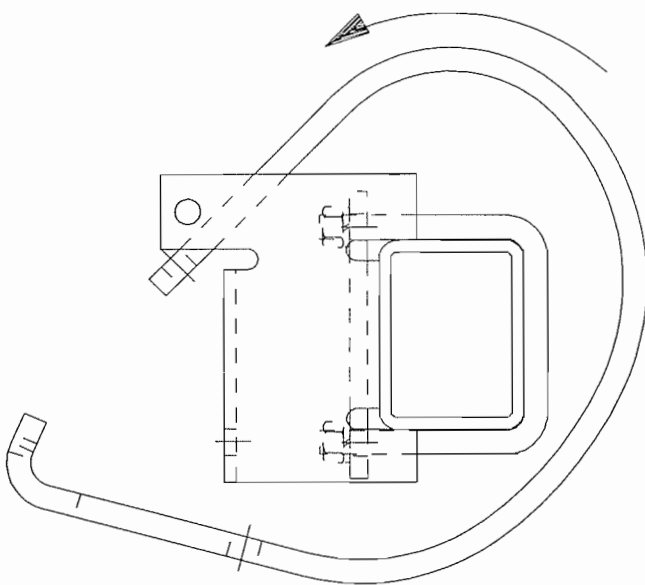
STEP 1

31-179 (SHANK MOUNT)



STEP 2

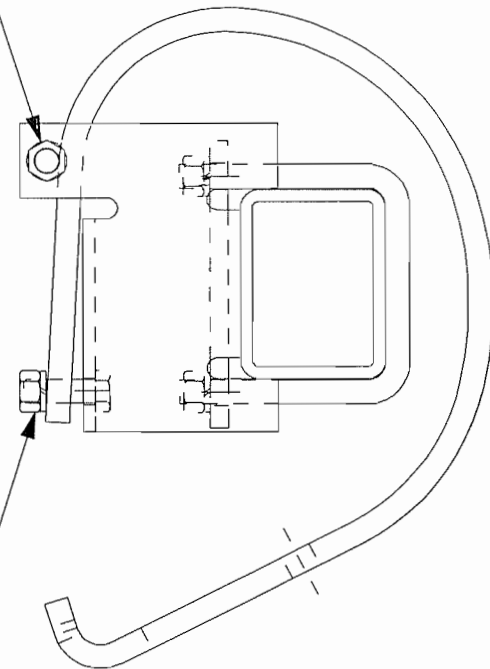
ROTATE INTO CLAMP



(2) 1/2" NC X 1-1/2" GD5 CAP SCREWS
 (2) 1/2" LOCK WASHERS
 (2) 1/2" NC HEX NUTS

STEP 3

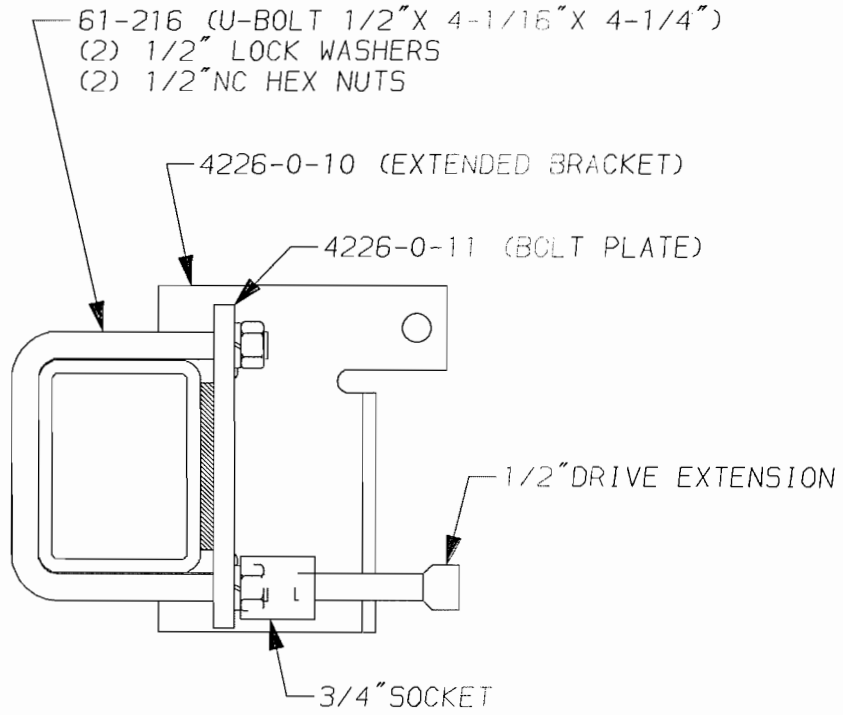
1/2" NC X 4-1/2" GD5 CAP SCREW
 1/2" LOCK WASHER
 1/2" NC HEX NUT



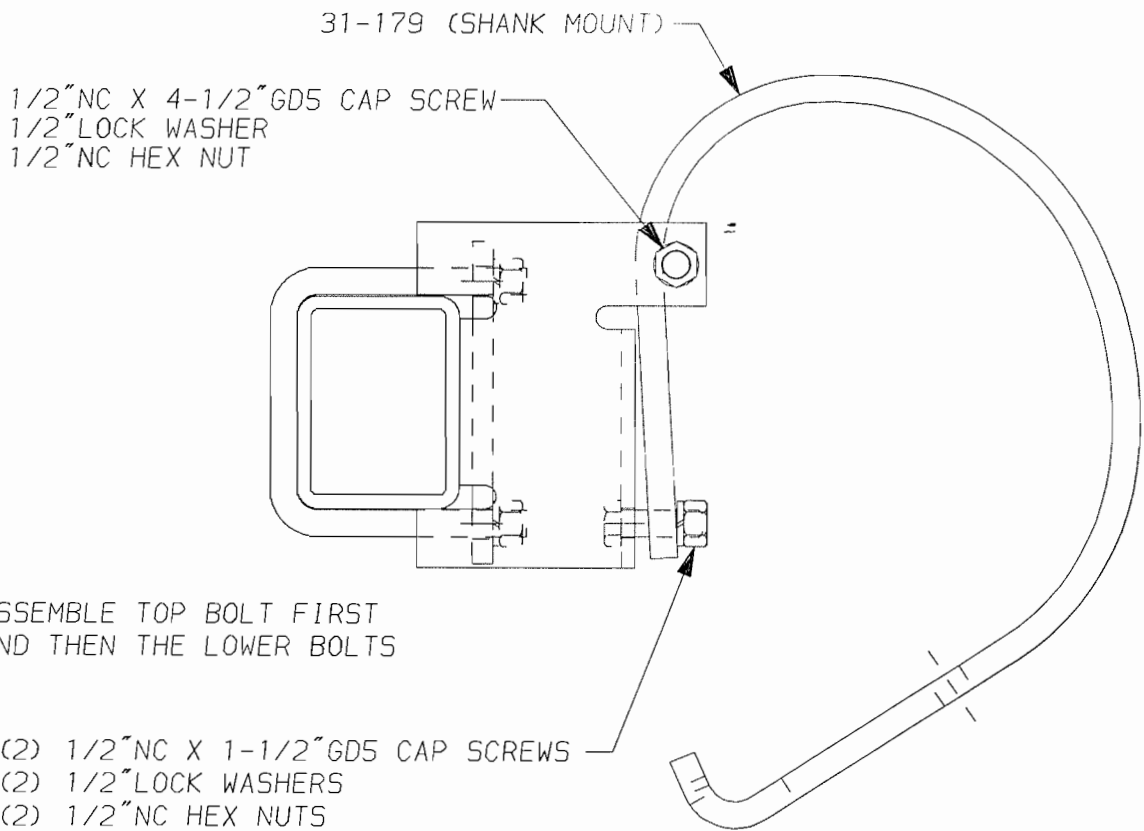
NOTE: ASSEMBLE TOP BOLT FIRST
 AND THEN THE LOWER BOLTS

STEP 4

d.) **Front Extended Mount**



STEP 1

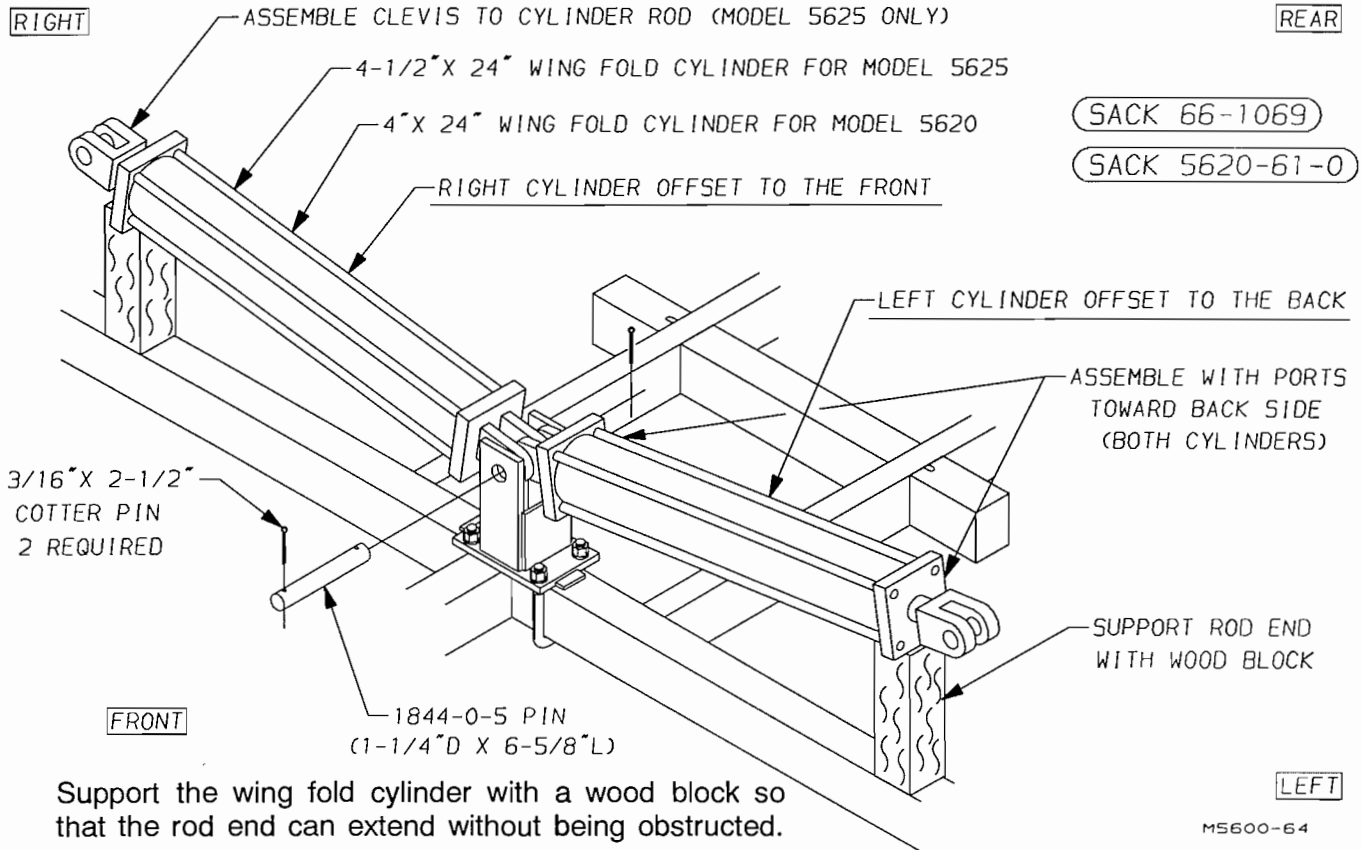


NOTE: ASSEMBLE TOP BOLT FIRST
 AND THEN THE LOWER BOLTS

STEP 2

VII. HYDRAULICS

1. Pin the 24" stroke wing fold cylinders to the center fold lug. Make sure the ports are to the back side. The right cylinder is offset to the front. The rod end clevis must be assembled and tightened on model 5625 only.



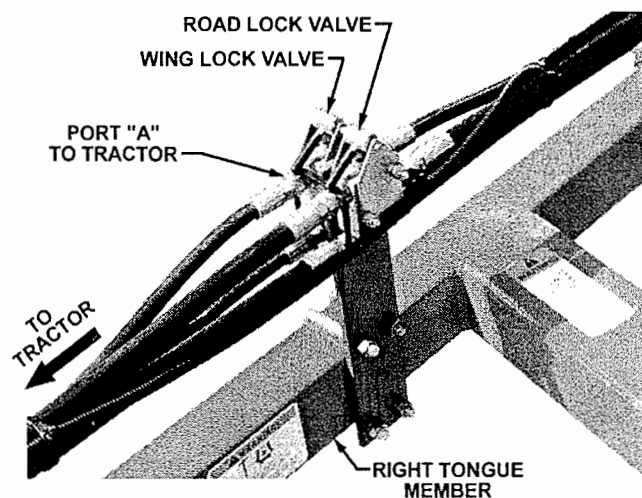
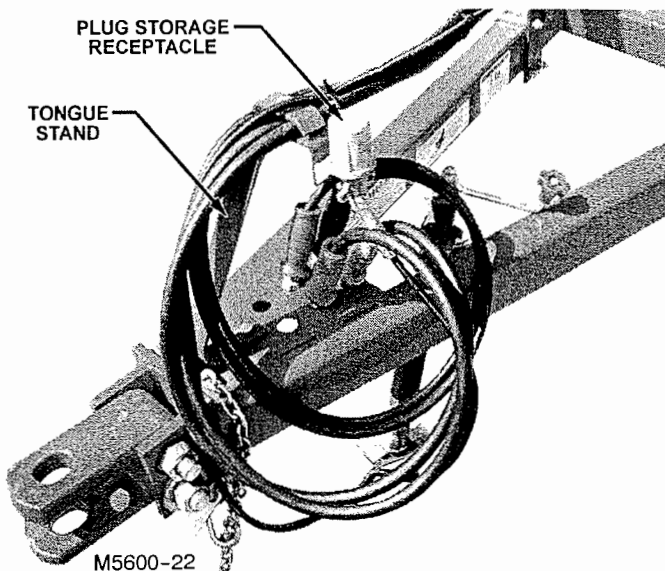
Support the wing fold cylinder with a wood block so that the rod end can extend without being obstructed.

IMPORTANT: DO NOT PIN THE ROD ENDS OF THE WING FOLD CYLINDERS TO THE WING LUGS UNTIL ALL HYDRAULIC ASSEMBLY IS COMPLETE AND THE SYSTEM HAS BEEN PURGED OF AIR AND FILLED WITH OIL.

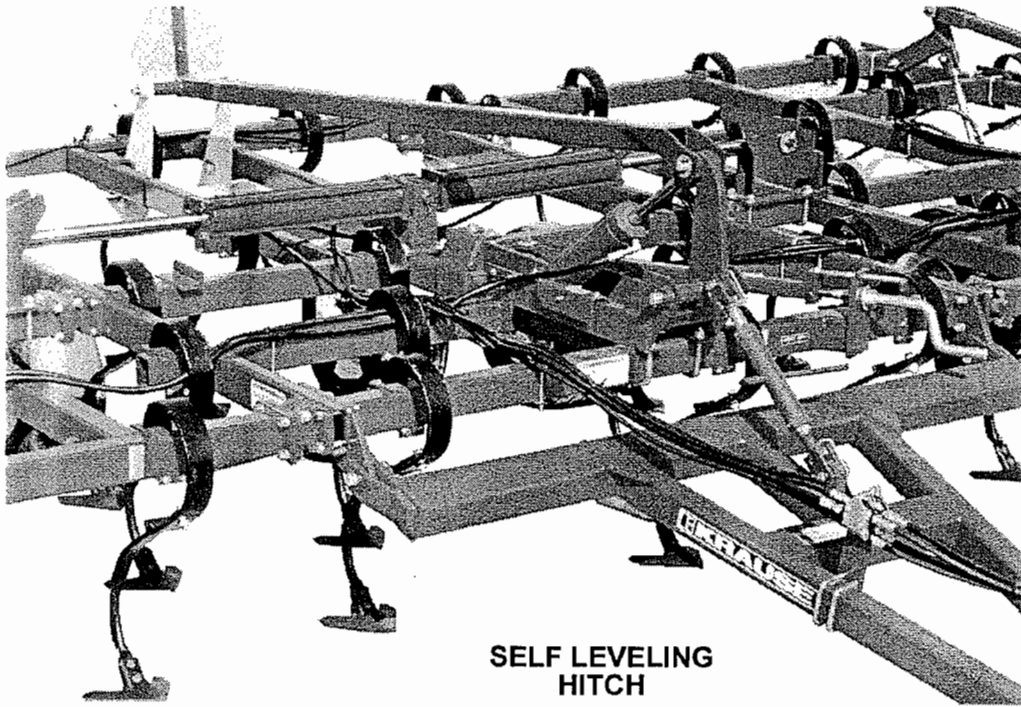
2. Using the hose drawings in the Parts Section, assemble all hoses, fittings and hose clamps as shown.

IMPORTANT: MAKE SURE WING FOLD CYLINDERS ARE ASSEMBLED WITH RESTRICTORS IN THE ROD END PORTS.

3. Use the following photographs to aid in hose assembly and clamping.

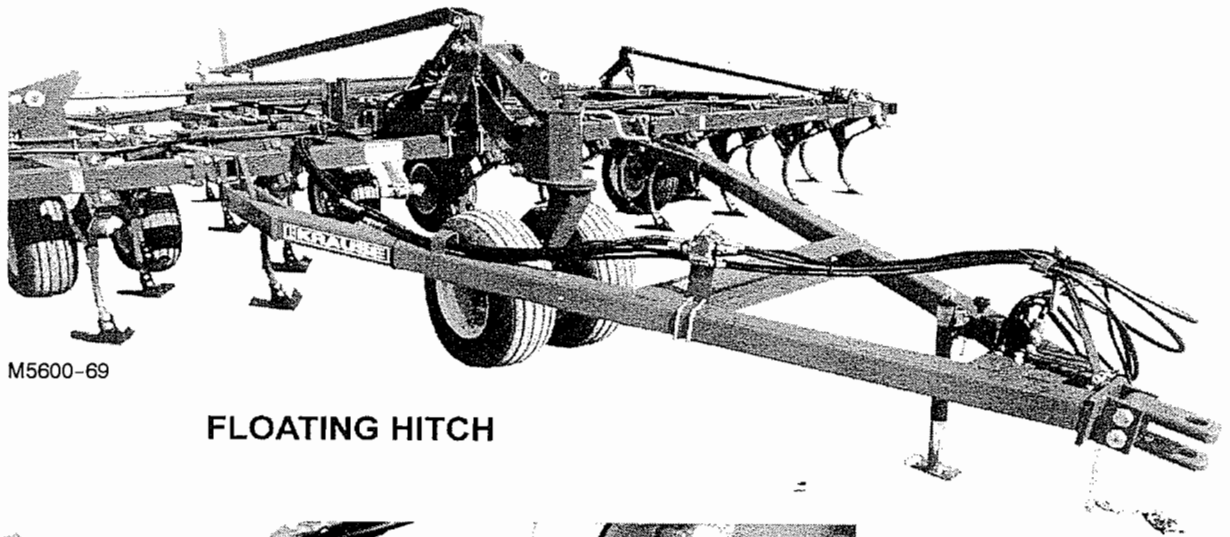


M5600-26



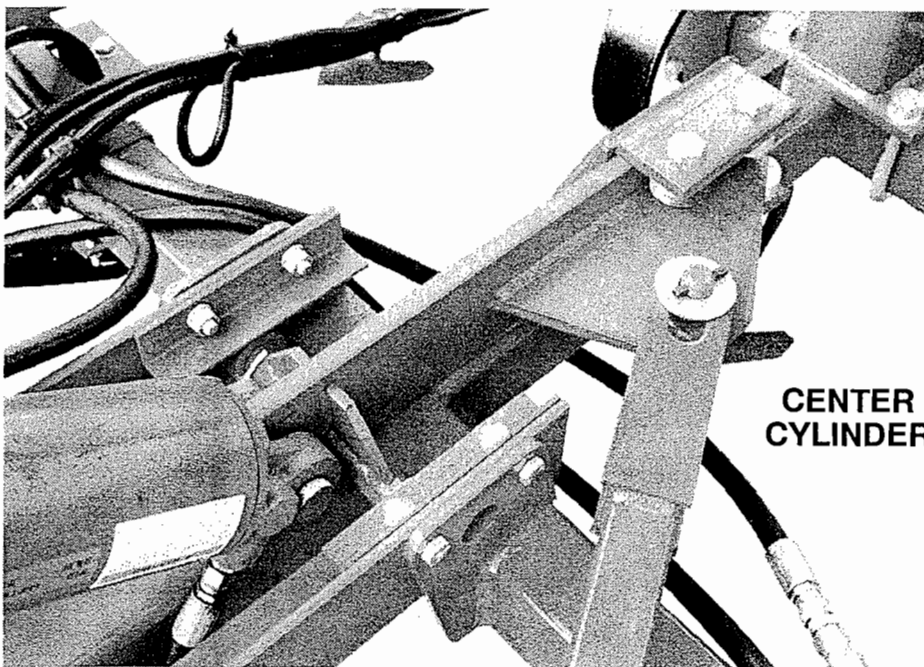
**SELF LEVELING
HITCH**

M5600-24



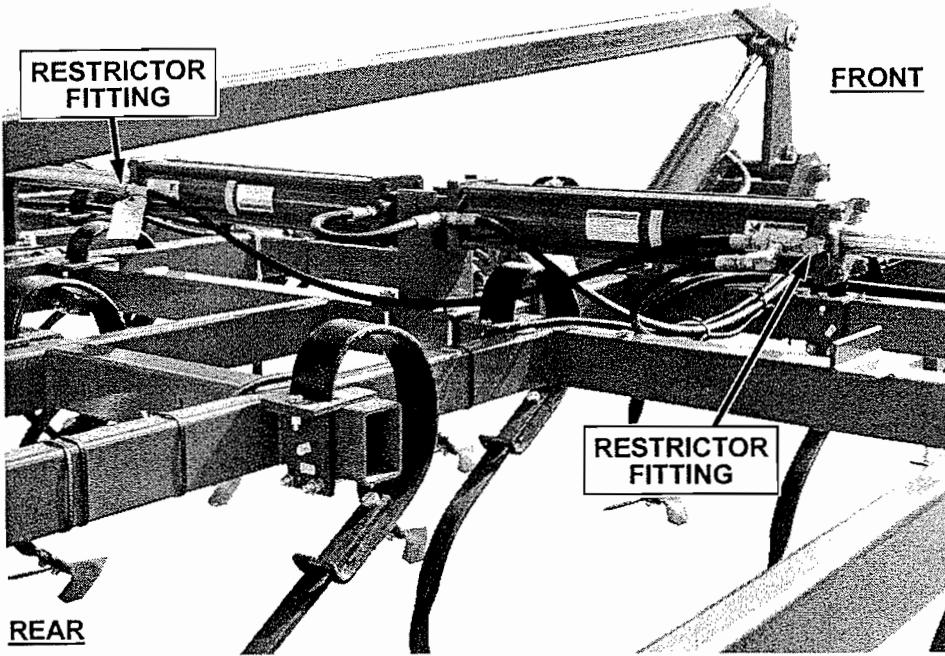
M5600-69

FLOATING HITCH



**CENTER
CYLINDER**

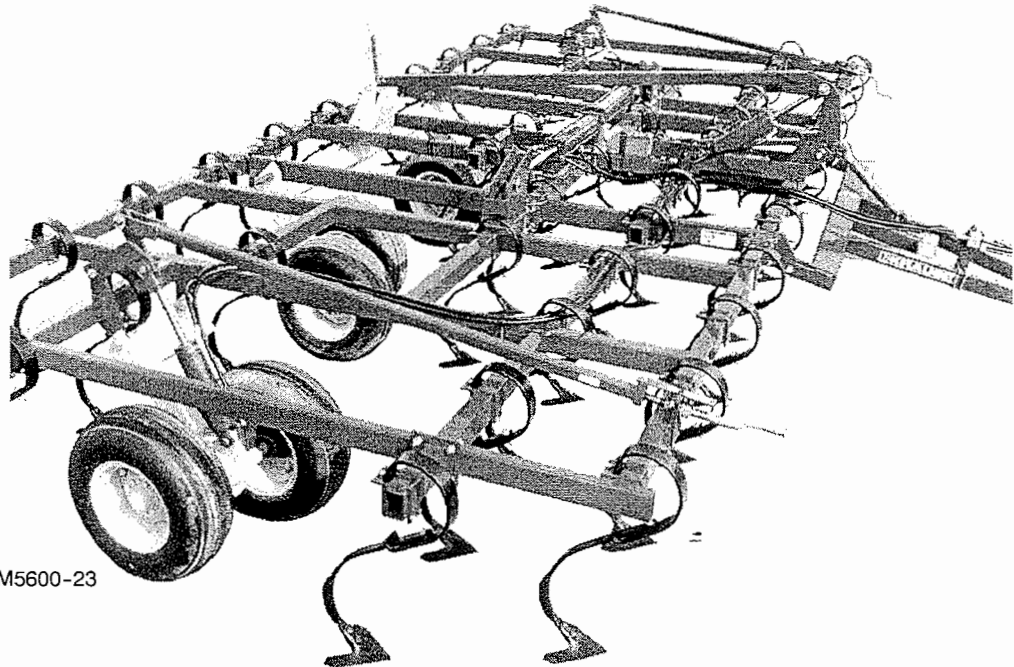
M5600-21
Rev.1/6/99



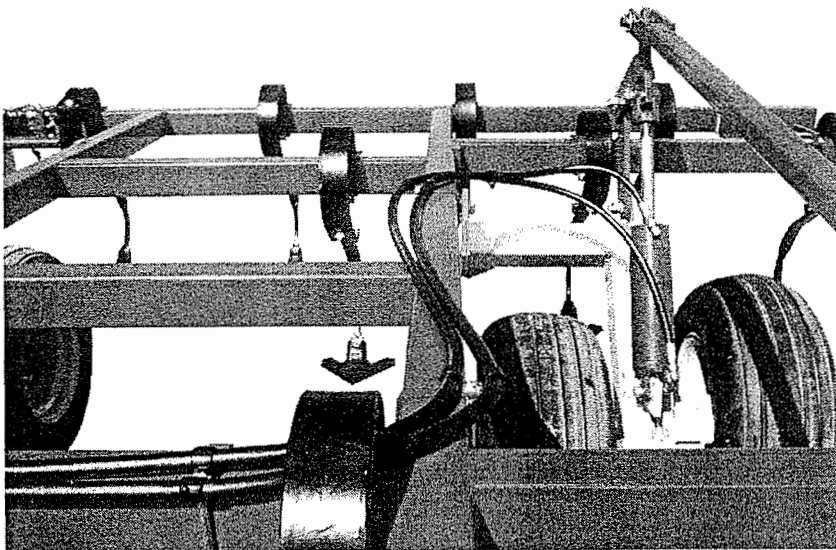
**WING FOLD
CYLINDER**

M5600-70

**RIGHT
WING**



M5600-23



**LEFT
WING**

M5600-21

4. CHARGING THE CYLINDERS

- a.) After all hose and fittings are assembled, check the blocks under the wing cylinders. Make sure they are raised high enough to clear any attaching lugs.
- b.) Attach hydraulic hoses to the tractor. Check the tractor hydraulic reservoir and make sure it is full of the manufacturer's recommended oil.
- c.) If you are sure all connections are tight and leakproof, begin filling the system by extending and retracting the cylinders.
- d.) The rocker shaft cylinders have rephasing grooves that will allow the oil to pass by the piston when the cultivator is fully raised. Hold the control lever open during each cycle when the cultivator is raised and the cylinders are fully retracted for 30 to 45 seconds. This will force the oil through the rephasing grooves and allow the series cylinder to be charged with oil.
- e.) Continue the cycles until the cylinders respond with immediate solid actuation.

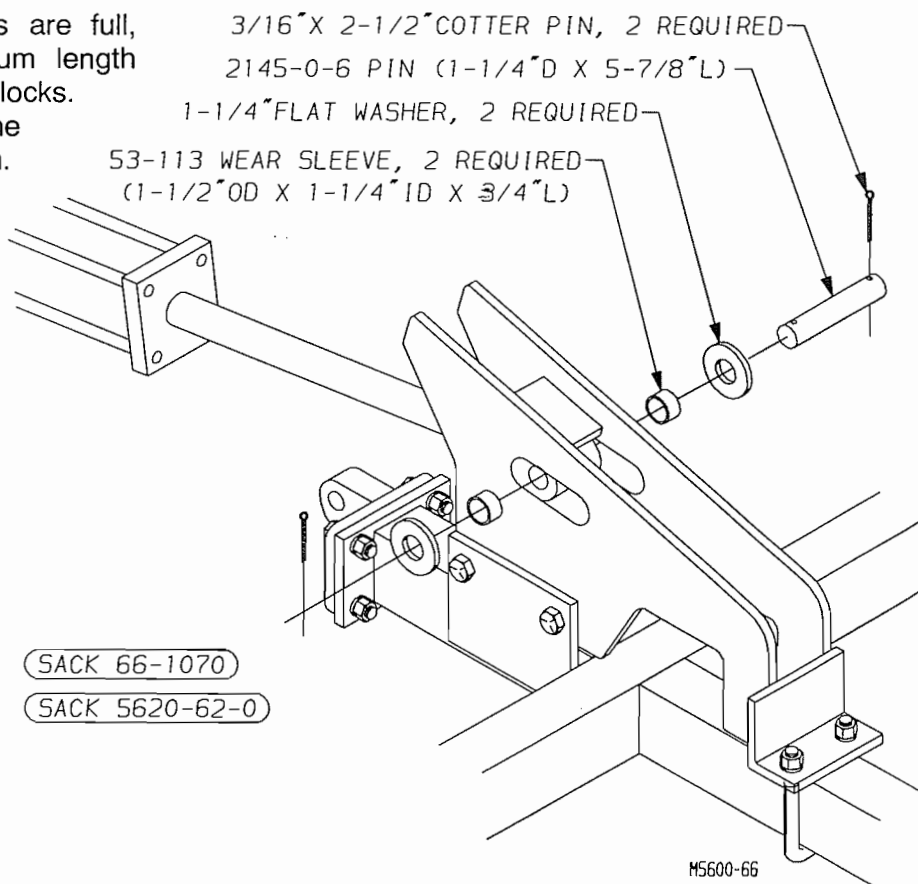


Warning: Escaping fluid under pressure can penetrate the skin causing serious injury. Avoid the hazard by relieving pressure before disconnecting hydraulic lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.

5. After the wing cylinders are full, extend them to maximum length and remove the wood blocks. Pin the rod end of the wing cylinders as shown.

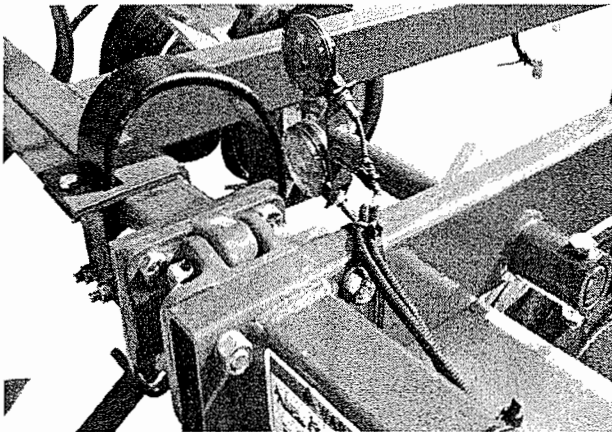


VIII. DECALS

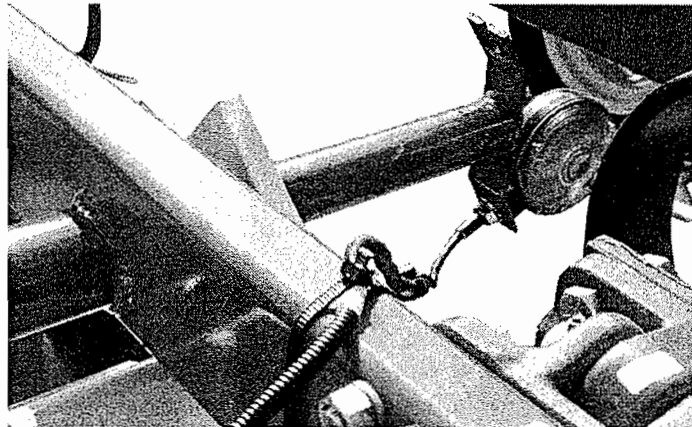
The decals are important to the safety of the operators and to others and must be attached to the cultivator at the proper locations. Some decals are applied to the proper location at the factory; however, these should be checked for location, and to be sure that they have not been damaged in shipping or set-up. Remove the protective backing from each remaining decal and attach to the field cultivator at the locations shown on the parts drawing on page P34.

IX. LIGHT KIT ASSEMBLY

Always comply with state and local laws pertaining to lighting. Install the Light Kit as shown on page P35 in the Parts Section. Make sure that the wire harness is routed and fastened securely so that it won't be damaged when the wings fold or when the rocker rotates.



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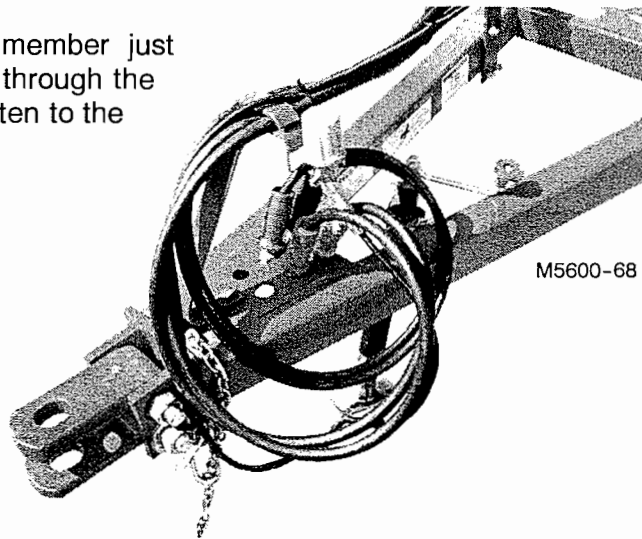
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X. SAFETY CHAIN ASSEMBLY

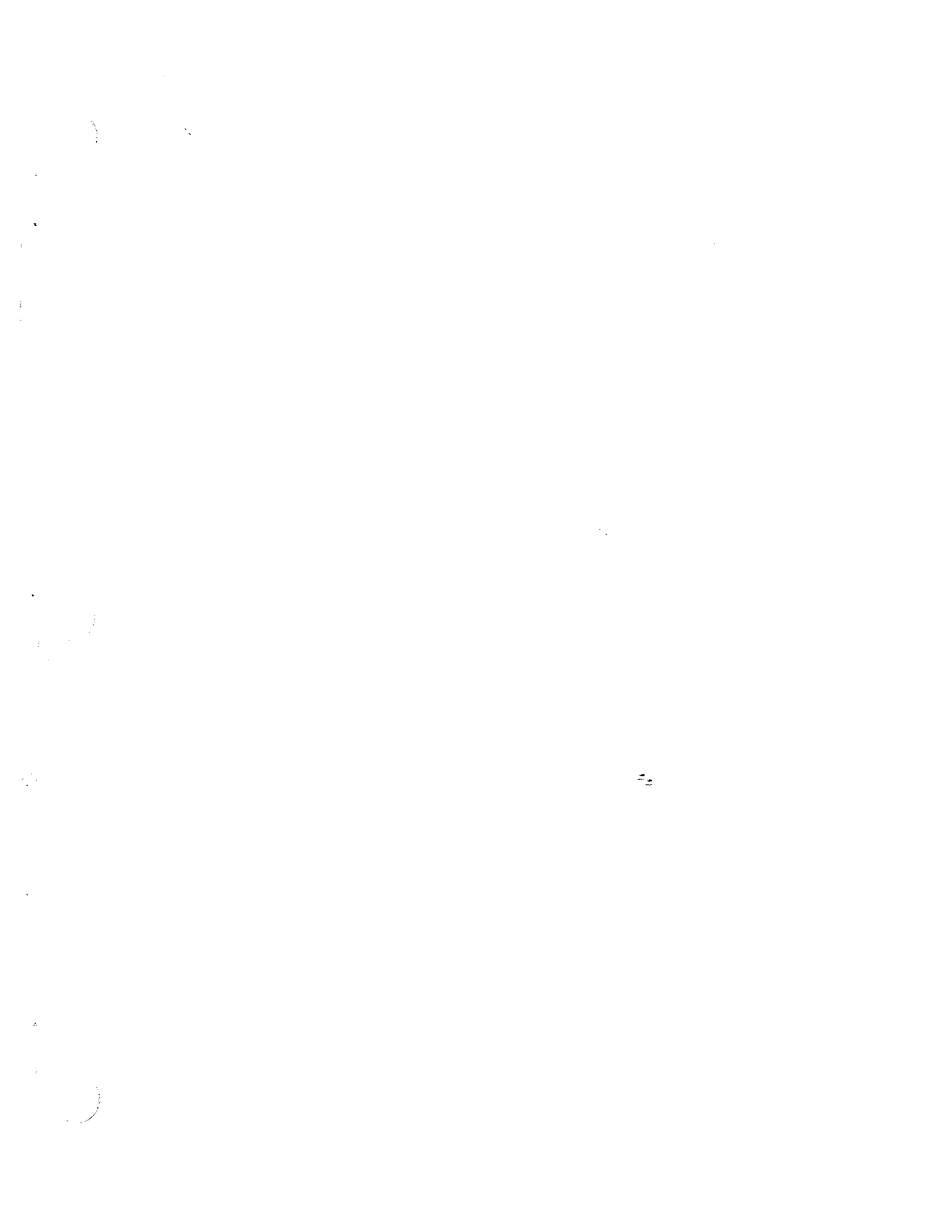
Loop the chain around the left tongue member just ahead of the hose stand. Insert the hook through the ring and pull it tight. The hook end will fasten to the tractor drawbar.

XI. FINAL CHECK

1. Check the hydraulic system for leaks.
2. Lubricate all grease points.
3. Check torque of all bolts.
4. Fully extend depth control cylinders. Close road lock valve. Move cylinder rod end lock to the storage position.
5. Lower tongue jack.
6. Check tire pressure and wheel bolt torque.
7. Perform final inspection. See Dealer Predelivery Check Sheet (follows Warranty page at the front of this manual).



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SAFETY FIRST

Be observant and safety minded. Recognize and correct or avoid hazardous conditions before an accident can happen. Most accidents can be prevented by practicing simple fundamental safety rules.

1. Read and understand the implement and tractor owner's manuals before operating.
2. Be sure safety decals and reflectors are clean and in place.
3. Do not climb or walk on gangs or frames or tires.
4. Never position yourself under any portion of implement unless the transport lock is engaged or entire unit is lowered to the ground.
5. Stop engine before leaving the operator's position to adjust, lubricate, clean or unclog the machine.
6. Do not stand between the implement and tractor unless the tractor brakes are locked and engine is shut off.
7. Do not stand on or straddle a tongue when unhitching.
8. Always store a winged implement with the wings down.
9. Never remove locking pins until hydraulic cylinders and lines are full of oil and free of air. See Operating Instructions for proper method of removing air.
10. Never use machinery until all safety devices are in place.
11. Release all hydraulic pressure before shutdown periods.
12. Comply with Federal, State and local laws.
13. Use a Slow-Moving-Vehicle (SMV) emblem when transporting.
14. Always use a safety chain of tensile strength equal to the gross weight of the implement and attachments when roading.
15. Towing vehicle weight must exceed weight of towed implement.
16. Check wheel bolts before and during transport.
17. Always use wing locks and road locks to hold raised positions.
18. Never permit riders on implement.
19. Do not road an implement over 15 miles per hour on the best surface conditions. Reduce speed when going up or down hills and when approaching ditches.
20. Keep small children away from farm equipment.
21. Never modify an implement without permission from the Krause Engineering Department.
22. Always use authorized Krause parts.