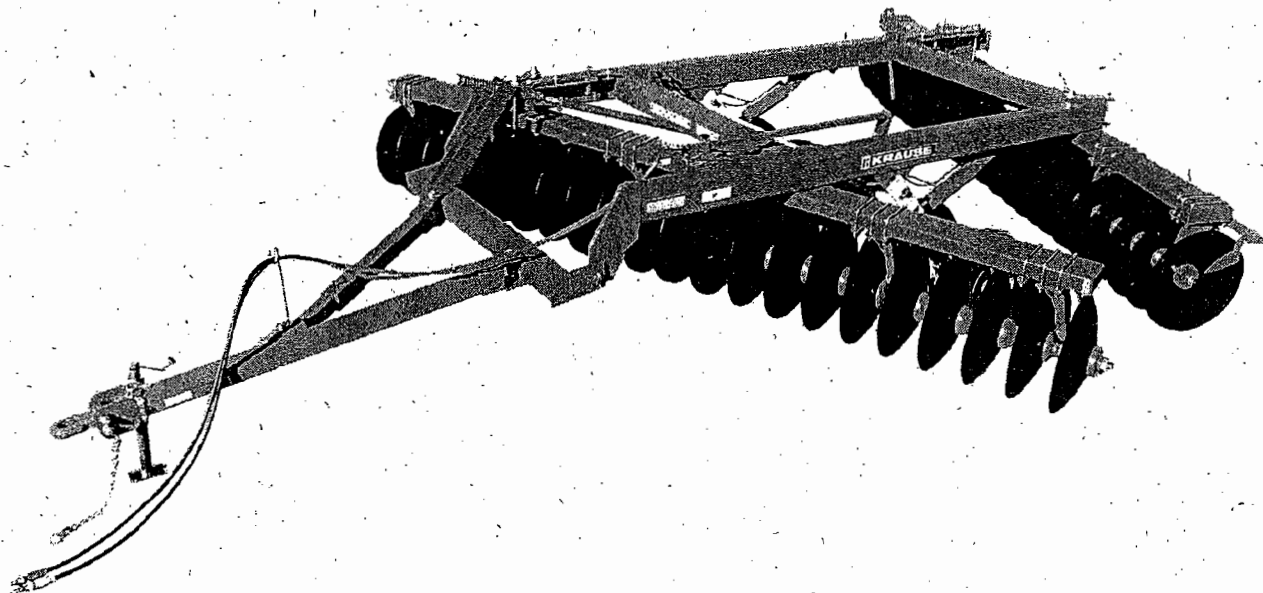


OWNER'S MANUAL  
5800



# OFFSET DISC HARROW

## 5800 SERIES

# KRAUSE

305 SOUTH MONROE / P.O. BOX 2707 / HUTCHINSON, KS 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: 5800

This manual covers models beginning with Serial No. 1306

Owner's Manual #: 5800-1

Parts Manual #: 5800-2

Rev.:

ISSUED TO:

ISSUED BY:

\_\_\_\_\_  
*Owner's Name*

\_\_\_\_\_  
*Krause Dealer*

\_\_\_\_\_  
*Mailing Address*

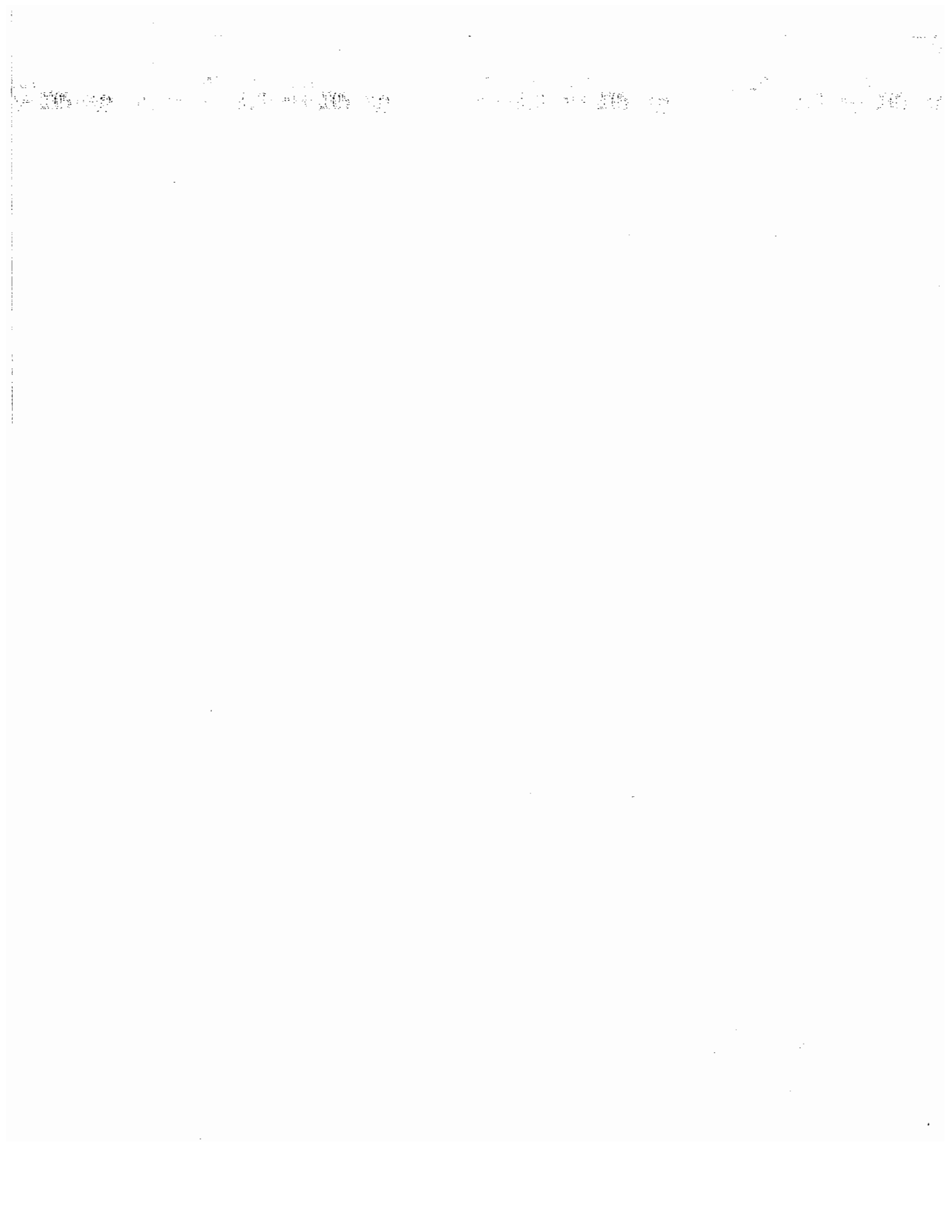
\_\_\_\_\_  
*City*

\_\_\_\_\_  
*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, 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. Tires supplied on Krause products, will be warranted by the tire manufacturer's retail outlets.
  - (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.

# 5800 SERIES OFFSET DISC 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 shaft bolts are tight.
2. \_\_\_ Check to see that hydraulic cylinders are full of oil (air bled out of cylinders). Make sure cylinder pins are secured. Hydraulic system requires 5 Quarts of oil.
3. \_\_\_ Examine hydraulic hoses to see that they are protected from damage.
4. \_\_\_ Bolts attaching the spindle weldments to the rocker shaft 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 to 120 Ft. Lbs.
6. \_\_\_ The correct size of tires, Dual 11L x 15, 8-Ply inflated to 36 P.S.I., should be on the implement.
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. \_\_\_ Road lock valve is correctly installed and operates satisfactorily.
10. \_\_\_ All decals are in place. Replace amber and red reflectors is damaged in shipping or set-up.
11. \_\_\_ Safety chain is in place.
12. \_\_\_ Customer review sheet filled out and signed.
13. \_\_\_ Review lighting requirements. Light kits are standard.
14. \_\_\_ Check to see that Owner's Manual is in the storage canister.
15. \_\_\_ Make sure that the SMV emblem is clean and in place.

DELIVERED BY \_\_\_\_\_

DATE \_\_\_\_\_

# 5800 SERIES OFFSET DISC 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 this implement.
5. \_\_\_ Review field operation speeds, horsepower, depth and rock conditions.
6. \_\_\_ Demonstrate the proper use of road lock valve.
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 a safety chain be used with the implement.
11. \_\_\_ Check wheel lug bolts frequently until they become set.
12. \_\_\_ Explain lighting requirements for your area.

DEALER \_\_\_\_\_ DATE \_\_\_\_\_

CUSTOMER \_\_\_\_\_ DATE \_\_\_\_\_

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# Specifications - 5800 OFFSET DISC HARROW

Rev.5/05

| Model | Total Number of Disc | Disc Blade Size | Disc Spacing |      | Tie Rod Size | ASAE Cut Width | Rooding Width |
|-------|----------------------|-----------------|--------------|------|--------------|----------------|---------------|
|       |                      |                 | FRONT        | REAR |              |                |               |
| 5812W | 31                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 12' 3"         | 13' 6"        |
| 5814W | 35                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 13' 10"        | 15' 1"        |
| 5815W | 39                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 15' 5"         | 16' 7"        |
| 5817W | 43                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 17' 0"         | 18' 2"        |
| 5819W | 47                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 18' 7"         | 19' 9"        |
| 5820W | 51                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 20' 2"         | 21' 3"        |
| 5821W | 53                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 21' 0"         | 11' 10"       |
| 5824W | 59                   | 24", 26", 28"   | 10"          | 10"  | 1-3/4" Round | 24' 4"         | 14' 2"        |

## ROCK FLEX MODELS

|        |    |               |     |     |              |         |         |
|--------|----|---------------|-----|-----|--------------|---------|---------|
| 5812WR | 31 | 24", 26", 28" | 10" | 10" | 1-3/4" Round | 12' 3"  | 13' 6"  |
| 5814WR | 35 | 24", 26", 28" | 10" | 10" | 1-3/4" Round | 13' 10" | 15' 1"  |
| 5815WR | 39 | 24", 26", 28" | 10" | 10" | 1-3/4" Round | 15' 5"  | 16' 7"  |
| 5817WR | 43 | 24", 26", 28" | 10" | 10" | 1-3/4" Round | 17' 0"  | 18' 2"  |
| 5819WR | 47 | 24", 26", 28" | 10" | 10" | 1-3/4" Round | 18' 7"  | 19' 9"  |
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| 5821WR | 53 | 24", 26", 28" | 10" | 10" | 1-3/4" Round | 21' 0"  | 11' 10" |
| 5824WR | 59 | 24", 26", 28" | 10" | 10" | 1-3/4" Round | 24' 4"  | 14' 2"  |

DUAL TIRES: 11L x 15, 8-PLY

WHEEL TREAD: 93-1/2" Outside, 55-1/2" Inside Center Line to Center Line

CYLINDERS: (2) 4" x 10" Cylinders

DEPTH CONTROL: Remote Singe Point Hydraulic Depth Stop

# GENERAL INFORMATION

**WARNING:** ESCAPING FLUID UNDER PRESSURE CAN PENETRATE THE SKIN CAUSING SERIOUS INJURY. AVOID THE HAZARD BY RELIEVING HYDRAULIC 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.

ALWAYS PLOW WITH SOME WEIGHT OF THE HARROW ON THE WHEELS.

**READ ALL SAFETY DECALS ON THE UNIT AND READ ALL SAFETY INSTRUCTIONS ON THE BACK COVER AND THROUGHOUT THIS BOOK.**



Close the hydraulic road lock valve before transporting.

Increase plowing depth by sliding striker away from valve.  
Decrease plowing depth by sliding striker toward valve.

Check and tighten all disc gang tie rod nuts during the first day of operation, and check frequently.

Check wheel bolts several times during first transport  
Torque bolts to 120 Ft. Lbs.

Double faced amber light.

Check and replace reflectors if they have been damaged.

Single faced red light.

Rear Gang Side to Side Adjustment  
Loosen Gang U-bolts and use Ratchet Jack to Slide Gang.

Attach SMV emblem & keep it clean.  
Check your state and local laws for transport widths and lighting.

Always pin the tractor drawbar for transport. Use a safety chain with tensile strength equal to the gross weight of the unit. Use swinging drawbar for tilling.

Be sure the tongue jack is pinned in the storage position before the harrow is moved to prevent damage.

Tongue position adjustment

Check all bolts for tightness before and after first day of operation.

Front to Rear Leveling Adjustment  
Screw in to Lower Front Gang  
Screw out to Raise Front Gang

ZERK AT EACH BEARING ARM

Front Gang Angle Adjustment.  
Gang U-bolts must be loosened before making the adjustment.

Use rod end cylinder locks during set up and maintenance  
Note: Rocker damage could occur if one cylinder lock is engaged and the other is not.

Grease all zerks at least once per week. Make sure disc is greased after field work is completed.

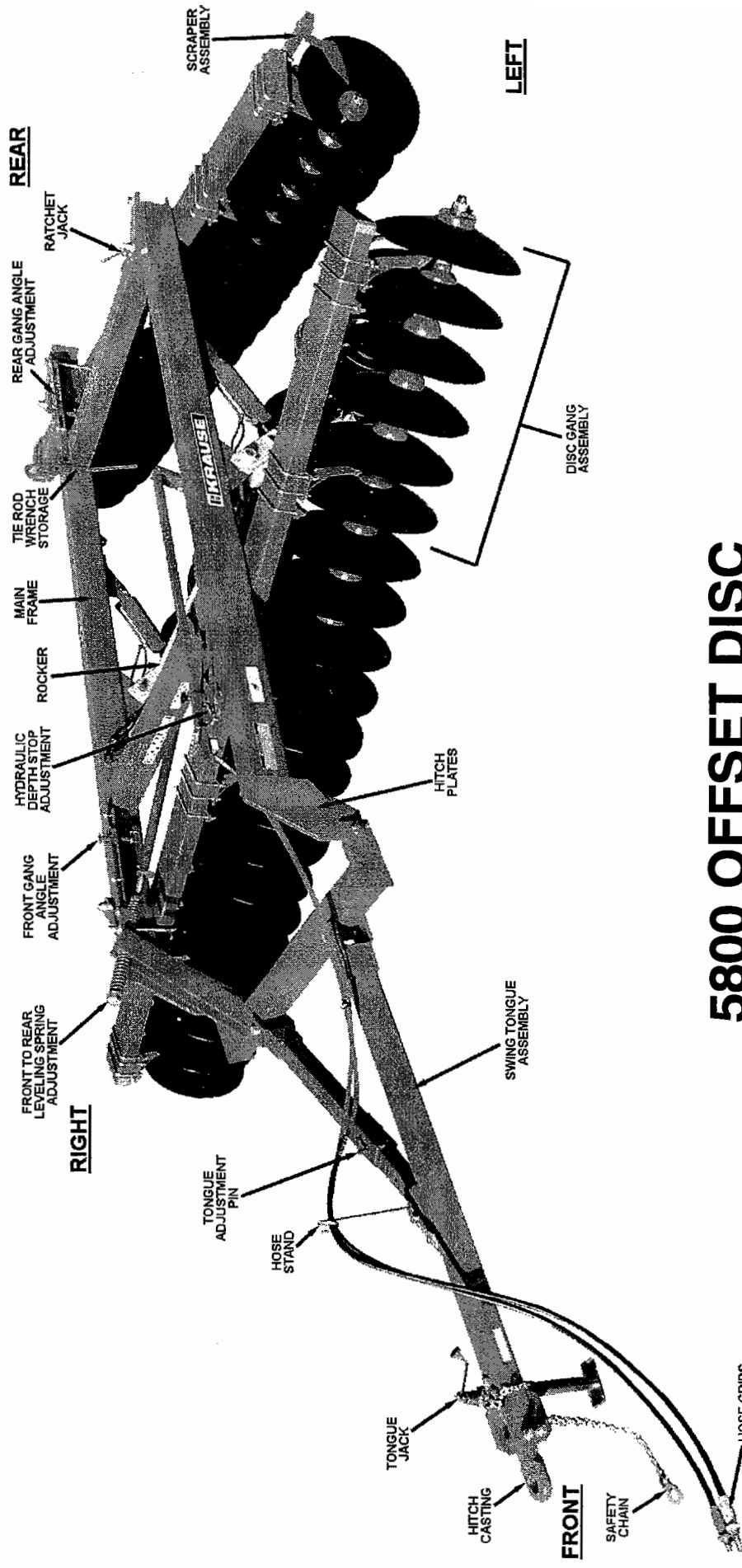
Inflate all Krause 11L x 8 ply tires to 36 psi.

Rear Gang Angle Adjustment.  
Gang U-bolts must be loosened before making the adjustment.

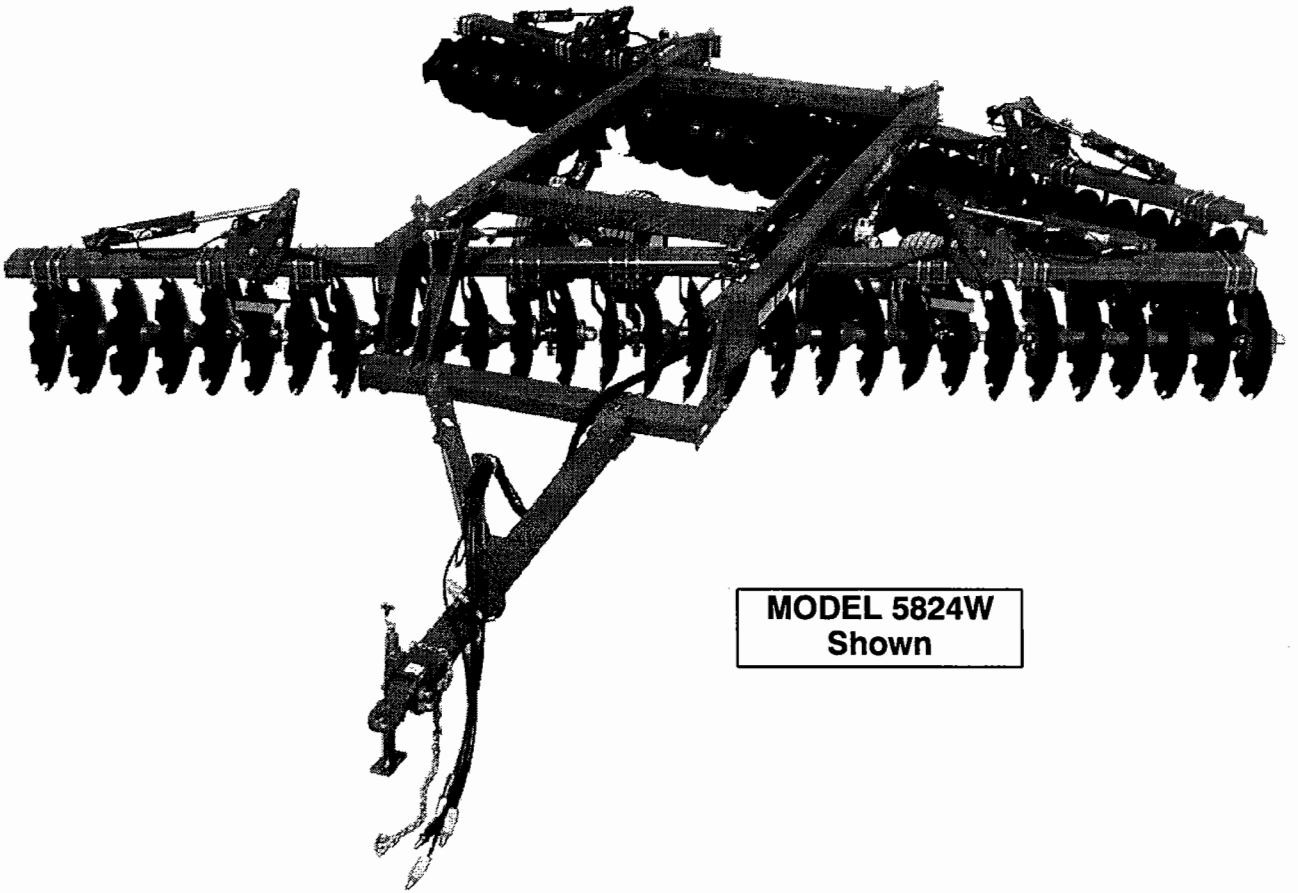
Double faced amber light.

ROAD AT REASONABLE SPEED NOT TO EXCEED 15 MPH.

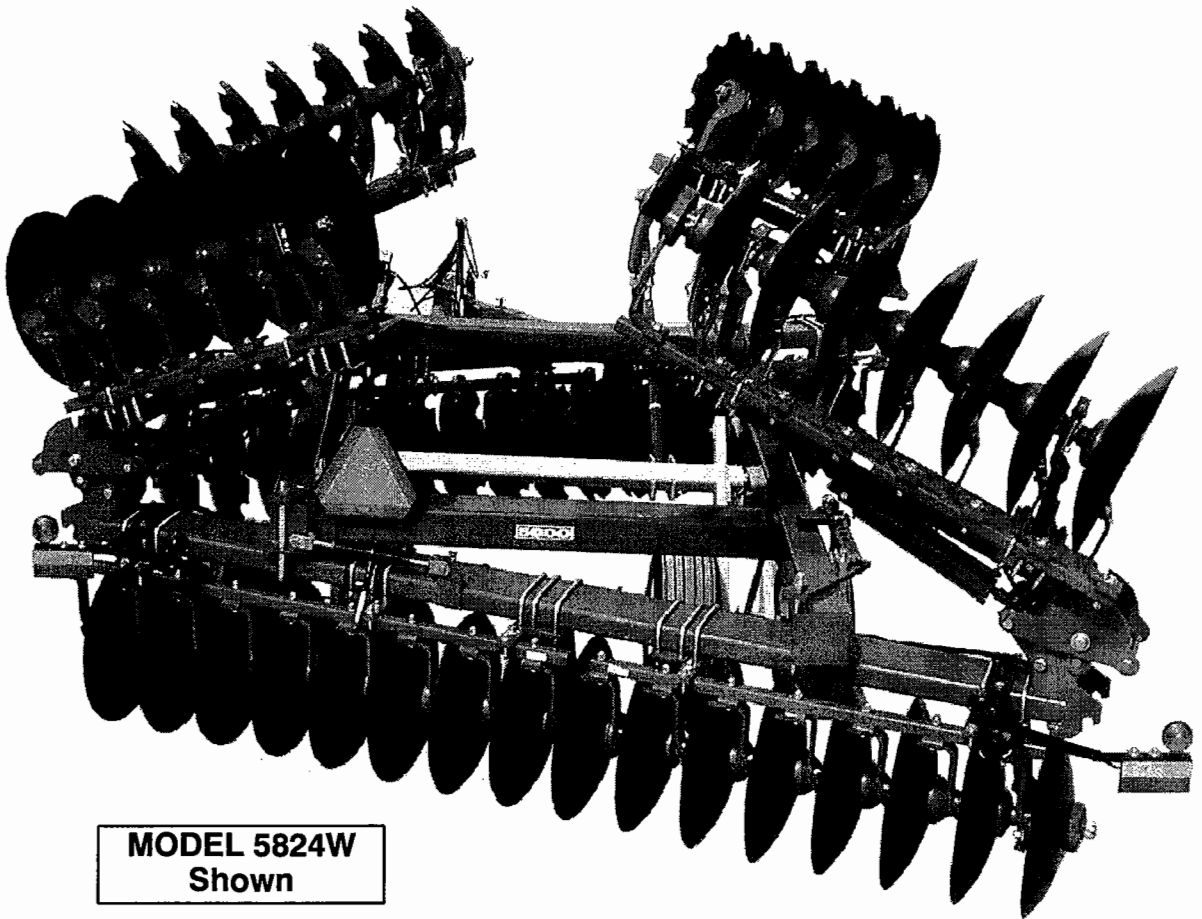
REV. 4/03  
MS800-28



# 5800 OFFSET DISC



**MODEL 5824W  
Shown**



**MODEL 5824W  
Shown**

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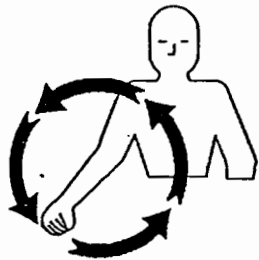
# **OPERATING SECTION**

# SAFETY ALERT SYMBOL

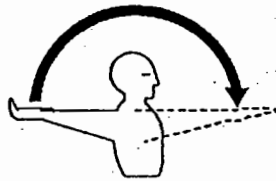


BE ALERT TO THE POSSIBILITY OF PERSONAL INJURY.  
THIS SYMBOL IDENTIFIES IMPORTANT SAFETY MESSAGES.  
CAREFULLY READ THE MESSAGE THAT FOLLOWS.

## TEN MOST COMMON HAND SIGNALS USED IN THE FIELD



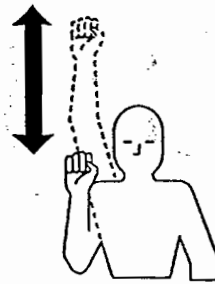
START  
THE  
ENGINE



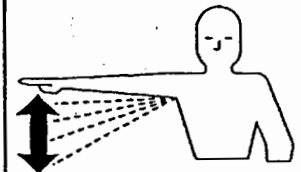
MOVE OUT  
OR  
TAKE OFF



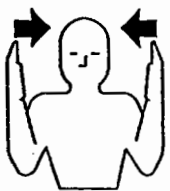
MOVE  
TOWARD  
ME



SPEED  
IT UP



SLOW IT  
DOWN



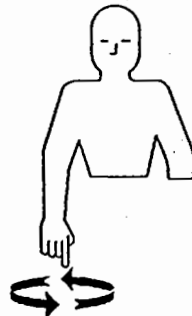
THIS FAR  
TO GO



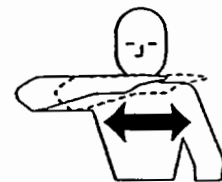
STOP



RAISE  
THE  
EQUIPMENT



LOWER  
THE  
EQUIPMENT



STOP  
THE  
ENGINE

# SAFETY FIRST



WATCH FOR THIS SYMBOL AND CAREFULLY READ THE MESSAGES THAT FOLLOW.

1. **UNDERSTAND SIGNAL WORDS.** A signal word - - **DANGER**, **WARNING**, or **CAUTION** is used with the safety alert symbol. **DANGER** identifies the most serious hazards.

DANGER or WARNING safety signs are located near specific hazards. General precautions are listed on CAUTION safety signs. CAUTION also calls attention to safety messages in this manual.

2. Read and understand this owner's manual before operating the machine.
3. Be sure that the safety decals and reflectors are clean and in place.
4. Do not climb or walk on implement frame, or tires.
5. Never position yourself under any portion of the implement unless both cylinder locks are placed over the cylinder rods, or the entire implement is lowered to the ground.
6. Stop tractor engine and set parking brake before leaving operator's position to adjust, lubricate, clean or unclog the machine.
7. Do not stand between the implement and the tractor unless the tractor brakes are locked and the engine is shut off.
8. Do not stand on or straddle a tongue when unhitching.
9. Never operate unit until hydraulic cylinders and lines are full of oil and free of air. See operating instructions.
10. Use a Slow-Moving-Vehicle (SMV) emblem and proper lighting when transporting the chisel.
11. Always use a safety chain of tensile strength equal to the gross weight of the implement plus any attachment when transporting.
12. Check wheel bolt before and during transport.
13. Always use road locks to hold implement in the raised position.
14. 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 or corners.
15. Check condition of hitch pins and bolts, tires and hubs, and safety chain before transporting.
16. Do not add excessive additional weight to the disc. Additional weight could cause frame or axle to fail resulting in loss of control of implement / tractor during transport.
17. Serious injury can be inflicted by disc blades and disc gangs if not handled safely. Watch for unsafe conditions. Keep your co-workers safety in mind.

# SAFETY DECALS

## CAUTION

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

1. To service machine: Park on level surface and lower wings. Set parking brake and/or place in park, shut off engine and remove key. Never work under raised equipment without adequate supports. If supports are not available, completely lower unit to the ground. Block wheels if detached from tractor.
2. Do not allow riders on implement or tractor.
3. Make certain that everyone is clear before 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 could overturn.
5. Before transporting, engage all transport locks and safety chain. The towing vehicle must weigh more than the implement.
6. Before transporting, check tractor and implement lights, clean reflectors and make certain SMV emblem is clearly visible.
7. Maximum transport speed is 15 MPH on best road surface.
8. Store with wings down, and implement on ground or blocks.
9. Regularly inspect bolts and pins in hitch, wheel hubs, cylinders and transport locks.

**FAILURE TO OBSERVE SAFETY INSTRUCTIONS AND SAFETY PRACTICES CAN CAUSE PROPERTY DAMAGE, SERIOUS BODILY INJURY, &/OR DEATH.**

74-117

## WARNING

Escaping fluid under pressure can penetrate the skin causing serious injury or death. Relieve pressure before disconnecting hydraulic lines, tighten all connections before applying pressure, and inspect all lines before each use. See "Safety" section in operation manual for additional information.

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.



205-8735

74-276

## NOTICE

### MAINTENANCE LOCK

See Operation Manual for instructions.

205-8737

74-387

## TRANSPORT LOCK

CLOSED POSITION



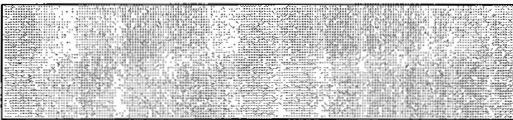
74-385



74-575 Red Reflective Tape

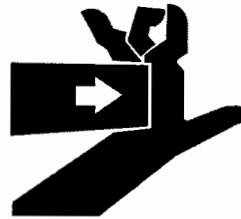


74-576 Orange Fluorescent Tape



74-577 Yellow Reflective Tape

## WARNING



### PINCH POINT

STAY CLEAR OF THIS AREA!

SERIOUS PERSONAL INJURY MAY OCCUR.

206-6377

74-348

## WARNING



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

1. Install all maintenance locks when working on or under implement. See operation manual.
2. Keep everyone clear when raising or lowering implement. Check for adequate overhead and side to side clearance before raising or lowering wings. Make certain all hydraulic systems are full of oil and free of air before raising or lowering wings or implement. Check operation manual for detailed instructions.

205-8731

74-102

See pages P25 and P26 for proper location of decals on implement.

# OPERATING INSTRUCTIONS

Elimination of the hazards listed in this manual should not be construed as providing guarantees that the equipment will meet or exceed all standards or regulations, or will be completely safe to all personnel. The operator should inspect and review the implement after it is in his possession for adequacy in safety for the function for which it will be used.

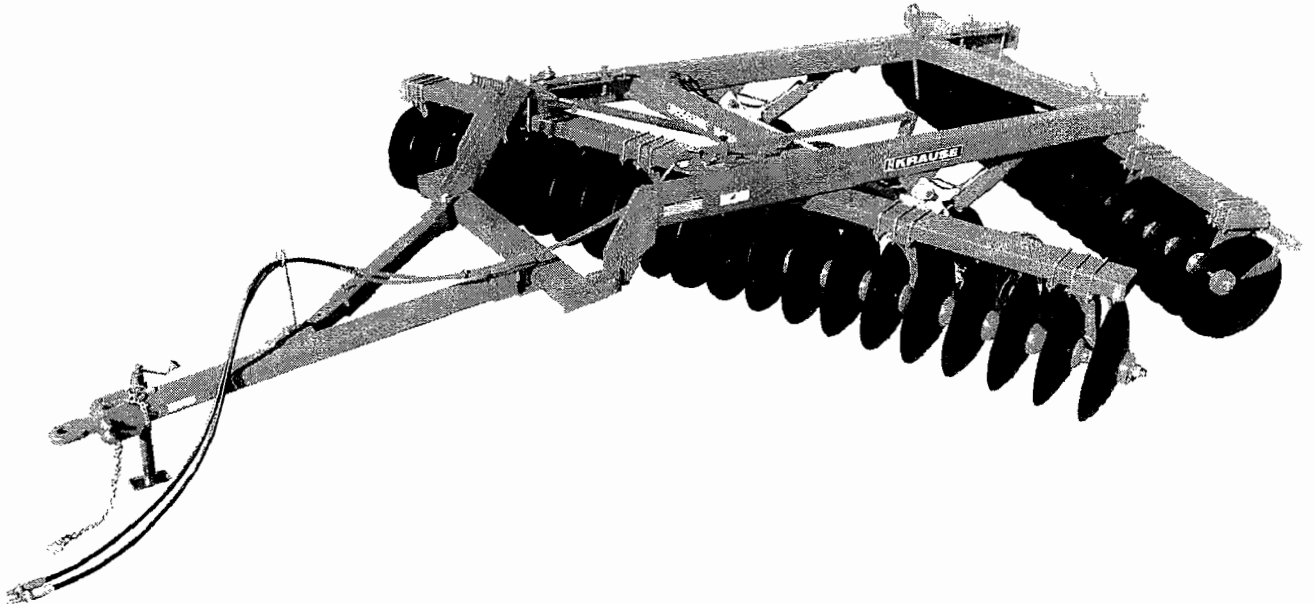


**Read all safety decals on the implement, and review the safety first suggestions on the back cover of this manual to refresh your memory. Watch for the safety symbol and read the information that follows. This is for your own protection.**

## ABOUT YOUR OFFSET DISC

This Offset Disc has been designed for deep primary to medium finish work and can be pulled over a wide range of field speeds ranging from 3.5 to 6 M.P.H., with a maximum working depth of 7" under normal conditions. Do not exceed 5 M.P.H. in rocky conditions.

Horsepower requirements will vary due to different soil types, depth of operation and speed. As a general guide, the horsepower required will be between 8 to 12 HP per foot of cut width.



## PREPARING THE OFFSET DISC FOR OPERATION

**⚠ Caution:** Lower the implement to the ground before making the following inspections. If the implement is not lowered, any hydraulic failure could cause the implement to drop suddenly, causing personal injury.

1. Inspect for any loose bolts.
2. Check disc gangs for tight tie rod nuts and clinched cotter pins.
3. Look at the top of each bearing arm and check to see if it is flush with the bottom of the frames. See page O12 'DISC GANGS'.
4. Check tire pressure. Inflate 11L x 15, 8-Ply tires to 36 P.S.I.

**⚠ Caution:** Frequently check to see that the wheel lug bolts are torqued to 120 Ft. Lbs. The bolts may work loose, resulting in the loss of a wheel and subsequent loss of control of the tool and/or tractor. Check again after the first 1/2 mile of initial transport.

5. Make sure that all grease zerk locations have been sufficiently greased. Grease zerks will be found on rocker shaft bearings, regreaseable disc gang bearings, adjustment screws and wheel hubs. **USE EXTREME CAUTION WHEN WORKING AROUND DISC BLADES!**
6. Check and adjust tightness of wheel bearings before operation, after the first week, and periodically thereafter. (See 'Service Section' of this manual)

## **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 that they are in working order.

## **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 not previously filled, your hydraulic system will require 5 quarts of your tractor 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. Hose can be accidentally cut when heat goes beyond the immediate flame area.

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

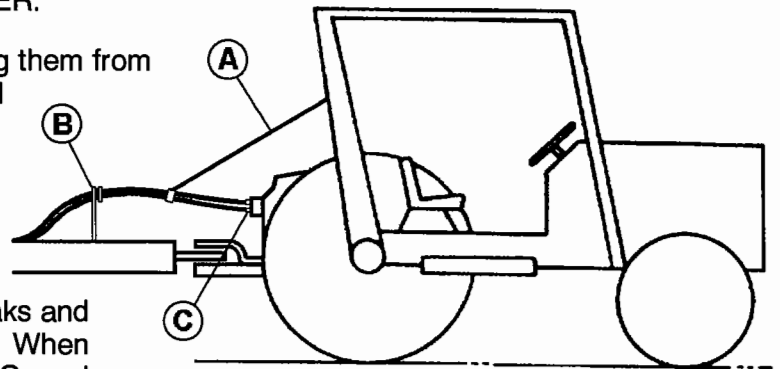
1. **INSPECT** the hose assembly before each use.
2. **REPLACE** the hose assembly immediately if:
 

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

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

**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 your 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.

**⚠ Caution:** Air in hydraulic system will allow implement to drop suddenly.

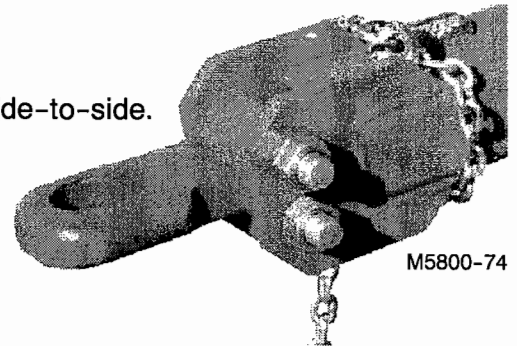
**⚠ Warning:** Do not operate the hydraulics until you have read "Hydraulics" in the service section of this manual.

## **HITCHING AND UNHITCHING**

**⚠ Danger:** Do not allow any person to stand between the tractor and the 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 signal that the tractor is in park or neutral and the hand brake is set and engine is shut off.

### **Hitching to the tractor**

1. The disc should be supported by the tongue jack.
2. Unpin the tractor drawbar so it can be moved from side-to-side.
3. Back the tractor to the implement.
4. Attach clevis to tractor drawbar with a clevis pin that fits the tractor drawbar. Make sure the pin is locked or bolted in place to prevent loss.



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### **Unhitching from the tractor**

1. To unhitch the tractor from the disc, place the tractor in park or neutral and set the hand brake. Always block the implement tires to prevent damage to the jack.
2. Make sure the hydraulic road lock is in the closed position.
3. Turn off tractor power and relieve any hydraulic pressure that might be in the system by moving the tractor control lever(s) back and forth. Lower tongue jack; raise the tongue height until the clevis pin can be removed.
4. Disconnect the hydraulic hoses, and the tractor may be moved away.

**⚠ Caution:** Do not stand on or straddle a tongue when unhitching. If attachments have been added to the rear of the implement, it may affect the balance of the implement, causing the tongue to come up suddenly when unhitching.

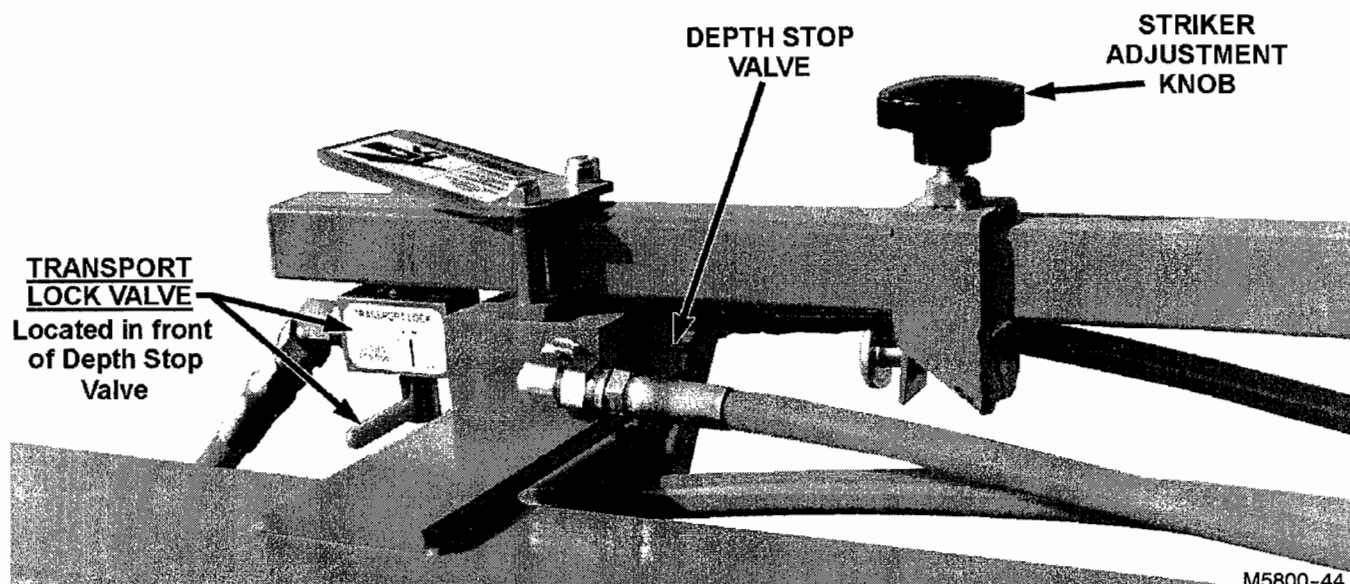
## TRANSPORTING

Check specification pages and be aware of the transport height and width of your model of disc.

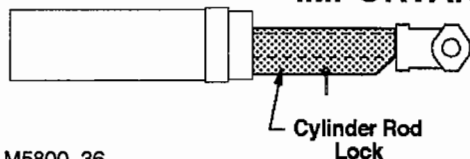
**Warning:** Always close the transport lock valve when transporting the implement to prevent unit from falling due to hydraulic failure, or accidental activation of the operator's controls. Lowering of the tool during transporting could result in loss of control of implement and / or tractor. The tractor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

### Transport Lock Valve

1. With the disc in the fully raised position, close the TRANSPORT LOCK VALVE.



**IMPORTANT:** DO NOT use Cylinder Rod Locks for Road Locks. Rocker damage can occur if one cylinder rod lock is on and the other lock is off. (Rod end cylinder locks are for set-up and maintenance.)

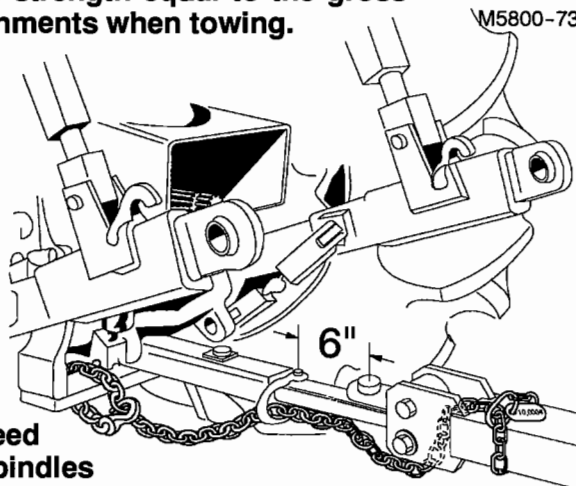


### Transport Safety

**Warning:** Always use a safety chain with tensile strength equal to the gross weight of the implement plus any attachments when towing.

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  $\pm 10^\circ$ . 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 highway.

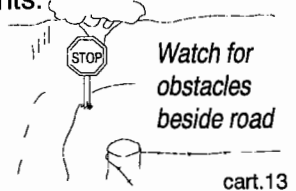
**Danger:** Do not exceed 15 m.p.h. in transport on best surface. Exceeding this speed can result in failure in wheel hubs or spindles and loss of control of implement and/or tractor. Do not tow this implement if its weight exceeds 1-1/2 times the weight of the towing unit. Pin tractor drawbar to prevent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



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

It is best to use a tractor to transport the disc to another location. If using another type of vehicle for towing, it should never be allowed to exceed 15 M.P.H., since the implement tires are not constructed to be operated at higher speeds. The weight of the towing vehicle should always equal or exceed the gross weight of the disc and attachments.

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. If the implement obscures the tractor warning lamp, a lamp must be added to the left of the implement. Transport during daylight hours only. Watch your clearance. Be aware of obstacles along the side of the roadway that might be caught by the disc harrow 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.



Always check the tire pressure before transporting and look for damaged tires. Wobble the tires from side to side. If excessive play is noted, adjust the hub spindle nut before roading to prevent damage to the hub or bearings.

**⚠ Caution:** It is very important to check wheel lug bolts after the first 1/2 mile of initial transport (delivery). If loose, tighten to 120 Ft. Lbs. of torque. Continue to check frequently until they remain firmly seated.

### Hitch Pin

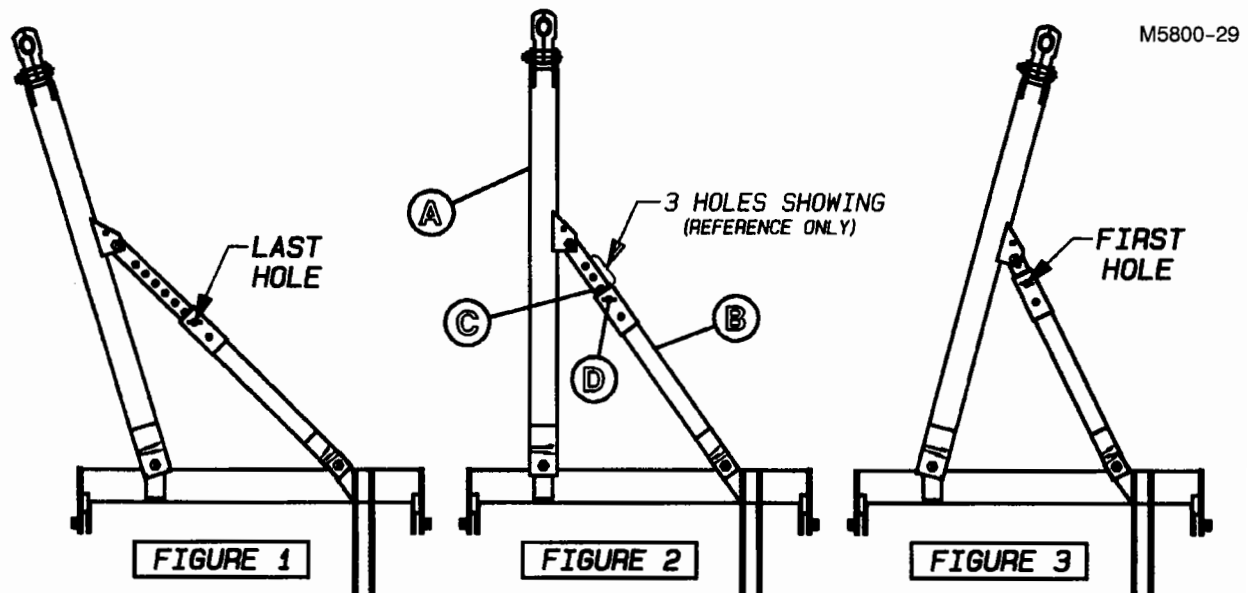
Use the proper size hitch pin with a means for holding it in place so it cannot work itself out during transport. The hitch pin should be inspected for wear or cracks before using it to transport your implement.

## FIELD ADJUSTMENTS

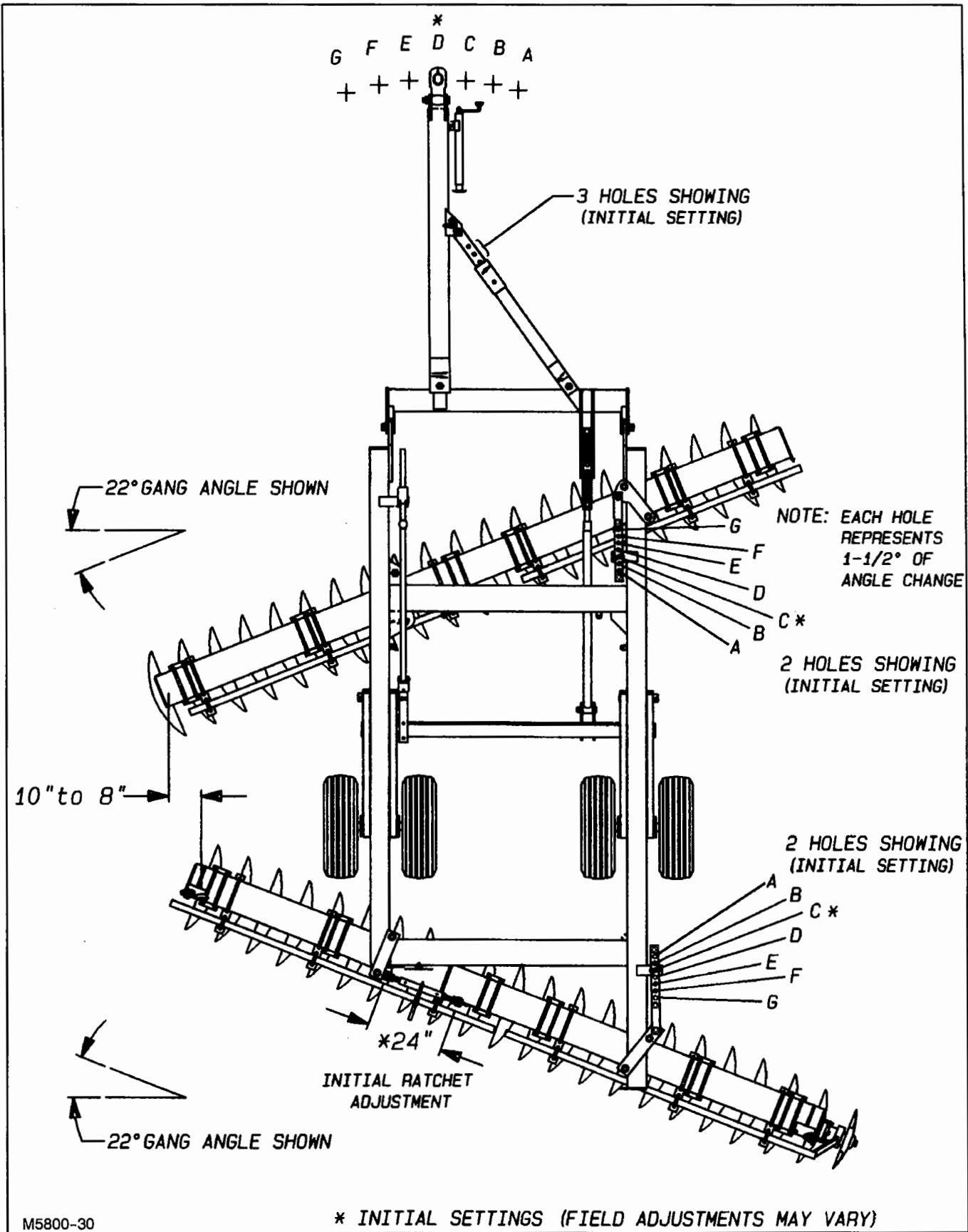
### Tongue Position Adjust

The tongue should initially be set as shown in Figure 2 below. After field use: Move tongue to the left if disc trails to the right; or move tongue to the right if the disc trails to the left.

To adjust tongue, remove pin at 'D'; pull forward and to the left. Replace pin one hole forward of desired hole setting 'C'; pull forward and to the right and replace pin at 'D'.



Follow the illustration below for initial disc gang and tongue settings. These settings may change later due to varying field conditions and operating depths.



M5800-30

\* INITIAL SETTINGS (FIELD ADJUSTMENTS MAY VARY)

## DISC GANG ANGLE ADJUSTMENT

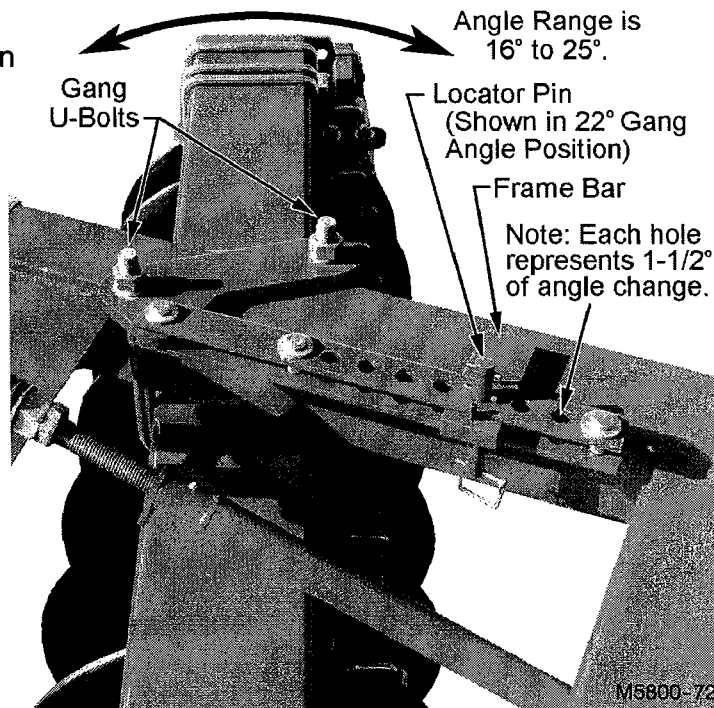
The disc must be in the raise position when angle adjustments are made.

### ANGLE CHANGE PROCEDURE:

1. Move locator Pin to one hole past desired pin location.
2. Loosen both left and right gang U-Bolts.
3. Rotate gang until locator pin contacts frame bar.
4. Insert locator pin and retighten gang U-Bolts.

**NOTE:** ***INCREASE*** gang angle for deep primary work.  
***DECREASE*** gang angle for medium to finish work.

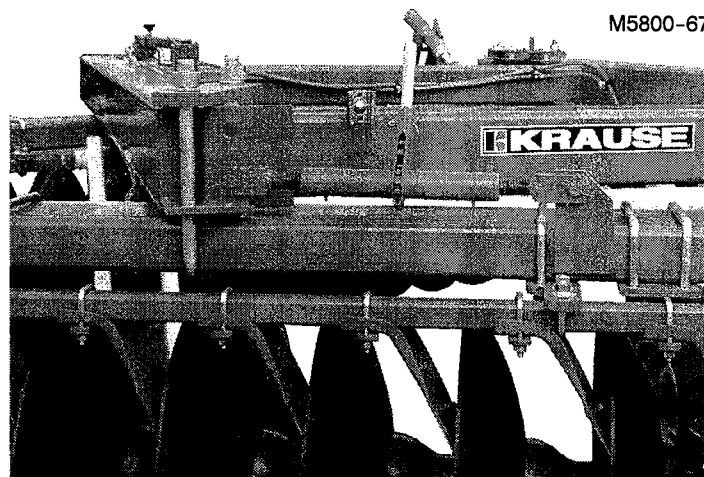
In most cases, run the rear gang equal to or greater than the front gang angle.



## REAR GANG SIDE TO SIDE ADJUSTMENT

The ratchet jack on the rear gang should initially be set at 24". The gang can be moved left or right as needed to eliminate furrows or ridges.

Loosen both rear gang U-Bolts, adjust ratchet jack to desired position and retighten U-Bolts. Normally, the rear gang is offset 8" to 10" to the right of the front gang as shown in the placement drawings at the back of this book.



## DISC GANG LEVELING

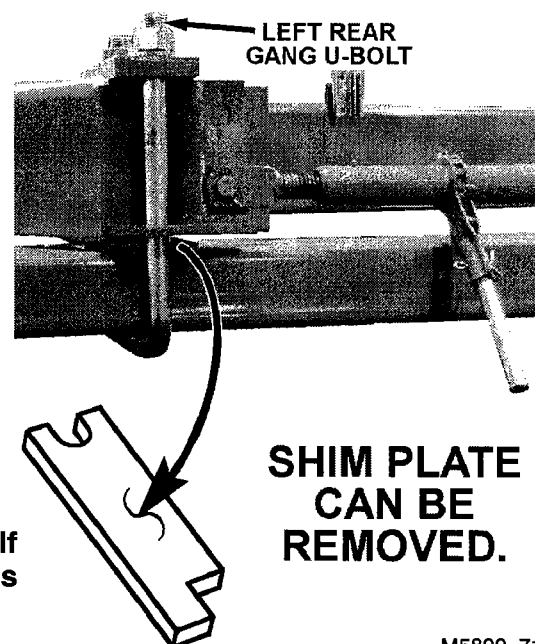
By design, the left end of the front gang is lower than the right. This has been done to compensate for the high thrust loads that normally cause the right end to go deeper.

A shim at the left end of the rear gang is used to match the slope of the front gang. This shim can be removed or relocated as needed for leveling.

**NOTE:** The shim plate has been designed so that the shim will come out when the U-Bolt is loosened.

**(DO NOT REMOVE U-BOLT NUTS)**

**⚠ Caution:** Be alert and avoid putting yourself in an unsafe position during this adjustment.



## LEVELING THE WINGS

### To RAISE Wing

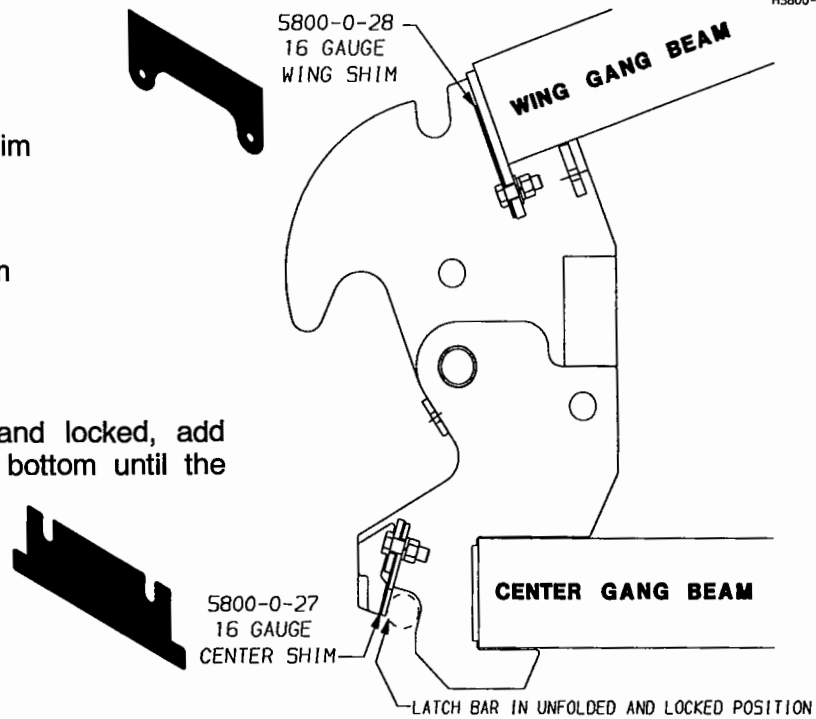
1. Add a wing shim
2. Remove a center shim

### To LOWER Wing

1. Remove a wing shim
2. Add a center shim

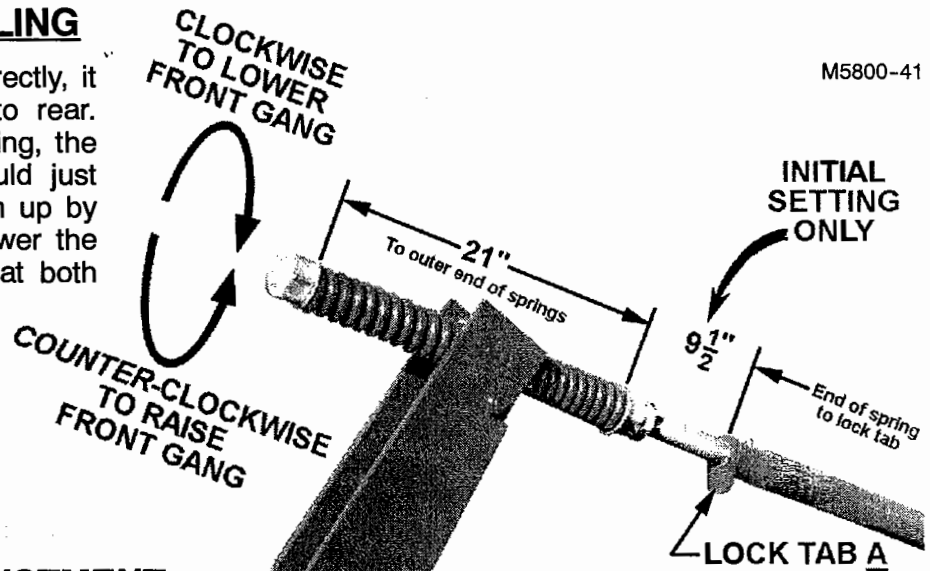
### To Remove Wing Flex

With Gangs unfolded and locked, add center shims from the bottom until the latch bar is tight.



## FRONT TO REAR LEVELING

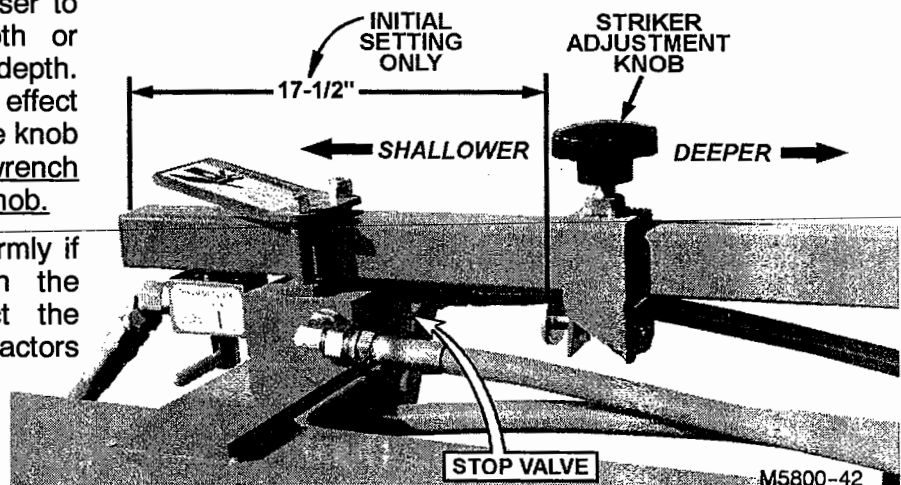
For the disc to operate correctly, it must be level from front to rear. When set properly for leveling, the three feathering discs should just reach over the ridge thrown up by the front disc. Raise or lower the front gang as shown so that both front and rear gangs are at the same depth. After the setting has been determined, lock tab 'A' hand tight against the tube.



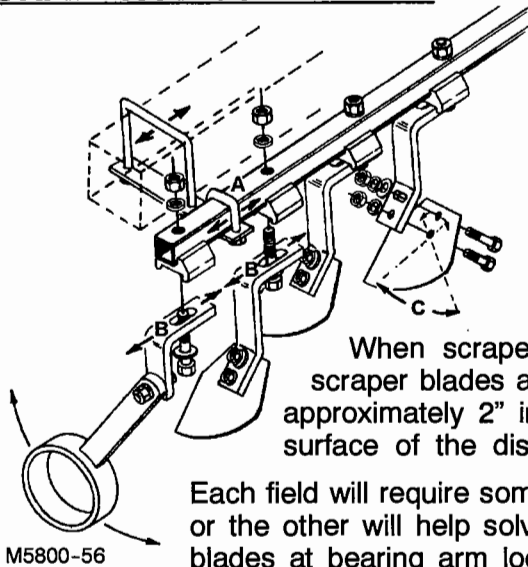
## WORKING DEPTH ADJUSTMENT

The STOP VALVE controls the implement depth. When a depth change is required, loosen the knob and slide the striker closer to the valve to decrease depth or further away to increase depth. Moving the striker 3/8" will effect actual depth by 1". Tighten the knob securely, but **do not use a wrench or excessive force on the knob.**

The disc will work more uniformly if some weight is carried on the wheels. Speed will affect the working depth. Other factors affecting working depth are moisture, amount of surface trash, polish of blades, and blade sharpness.



## SCRAPER ADJUSTMENTS



- Scrapers can be adjusted closer or further away from the blade by moving the entire assembly from side to side at the bracket location.
- Also, each scraper blade can be adjusted individually along the slots in its mounting bracket.
- When scrapers are required, adjust blades so that the scraping edge of each scraper blade is flush against the disc blade, but not tight enough to prevent the gang from revolving freely.

When scrapers are not required, adjust the scraper frame to move scraper blades away from the disc blades. Scrapers should be positioned approximately 2" in from the cutting edge and approximately 1/8" from the surface of the disc blades in most conditions.

Each field will require some individual scraper adjustment, moving scrapers one way or the other will help solve your individual scraper problems. Removal of scraper blades at bearing arm locations may be necessary in some conditions. Frequent examination will prevent damage to scraper assemblies and spacer spools.

**⚠ Caution:** Disc blades are very sharp. When making scraper adjustments, position your wrench to pull away from the disc blades.

## SERVICING

All nuts should be checked and tightened after the first 1/2 day of operation, and periodically thereafter. Check disc gang tie rods frequently and keep tight at all times. Torque tie rod nuts to 1,200 Ft. Lbs. for 1-3/4" Round Tie Rods. Torque all wheel bolts to 120 Ft. Lbs.

The Krause Offset Disc is a ruggedly designed implement which will perform efficiently if properly adjusted and maintained. Keep blades sharp.

## STORAGE SUGGESTIONS

Make sure transport road locks are in place. Coat the blades and hydraulic cylinder shafts with rust preventative during extended periods of storage. Cylinder rods may be unpinned and the cylinders retracted to protect the polished surface of the cylinder rods.

For added safety lower the unit to the ground during long periods of storage. Inspect the unit for worn or damaged parts and replace as needed to avoid delays the next season.

### Lubrication



Regreaseable gang bearings should be greased after each 48 hours of use in normal conditions; every 24 hours of use in extreme conditions, and before long periods of storage. Grease the disc gang bearings until grease passes through the seals. Rotate the disc gang while grease. Rocker Shaft bearings and tongue adjustment screw should be lubricated with multi-purpose type grease after each 48 hours of use.

**⚠ For Your Safety:** When lubricating or adjusting your Offset Disc, watch for obstructions or protrusions. Lower implement to the ground. DO NOT walk on tires.



**⚠ 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.

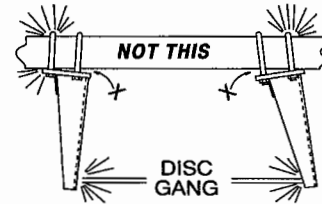
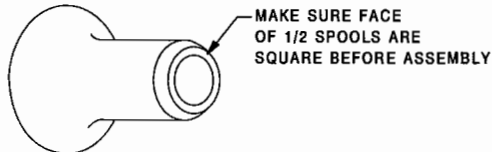
Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

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.

## Disc Gangs

Refer to Placement pages in the back of this manual when replacing disc blades, bearings, or spools. Leave bearing bolts one turn loose until bearing arms are in place on the frame. Torque tie rod nuts to 1,200 Ft. Lbs. for 1-3/4" Round Tie Rods. Tighten one bearing arm to the frame then tighten its bearing bolts. Make sure the other bearing arm top plate is parallel with the bottom of the frame before tightening its U-Bolts. Tighten other bearing bolts.

**⚠ Danger:** Due to their sharpness and weight, serious injury can be inflicted by disc blades and gangs if not handled safely. Watch for unsafe conditions. Keep co-workers safety in mind. Should personal injury occur, have medical treatment administered immediately.



BE SURE THE BEARING ARM FITS FLAT AGAINST THE GANG BEFORE TIGHTENING THE U-BOLTS.

cart.25



Cylinder rod locks have been provided for use when changing out disc blades.

Fully extend cylinders and fasten the channel shaped locks on both cylinder rods.

### **IMPORTANT:**

**Rocker damage can occur if one lock is on and the other lock is off.**

M5800-43

## Repair Parts

Refer to the Assembly Section of this manual 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 in this manual will show a break-down of assemblies, location of parts, and part numbers.

It is recommended that KRAUSE replacement parts be used. KRAUSE PARTS WERE DEVELOPED AND TESTED FOR THIS HARROWS.

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

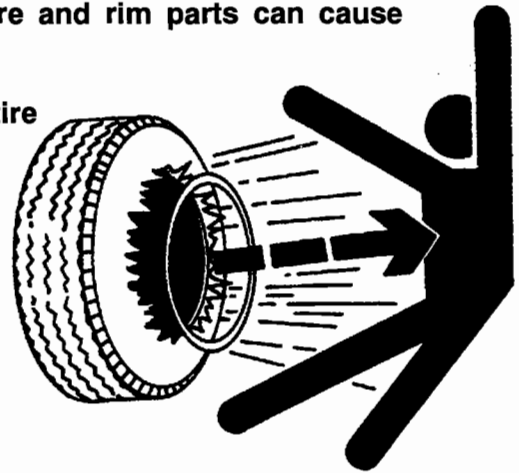
**IMPORTANT:** REPAIR OF HYDRAULIC CYLINDERS SHOULD BE MADE BY AN AUTHORIZED KRAUSE DEALER.

## **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. Hose can be accidentally cut when heat goes beyond the immediate flame area.

**⚠ 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.



## **POSSIBLE REMEDIES FOR FIELD PROBLEMS**

| <b>PROBLEM</b>             | <b>POSSIBLE CAUSE</b>            | <b>SUGGESTED REMEDY</b>  |
|----------------------------|----------------------------------|--|
| Disc trailing off to LEFT  | Hitch Position                   | Move hitch to the right  |
|                            | Front gang too deep              | Screw leveling spring rod OUT to raise front gang                              |
|                            | Gang angles                      | Increase rear gang angle   |
| Reduce front gang angle    |                                  |  |
| Disc trailing off to RIGHT | Hitch position                   | Move hitch to the left   |
|                            | Front gang too shallow           | Screw leveling spring rod IN to lower front gang                               |
|                            | Gang angles                      | Reduce rear gang angle   |
| Increase front gang angle  |                                  |  |
| Disc not leveling          | Disc trailing to one side        | See remedy above   |
|                            | Rear gang position               | Adjust rear gang laterally with ratchet adjustment                             |
|                            | Ridge on left end                | Remove left rear gang shim   |
|                            | Disc blades not tapered properly | Compare blades to placement drawing for your model; change blades if necessary |
|                            | Not enough weight on wheels      | Move striker closer to depth stop valve  |
| Disc not penetrating       | Hard ground and/or high residue  | Increase front and rear gang angle   |
|                            | Worn blades                      | Sharper or replace   |
| Disc plugging              | Scrapers not set correctly       | Readjust scrapers as shown on page O11   |

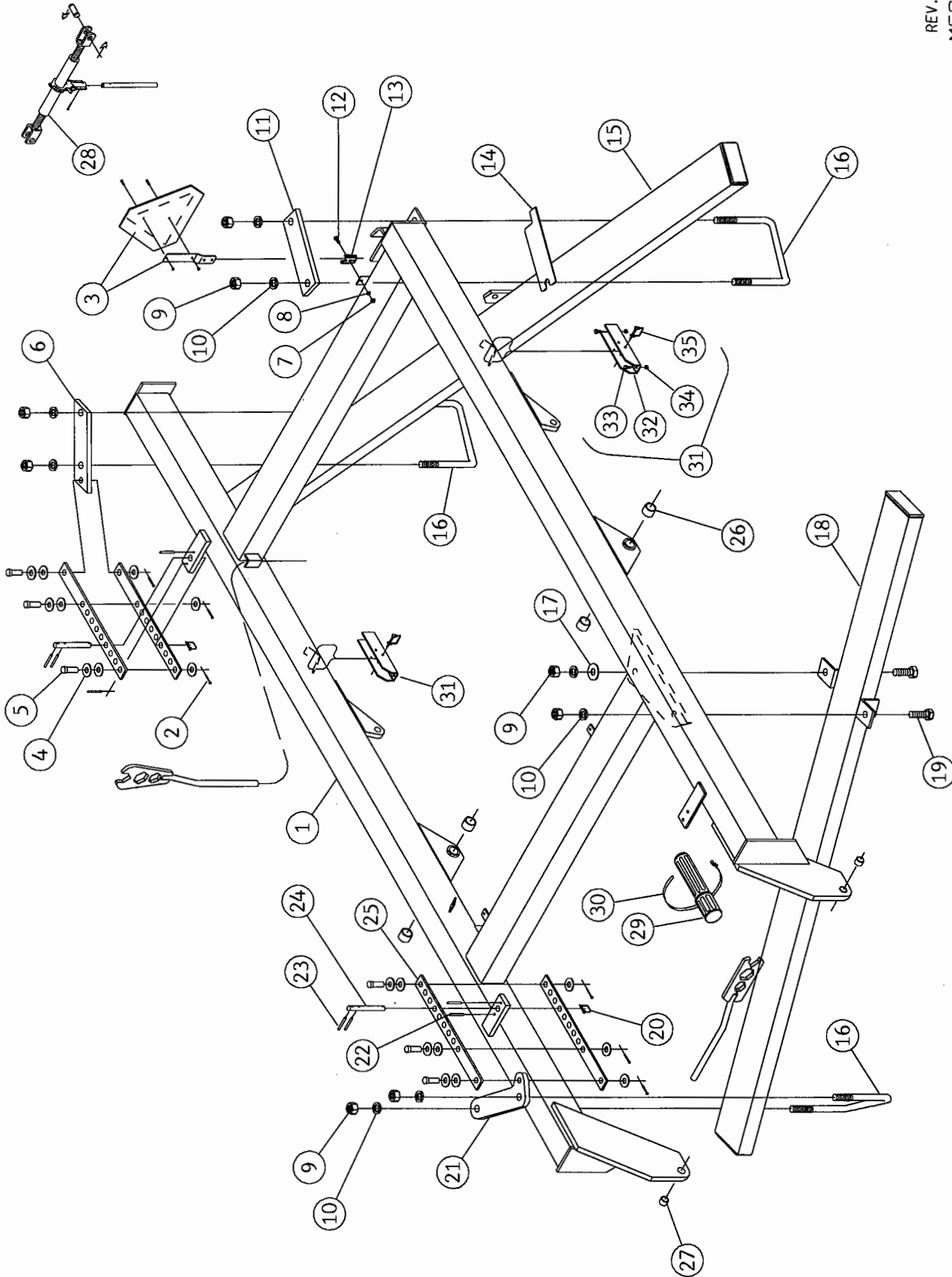
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# **PARTS SECTION**

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.







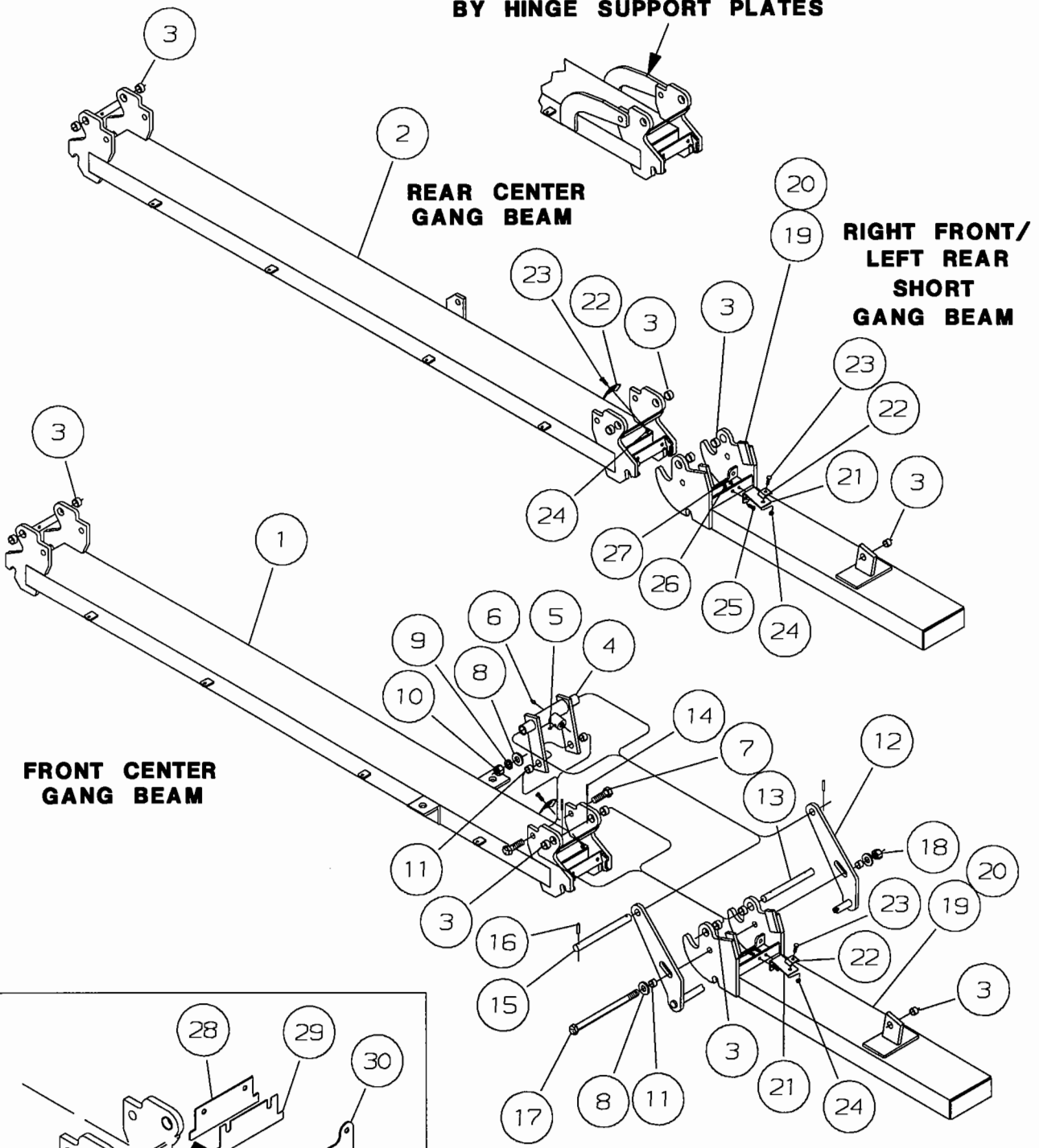
# MAIN FRAME AND GANGS

FOR MODELS - ALL

10/02

| Item | Part Number  | Part Description  | Qty. |
|------|--------------|---|------|
| 1    | 5800-1-0     | Main Frame Weldment                                       | 1    |
| 2    | 60-702       | 3/16" DIA. x 1-1/2" Cotter Pin                            | 6    |
| 3    | 5250-175-0   | SMV Assembly (Includes Mounting Spade & Hardware)         | 1    |
| 4    | 64-155       | 1" SAE Flat Washer  | 18   |
| 5    | 60-200       | 1" DIA. x 2-1/2" Clevis Pin                               | 6    |
| 6    | 5800-0-10    | Bolt Plate  | 2    |
| 7    | 63-104       | 7/16NC Hex Nut  | 1    |
| 8    | 64-105       | 7/16" STD. Lock Washer                                    | 1    |
| 9    | 63-123       | 1-1/4NC Hex Nut   | 6    |
| 10   | 64-125       | 1-1/4" STD. Lock Washer                                   | 6    |
| 11   | 5800-0-3     | Bolt Plate  | 1    |
| 12   | 62-131       | 7/16NC x 1" Cap Screw                                     | 1    |
| 13   | 74-144       | Lamp Bracket  | 1    |
| 14   | 5800-0-4     | Shim  | 1    |
| 15   | 5812-17-0    | Rear Gang Beam Weldment 148" Long - Models 5812W, 5812WR  | 1    |
|      | 5814-17-0    | Rear Gang Beam Weldment 168" Long - Models 5814W, 5814WR  | 1    |
|      | 5815-17-0    | Rear Gang Beam Weldment 188" Long - Models 5815W, 5815WR  | 1    |
|      | 5817-17-0    | Rear Gang Beam Weldment 208" Long - Models 5817W, 5817WR  | 1    |
|      | 5819-17-0    | Rear Gang Beam Weldment 228" Long - Models 5819W, 5819WR  | 1    |
|      | 5820-17-0    | Rear Gang Beam Weldment 248" Long - Models 5820W, 5820WR  | 1    |
| 16   | 61-255       | 1-1/4" DIA. U-Bolt  | 3    |
| 17   | 64-126       | 1-1/4" STD. Flat Washer                                   | 1    |
| 18   | 5812-16-0    | Front Gang Beam Weldment 148" Long - Models 5812W, 5812WR | 1    |
|      | 5814-16-0    | Front Gang Beam Weldment 168" Long - Models 5814W, 5814WR | 1    |
|      | 5815-16-0    | Front Gang Beam Weldment 188" Long - Models 5815W, 5815WR | 1    |
|      | 5817-16-0    | Front Gang Beam Weldment 208" Long - Models 5817W, 5817WR | 1    |
|      | 5819-16-0    | Front Gang Beam Weldment 228" Long - Models 5819W, 5819WR | 1    |
|      | 5820-16-0    | Front Gang Beam Weldment 248" Long - Models 5820W, 5820WR | 1    |
| 19   | 62-678       | 1-1/4NC x 3-1/2" GD. 5 Cap Screw                          | 2    |
| 20   | 60-103       | P.T.O. Lock Pin   | 2    |
| 21   | 5800-0-2     | Bolt Plate  | 1    |
| 22   | 60-615       | 3/8" DIA. x 2" Roll Pin                                   | 4    |
| 23   | 60-618       | 3/8" DIA. x 3" Roll Pin                                   | 4    |
| 24   | 1480-0-6     | 1" DIA. x 8" Pin  | 2    |
| 25   | 5800-0-6     | Adjustment Strap  | 4    |
| 26   | 53-110       | Wear Sleeve   | 4    |
| 27   | 53-101       | Wear Sleeve   | 2    |
| 28   | 70-212       | Ratchet Jack Assembly                                     | 1    |
| 29   | 99-192       | Owner's Manual Storage Canister                           | 1    |
| 30   | 25-1163      | Hose Clamp  | 1    |
| 31   | 5800-17-0    | Cylinder Lock Assembly                                    | 2    |
| 32   | 6124-17-1    | Cylinder Lock Channel                                     | 1    |
| 33   | 44-107       | Rubber Bumper   | 2    |
| 34   | 63-102       | 3/8NC Hex Nut   | 2    |
| 35   | 60-103       | P.T.O. Lock Pin   | 1    |
| 36   | See page P26 | Decal (Not Shown)   | 1    |

**IDENTIFY 24' CENTER GANGS  
BY HINGE SUPPORT PLATES**



REV. 3/05  
M5800-96

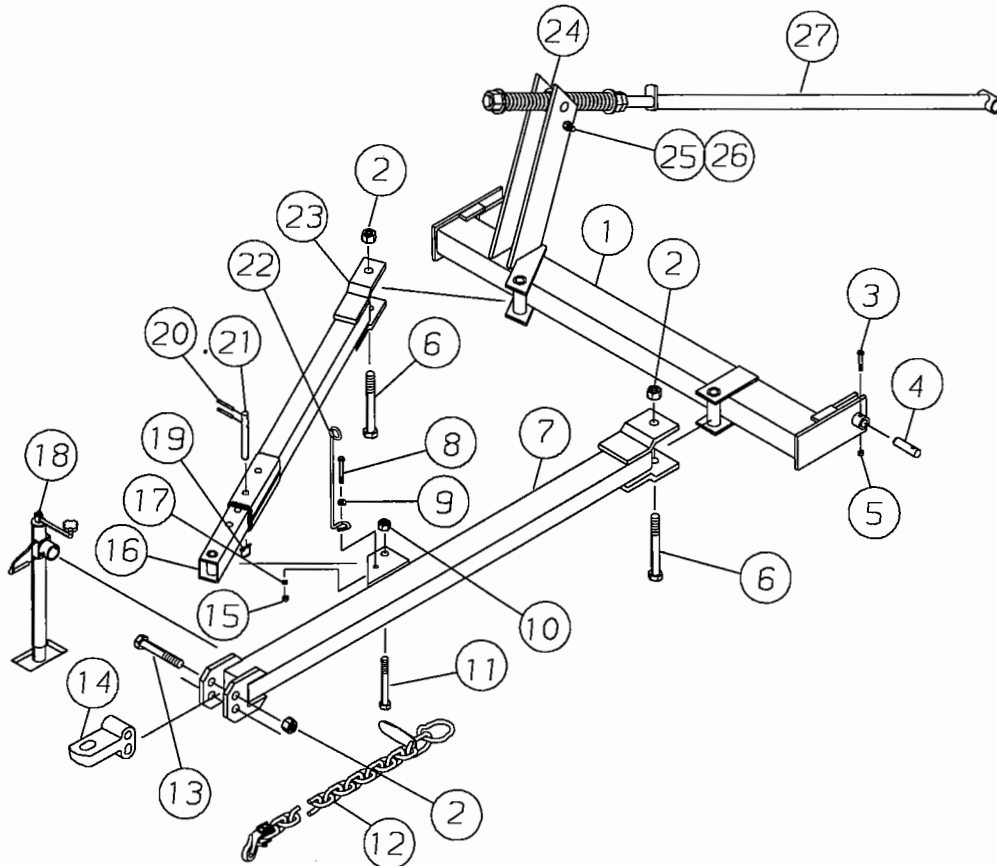
## WING FOLD AND WING GANG BEAMS

**FOR MODELS - 5821W, 5821WR, 5824W, 5824WR**

8/02

| Item  | Part Number | Part Description  | Qty.    |
|---|-------------|---|---------|
| 1   | 5821-16-0   | Front Gang Beam Weldment, 128-3/4" - Model 5821W        | 1       |
|   | 5824-16-0   | Front Gang Beam Weldment, 158-3/4" - Model 5824W        | 1       |
| 2   | 5821-17-0   | Rear Gang Beam Weldment, 128-3/4" - Model 5821W         | 1       |
|   | 5824-17-0   | Rear Gang Beam Weldment, 158-3/4" - Model 5824W         | 1       |
| 3   | 53-113      | Wear Sleeve,  | 8       |
| 4   | 5821-41-0   | Rod End Link Weldment                                   | 4       |
| 5   | 62-310      | 3/8NF x 3/8" Set Screw                                  | 4       |
| 6   | 65-101      | 1/8" STD. Zerk  | 4       |
| 7   | 62-238      | 1NC x 3" GD5 Cap Screw                                  | 8       |
| 8   | 64-119      | 1" STD. Flat Washer                                     | 16      |
| 9   | 64-118      | 1" STD. Lock Washer                                     | 8       |
| 10  | 63-117      | 1NC Hex Nut   | 8       |
| 11  | 53-103      | Wear Sleeve, 1-1/4" o.d. x 1" i.d. x 3/4"               | 16      |
| 12  | 5821-40-0   | Latch Weldment  | 4       |
| 13  | 5800-0-12   | Hinge Pin, 1-1/4" DIA. x 11-9/16"                       | 4       |
| 14  | 60-606      | 1/4" DIA. x 2" Roll Pin                                 | 8       |
| 15  | 5800-0-11   | Rod End Pin, 1-1/4" DIA. x 14-3/4"                      | 4       |
| 16  | 60-615      | 3/8" DIA. x 2" Roll Pin                                 | 8       |
| 17  | 62-807      | 1NC x 15" GD5 Bolt                                      | 4       |
| 18  | 63-119      | 1NC Lock Nut  | 4       |
| 19  | 5821-45-0   | Short Wing Gang Beam, 54-3/4" - Left Rear & Right Front | Specify |
| 20  | 5821-47-0   | Long Wing Gang Beam, 60-1/2" - Right Rear & Left Front  | Specify |
| 21  | 5800-0-14   | Hose Support  | 4       |
| 22  | 5800-0-13   | Hose Clamp  | 8       |
| 23  | 62-453      | 3/8NC x 1-1/2" Carriage Bolt                            | 8       |
| 24  | 63-134      | 3/8NC Nylon-Top Lock Nut                                | 8       |
| 25  | 62-108      | 3/8NC x 1" GD5 Cap Screw                                | 8       |
| 26  | 64-103      | 3/8" STD. Lock Washer                                   | 8       |
| 27  | 63-102      | 3/8NC Hex Nut   | 8       |
| 28  | ● 5800-0-26 | Shim Plate - 3/16"                                      | 4       |
| 29  | ● 5800-0-27 | Center Shim - 16 Ga.                                    | Specify |
| 30  | ● 5800-0-28 | Wing Shim - 16 Ga.                                      | Specify |
| 31  | 62-569      | 1/2NC x 1-1/2" GD5 Cap Screw                            | 16      |
| 32  | 64-108      | 1/2" STD. Flat Washer                                   | 8       |
| 33  | 64-107      | 1/2" STD. Lock Washer                                   | 16      |
| 34  | 63-106      | 1/2NC Hex Nut   | 16      |
| <p>● See page A10 in the Assembly Section of this manual for detailed instructions.</p> |             |   |         |

# TONGUE, JACK & HITCH PIVOT



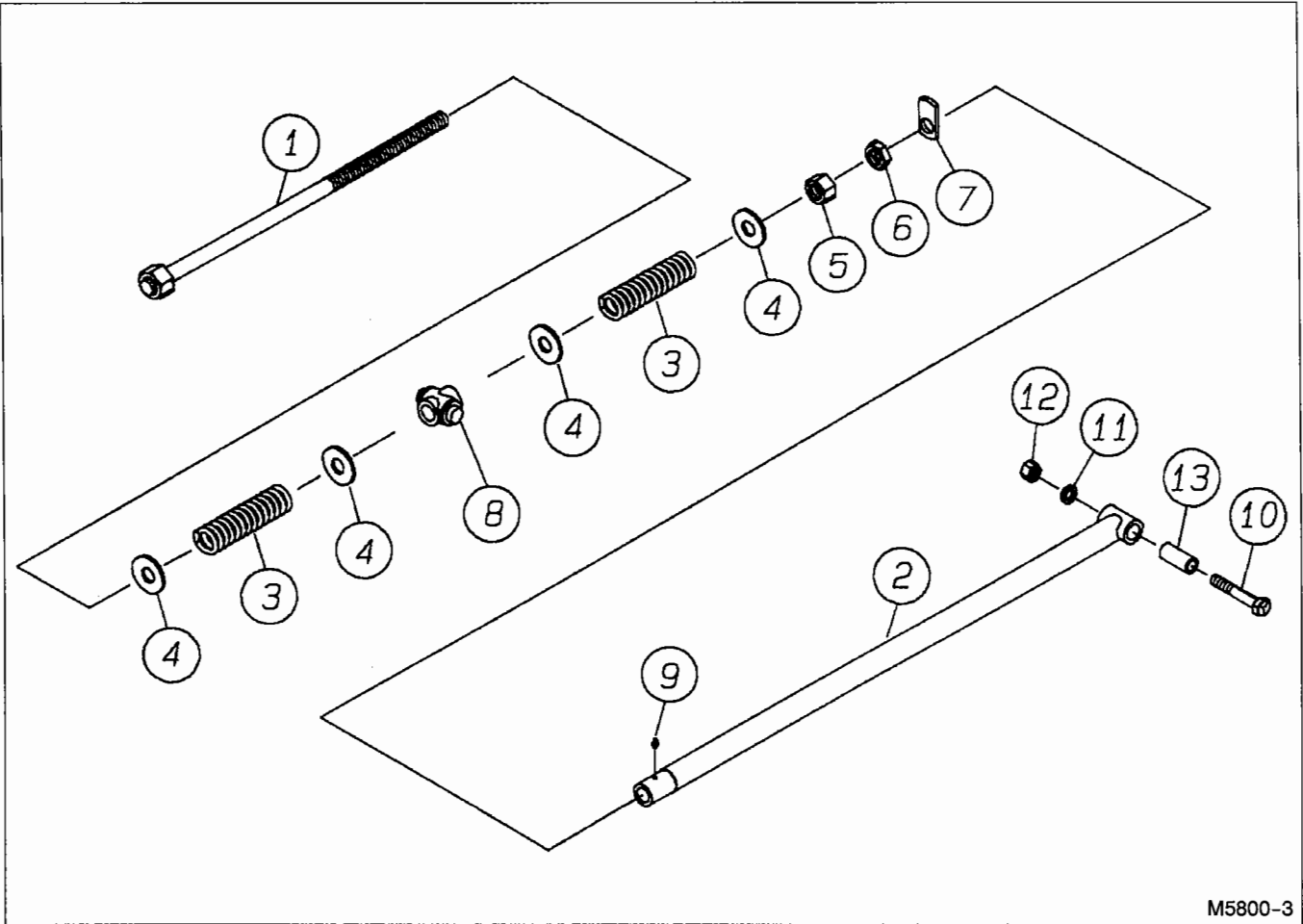
M5800-1

## FOR MODELS - ALL

3/97

| Item | Part Number  | Part Description               | Qty. |
|------|--------------|--------------------------------|------|
| 1    | 5800-4-0     | Hitch Pivot Weldment           | 1    |
| 2    | 63-126       | 1-1/4NC Lock Nut               | 4    |
| 3    | 62-151       | 1/2NC x 3" GD. 5 Cap Screw     | 2    |
| 4    | 5800-0-5     | 1-1/4" DIA. x 4-7/16" Pin      | 2    |
| 5    | 63-107       | 1/2NC Lock Nut                 | 2    |
| 6    | 62-280       | 1-1/4NC x 9" Machine Bolt      | 2    |
| 7    | 5800-7-0     | Tongue Weldment                | 1    |
| 8    | 62-372       | 1/2NC x 2" GD.5 Cap Screw      | 1    |
| 9    | 64-108       | 1/2" STD. Flat Washer          | 2    |
| 10   | 63-119       | 1NC Lock Nut                   | 1    |
| 11   | 62-250       | 1NC x 6-1/2" Cap Screw         | 1    |
| 12   | 72-351       | 10,000# Safety Chain           | 1    |
| 13   | 62-275       | 1-1/4NC x 7-1/2" Machine Bolt  | 2    |
| 14   | 5215-0-4007A | Hitch Clevis                   | 1    |
| 15   | 63-106       | 1/2NC Hex Nut                  | 1    |
| 16   | 1480-6-0     | Front Spreader Bar Weldment    | 1    |
| 17   | 64-107       | 1/2" STD. Lock Washer          | 1    |
| 18   | 73-101       | Jack Assembly                  | 1    |
| 19   | 60-103       | P.T.O. Lock Pin                | 1    |
| 20   | 60-618       | 3/8" DIA. x 3" Roll Pin        | 2    |
| 21   | 1480-0-6     | Pin                            | 1    |
| 22   | 24-100       | Hose Carrier Rod               | 1    |
| 23   | 1480-5-0     | Rear Spreader Bar Weldment     | 1    |
| 24   | 5800-4-8     | Round Spacer                   | 1    |
| 25   | 62-207       | 3/4NC x 5-1/2" GD. 5 Cap Screw | 1    |
| 26   | 63-162       | 3/4NC Nylon-Top Lock Nut       | 1    |
| 27   | See page P7  | Leveling Link Assembly         | 1    |

# LEVELING LINK ASSEMBLY



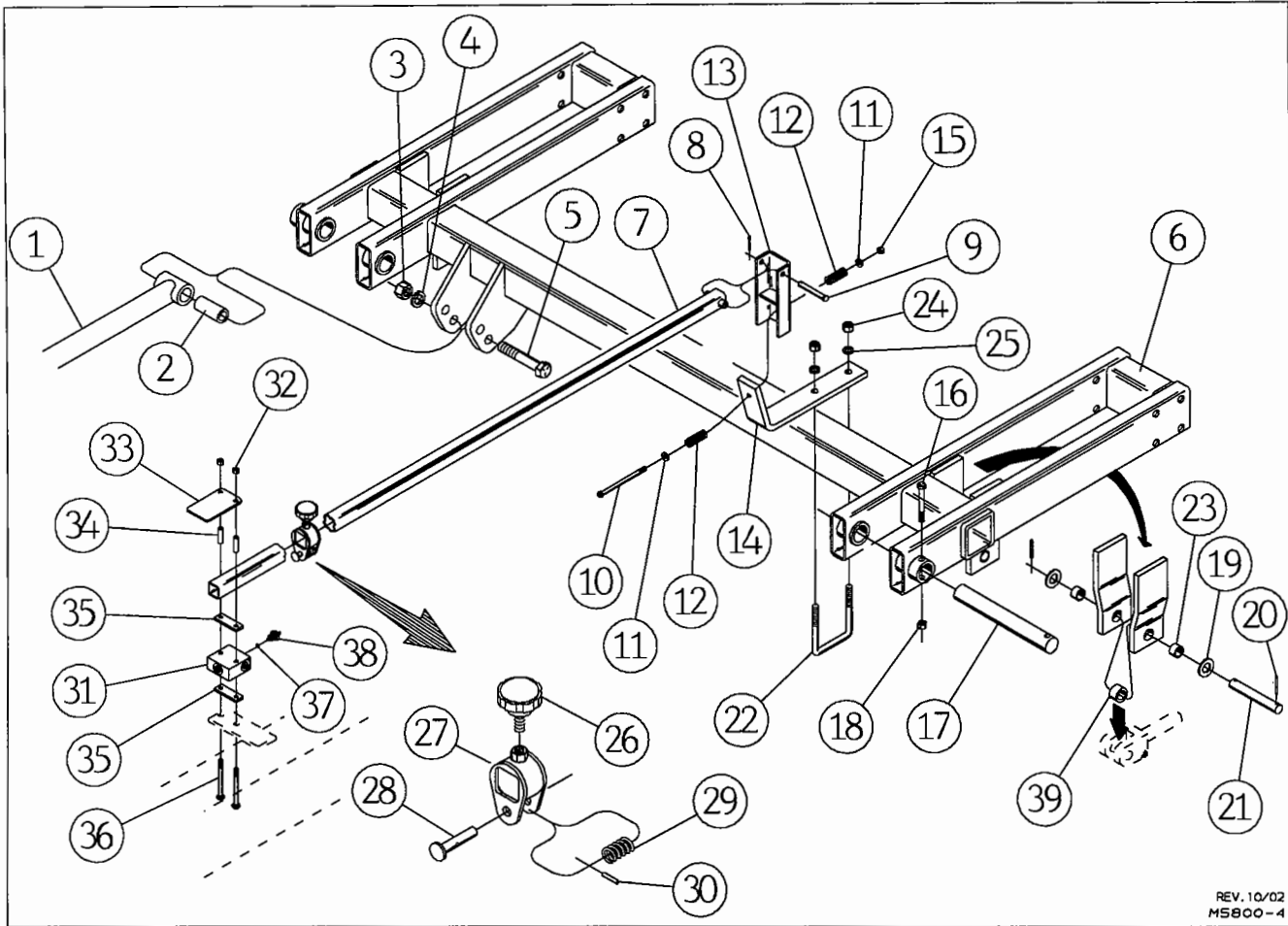
M5800-3

**FOR MODELS - ALL**

8/95

| Item | Part Number | Part Description          | Qty. |
|------|-------------|---------------------------|------|
| 1    | 1480-12-0A  | Adjustment Screw Weldment | 1    |
| 2    | 5800-11-0   | Leveling Link             | 1    |
| 3    | 76-114      | Spring                    | 2    |
| 4    | 64-130      | 1-1/2" SAE Flat Washer    | 4    |
| 5    | 63-127      | 1-1/2NC Hex Nut           | 1    |
| 6    | 63-129      | 1-1/2NC Hex Jam Nut       | 1    |
| 7    | 1480-10-1   | Screw Lock                | 1    |
| 8    | 1480-10-2   | Trunnion Casting          | 1    |
| 9    | 65-101      | 1/8NPT Zerk               | 1    |
| 10   | 62-247      | 1NC x 5-1/2" Cap Screw    | 1    |
| 11   | 64-118      | 1" STD. Lock Washer       | 1    |
| 12   | 63-117      | 1NC Hex Nut               | 1    |
| 13   | 412-33-2    | Bushing                   | 1    |
|      |             |                           |      |
|      |             |                           |      |
|      |             |                           |      |
|      |             |                           |      |
|      |             |                           |      |
|      |             |                           |      |
|      |             |                           |      |
|      |             |                           |      |

# ROCKER ASSEMBLY & DEPTH STOP ASSEMBLY



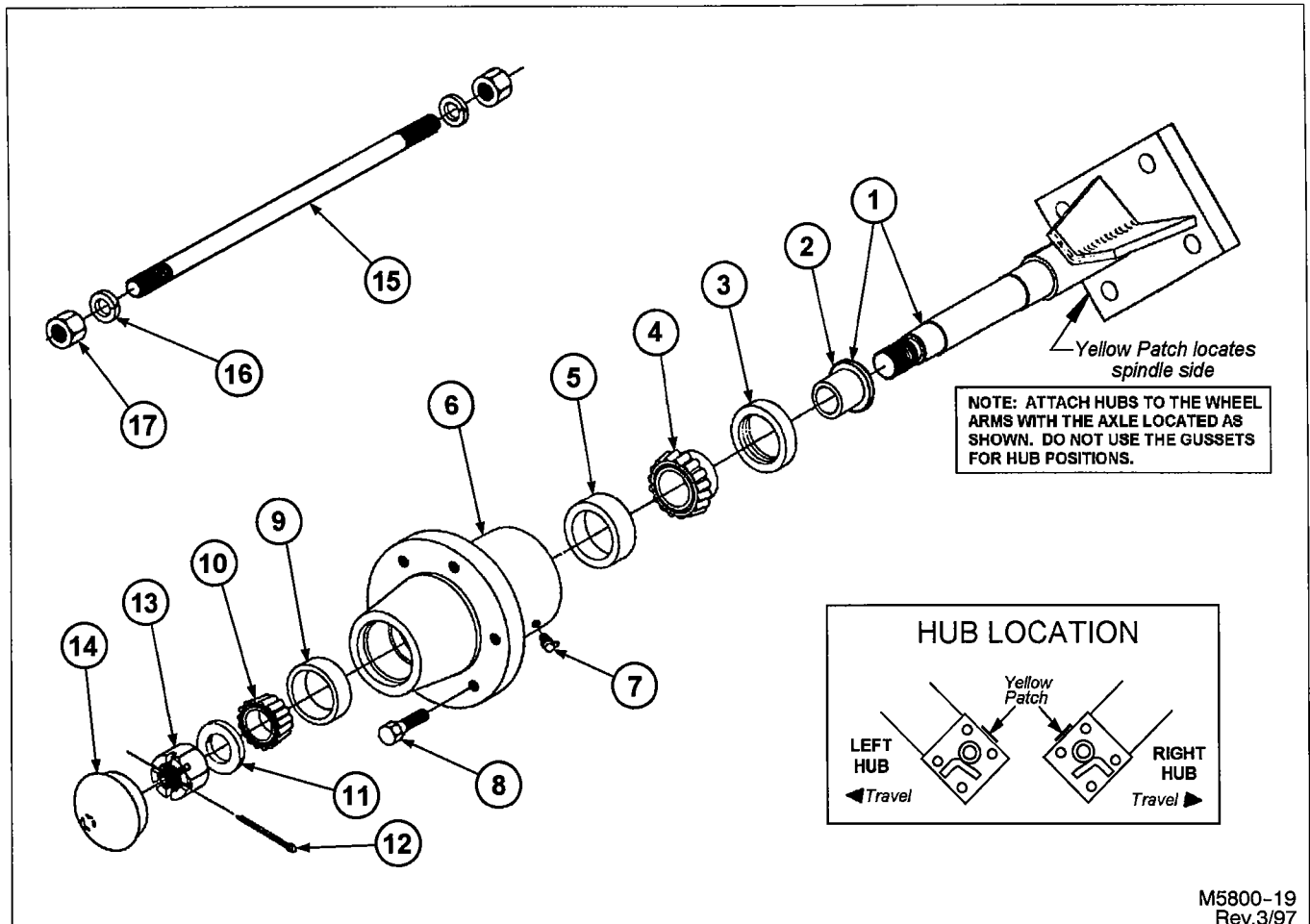
REV. 10/02  
MS800-4

## FOR MODELS - ALL

5/05

| Item | Part Number | Part Description               | Qty. | Item | Part Number | Part Description                | Qty. |
|------|-------------|--------------------------------|------|------|-------------|---------------------------------|------|
| 1    | See page P7 | Leveling Link Assembly         | 1    | 22   | 61-123      | 5/8" DIA. U-Bolt                | 1    |
| 2    | 412-33-2    | Bushing                        | 1    | 23   | 53-103      | Bushing                         | 2    |
| 3    | 63-117      | 1NC Hex Nut                    | 1    | 24   | 63-109      | 5/8NC Hex Nut                   | 2    |
| 4    | 64-118      | 1" STD. Lock Washer            | 1    | 25   | 64-109      | 5/8" STD. Lock Washer           | 2    |
| 5    | 62-247      | 1NC x 5-1/2" Cap Screw         | 1    |      | 6112-91-0   | Striker Assembly                | 1    |
| 6    | 5800-10-0B  | Rocker Weldment                | 1    | 26   | 99-165      | Adjustment Knob                 | 1    |
| 7    | 5800-85-0   | Stop Linkage                   | 1    | 27   | 6112-92-0A  | Striker Weldment                | 1    |
| 8    | 60-725      | 5/32" DIA. x 1-1/2" Cotter Pin | 1    | 28   | 60-126      | Clevis Pin                      | 1    |
| 9    | 60-231      | 1/2" DIA. x 3-1/2" Clevis Pin  | 1    | 29   | 76-102      | Spring                          | 1    |
| 10   | 62-636      | 3/8NC x 6" GD. 5 Cap Screw     | 1    | 30   | 60-602      | 3/16"DIA. x 1" Roll Pin         | 1    |
| 11   | 64-104      | 3/8" STD. Flat Washer          | 2    | 31   | 25-2530     | Stop Housing Assembly           | 1    |
| 12   | 76-120      | Spring                         | 2    |      | 4987-69-0   | Guide Assembly                  | 1    |
| 13   | 4987-84-0   | Stop Arm Weldment              | 1    | 32   | 63-103      | 3/8NC Lock Nut                  | 2    |
| 14   | 5800-0-7    | Hydraulic Stop Arm             | 1    | 33   | 3112-69-3   | Decal Plate                     | 1    |
| 15   | 63-134      | 3/8NC Nylon-Top Lock Nut       | 1    | 34   | 3112-69-1   | Valve Spacer                    | 2    |
| 16   | 62-154      | 1/2NC x 3-1/2" GD. 5 Cap Screw | 2    | 35   | 3112-69-2   | Bolt Strap                      | 2    |
| 17   | 4987-0-1    | 1-3/4" DIA. x 12-3/4" Pin      | 2    | 36   | 62-634      | 3/8NC x4-1/2" GD5 Carriage Bolt | 2    |
| 18   | 63-107      | 1/2NC Lock Nut                 | 2    | 37   | 25-2476     | O-Ring                          | 1    |
| 19   | 64-155      | 1" SAE Flat Washer             | 4    | 38   | 25-2531     | Cartridge Assembly              | 1    |
| 20   | 60-606      | 1/4" DIA. x 2" Roll Pin        | 4    | 39   | 4987-0-22   | Spacer                          | 1    |
| 21   | 5800-0-8    | 1" DIA. x 5-5/8" Pin           | 2    |      |             |                                 |      |

# HUB ASSEMBLY



M5800-19  
Rev.3/97

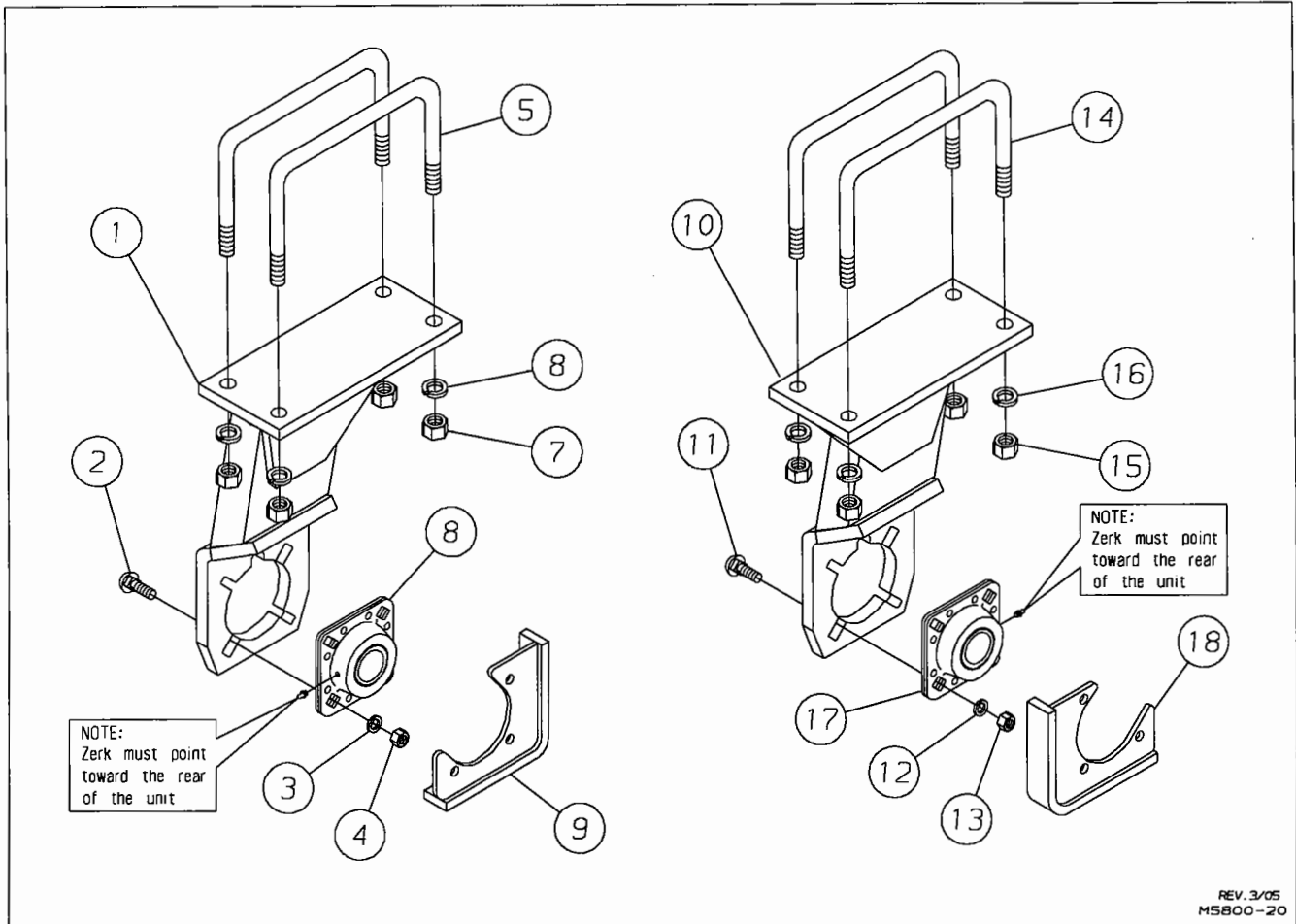
## FOR MODELS - ALL

6/01

| Item | Part Number | Part Description                                      | Qty. |
|------|-------------|---|------|
|      | 1918-17-0   | Hub and Axle Assembly                                 | 1    |
| 1    | 1918-15-0   | Repair Spindle and Sleeve Assembly                    |      |
| 2    | 53-105      | Wear Ring   | 1    |
| 3    | 42-108      | Seal  | 1    |
| 4    | 41-113      | Rear Cone   | 1    |
| 5    | 41-209      | Rear Cup  | 1    |
| 6    | 1918-14-0A  | Repair Hub Assembly (Includes Items 5, 6, 7, 8 and 9) | 1    |
| 7    | 65-122      | 1/4" x 65° Drive Zerk                                 | 2    |
| 8    | 62-295      | Wheel Bolt - 9/16NF x 1-1/8" GD.5                     | 6    |
| 9    | 41-208      | Front Cup   | 1    |
| 10   | 41-112      | Front Cone  | 1    |
| 11   | 64-120      | 1" SAE Flat Washer                                    | 1    |
| 12   | 60-702      | 3/16" DIA. x 1-1/2" Cotter Key                        | 1    |
| 13   | 63-204      | 1NC Slotted Hex Nut                                   | 1    |
| 14   | 52-302      | Hub Cap   | 1    |
| 15   | 62-816      | 3/4NC x 14-3/4" Axle Stud Bolt                        | 4    |
| 16   | 64-112      | 3/4" STD. Lock Washer                                 | 8    |
| 17   | 63-112      | 3/4NC Hex Nut   | 8    |
|      | 1918-84-0   | Hub Bearing Repair Kit (Includes 3, 4, 5, 9, 10)      |      |



# RIGID BEARING ARM ASSEMBLY



REV. 3/05  
MS800-20

## FOR MODELS - 5812W, 5814W, 5815W, 5817W, 5819W, 5820W

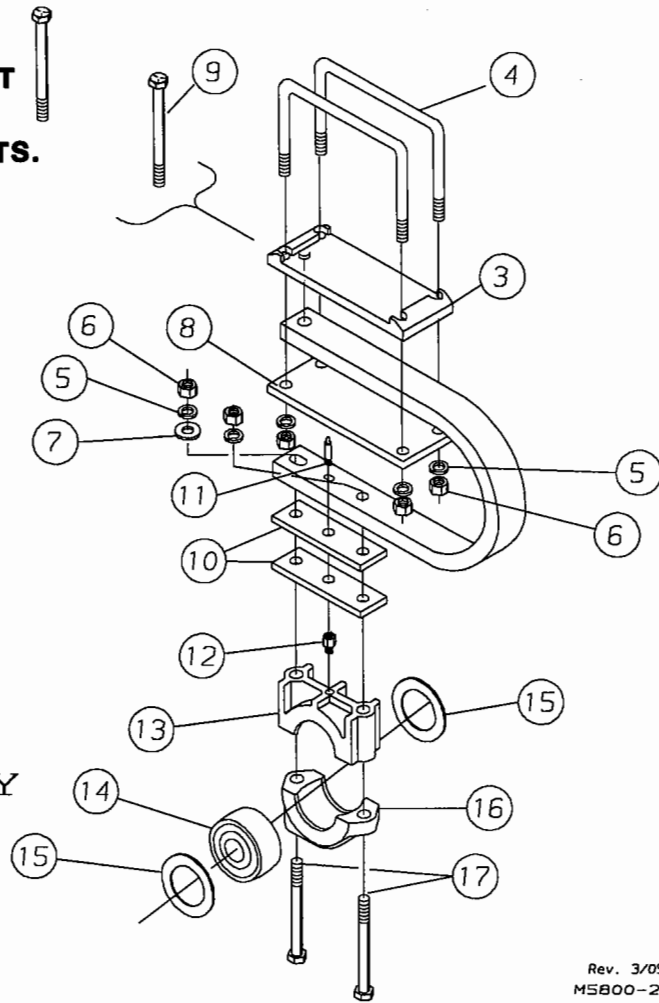
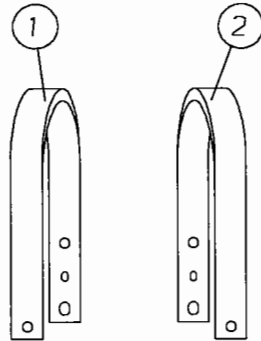
5/05

| Item | Part Number | Part Description   | Qty.  |
|------|-------------|--|-------|
|      | 5800-51-0   | Front Bearing Arm Assembly   | Spec. |
| 1    | 5800-57-0   | Front Bearing Arm Weldment   | 1     |
| 2    | 62-472      | 1/2NC x 2" Carriage Bolt   | 4     |
| 3    | 64-107      | 1/2" STD. Lock Washer  | 4     |
| 4    | 63-106      | 1/2NC Hex Nut  | 4     |
| 5    | ★ 61-253    | 3/4" DIA. U-Bolt   | 2     |
| 6    | ★ 64-112    | 3/4" STD. Lock Washer  | 4     |
| 7    | ★ 63-112    | 3/4NC Hex Nut  | 4     |
| 8    | 40-114      | Round Bore Bearing   | 1     |
| 9    | ★ 5800-35-0 | Front Bearing Arm Guard ACCESSORY (Requires replacing Item 2: 1/2NC x 1-3/4" Carriage Bolts with (4) 62-143 1/2NC x 2" Carriage Bolts) | 1     |
|      | 5800-50-0   | Rear Bearing Arm Assembly  | Spec. |
| 10   | 5800-58-0   | Rear Bearing Arm Weldment  | 1     |
| 11   | 62-472      | 1/2NC x 2" Carriage Bolt   | 4     |
| 12   | 64-107      | 1/2" STD. Lock Washer  | 4     |
| 13   | 63-106      | 1/2NC Hex Nut  | 4     |
| 14   | ★ 61-253    | 3/4" DIA. U-Bolt   | 2     |
| 15   | ★ 63-112    | 3/4NC Hex Nut  | 4     |
| 16   | ★ 64-112    | 3/4" STD. Lock Washer  | 4     |
| 17   | 40-114      | Round Bore Bearing   | 1     |
| 18   | ★ 5800-36-0 | Rear Bearing Arm Guard ACCESSORY (Requires replacing Item 11: 1/2NC x 1-3/4" Carriage Bolts with (4) 62-143 1/2NC x 2" Carriage Bolts) | 1     |

★ Not included in bearing arm assembly

# ROCK FLEX BEARING ARM ASSEMBLY

SEE PLACEMENT PAGES  
 USE BOLTS IN PLACE OF U-BOLT  
 ON MODELS 5821WR & 5824WR  
 WHEN ATTACHING LIGHT BRACKETS.



ROCK FLEX  
 BEARING ARM ASSEMBLY

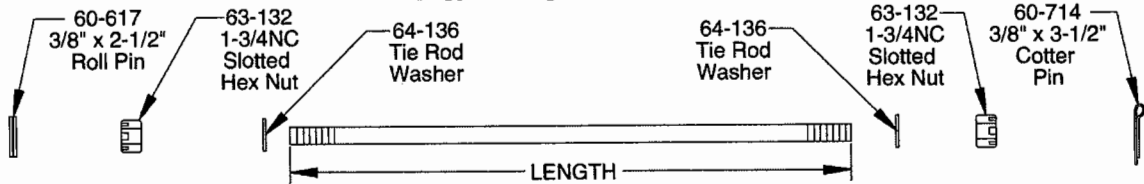
Rev. 3/05  
 MS800-21

**FOR MODELS - 5812WR, 5814WR, 5815WR, 5817WR, 5819WR, 5820WR, 5821WR, 5824WR**

5/05

| Item | Part Number | Part Description         | Qty.    |
|------|-------------|--------------------------|---------|
| 1    | 31-201      | Rear Disc Harrow Shank   | 1       |
| 2    | 31-202      | Front Disc Harrow Shank  | 1       |
| 3    | 5800-0-1    | Shank Base Casting       | 1       |
| 4    | 61-254      | 3/4" DIA. U-Bolt         | 2       |
| 5    | 64-112      | 3/4" STD. Lock Washer    | 4       |
| 6    | 63-112      | 3/4NC Hex Nut            | 4       |
| 7    | 64-113      | 3/4" STD. Flat Washer    | 1       |
| 8    | 5800-0-9    | Bolt Plate               | 1       |
| 9    | 62-301      | 3/4NC x 8" GD5 Cap Screw | Specify |
| 10   | 2410-0-5    | Spacer Plate             | 2       |
| 11   | 65-123      | 1/8NPT Extended Zerk     | 1       |
| 12   | 65-111      | Extension Fitting        | 1       |
| 13   | 2410-10-1   | Upper Housing            | 1       |
| 14   | 2410-11-0   | Bearing Assembly         | 1       |
| 15   | 45-106      | Side Ring                | 2       |
| 16   | 2410-10-2   | Lower Housing            | 1       |
| 17   | 62-216      | 3/4NC x 7-1/2" Cap Screw | 2       |

## 1-3/4" ROUND TIE RODS

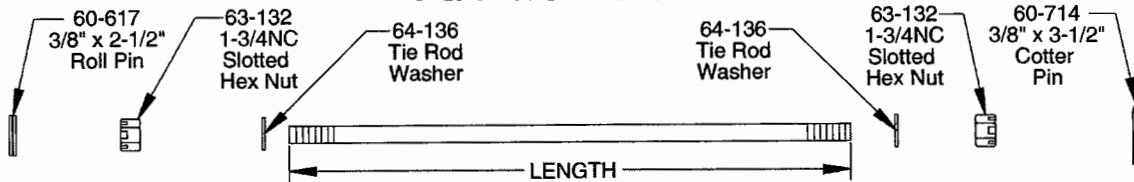


| STANDARD & FOLDING MODELS |          |              |              |             |               |           |
|---------------------------|----------|--------------|--------------|-------------|---------------|-----------|
| MODEL                     | LOCATION | LENGTH       | DISC SPACING | NO. OF DISC | ALLOY TIE ROD |           |
| 5812W                     | FRONT    | Left         | 66-1/2"      | 10"         | 7             | 1545-18-1 |
|                           |          | Right        | 77"          | 10"         | 8             | 1540-57-1 |
|                           | REAR     | Left         | 57"          | 10"         | 6             | 1740-24-1 |
|                           |          | Right        | 87"          | 10"         | 9             | 5800-24-1 |
| 5814W                     | FRONT    | Left         | 77"          | 10"         | 8             | 1540-57-1 |
|                           |          | Right        | 87"          | 10"         | 9             | 5800-24-1 |
|                           | REAR     | Left         | 66-1/2"      | 10"         | 7             | 1545-18-1 |
|                           |          | Right        | 97"          | 10"         | 10            | 1051-18-1 |
| 5815W                     | FRONT    | Left         | 87"          | 10"         | 9             | 5800-24-1 |
|                           |          | Right        | 97"          | 10"         | 10            | 1051-18-1 |
|                           | REAR     | Left         | 97"          | 10"         | 10            | 1051-18-1 |
|                           |          | Right        | 87"          | 10"         | 9             | 5800-24-1 |
| 5817W                     | FRONT    | Left         | 106-1/2"     | 10"         | 11            | 1027-18-1 |
|                           |          | Right        | 97"          | 10"         | 10            | 1051-18-1 |
|                           | REAR     | Left         | 106-1/2"     | 10"         | 11            | 1027-18-1 |
|                           |          | Right        | 97"          | 10"         | 10            | 1051-18-1 |
| 5819W                     | FRONT    | Left         | 46-1/2"      | 10"         | 5             | 2430-18-1 |
|                           |          | Center       | 87"          | 10"         | 9             | 5800-24-1 |
|                           |          | Right        | 87"          | 10"         | 9             | 5800-24-1 |
|                           | REAR     | Left         | 46-1/2"      | 10"         | 5             | 2430-18-1 |
|                           |          | Center       | 77"          | 10"         | 8             | 1540-57-1 |
|                           |          | Right        | 97"          | 10"         | 10            | 1051-18-1 |
| 5820W                     | FRONT    | Left         | 57"          | 10"         | 6             | 1740-24-1 |
|                           |          | Center       | 87"          | 10"         | 9             | 5800-24-1 |
|                           |          | Right        | 97"          | 10"         | 10            | 1051-18-1 |
|                           | REAR     | Left         | 57"          | 10"         | 6             | 1740-24-1 |
|                           |          | Center       | 77"          | 10"         | 8             | 1540-57-1 |
|                           |          | Right        | 106-1/2"     | 10"         | 11            | 1027-18-1 |
| 5821W                     | FRONT    | Left Wing    | 66-1/2"      | 10"         | 7             | 1545-18-1 |
|                           |          | Left Center  | 57"          | 10"         | 6             | 1740-24-1 |
|                           |          | Right Center | 66-1/2"      | 10"         | 7             | 1545-18-1 |
|                           |          | Right Wing   | 57"          | 10"         | 6             | 1740-24-1 |
|                           | REAR     | Left Wing    | 57"          | 10"         | 6             | 1740-24-1 |
|                           |          | Left Center  | 46-1/2"      | 10"         | 5             | 2430-18-1 |
|                           |          | Right Center | 77"          | 10"         | 8             | 1540-57-1 |
|                           |          | Right Wing   | 66-1/2"      | 10"         | 7             | 1545-18-1 |
| 5824W                     | FRONT    | Left Wing    | 66-1/2"      | 10"         | 7             | 1545-18-1 |
|                           |          | Left Center  | 87"          | 10"         | 9             | 5800-24-1 |
|                           |          | Right Center | 66-1/2"      | 10"         | 7             | 1545-18-1 |
|                           |          | Right Wing   | 57"          | 10"         | 6             | 1740-24-1 |
|                           | REAR     | Left Wing    | 57"          | 10"         | 6             | 1740-24-1 |
|                           |          | Left Center  | 87"          | 10"         | 9             | 5800-24-1 |
|                           |          | Right Center | 66-1/2"      | 10"         | 7             | 1545-18-1 |
|                           |          | Right Wing   | 66-1/2"      | 10"         | 7             | 1545-18-1 |

\* NOTE: Tie Rod Number does not include nuts or pins.

# 1-3/4" ROUND TIE RODS

Rev.8/05

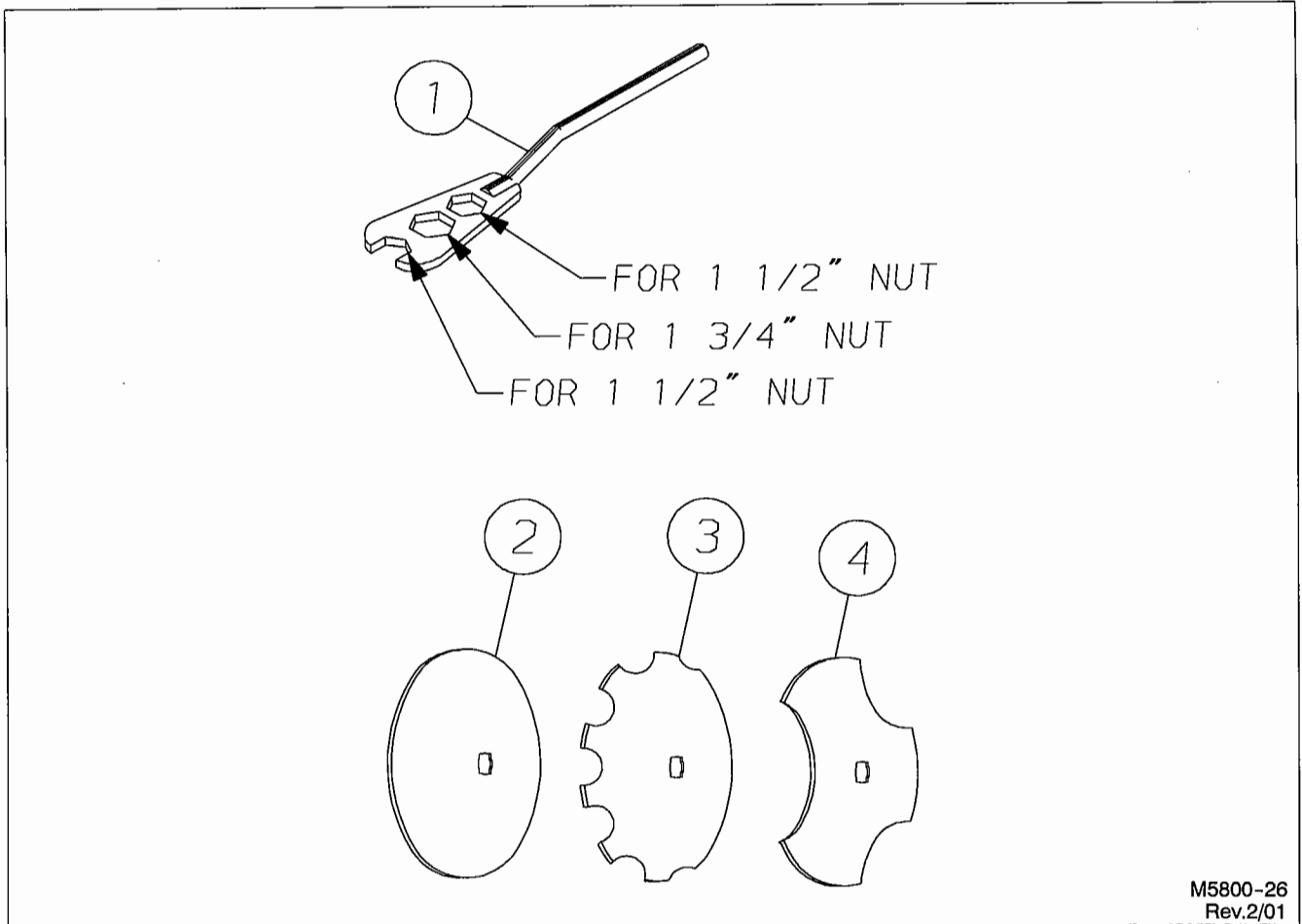


## ROCK FLEX MODELS

| MODEL      | LOCATION |              | LENGTH   | DISC SPACING | NO. OF DISC | ALLOY TIE ROD |
|------------|----------|--------------|----------|--------------|-------------|---------------|
| 5812WR     | FRONT    | Left         | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Right        | 77"      | 10"          | 8           | 1540-57-1     |
|            | REAR     | Left         | 57"      | 10"          | 6           | 1740-24-1     |
|            |          | Right        | 87"      | 10"          | 9           | 5800-24-1     |
| 5814WR     | FRONT    | Left         | 97"      | 10"          | 10          | 1051-18-1     |
|            |          | Right        | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            | REAR     | Left         | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Right        | 97"      | 10"          | 10          | 1051-18-1     |
| 5815WR     | FRONT    | Left         | 87"      | 10"          | 9           | 5800-24-1     |
|            |          | Right        | 97"      | 10"          | 10          | 1051-18-1     |
|            | REAR     | Left         | 97"      | 10"          | 10          | 1051-18-1     |
|            |          | Right        | 87"      | 10"          | 9           | 5800-24-1     |
| 5817WR     | FRONT    | Left         | 106-1/2" | 10"          | 11          | 1027-18-1     |
|            |          | Right        | 97"      | 10"          | 10          | 1051-18-1     |
|            | REAR     | Left         | 106-1/2" | 10"          | 11          | 1027-18-1     |
|            |          | Right        | 97"      | 10"          | 10          | 1051-18-1     |
| 5819WR     | FRONT    | Left         | 57"      | 10"          | 6           | 1740-24-1     |
|            |          | Center       | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Right        | 97"      | 10"          | 10          | 1051-18-1     |
|            | REAR     | Left         | 46-1/2"  | 10"          | 5           | 2430-18-1     |
|            |          | Center       | 77"      | 10"          | 8           | 1540-57-1     |
| Right      | 97"      | 10"          | 10       | 1051-18-1    |             |               |
| 5820WR     | FRONT    | Left         | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Center       | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Right        | 106-1/2" | 10"          | 11          | 1027-18-1     |
|            | REAR     | Left         | 57"      | 10"          | 6           | 1740-24-1     |
|            |          | Center       | 77"      | 10"          | 8           | 1540-57-1     |
|            |          | Right        | 106-1/2" | 10"          | 11          | 1027-18-1     |
| 5821WR     | FRONT    | Left Wing    | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Left Center  | 57"      | 10"          | 6           | 1740-24-1     |
|            |          | Right Center | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Right Wing   | 57"      | 10"          | 6           | 1740-24-1     |
|            | REAR     | Left Wing    | 57"      | 10"          | 6           | 1740-24-1     |
|            |          | Left Center  | 46-1/2"  | 10"          | 5           | 2430-18-1     |
|            |          | Right Center | 77"      | 10"          | 8           | 1540-57-1     |
|            |          | Right Wing   | 66-1/2"  | 10"          | 7           | 1545-18-1     |
| 5824WR     | FRONT    | Left Wing    | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Left Center  | 87"      | 10"          | 9           | 5800-24-1     |
|            |          | Right Center | 66-1/2"  | 10"          | 7           | 1545-18-1     |
|            |          | Right Wing   | 57"      | 10"          | 6           | 1740-24-1     |
|            | REAR     | Left Wing    | 57"      | 10"          | 6           | 1740-24-1     |
|            |          | Left Center  | 87"      | 10"          | 9           | 5800-24-1     |
|            |          | Right Center | 66-1/2"  | 10"          | 7           | 1545-18-1     |
| Right Wing | 66-1/2"  | 10"          | 7        | 1545-18-1    |             |               |

★ NOTE: Tie Rod Number does not include nuts or pins.

# DISC BLADES AND TIE ROD WRENCH



M5800-26  
Rev.2/01

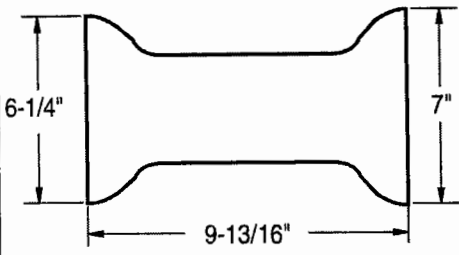
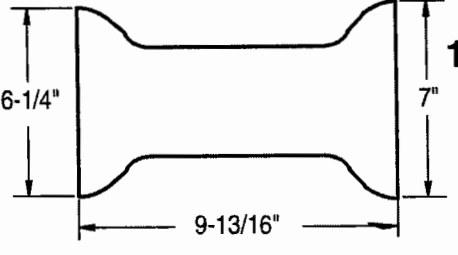
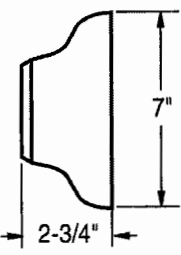
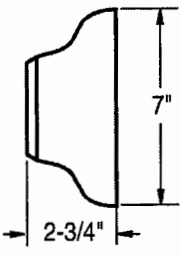
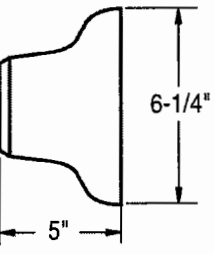
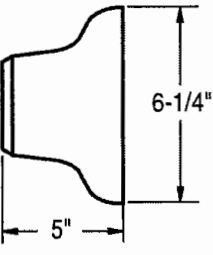
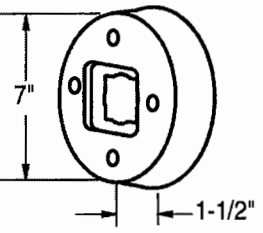
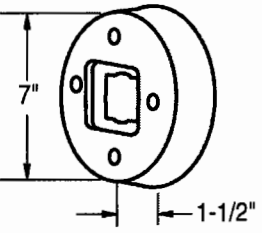
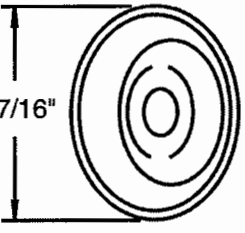
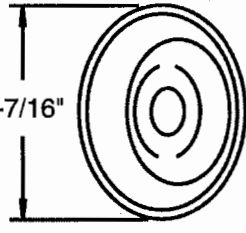
**FOR MODELS - ALL**

8/02

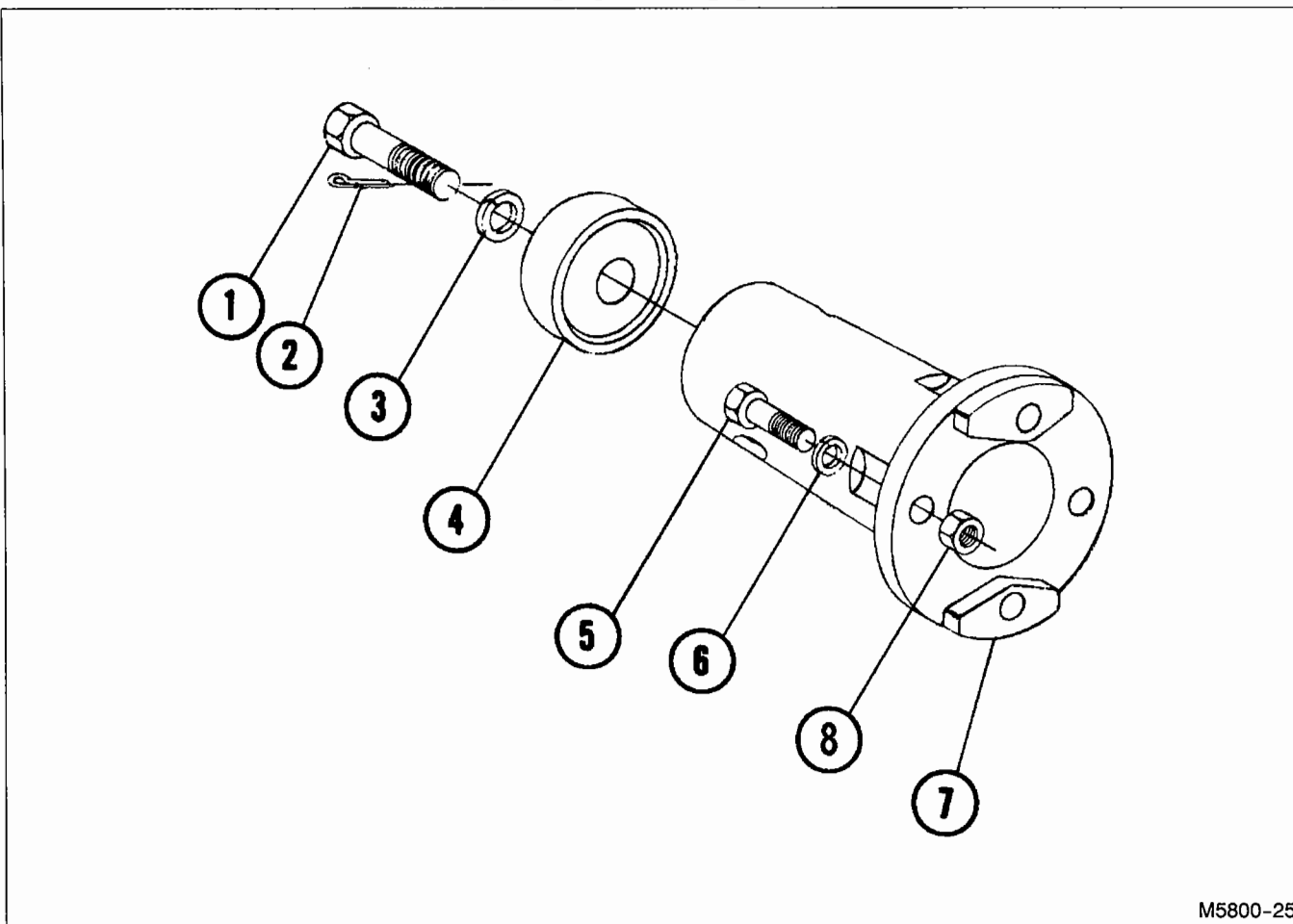
| Item | Part Number | Part Description    | Diameter | Gauge | Old Part Number | Qty.    |
|------|-------------|---------------------|----------|-------|-----------------|---------|
| 1    | 2191-35-0   | Tie Rod Wrench      |          |       |                 | 1       |
| 2    | 30-216      | Plain Sharp Blade   | 26"      | 1/4"  | 266517COM-PS    | SPECIFY |
|      | 30-218      | Plain Sharp Blade   | 28"      | 5/16" | 288017COM-PS    |         |
|      | 30-243      | Plain Sharp Blade   | 24"      | 6     | 244517COM-PS    |         |
|      | 30-220      | Plain Sharp Blade   | 24"      | 1/4"  | 246517COM-PS    |         |
|      | 30-222      | Plain Sharp Blade   | 24"      | 5/16" | 248017COM-PS    |         |
|      | 30-223      | Plain Sharp Blade   | 22"      | 7     | 224517COM-PS    |         |
|      | 30-225      | Plain Sharp Blade   | 20"      | 7     | 204517COM-PS    |         |
| 3    | 30-227      | Plain Sharp Blade   | 22"      | 1/4"  | 226517COM-PS    |         |
|      | 30-215      | Notched Sharp Blade | 28"      | 5/16" | 288017COM-NS    |         |
|      | 30-217      | Notched Sharp Blade | 26"      | 1/4"  | 266517COM-NS    |         |
|      | 30-221      | Notched Sharp Blade | 24"      | 1/4"  | -----           |         |
|      | 30-224      | Notched Sharp Blade | 22"      | 7     | 224517COM-NS    |         |
| 4    | 30-226      | Notched Sharp Blade | 20"      | 7     | 204517COM-NS    |         |
|      | 30-147      | Cut-Out Blade       | 18"      | 7     | 184511-NS       |         |
|      | 30-149      | Cut-Out Blade       | 20"      | 7     | 204511-NS       |         |
|      |             |                     |          |       |                 |         |
|      |             |                     |          |       |                 |         |
|      |             |                     |          |       |                 |         |

# SPACER SPOOLS, HALF SPOOLS & END WASHERS

M5800-27  
5/05

| RIGID MODELS -- 10" SPACING   | ROCK FLEX MODELS -- 10" SPACING  |
|---|--|
| 1-1-3/4" COMBINATION TIE ROD SPOOLS   | 1-3/4" COMBINATION TIE ROD SPOOLS  |
|  <p>6-1/4"<br/>7"<br/>9-13/16"</p> <p><b>1441-0-10D</b><br/>DUCTILE<br/>SPACER<br/>SPOOL</p> |  <p>6-1/4"<br/>7"<br/>9-13/16"</p> <p><b>1441-0-10D</b><br/>DUCTILE<br/>SPACER<br/>SPOOL</p> |
|  <p>7"<br/>2-3/4"</p> <p><b>1441-0-14D</b><br/>DUCTILE SHORT<br/>HALF SPOOL</p>              |  <p>7"<br/>2-3/4"</p> <p><b>1441-0-14D</b><br/>DUCTILE SHORT<br/>HALF SPOOL</p>              |
|  <p>6-1/4"<br/>5"</p> <p><b>1441-0-13D</b><br/>DUCTILE LONG<br/>HALF SPOOL</p>              |  <p>6-1/4"<br/>5"</p> <p><b>1441-0-13D</b><br/>DUCTILE LONG<br/>HALF SPOOL</p>              |
|  <p>7"<br/>1-1/2"</p> <p><b>1441-0-16</b><br/>LARGE<br/>END WASHER</p>                     |  <p>7"<br/>1-1/2"</p> <p><b>1441-0-16</b><br/>LARGE<br/>END WASHER</p>                     |
|  <p>7-7/16"</p> <p><b>45-107</b><br/>END WASHER</p>  |  <p>7-7/16"</p> <p><b>45-107</b><br/>END WASHER</p>  |

# EXTENSION ASSEMBLY



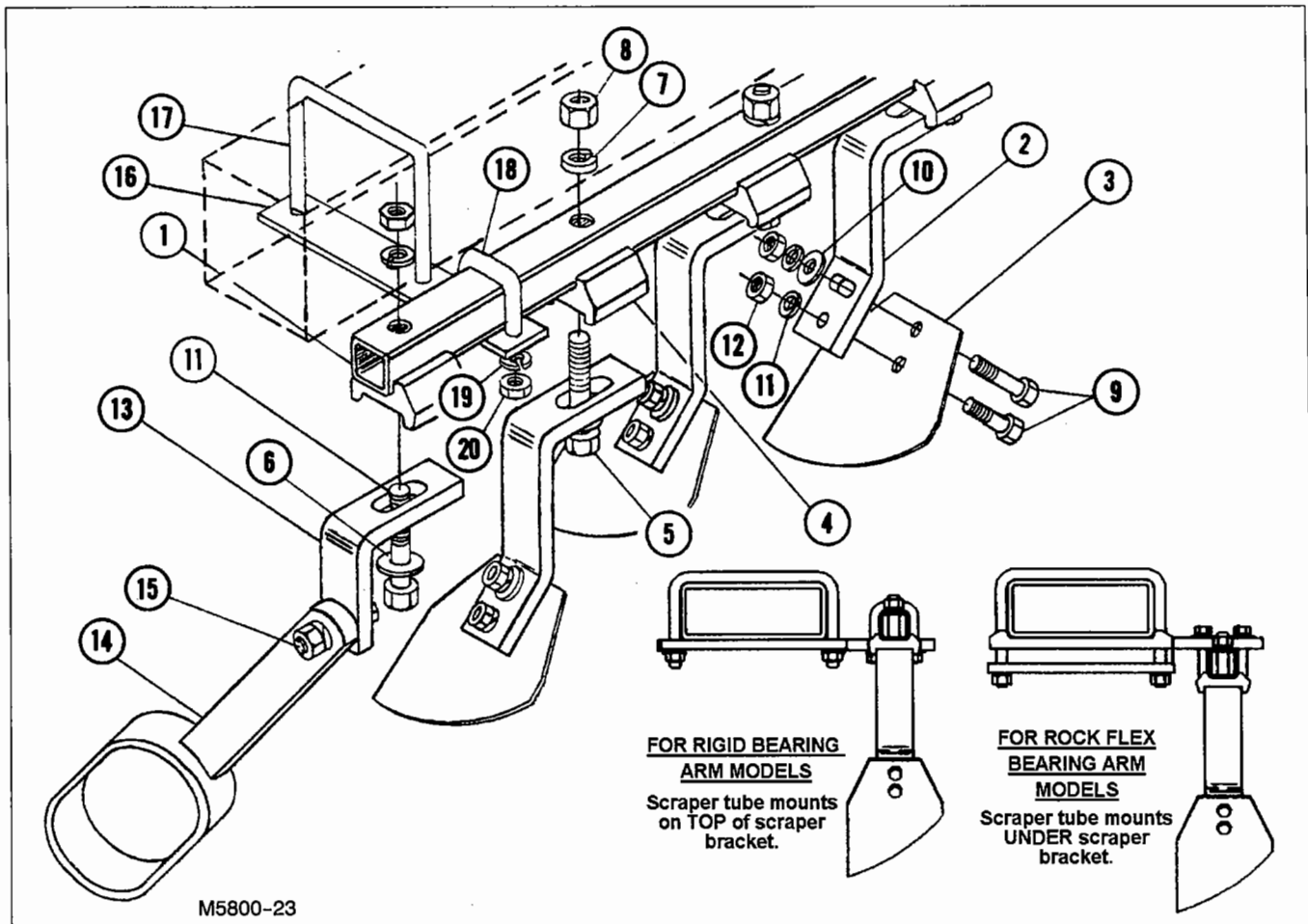
M5800-25

**FOR MODELS - ALL**

3/97

| Item | Part Number | Part Description              | Qty. |
|------|-------------|-------------------------------|------|
|      | 1050-45-0   | Extension Assembly            | 1    |
| 1    | 62-270      | 1/8NC x 3-1/2" Special Bolt   | 1    |
| 2    | 60-709      | 1/4" DIA. x 2" Cotter Pin     | 1    |
| 3    | 64-122      | 1-1/8" STD. Lock Washer       | 1    |
| 4    | 142-19-1    | Extension Spool Washer        | 1    |
| 5    | 62-167      | 5/8NC x 1-3/4" GD.5 Cap Screw | 4    |
| 6    | 64-109      | 5/8" STD. Lock Washer         | 4    |
| 7    | 1050-45-1   | Extension Spool               | 1    |
| 8    | 63-109      | 5/8NC Hex Nut                 | 4    |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |
|      |             |                               |      |

# RIGID SCRAPER ASSEMBLY

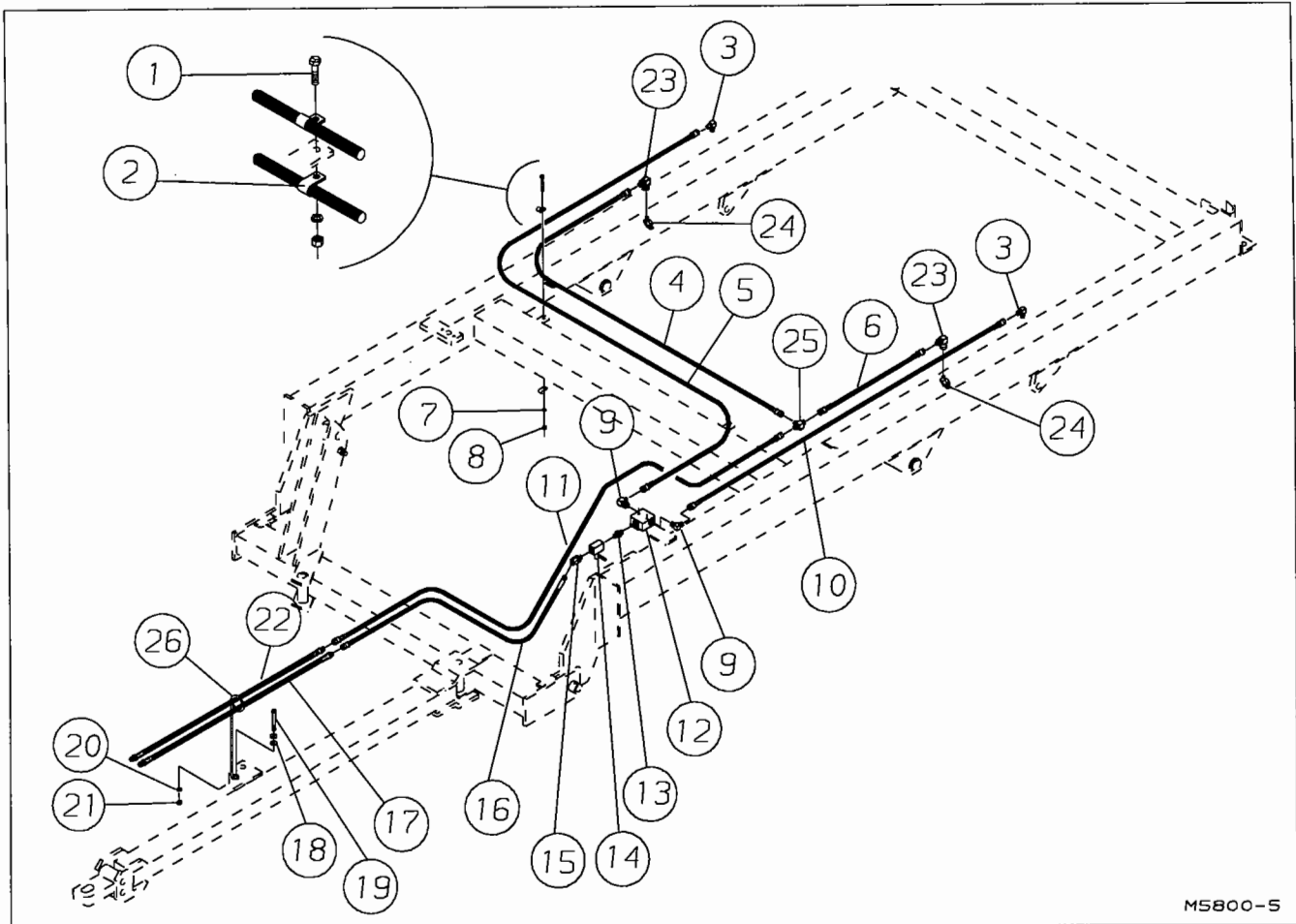


## FOR MODEL - ALL

3/97

| Item | Part Number | Part Description              | Qty. |
|------|-------------|-------------------------------|------|
| 1    |             | Scraper Tube                  |      |
| 2    | 1486-157-4  | Scraper Arm                   |      |
| 3    | 32-100      | Scraper Blade                 |      |
| 4    | 1486-157-2  | Scraper Arm Holder            |      |
| 5    | 62-203      | 3/4NC x 4-1/2" GD.5 Cap Screw |      |
| 6    | 64-113      | 3/4" STD. Flat Washer         |      |
| 7    | 64-112      | 3/4" STD. Lock Washer         |      |
| 8    | 63-112      | 3/4NC Hex Nut                 |      |
| 9    | 62-569      | 1/2NC x 1-1/2" GD.5 Cap Screw |      |
| 10   | 64-108      | 1/2" STD. Flat Washer         |      |
| 11   | 64-107      | 1/2" STD. Lock Washer         |      |
| 12   | 63-106      | 1/2NC Hex Nut                 |      |
| 13   | 1450-187-1A | Loop Scraper Bracket          |      |
| 14   | 1286-76-0   | Scraper Weldment              |      |
| 15   | 62-195      | 3/4NC x 2-1/2" GD.5 Cap Screw |      |
| 16   | 5800-187-2  | Scraper Bracket               |      |
| 17   | 61-253      | 3/4" DIA. U-Bolt              |      |
| 18   | 61-119      | 5/8" DIA. U-Bolt              |      |
| 19   | 64-109      | 5/8" STD. Lock Washer         |      |
| 20   | 63-109      | 5/8NC Hex Nut                 |      |

# HYDRAULICS



M5800-5

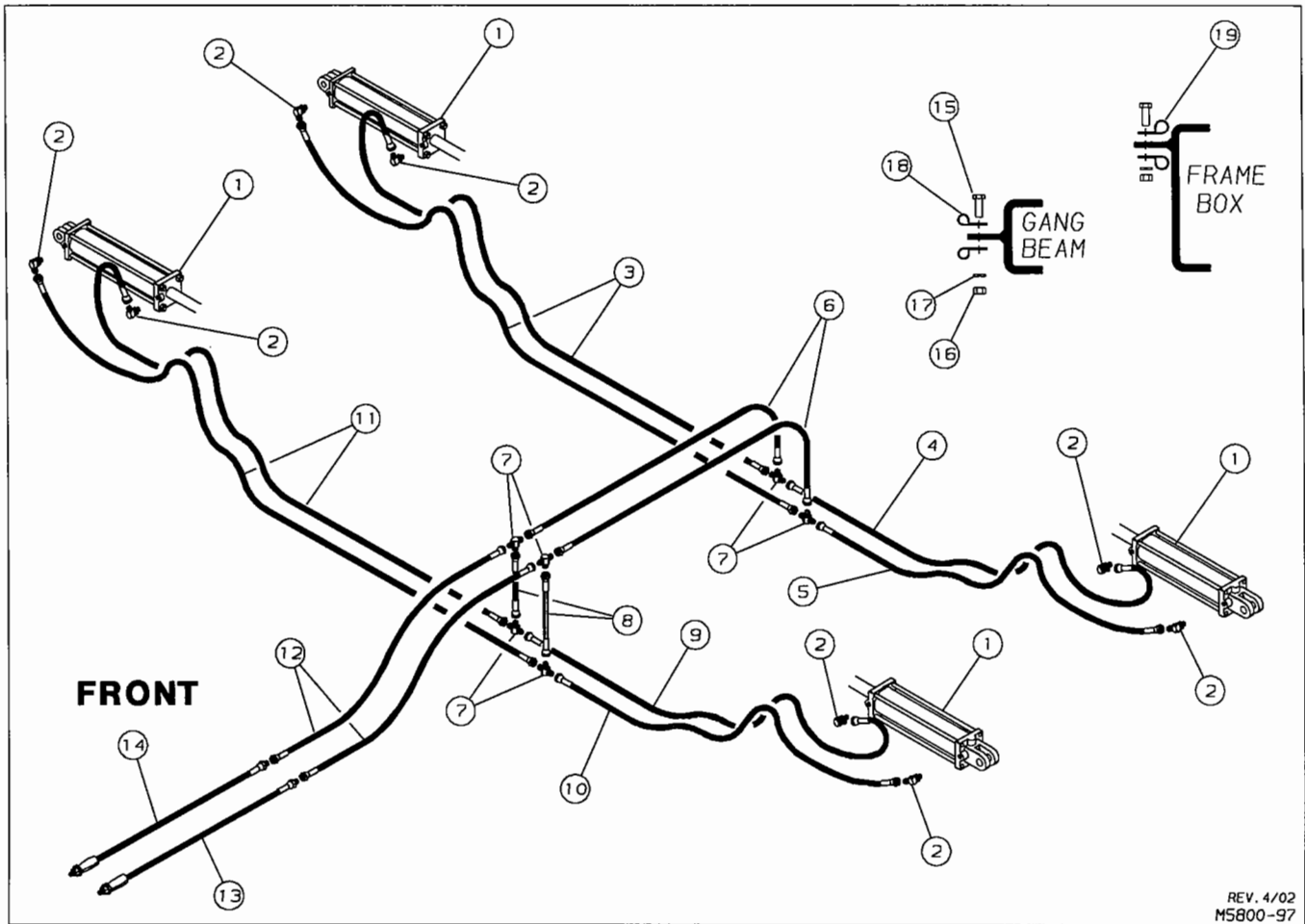
## FOR MODELS - ALL

5/05

| Item | Part Number | Part Description                                  | Qty. |
|------|-------------|---|------|
| 1    | 62-108      | 3/8N.C x 1" GD. 5 Cap Screw                       | 7    |
| 2    | 25-1153     | 5/8" DIA. Hose Clamp                              | 14   |
| 3    | 25-301      | 37° Flare O-Ring 90° Elbow                        | 2    |
| 4    | 24-279R     | 3/8" x 112" Black Rubber Hose Assembly            | 1    |
| 5    | 24-241R     | 3/8" x 154" Black Rubber Hose Assembly            | 1    |
| 6    | 24-256R     | 3/8" x 48" Black Rubber Hose Assembly             | 1    |
| 7    | 64-103      | 3/8" STD. Lock Washer                             | 7    |
| 8    | 63-102      | 3/8N.C Hex Nut                                    | 7    |
| 9    | 25-301      | O-Ring 37° Flare 90° Elbow                        | 2    |
| 10   | 24-2116R    | 3/8" x 96" Black Rubber Hose Assembly             | 1    |
| 11   | 24-301R     | 1/2" x 113" Black Rubber Hose Assembly            | 1    |
| 12   | 25-2530     | Stop Housing Assembly                             | 1    |
| 13   | 25-311      | O-Ring Male Coupler                               | 1    |
| 14   | 25-2265     | In-Line Shut Off Valve                            | 1    |
| 15   | 25-312      | 37° Flare O-Ring 45° Adapter                      | 1    |
| 16   | 24-310R     | 1/2" x 74" Black Rubber Hose Assembly             | 1    |
| 17   | ★ 4990-75-0 | 1/2" x 95" Hose w/ Red Plastic Handle Assembly    | 1    |
| 18   | 64-108      | 1/2" STD. Flat Washer                             | 2    |
| 19   | 62-372      | 1/2N.C x 2-1/2" GD.5 Cap Screw                    | 1    |
| 20   | 64-107      | 1/2" STD. Lock Washer                             | 1    |
| 21   | 63-106      | 1/2N.C Hex Nut                                    | 1    |
| 22   | ★ 4990-76-0 | 1/2" x 95" Hose w/ Yellow Plastic Handle Assembly | 1    |
| 23   | 25-310      | 37° Flare Male / Female 90° Elbow                 | 2    |
| 24   | 25-312      | 37° Flare O-Ring 45° Adapter                      | 2    |
| 25   | 25-303      | 37° Flare Male Tee                                | 1    |
| 26   | 24-100      | Hose Carrier Rod                                  | 1    |

★ See page P21 for Parts Listing

# HYDRAULICS - WING FOLD



REV. 4/02  
M5800-97

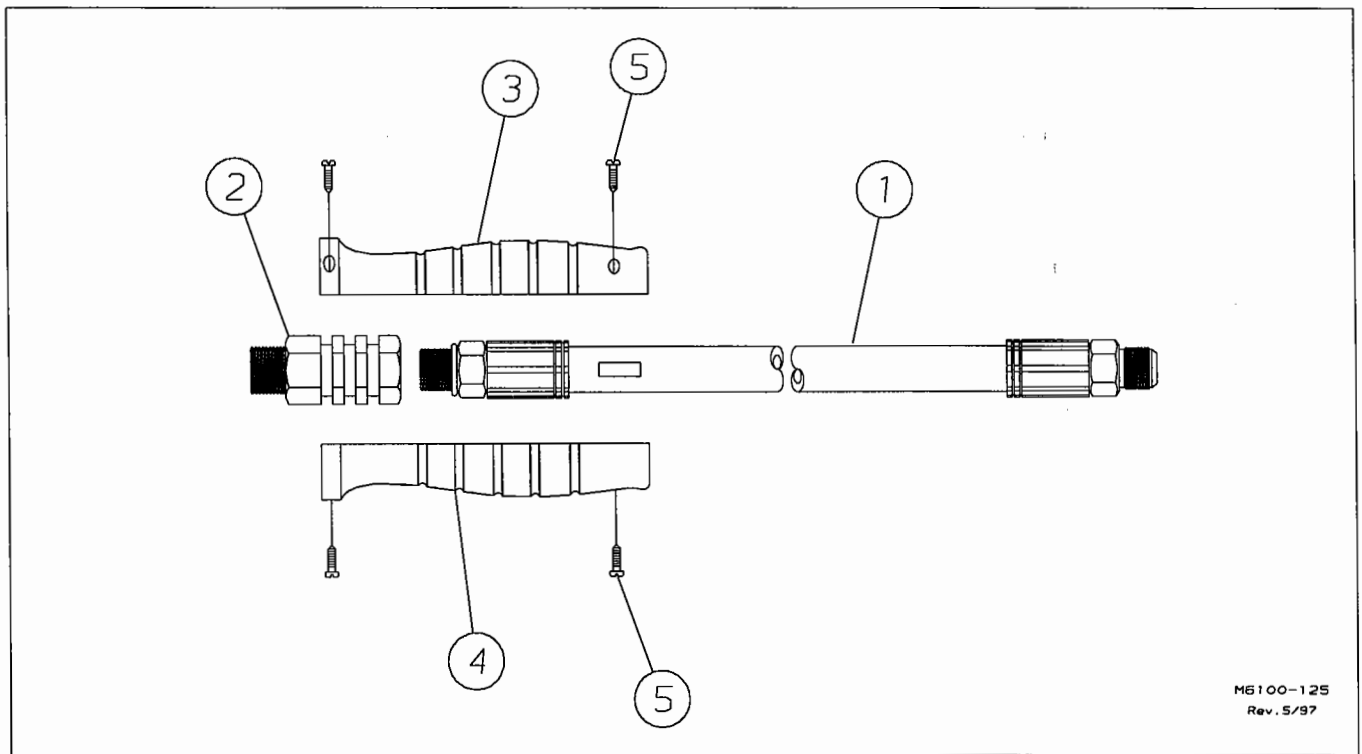
**FOR MODELS - 5821W, 5824W**

4/02

| Item | Part Number | Part Description  | Qty. |
|------|-------------|---|------|
| 1    | 21-157      | 3-1/2" x 18" Hydraulic Cylinder                             | 4    |
| 2    | 25-1194     | 3/4(M) O-Ring to 9/16(M) JIC x 90° Restrictor Fitting       | 8    |
| 3    | 24-562R     | 1/4" x 151" Black 2W 9/16" JIC Hydraulic Hose - Model 5821W | 2    |
|      | 24-564R     | 1/4" x 166" Black 2W 9/16" JIC Hydraulic Hose - Model 5824W | 2    |
| 4    | 24-555R     | 1/4" x 73" Black 2W 9/16" JIC Hydraulic Hose - Model 5821W  | 1    |
|      | 24-558R     | 1/4" x 88" Black 2W 9/16" JIC Hydraulic Hose - Model 5824W  | 1    |
| 5    | 24-554R     | 1/4" x 67" Black 2W 9/16" JIC Hydraulic Hose - Model 5821W  | 1    |
|      | 24-557R     | 1/4" x 83" Black 2W 9/16" JIC Hydraulic Hose - Model 5821W  | 1    |
| 6    | 24-2143R    | 3/8" x 119" Black 2W 9/16" JIC Hydraulic Hose               | 2    |
| 7    | 25-614      | 37 Flare 9/16(M) Union Tee Hydraulic Fitting                | 6    |
| 8    | 24-2144R    | 3/8" x 8" Black 2W 9/16" JIC Hydraulic Hose                 | 2    |
| 9    | 24-557R     | 1/4" x 83" Black 2W 9/16" JIC Hydraulic Hose - Model 5821W  | 1    |
|      | 24-560R     | 1/4" x 98" Black 2W 9/16" JIC Hydraulic Hose - Model 5824W  | 1    |
| 10   | 24-556R     | 1/4" x 77" Black 2W 9/16" JIC Hydraulic Hose - Model 5821W  | 1    |
|      | 24-559R     | 1/4" x 92" Black 2W 9/16" JIC Hydraulic Hose - Model 5824W  | 1    |
| 11   | 24-561R     | 1/4" x 141" Black 2W 9/16" JIC Hydraulic Hose - Model 5821W | 2    |
|      | 24-563R     | 1/4" x 156" Black 2W 9/16" JIC Hydraulic Hose - Model 5824W | 2    |
| 12   | 24-2142R    | 3/8" x 101" Black 2W 9/16" JIC Hydraulic Hose               | 2    |
| 13   | ★ 4990-77-0 | 3/8" x 95" Hose w/ Red/ Black Plastic Grip                  | 1    |
| 14   | ★ 4990-78-0 | 3/8" x 95" Hose w/ Yellow/Black Plastic Grip                | 1    |
| 15   | 62-108      | 3/8NC x 1" GD5 Cap Screw                                    | 10   |
| 16   | 63-102      | 3/8NC Hex Nut   | 10   |
| 17   | 64-103      | 3/8" STD. Lock Washer                                       | 10   |
| 18   | 25-158      | 1/2" I.D. Hose Clamp  | 16   |
| 19   | 25-1153     | 5/8" I.D. Hose Clamp  | 4    |

★ See page P21 for Parts Listing

# HYDRAULIC HOSE WITH PLASTIC GRIP ASSEMBLIES



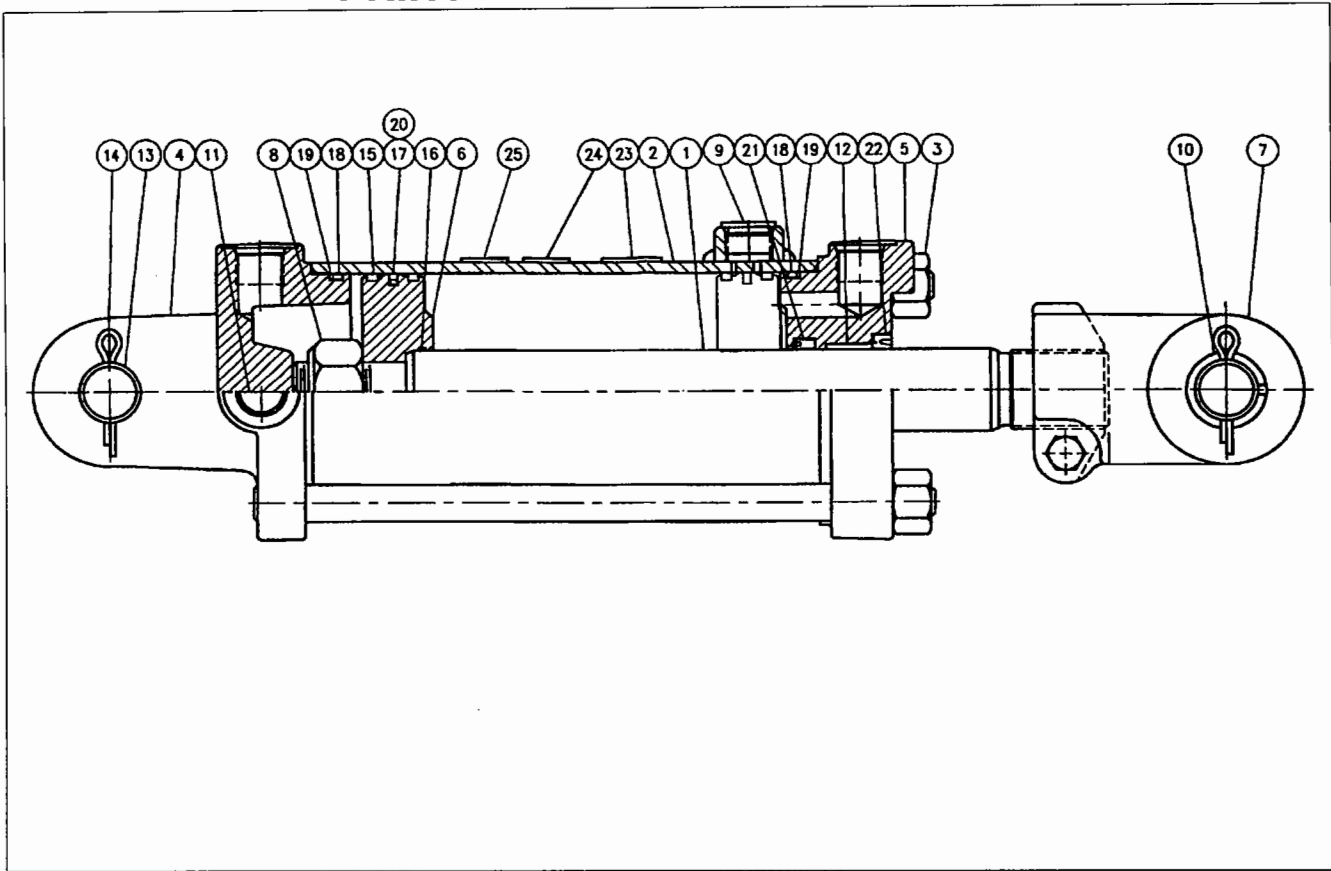
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Rev. 5/97

## FOR MODELS - ALL

4/02

| Item | Part Number | Part Description                                       | Qty. |
|------|-------------|--|------|
|      | 4990-75-0   | 1/2" x 95" 100R2 Hose with Red/Red Grip Assembly       | 1    |
| 1    | 24-330R     | 1/2" DIA. x 95" 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 95" 100R2 Hose with Yellow/Yellow Grip Assembly | 1    |
| 1    | 24-330R     | 1/2" DIA. x 95" 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 95" 100R2 Hose with Red/Black Grip Assembly     | 1    |
| 1    | 24-2105R    | 3/8" DIA. x 95" 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 95" 100R2 Hose with Yellow/Black Grip Assembly  | 1    |
| 1    | 24-2105R    | 3/8" DIA. x 95" 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    |

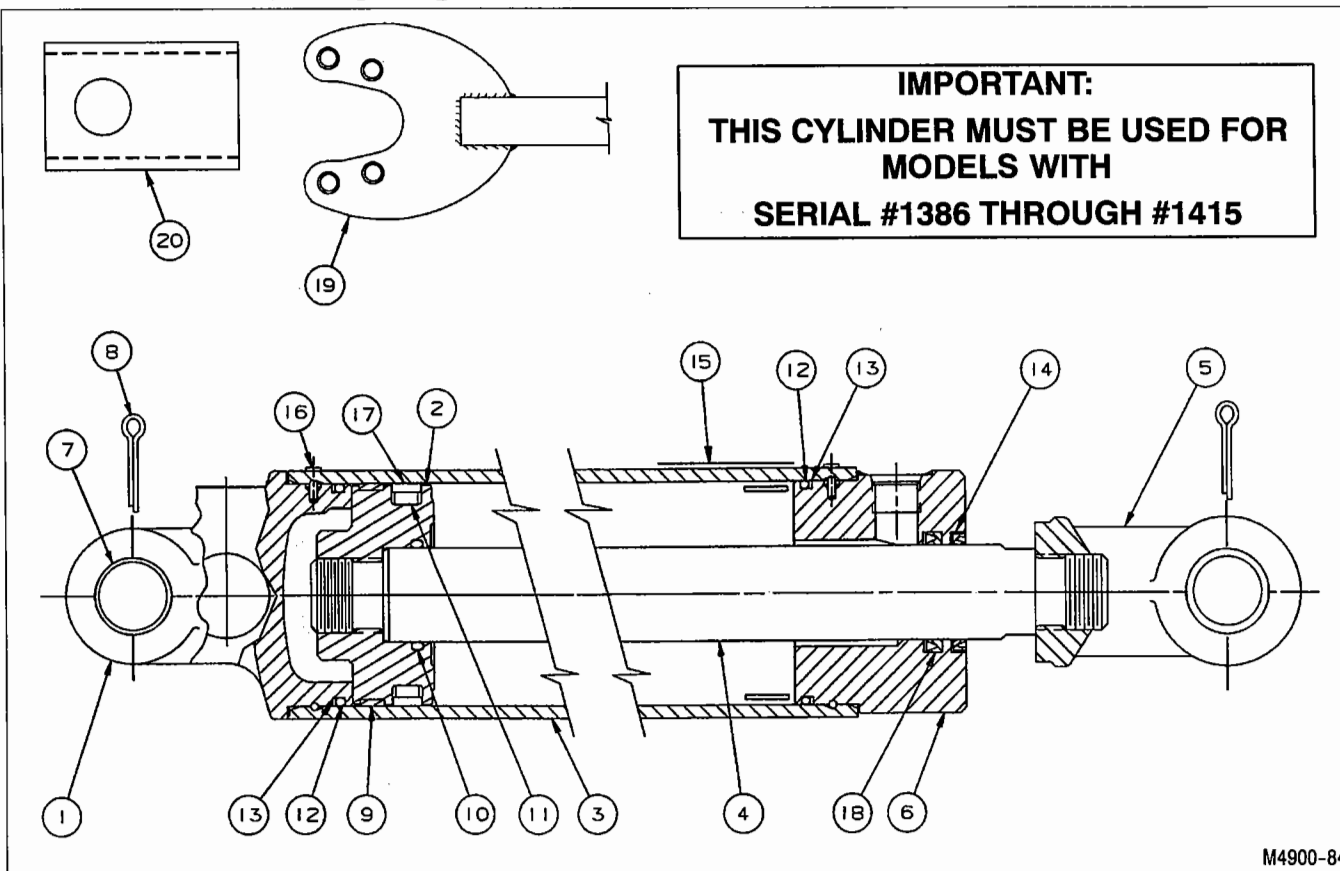
# PRINCE HYDRAULIC CYLINDER



**21-1007 4" X 10" PRINCE HYDRAULIC CYLINDER ASSEMBLY (Series) 5/05**  
**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 Assembly                              | 1    |
| 3    | 21-381      | Tie Rod Assembly                           | 4    |
| 4    | 21-337      | Butt                                       | 1    |
| 5    | 21-810      | Gland                                      | 1    |
| 6    | 21-811      | Piston                                     | 1    |
| 7    | 21-2126     | Clevis Assembly                            | 1    |
| 8    | 21-225      | Lock Nut                                   | 1    |
| 9    | 21-702      | ORB Plug                                   | 1    |
| 10   | 21-2127     | Bushing                                    | 2    |
| 11   | 21-404      | #8 SAE Plug                                | 3    |
| 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)         |      |
| 26   | 4987-0-22   | Spacer (Not included in cylinder assembly) | 1    |

# EATON SERIES HYDRAULIC CYLINDER

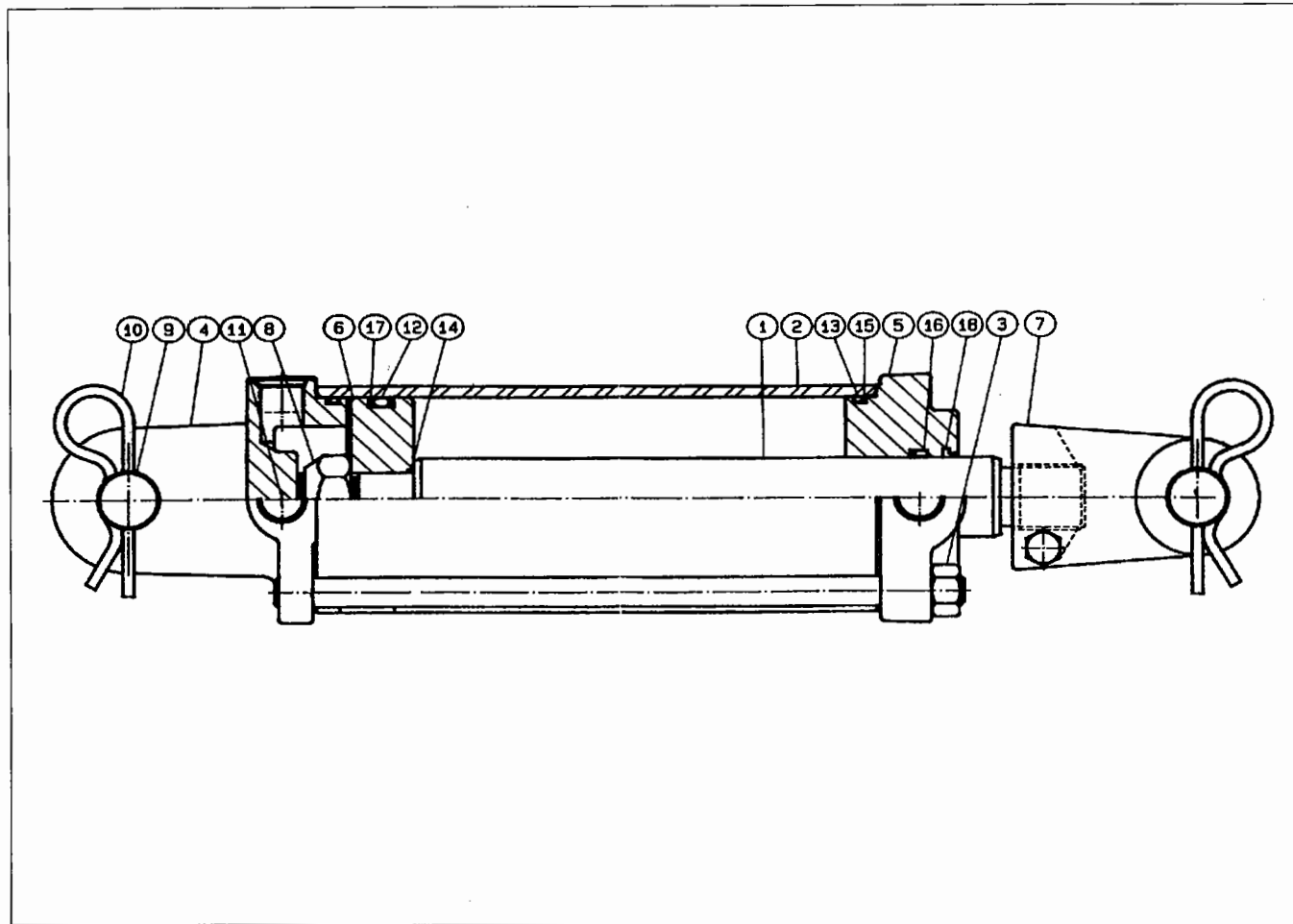


**22-109**      **4" X 10"**      **EATON HYDRAULIC CYLINDER ASSEMBLY (Series)**      **11/99**  
**Retracted - 22-1/4"**      **Extended - 32-1/4"**      **Stroke - 10"**      **Rod Diameter - 1-3/8"**

| Item | Part Number | Part Description                   | Qty. |
|------|-------------|------------------------------------|------|
| 1    | 22-517      | Head                               | 1    |
| 2    | 22-602      | Piston                             | 1    |
| 3    | 22-525      | Barrel                             | 1    |
| 4    | 22-609      | Piston Rod                         | 1    |
| 5    | 22-521WS    | Rod End, Hardened                  | 1    |
| 6    | 22-522      | Bearing                            | 1    |
| 7    | 22-508      | Clevis Pin                         | 2    |
| 8    |             | 3/16" DIA. x 2" Cotter Pin         | 2    |
| 9    | ★           | Wear Ring                          | 1    |
| 10   | ★           | O-Ring                             | 1    |
| 11   | ★           | Loader Ring                        | 1    |
| 12   | ★           | O-Ring                             | 2    |
| 13   | ★           | Back-Up Washer                     | 2    |
| 14   | ★           | Wiper Seal                         | 1    |
| 15   | 74-113      | Cylinder Warning Decal             | 1    |
| 16   | ★           | Lock Ring                          | 2    |
| 17   | ★           | Slipper Ring                       | 1    |
| 18   | ★           | Rod Seal                           | 1    |
|      | ● 4901-79-0 | Eaton Cylinder Tool Kit            | 1    |
| 19   |             | Spanner Wrench                     | 1    |
| 20   |             | Clevis Stop                        | 1    |
|      | ● 22-637    | Seal Kit (★ Items Included in Kit) |      |

● Not Included in Cylinder Assembly

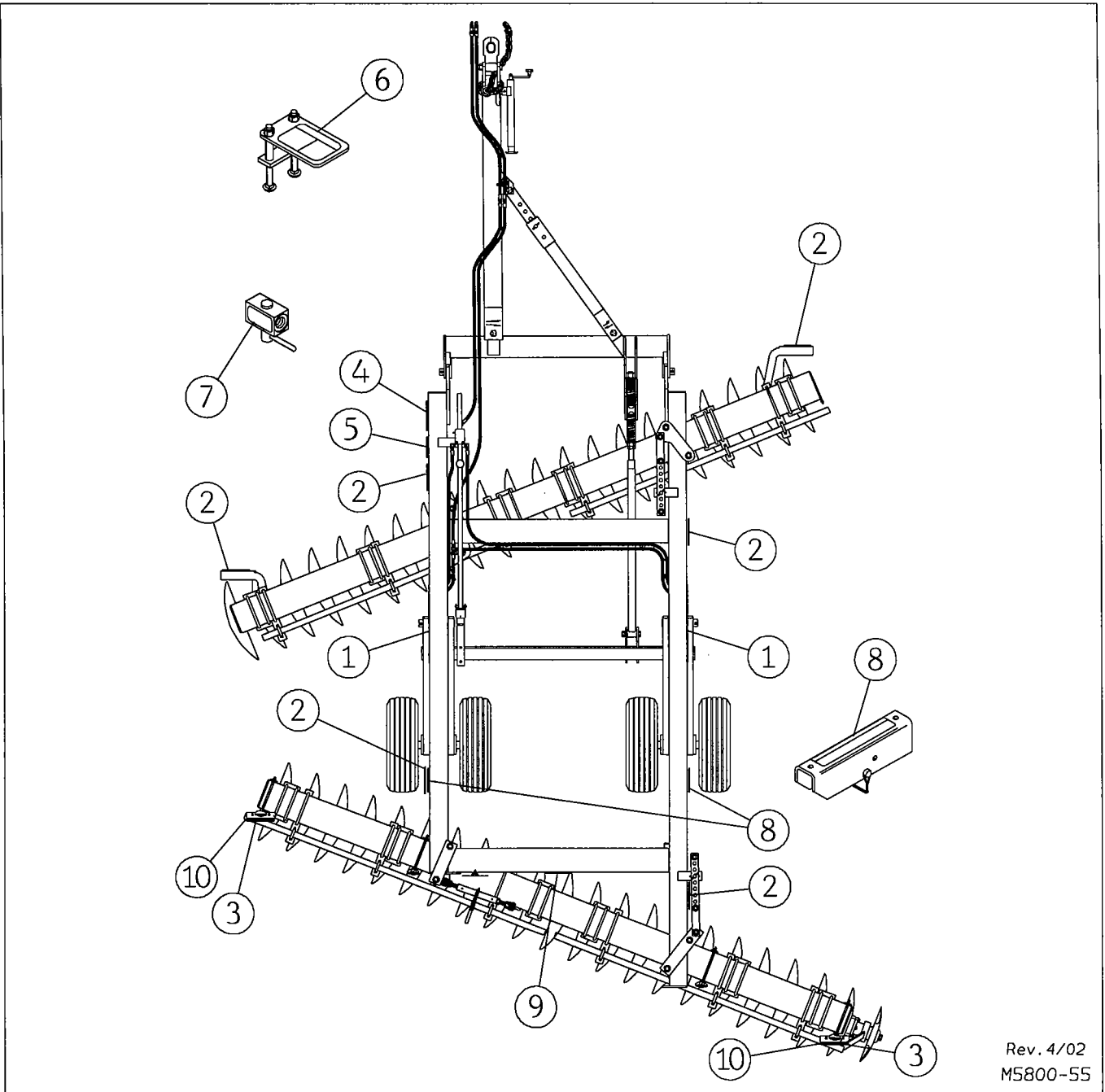
# PRINCE HYDRAULIC CYLINDER



**21-157 3-1/2" X 18" PRINCE HYDRAULIC CYLINDER ASSEMBLY (STD.PS) 4/02**  
**Retracted - 28-1/4" Extended - 46-1/4" Stroke - 18" Rod Diameter - 1-3/8"**

| Item | Part Number | Part Description                   | Qty. |
|------|-------------|------------------------------------|------|
| 1    | 21-724      | Piston Rod                         | 1    |
| 2    | 21-725      | Tube                               | 1    |
| 3    | 21-726      | Tie Rod Assembly                   | 4    |
| 4    | 21-421      | Butt                               | 1    |
| 5    | 21-727      | Gland                              | 1    |
| 6    | 21-728      | Piston                             | 1    |
| 7    | 21-799      | Clevis Assembly                    | 1    |
| 8    | 21-463      | Lock Nut                           | 1    |
| 9    | 21-2141     | Clevis Pin                         | 2    |
| 10   |             | Cotter Pin                         | 4    |
| 11   | 21-404      | #8 SAE Plug                        | 3    |
| 12   | ★           | O-Ring                             | 1    |
| 13   | ★           | O-Ring                             | 2    |
| 14   | ★           | O-Ring                             | 1    |
| 15   | ★           | Back-Up Washer                     | 2    |
| 16   | ★           | U-Cup                              | 1    |
| 17   | ★           | Back-Up Washer                     | 2    |
| 18   | ★           | Wiper                              | 1    |
| 19   | 74-113      | Cylinder Warning Decal (not shown) | 1    |
|      | ● 21-733    | Seal Kit (★ Items Included in Kit) |      |
|      | ●           | Not Included in Cylinder Assembly  |      |

# DECALS - RIGID MODELS



Rev. 4/02  
M5800-55

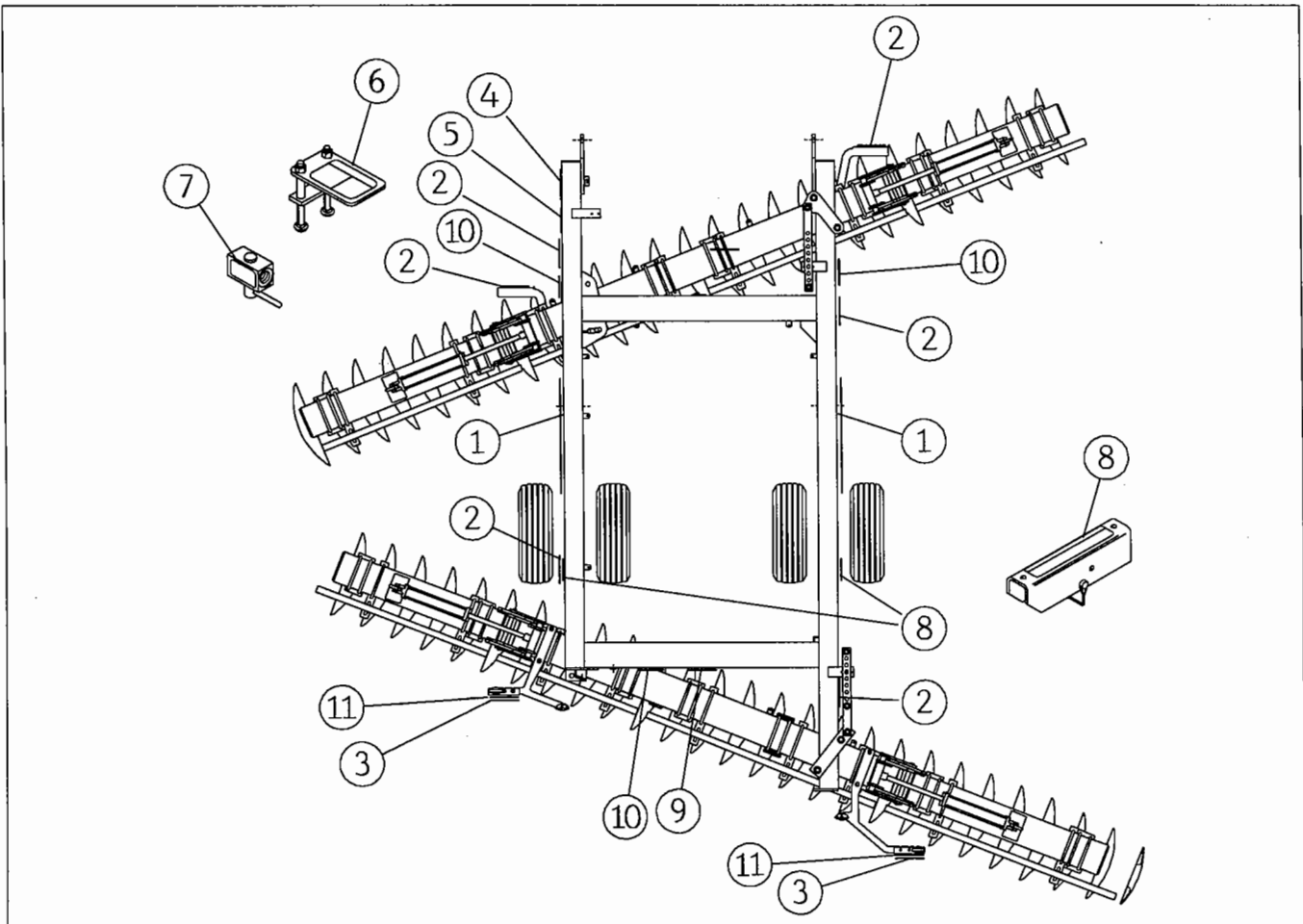
**FOR MODELS - 5812, 5814, 5815, 5817, 5819, 5820**

**4/02**

| Item | Part Number | Part Description                 | Qty. |
|------|-------------|----------------------------------|------|
| 1    | 74-101      | KRAUSE Decal                     | 2    |
| 2    | 74-577      | Reflector Tape, Yellow           | 6    |
| 3    | 74-575      | Reflector Tape, Red              | 2/4★ |
| 4    | 74-117      | Implement Safety Decal           | 1    |
| 5    | 74-276      | WARNING - Hydraulic Safety Decal | 1    |
| 6    | 74-348      | Pinch Point Decal                | 1    |
| 7    | 74-385      | Transport Lock Decal             | 2    |
| 8    | 74-387      | Warning Lock Channels Decal      | 4    |
| 9    | 74-428      | 5800 SERIES Decal                | 1    |
| 10   | 74-576      | Fluorescent Tape, Orange         | 2/4★ |

★ Quantity for Models 5817, 5819, 5820 see pages P27 & A22 for correct locations

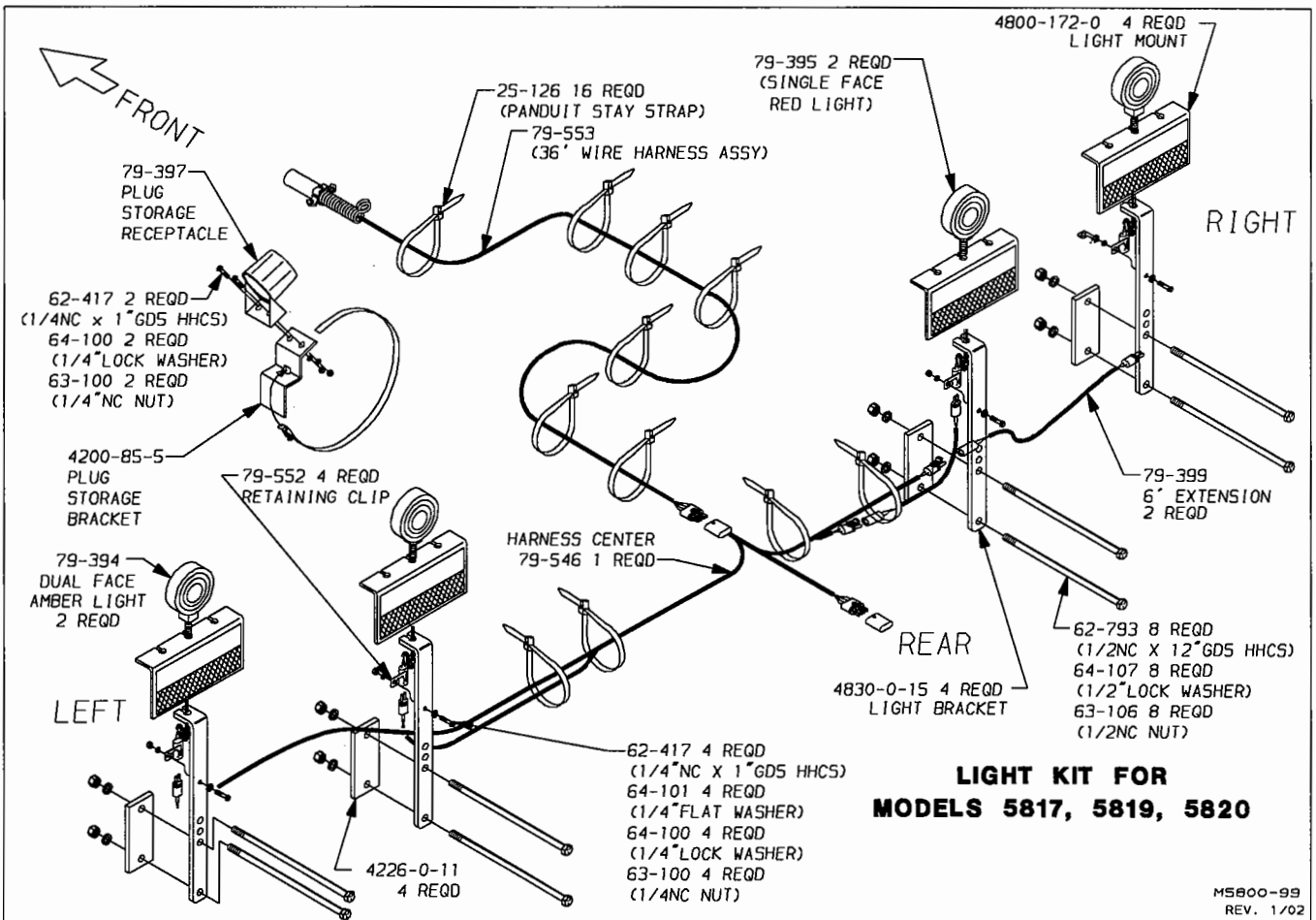
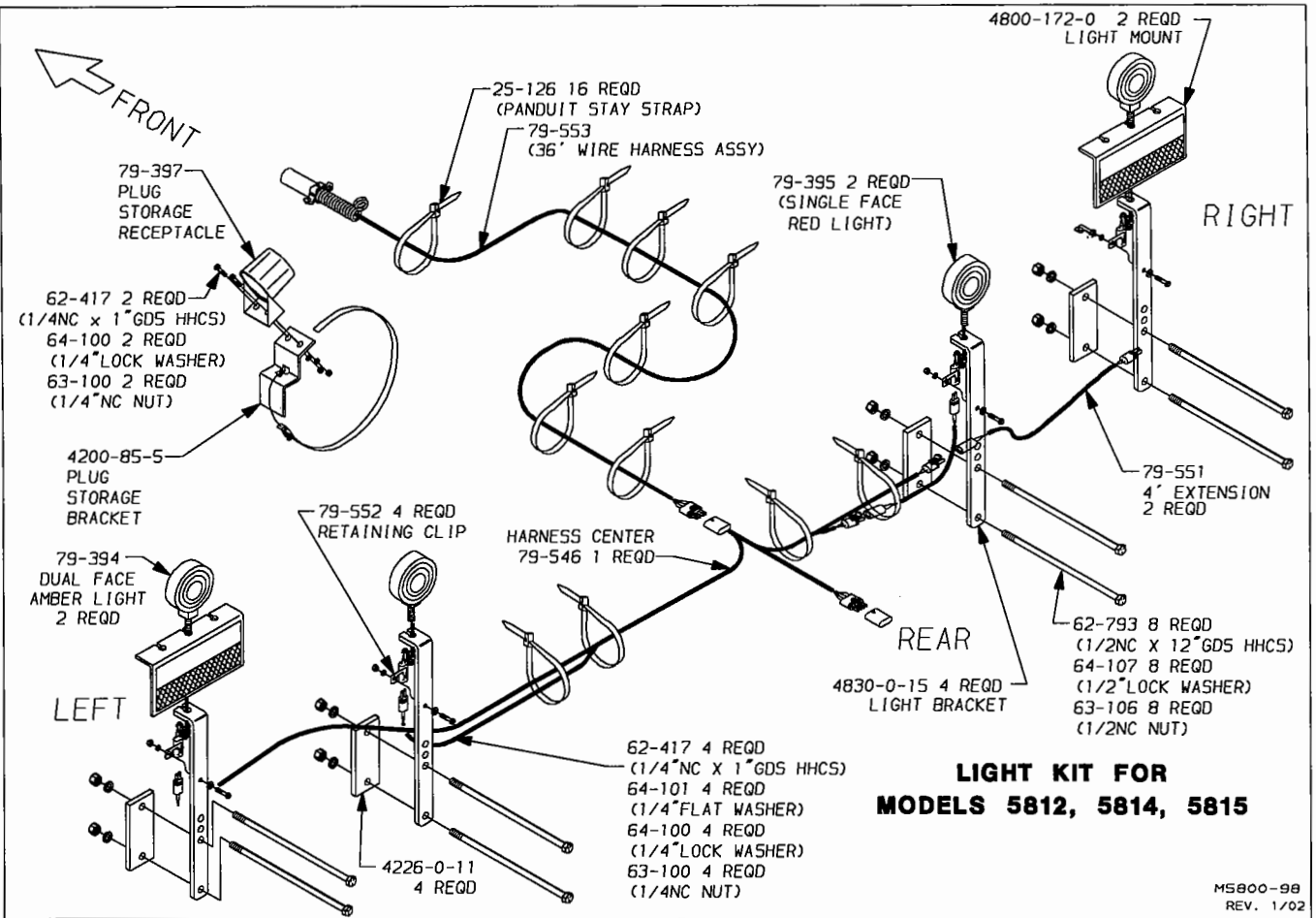
## DECALS - WING FOLD MODELS



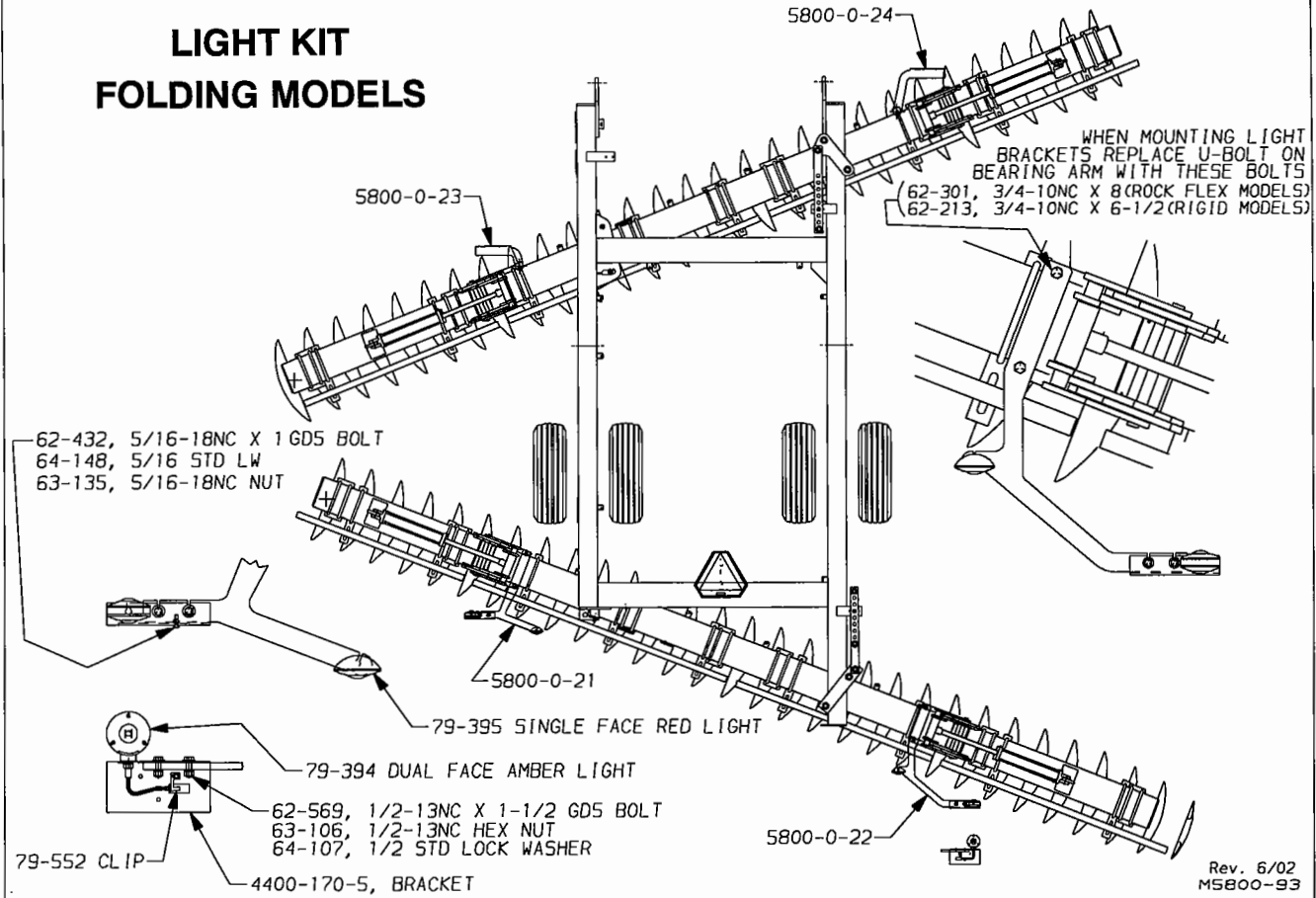
**FOR MODELS - 5821, 5824**

4/02

| Item | Part Number | Part Description                    | Qty. |
|------|-------------|-------------------------------------|------|
| 1    | 74-101      | KRAUSE Decal                        | 2    |
| 2    | 74-577      | Reflector Tape, Yellow              | 6    |
| 3    | 74-575      | Reflector Tape, Red                 | 2    |
| 4    | 74-117      | Implement Safety Decal              | 1    |
| 5    | 74-276      | WARNING - Hydraulic Safety Decal    | 1    |
| 6    | 74-348      | Pinch Point Decal                   | 1    |
| 7    | 74-385      | Transport Lock Decal                | 2    |
| 8    | 74-387      | Warning Lock Channels Decal         | 4    |
| 9    | 74-428      | 5800 SERIES Decal                   | 1    |
| 10   | 74-102      | Decal, WARNING Stand Clear of Wings | 3    |
| 11   | 74-576      | Fluorescent Tape, Orange            | 2    |
|      |             |                                     |      |
|      |             |                                     |      |
|      |             |                                     |      |
|      |             |                                     |      |

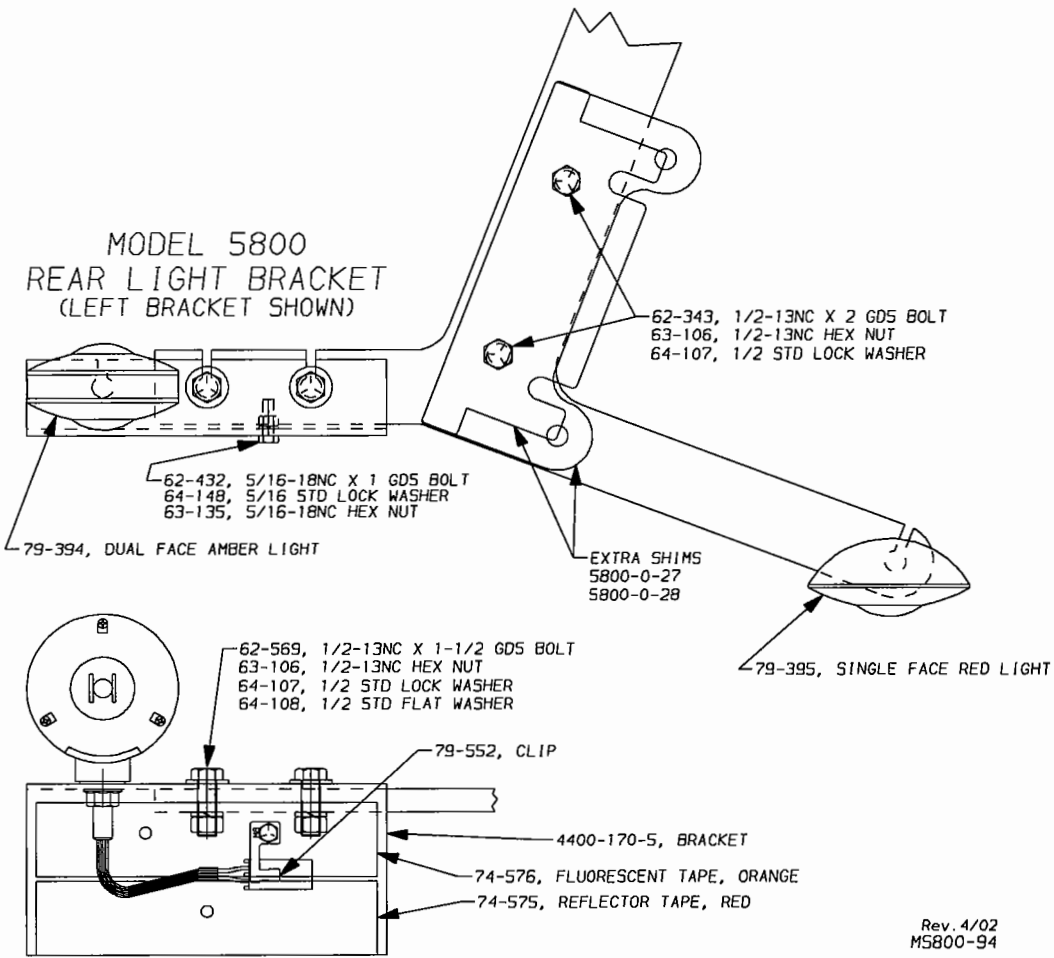


# LIGHT KIT FOLDING MODELS



Rev. 6/02  
M5800-93

## MODEL 5800 REAR LIGHT BRACKET (LEFT BRACKET SHOWN)



Rev. 4/02  
M5800-94

# ASSEMBLY SECTION

THE FOLLOWING SECTION ILLUSTRATES A GENERAL METHOD FOR THE ASSEMBLY OF THIS SERIES KRAUSE TILLAGE TOOL. YOU MUST KNOW THE MODEL NUMBER OF THE UNIT BEING ASSEMBLED WHENEVER MAKING REFERENCE TO THIS SECTION. THE FOLLOWING PICTURES AND DRAWINGS WILL SHOW BOLTS, PINS, NUTS AND ETC., WITH THE DESCRIPTIVE SIZE AND LENGTHS IN THE ACCOMPANYING PARAGRAPH AND A PARTS LISTING REFERENCE PAGE NUMBER. IF ANY DIFFICULTY SHOULD BE ENCOUNTERED DURING THE ASSEMBLY, RECHECK THE ILLUSTRATIONS, ASSEMBLY STEPS AND PARTS LIST DRAWINGS.

# 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.

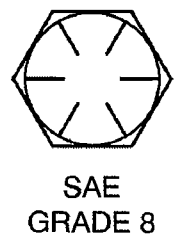
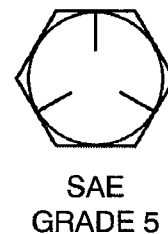
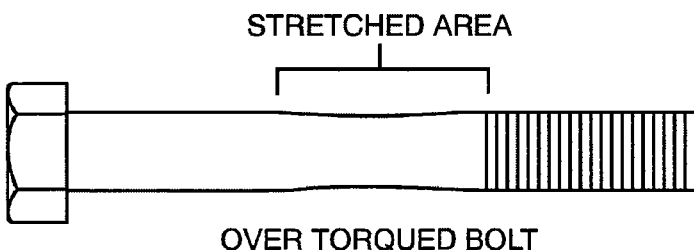
Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade.

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.

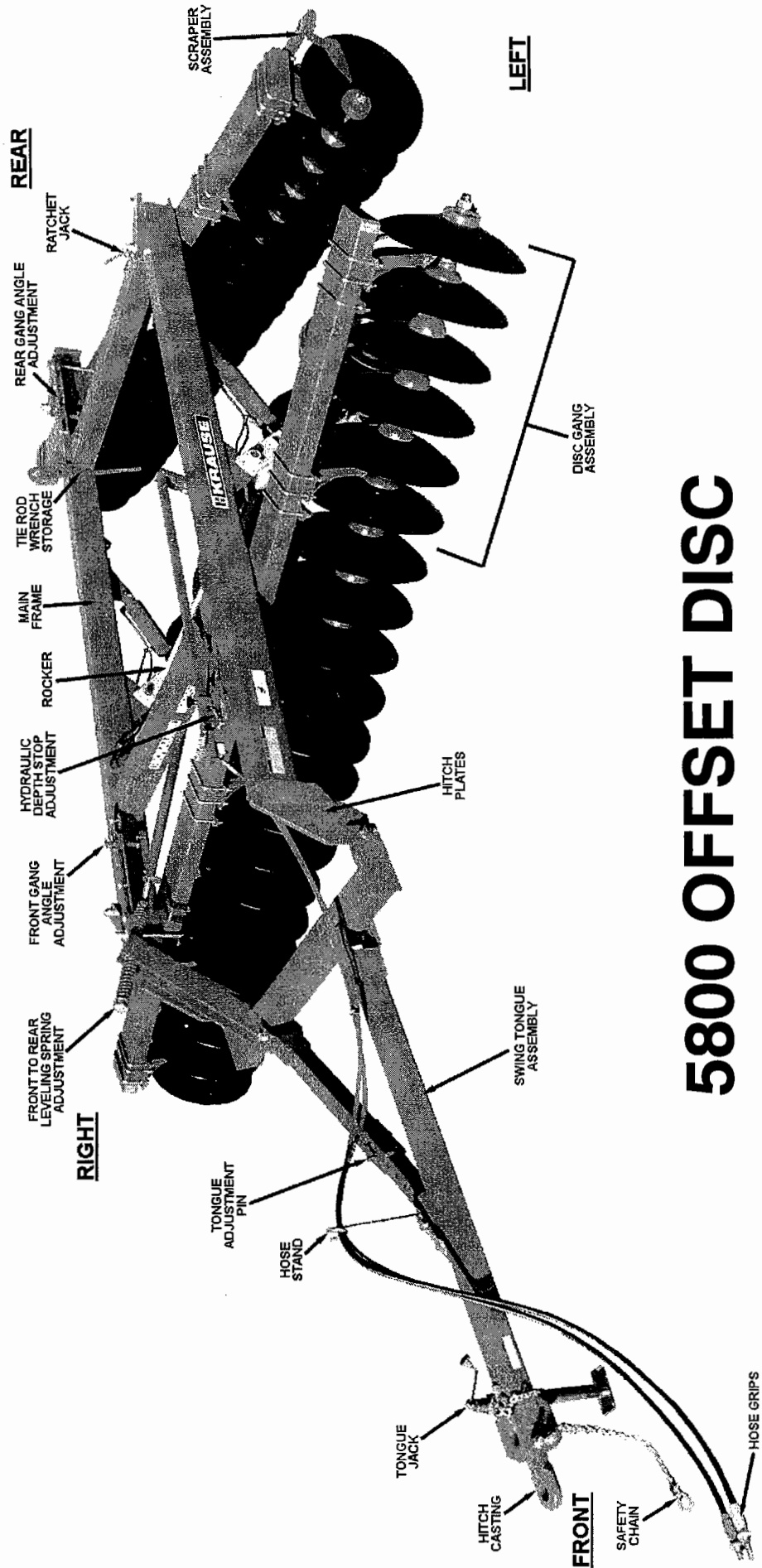
**NOTE:** "Lubricated" means coated with a lubricant such as engine oil, or fasteners with phosphate and oil coatings. "Dry" means plain or zinc plated without any lubrication. **Tighten lubricated bolts to approximately 80% of dry bolts.**

| 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    |





# 5800 OFFSET DISC



M5800-54

# ASSEMBLY INSTRUCTIONS

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

## SAFETY



**READ ALL OF THE SAFETY NOTATIONS IN THE ASSEMBLY INSTRUCTIONS FOR YOUR PROTECTION. ACCIDENTS CAN BE PREVENTED BY RECOGNIZING THE CAUSE OF AN ACCIDENT BEFORE IT CAN HAPPEN.**

## ASSEMBLY AREA

Select an area for assembly that will be large enough to accommodate the completed implement. 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 for different size bolts.

## PART LOCATIONS

FRONT - the front of the frame can be determined by the location of the hitch plates.

RIGHT and LEFT sides can be established by standing behind the frame and looking toward the front, or the direction of travel.

TOP - To be sure that the frame is right side up, position the frame with the rocker pivots on the bottom side.



**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. The 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 MAIN FRAME WELDMENT WHICH WEIGHS 1,720 LBS.

## MODEL NUMBER

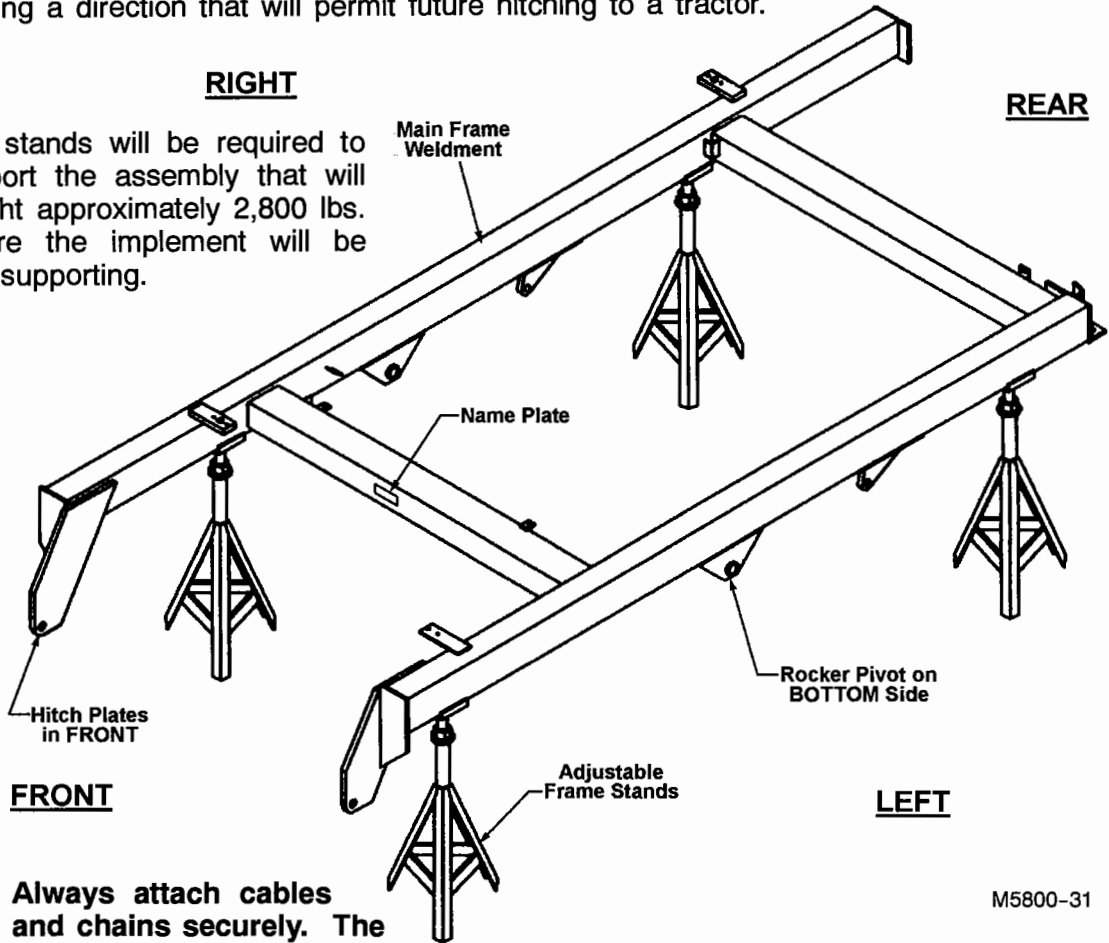
Know the model number of the disc being assembled. Use the model number whenever referring to the assembly, parts listings or placement pages. The number is stamped on the Name Plate which is located on the front frame member of the offset disc.



# I. FRAME, TONGUE, AND ROCKER ASSEMBLY

1. Place the frame assembly on stands approximately 50" high in the center of the assembly area, facing a direction that will permit future hitching to a tractor.

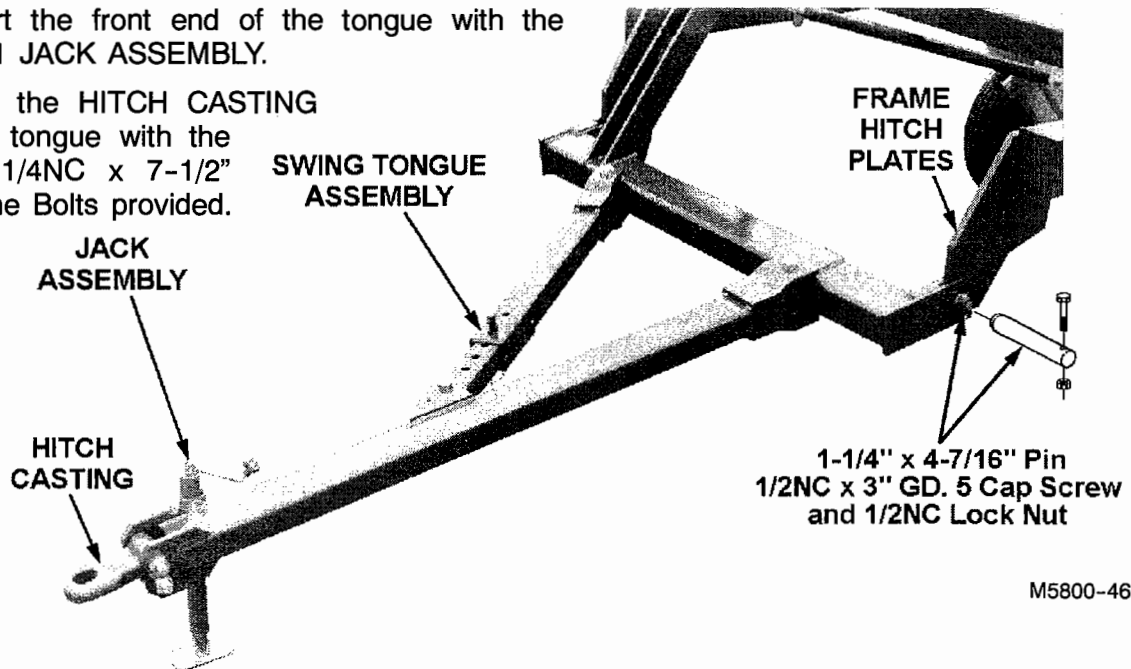
**NOTE:** The stands will be required to support the assembly that will weight approximately 2,800 lbs. before the implement will be self-supporting.



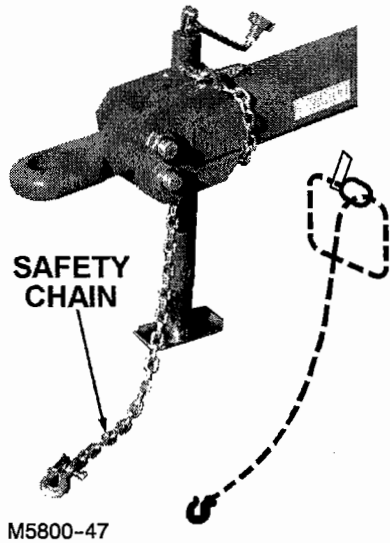
**Caution:** Always attach cables and chains securely. The sudden release of a cable or chain under tension can cause injury to persons standing nearby.

M5800-31

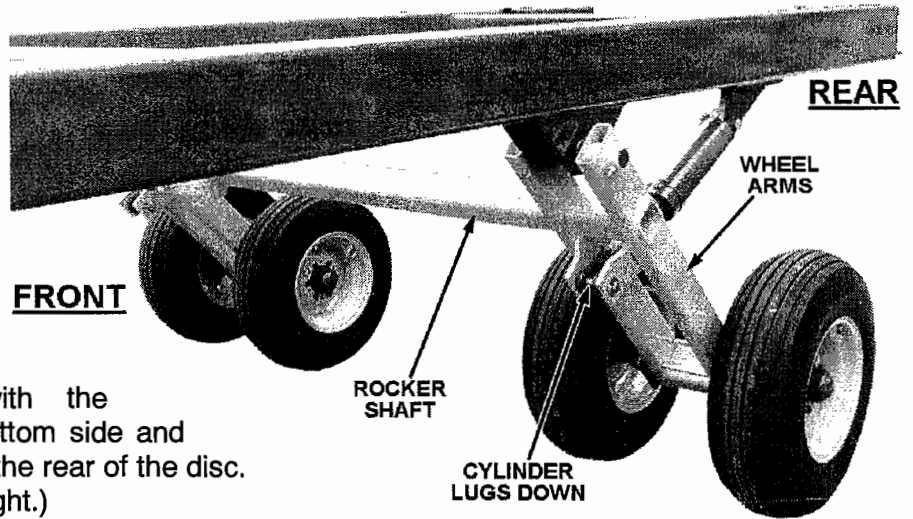
2. Attach rear end of the 5800-19-0 SWING TONGUE ASSEMBLY to the frame hitch plates with (2) 5800-0-5 1-1/4" DIA. x 4-7/16" PINS, (2) 1/2NC x 3" GD. 5 Cap Screws, and (2) 1/2NC Self Locking Nuts.
3. Support the front end of the tongue with the 73-101 JACK ASSEMBLY.
4. Fasten the HITCH CASTING to the tongue with the (2) 1-1/4NC x 7-1/2" Machine Bolts provided.



M5800-46

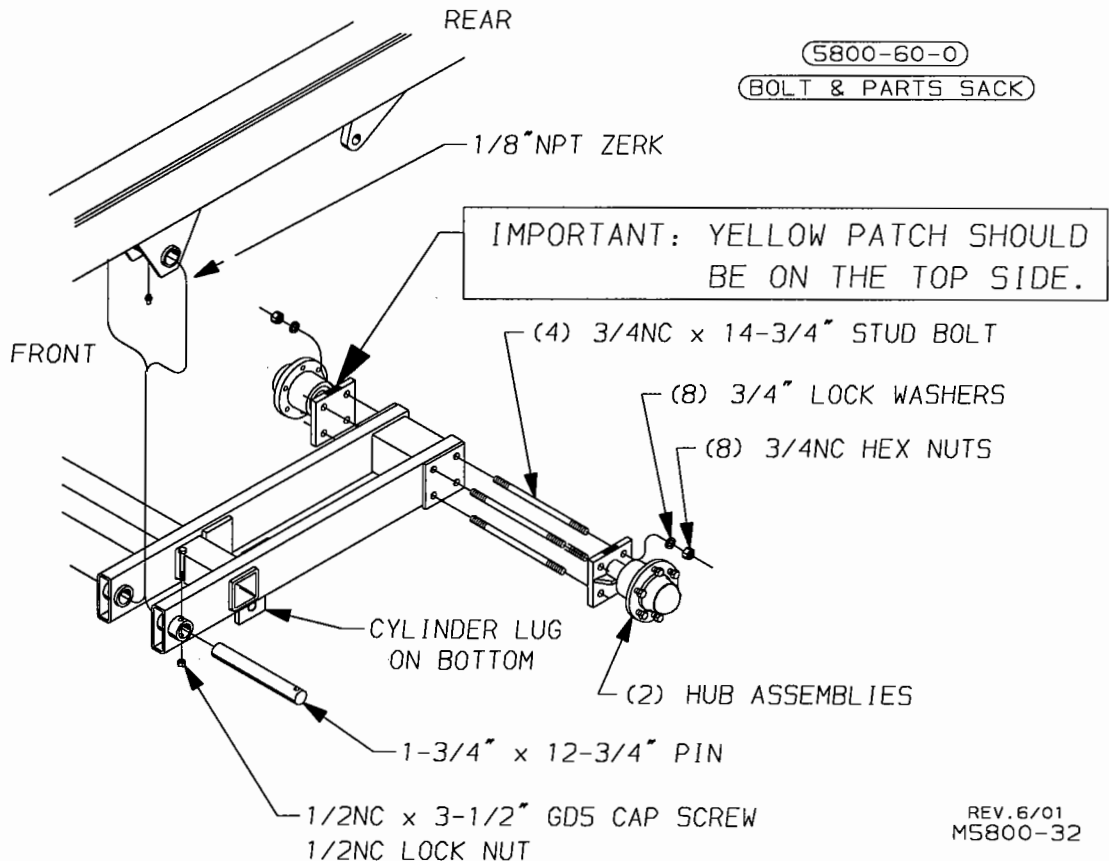


- Attach the SAFETY CHAIN to the tongue by looping the chain around the tongue frame, through the end loop, and down behind the hitch casting.



- Position the **ROCKER SHAFT** (part #5800-10-0B) under the frame with the cylinder lugs on the bottom side and the wheel arms toward the rear of the disc. (See photograph at right.)

- Pin the 5800-10-0B **ROCKER SHAFT WELDMENT** to the main frame with a 4987-0-1 (1-3/4" x 12-3/4" PIN), a 1/2NC x 3-1/2" GD. 5 Cap Screw and a 1/2NC Self Locking Nut.

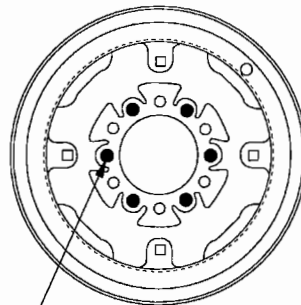
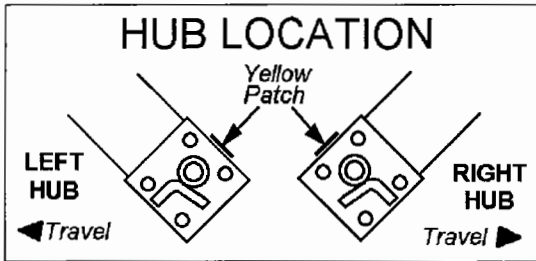
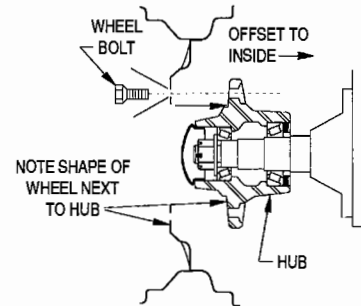


REV. 6/01  
M5800-32

8. Assemble the HUBS to the wheel arm with (4) 3/4NC x 14-3/4" STD. Lock Washers and (8) 3/4" STD. Hex Nuts. **MAKE SURE THAT THE YELLOW PATCH IS ON THE TOP SIDE AS SHOWN BELOW.**

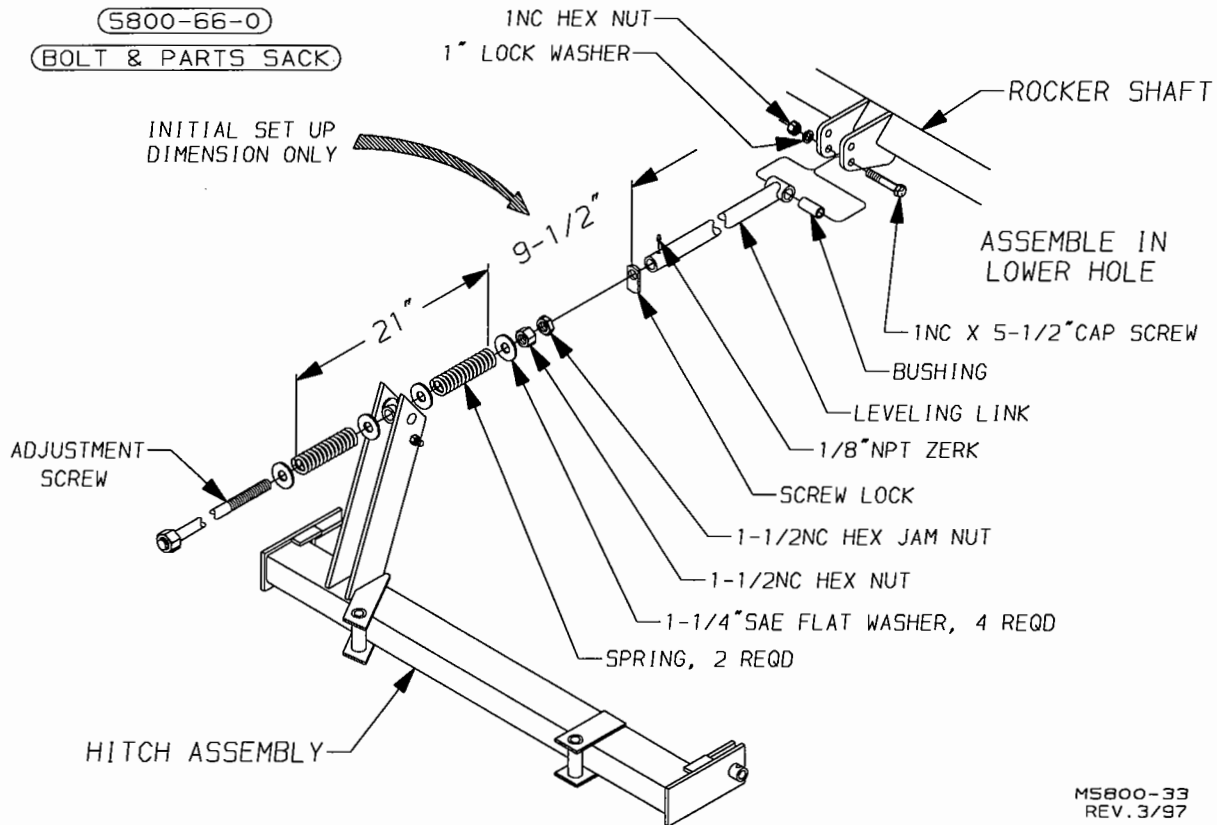
9. Remove the wheel bolts from each hub and attach the wheels and tires to the hubs through the countersunk bolt holes as shown.

**INFLATE ALL 11L X 15 8-PLY TIRES TO 36 PSI**



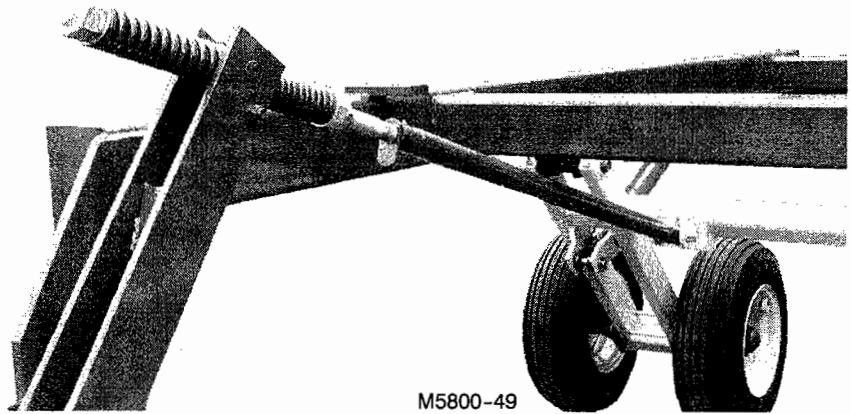
ALWAYS BOLT WHEEL TO HUB THROUGH COUNTERSUNK HOLES.

**IMPORTANT TORQUE ALL WHEEL BOLTS TO 120 FT. LBS.**



M5800-33 REV. 3/97

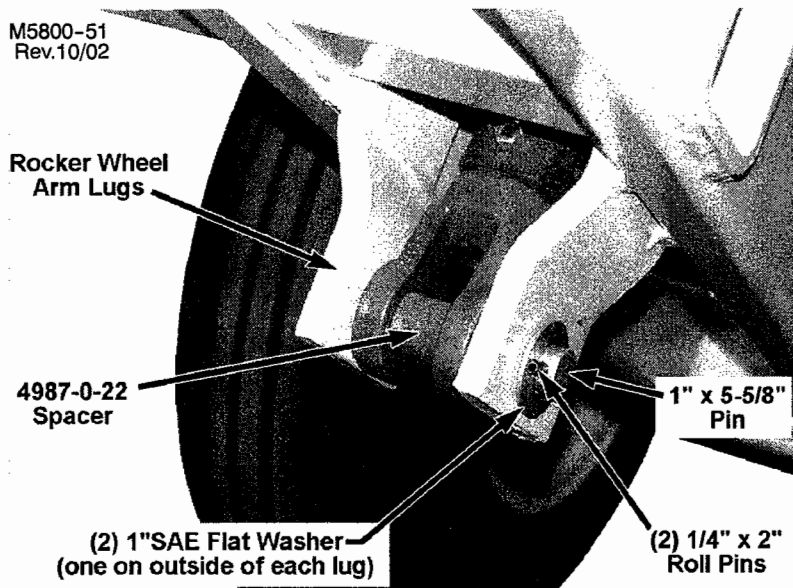
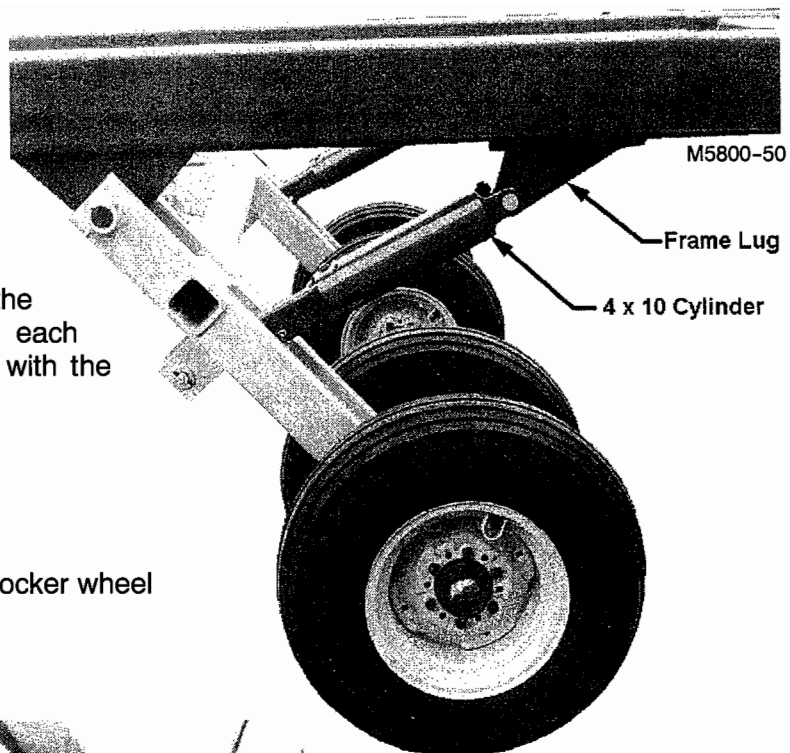
10. Assemble the leveling link parts to the Hitch and Rocker as shown. Make sure the link is attached to the lower rocker hole. Set the spring length at 21" end to end. Adjust the screw in or out of the link until there is approximately 9-1/2" from the spring to the screw lock.



M5800-49

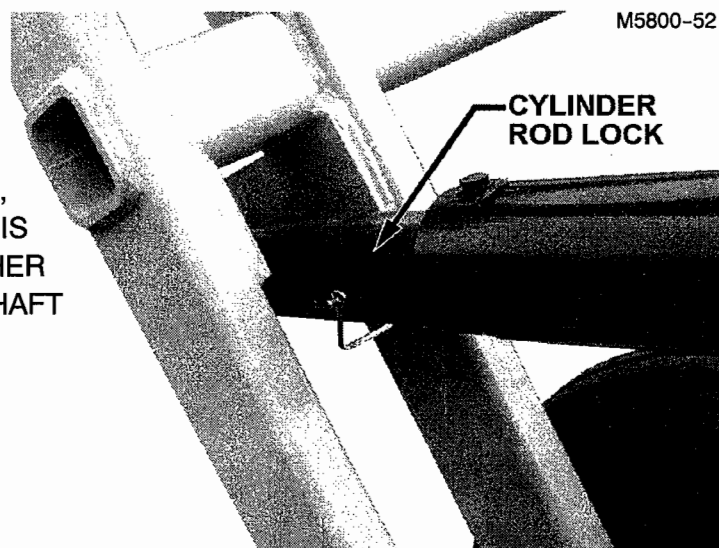
- Assemble the base end of the 22-109 4" x 10" CYLINDER to each frame lug with the pin provided with the cylinder.

Fasten the rod end clevis to the rocker wheel arm lug. (See photo below)

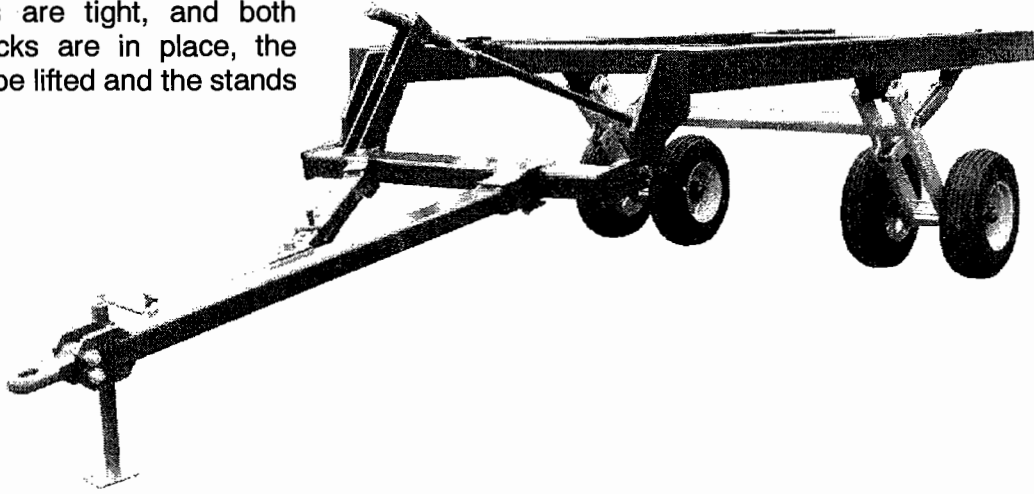


- Attach a CYLINDER LOCK (part #5800-17-0) to each cylinder rod end. Lock it in place with a P.T.O. Pin under the cylinder rod.

**IMPORTANT; IF (1) CYLINDER LOCK IS ON THE CYLINDER ROD, AND THE OTHER LOCK IS LEFT OFF OF THE OTHER CYLINDER, ROCKER SHAFT DAMAGE MAY OCCUR.**



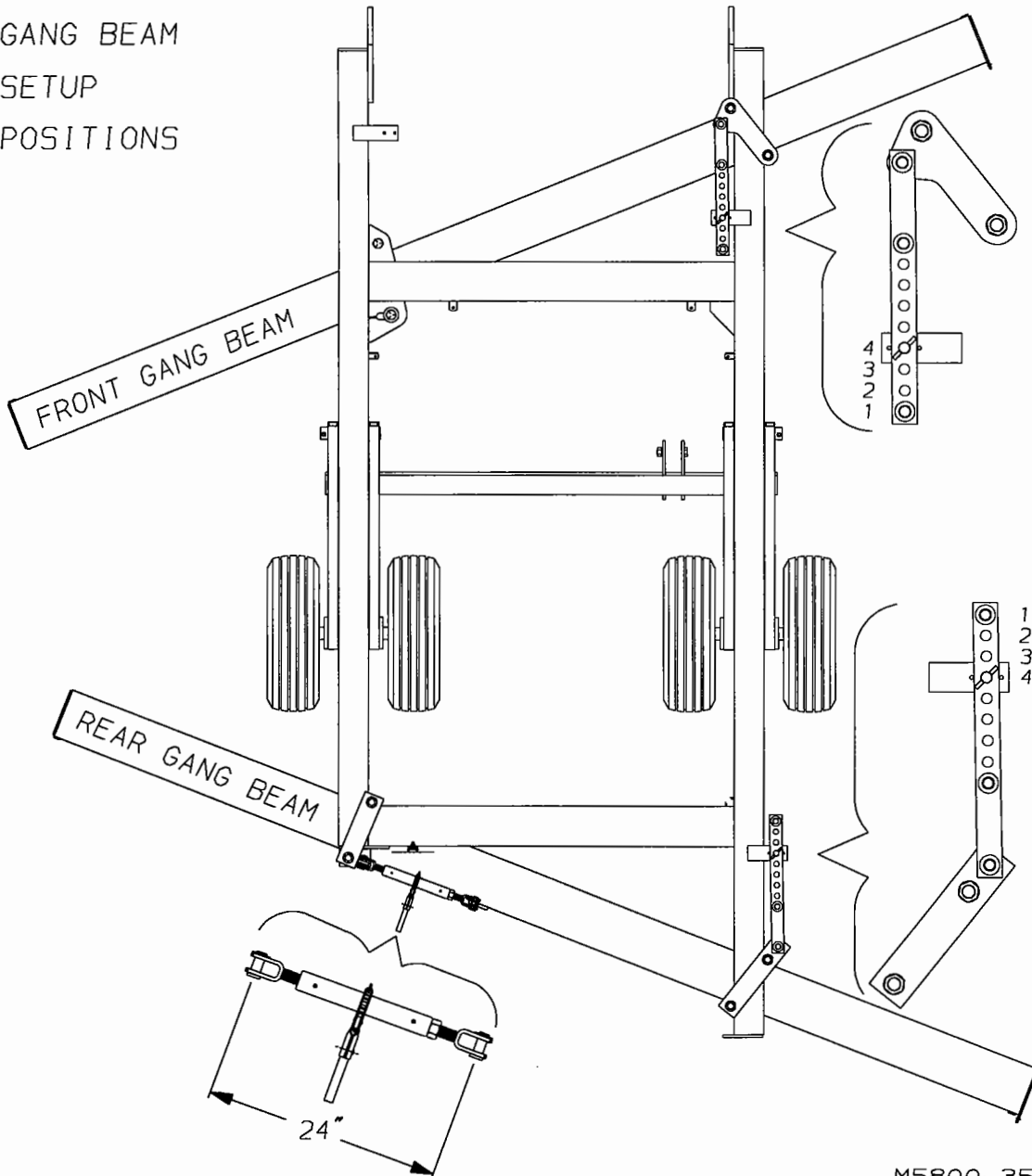
13. If all bolts are tight, and both cylinder locks are in place, the frame can be lifted and the stands removed.



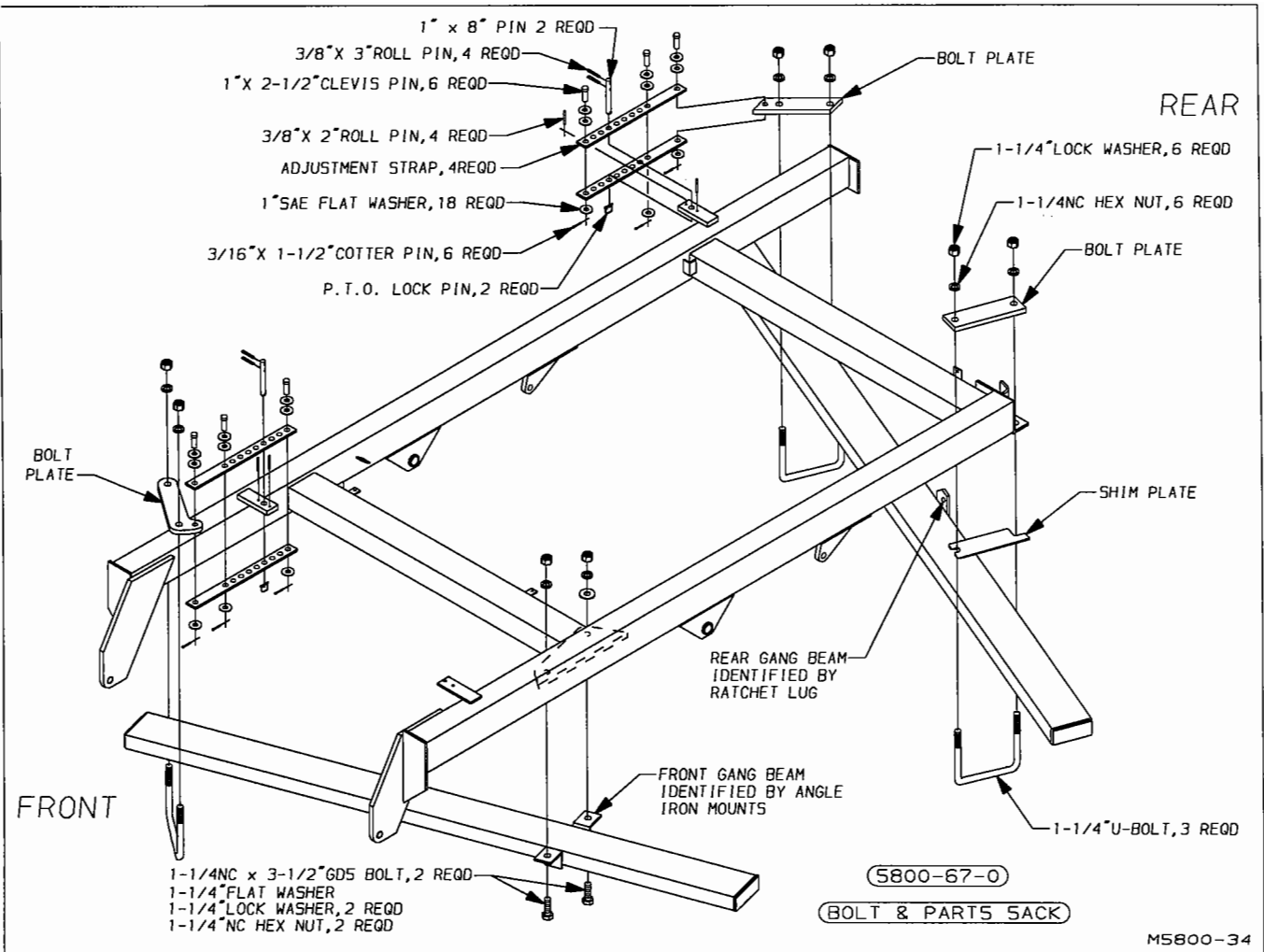
## II. GANG BEAM ASSEMBLY

The drawing below illustrates the front and rear gang angle set-up positions. It also gives the ratchet dimension which locates the rear gang beam.

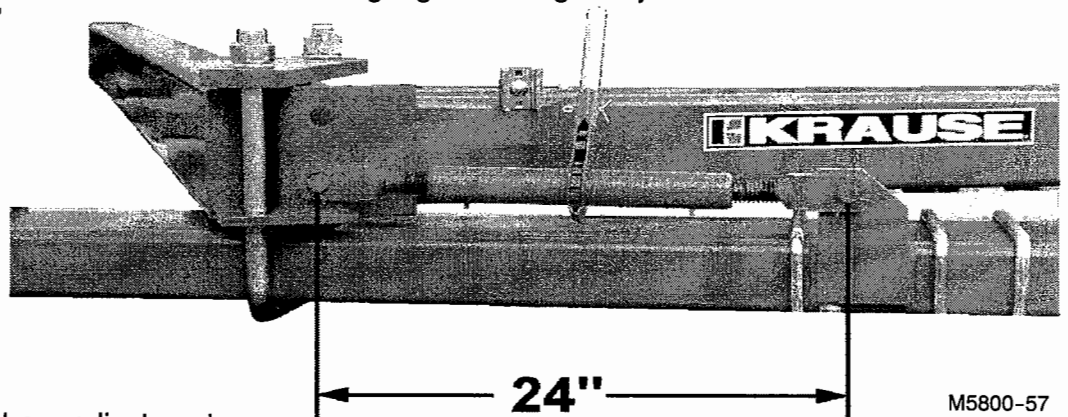
GANG BEAM  
SETUP  
POSITIONS



M5800-35



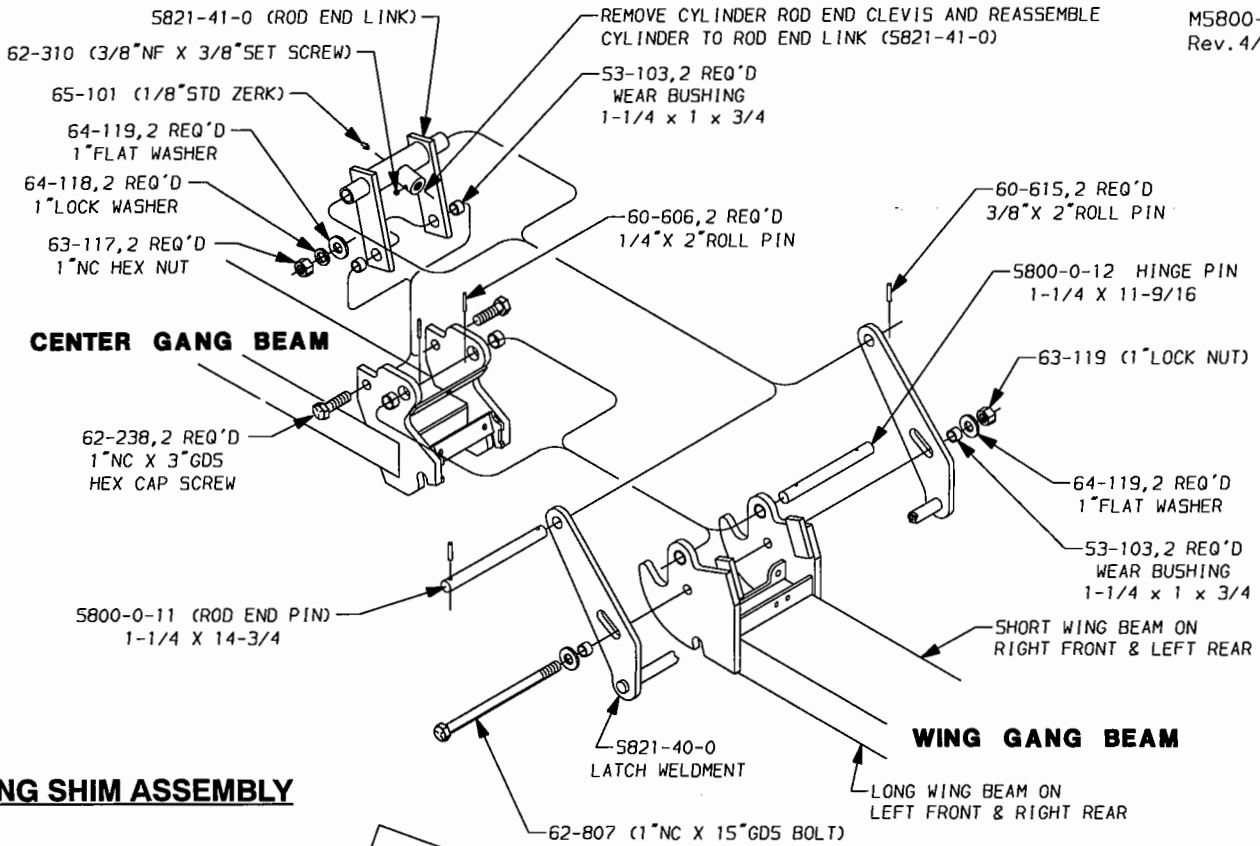
1. Identify the Front Gang Beam by the angle iron mounts. Fasten the angle iron mounts to the left front frame plate with (2) 1-1/4NC x 3-1/2" Bolts. Attach the right end to the frame with a 1-1/4" DIA. U-Bolt and a 5800-0-2 Bolt Plate. DO NOT TIGHTEN.
2. Identify the Rear Gang Beam by the Ratchet Lug. Locate the lug on the left rear side. Attach the left end to the frame with a 1-1/4" U-Bolt, a 5800-0-4 SHIM, and a 5800-0-3 Bolt Plate. Attach the right end with a 1-1/4" U-Bolt, and a 5800-0-10 Bolt Plate. DO NOT TIGHTEN.
3. Pin the Ratchet Jack to the frame and gang beam lug. Adjust the center to center ratchet length to 24"



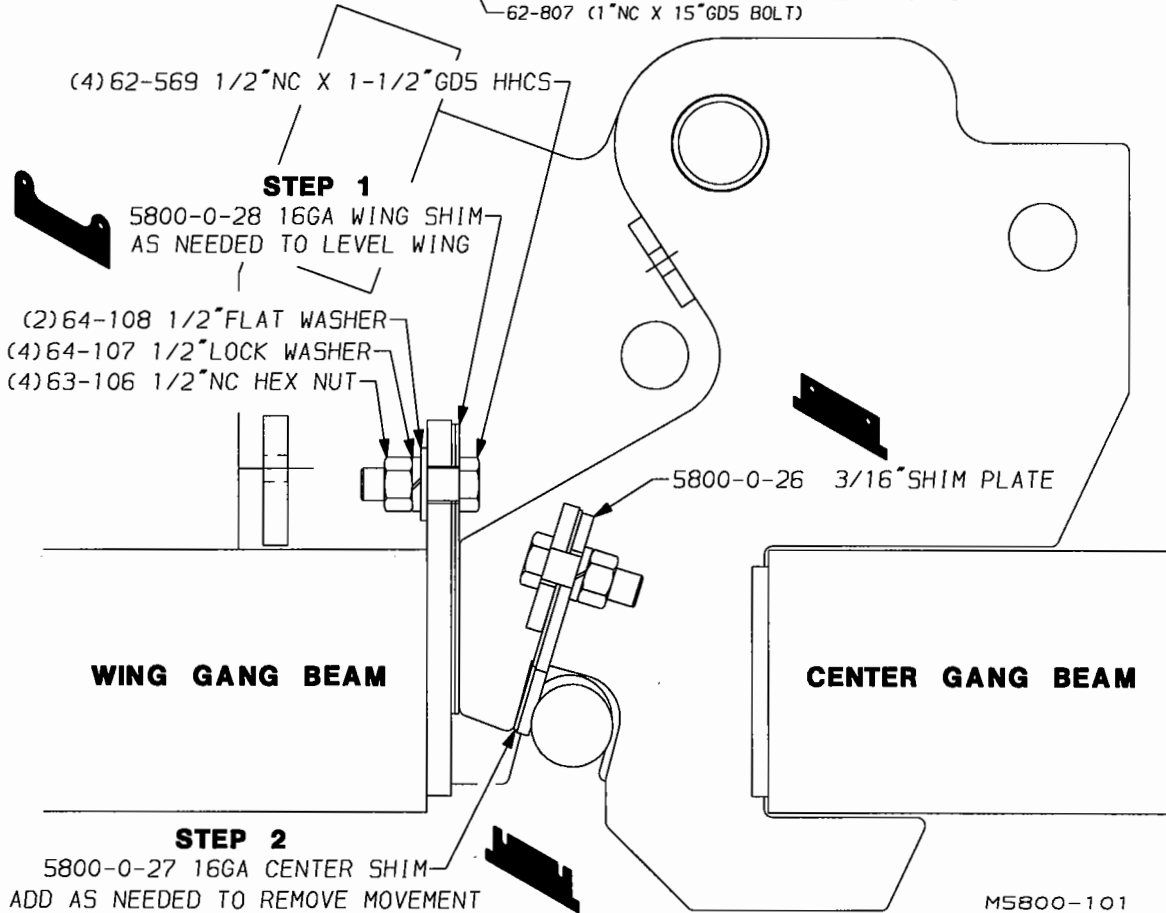
4. Assemble the adjustment straps to the front and right rear frame lugs as shown on page A8 and A9. Use position 4. Make sure that 3/8"DIA. x 2" Roll Pins are driven into frame lugs on each side of the adjustment straps.
5. Tighten all gang beam bolts.

# WING MODEL GANG BEAM ASSEMBLY

M5800-78  
Rev. 4/02



# WING SHIM ASSEMBLY

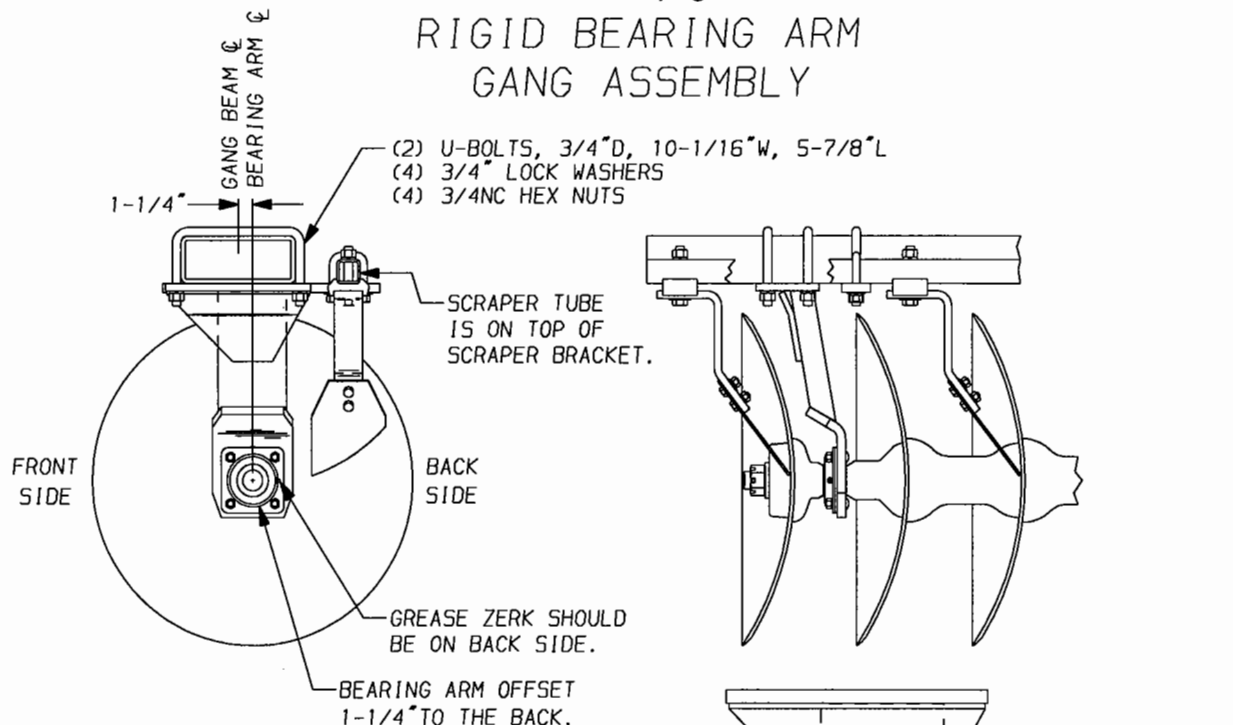


M5800-101

### III. DISC GANG ASSEMBLY

**⚠ Caution:** Serious injury can be inflicted by disc blades and disc gangs if not handled safely. Watch for unsafe conditions and be aware of the unexpected. Keep your co-workers safety in mind. Should personal injury occur, have medical treatment administered immediately.

1. A placement drawing is furnished between pages A27 and A42 that will serve as a guide for proper gang assembly, location, and adjustments for each model in the series. Turn to the placement drawing that reflects the model number stamped on the name plate and study the information for the model being assembled.
2. The model number and placement drawing will reflect one of two bearing arm designs.
  - a. If the model number is 58\_\_ W, you are assembling a Rigid Bearing Arm Model as shown below.
  - b. If the model number is 58\_\_ WR, you are assembling a Rock Flex Model Bearing Arm as shown in the illustration at the bottom of page A12.

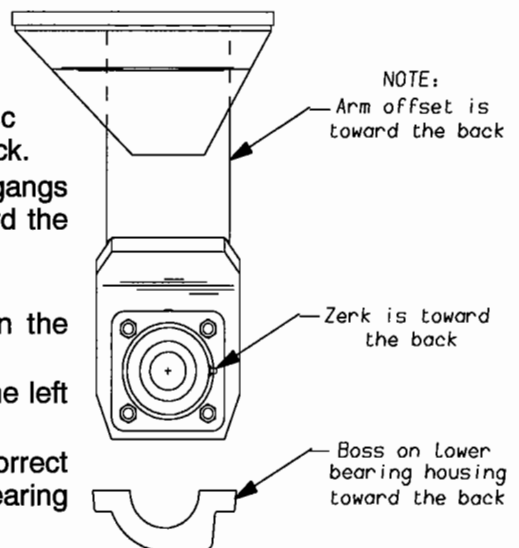


3. Identify the front and disc gangs.
  - a. On rigid bearing arm models, arrange the disc gangs with the bearing arm zerks toward the back.
  - b. On Rock Flex 'C'-Arm Models, arrange all of the gangs with the boss on the lower bearing housing toward the back.

**VIEW THE GANG ASSEMBLIES FROM BEHIND.**

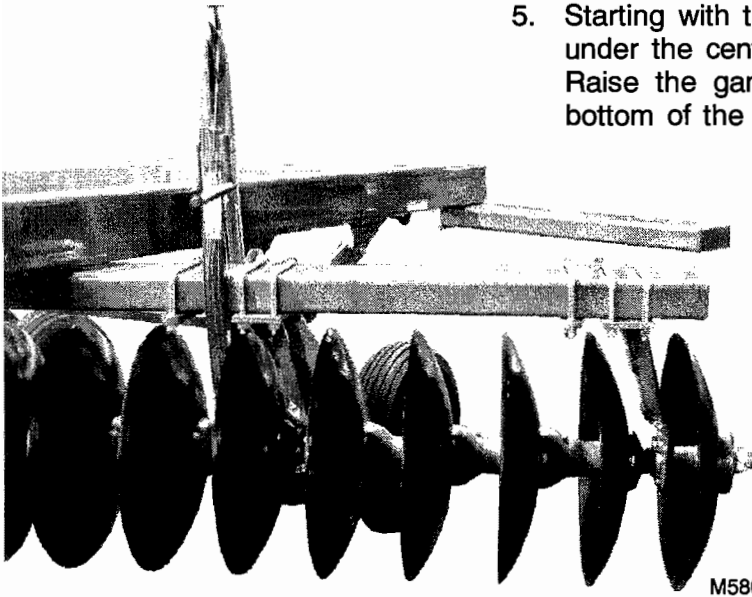
- ◆ The front gang disc blades will be concave on the right side.
- ◆ The rear gang disc blades will be concave on the left side.

4. Using the placement page for your disc, position the correct disc gangs under the frame. Pay close attention to bearing arm down disc blade locations.



**⚠ Danger:** Never attach disc gang assemblies to the back of the frame first. The added weight of the gang could cause the frame to tip backwards unexpectedly and injure persons working or standing nearby.

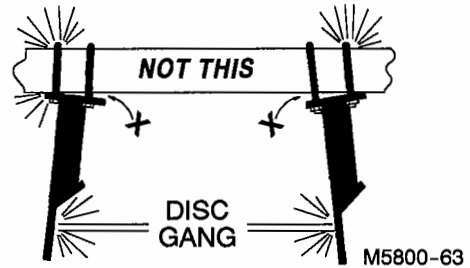
- Starting with the front, loop a length of chain or a strap under the center spacer spool and over the gang beam. Raise the gang until the bearing arm plates touch the bottom of the beam.



M5800-59

- Fasten the bearing arms to the gang beam with U-Bolts as shown on page A11.

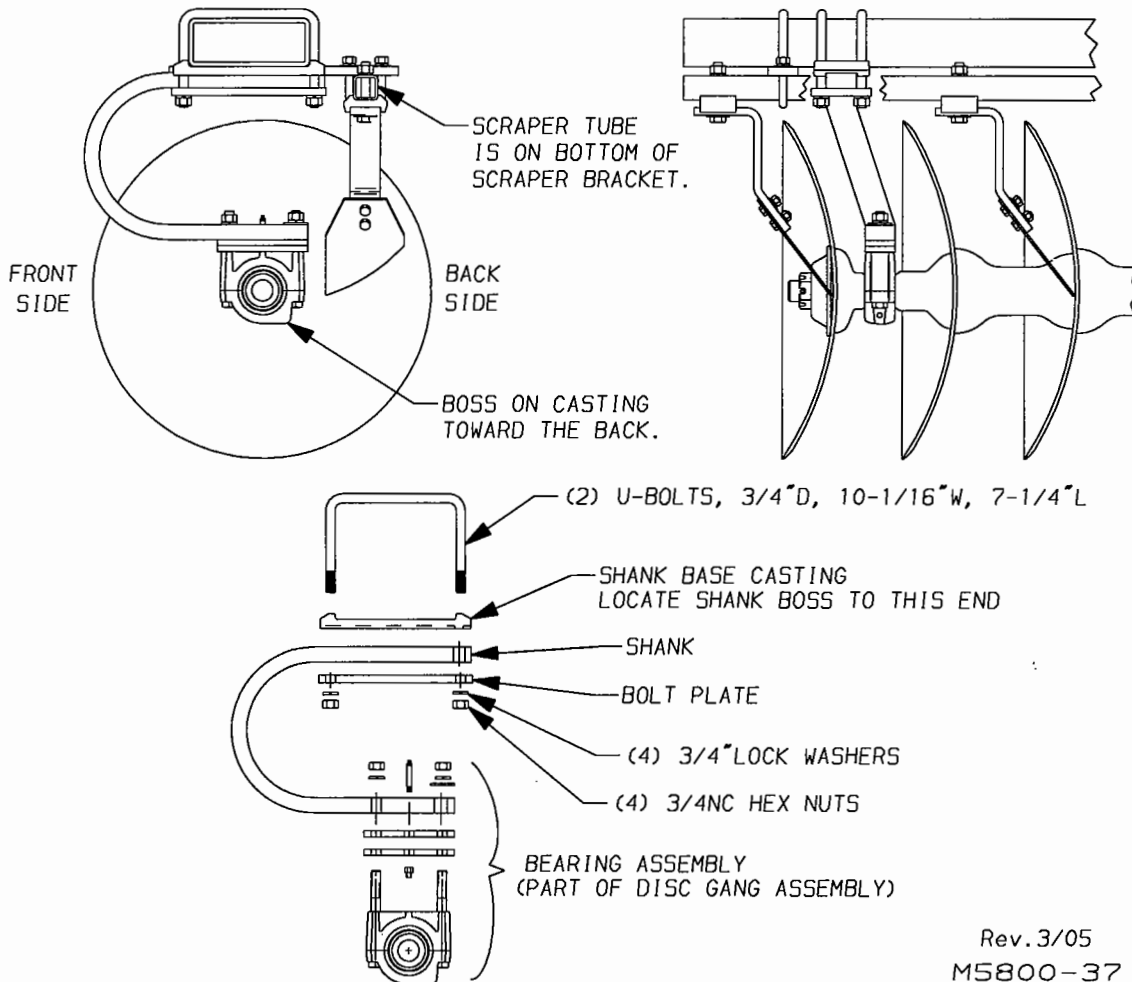
**NOTE:** Do not fully tighten bolts until the gang is the correct distance from the end of the gang beam as shown on the placement pages.



M5800-63

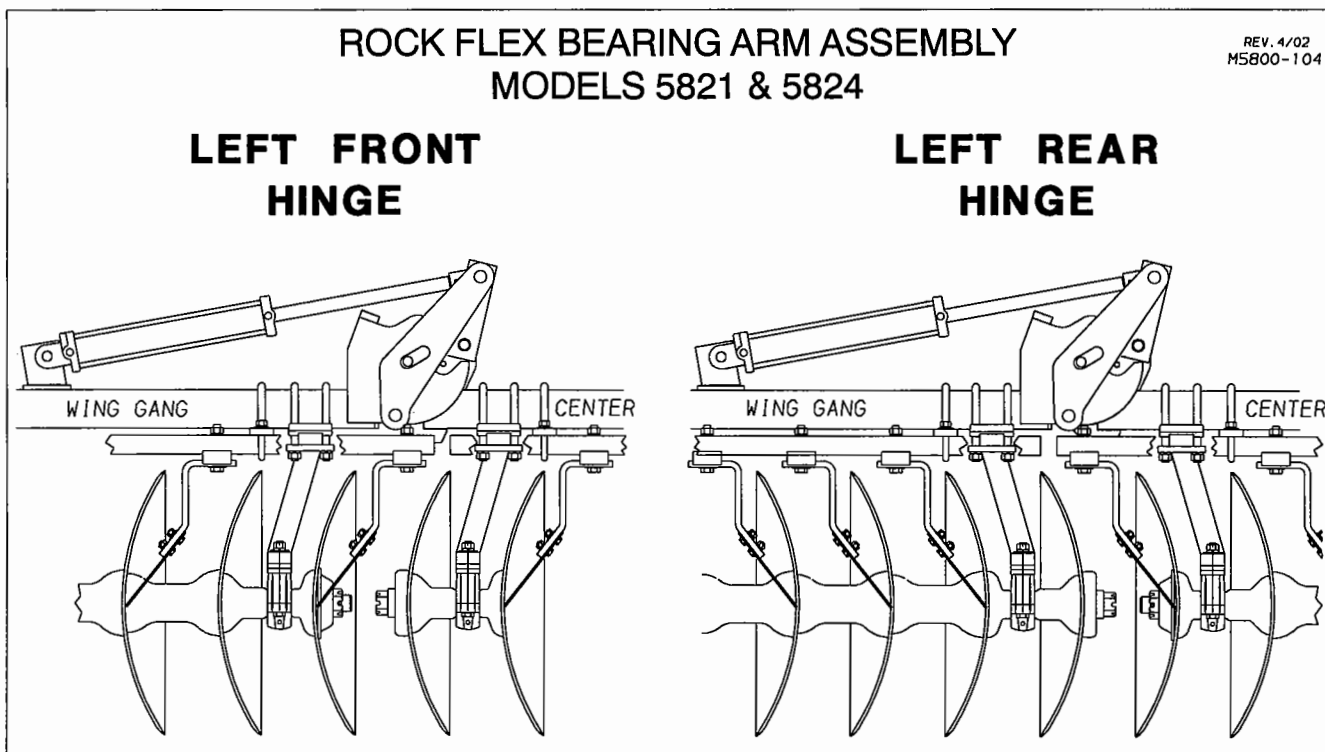
As the U-Bolts are drawn up tight, be sure that the top plate raises flat against the gang beam and not tilted to one side, causing a lever action that preloads the bearings.

## ROCK FLEX BEARING ARM GANG ASSEMBLY



Rev. 3/05  
M5800-37

## ROCK FLEX BEARING ARMS FOR WING MODELS

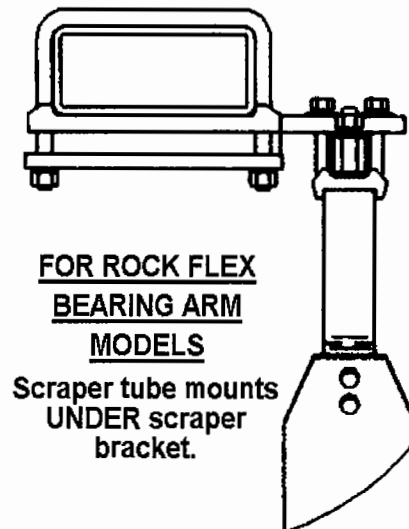
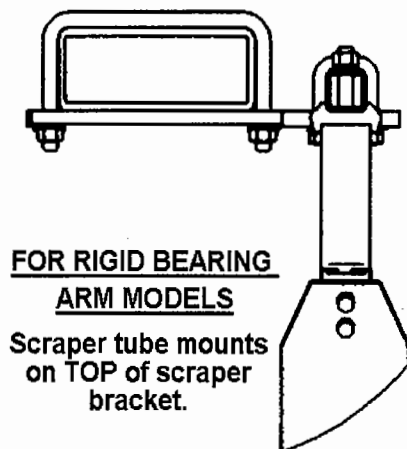


When setting up models with wings there are certain bearing arm locations that will require offset bearing arms to avoid interfering with the folding mechanism (as shown in the illustration above) or frame members. The placement drawing for your model will show the exact locations where these bearing arms are to be used.

### IV. SCRAPER ASSEMBLY

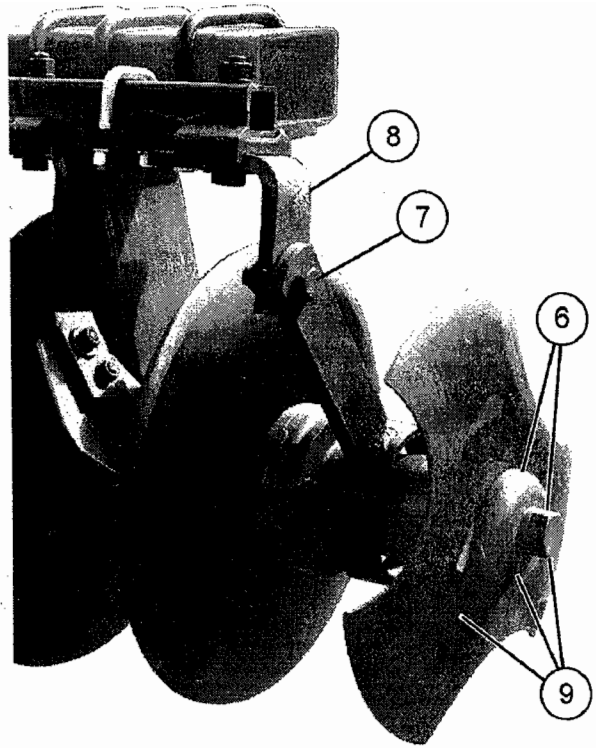
1. Turn to the placement drawing of the model being assembled. Mark the scraper bracket locations and attach a bracket loosely at each location.
2. The listing for the placement drawing will reflect the correct scraper frame assembly, location, and length.

**NOTE:** The scraper assemblies will go on top of the scraper bracket on rigid bearing arm models; and they will be on the bottom of the scraper bracket on rock-flex 'C'-arm models.



Loosely assemble the scraper frame to the scraper bracket with a U-Bolt (5/8" DIA. x 2-1/16" W x 3-9/16" L), (2) 5/8" STD. Flat Washers, (2) 5/8" STD. Lock Washers, and (2) 5/8NC Hex Nuts.

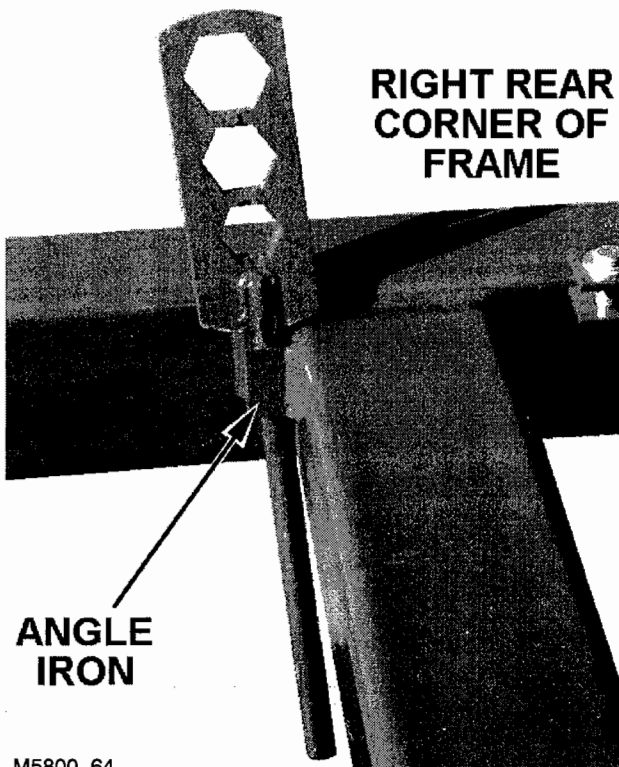
4. With the scraper frame in position, tighten the larger U-Bolt to the gang beam. Check the position of the blade again, and tighten the smaller U-Bolt to the scraper frame. Adjust and tighten all other U-Bolts.
5. Adjust the remaining scrapers within the 1/8" clearance.
6. Remove the cotter pin, machine bolt, and washer.
7. Remove the 3/4NC x 2-1/2"GD.5 Bolt and slide the loop of the scraper over the spool; replace the bolt.
8. Move the loop to the center of the spool by adjusting the arm.
9. Attach the cut-out-blade and end washer. Replace the machine bolt and cotter pin.



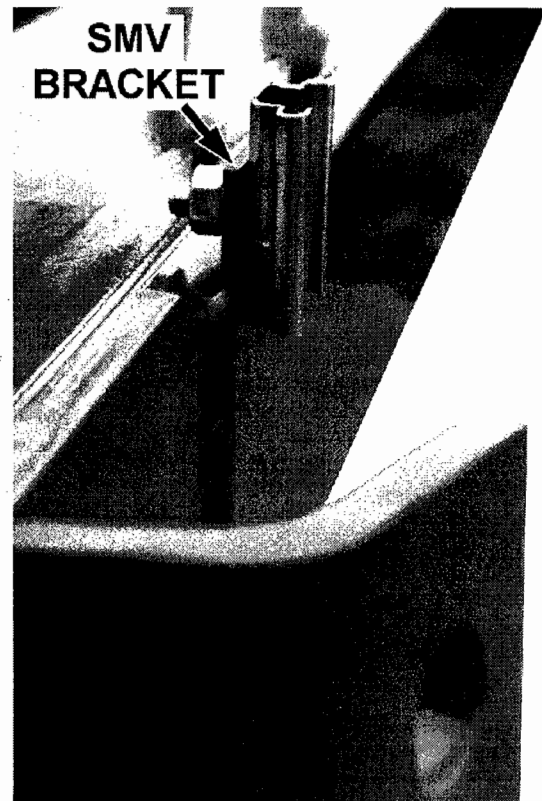
M5800-62

## V. MISCELLANEOUS PARTS ASSEMBLY

1. The Tie Rod Wrench provided with the disc is stored at the right rear corner of the frame.
2. Fasten the SMV Lamp Bracket to the rear frame member with a 7/16NC x 1" Carriage Bolt, Lock Washer and Hex Nut.

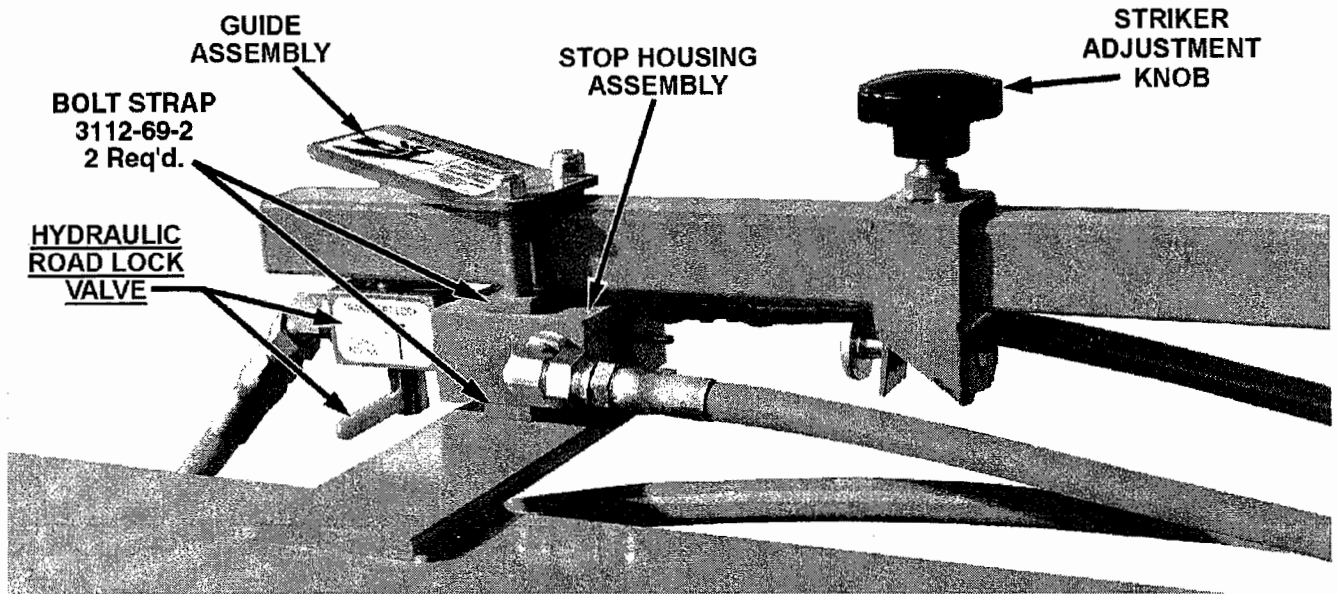


M5800-64

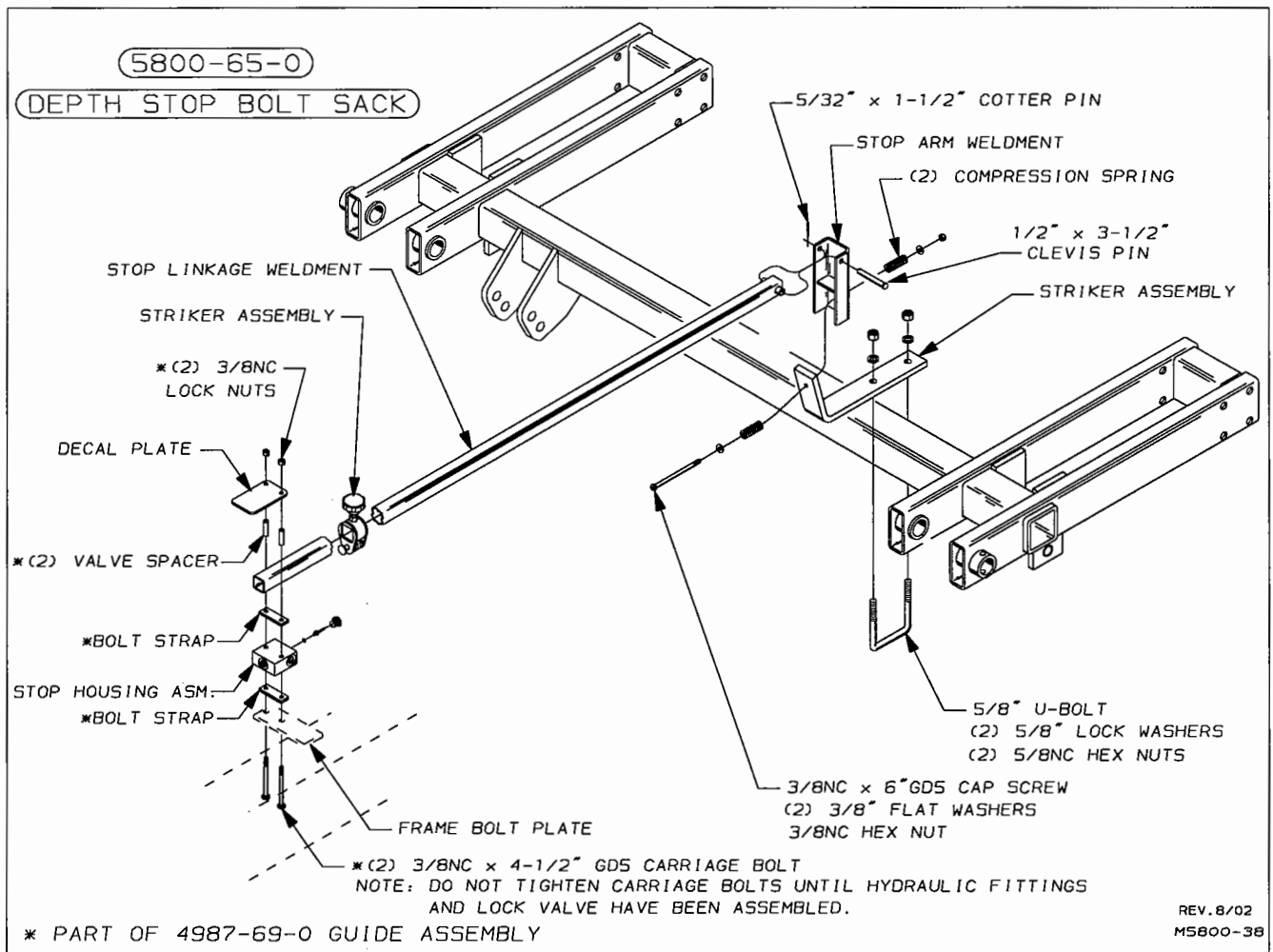


M5800-65

## VI. DEPTH STOP LINKAGE

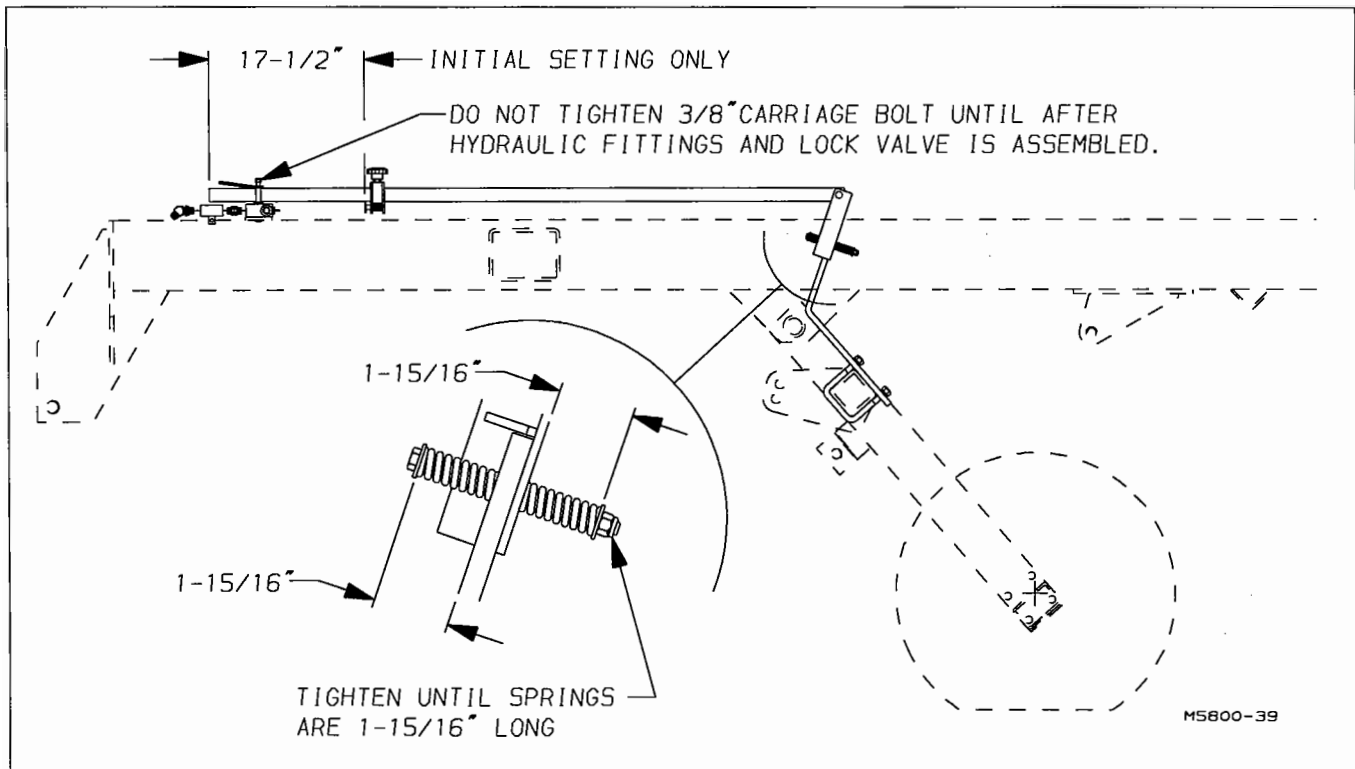


M5800-66  
Rev.6/01



REV. 8/02  
M5800-38

1. Locate the frame bolt plate for the stop housing at the front of the left frame box.
2. Assemble the stop linkage as shown above.



NOTE: Do not tighten the 3/8NC x 4-1/2" Carriage Bolts in the guide assembly until hydraulic fittings and hydraulic road lock has been assembled to stop valve.

3. Tighten the 3/8NC x 6" Bolt on the STOP ARM WELDMENT until the spring length is 1-15/16" as shown in the illustration above.

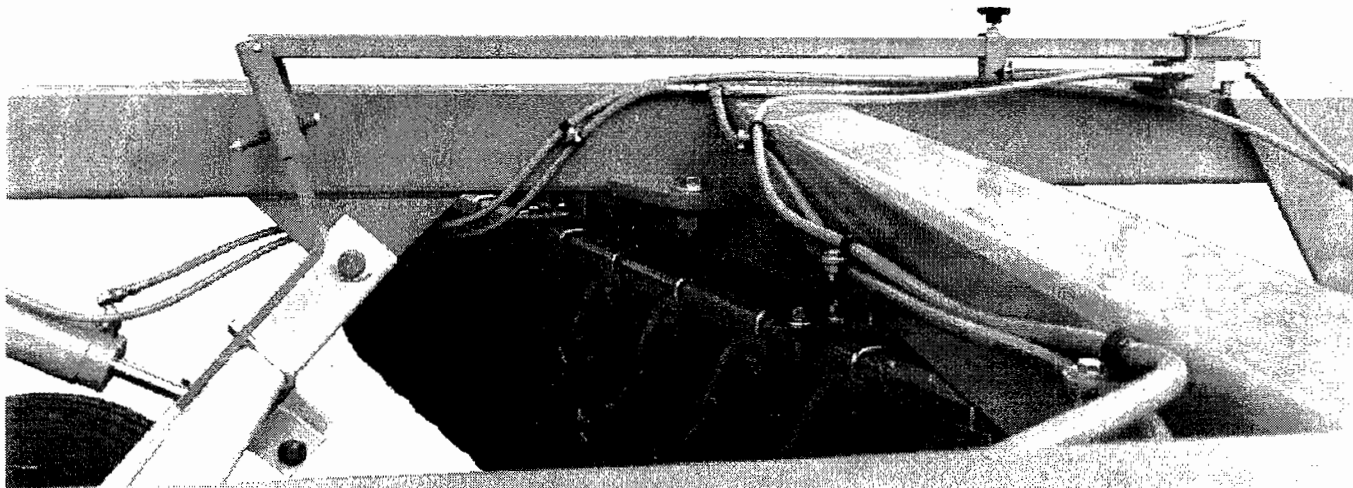
## VII. HYDRAULICS ASSEMBLY

**⚠ Caution:** Use only hydraulic hose that meets or exceeds 3,000 P.S.I. working pressure.

### PLUMBING - ALL MODELS

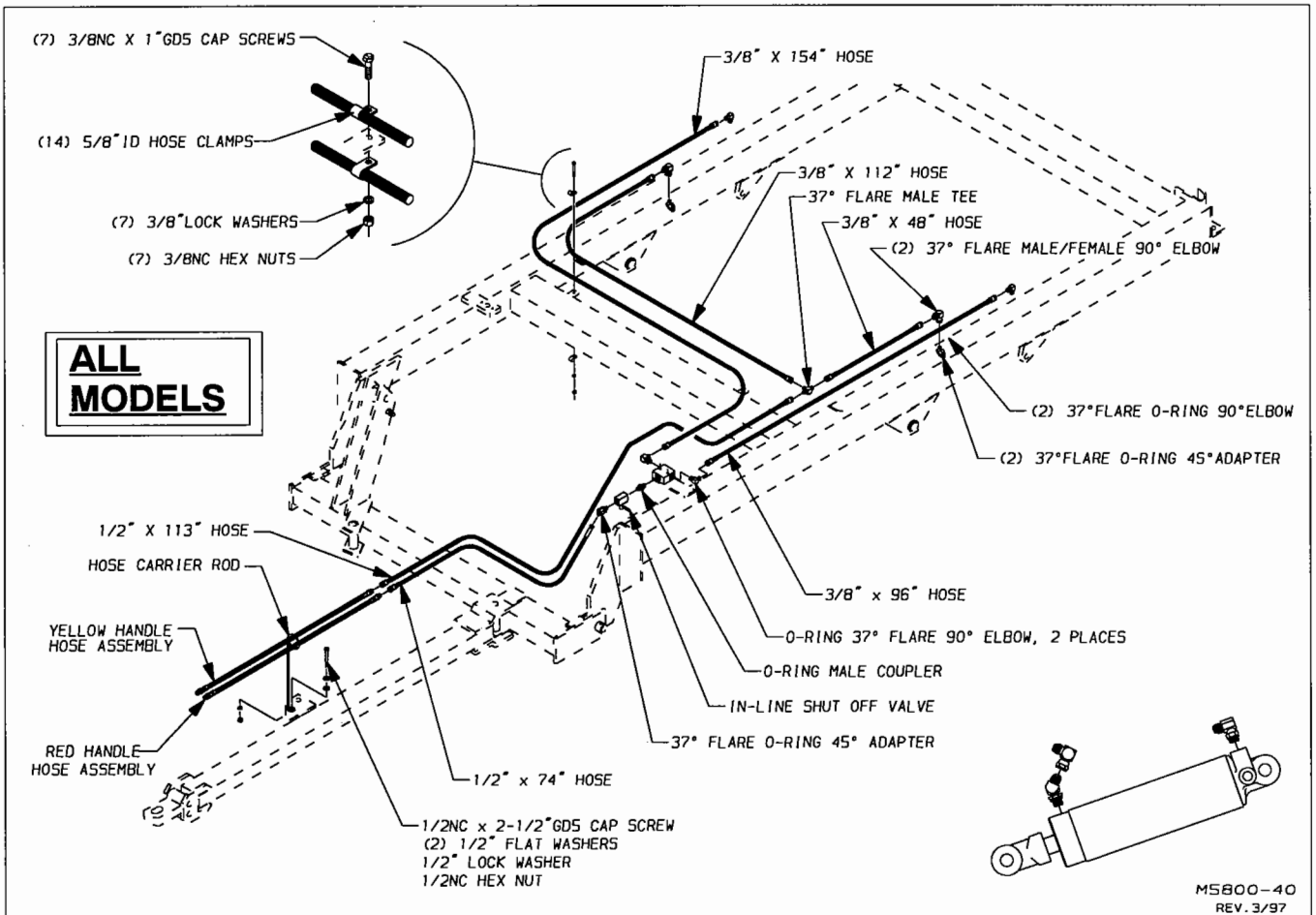
NOTE: No tape or sealant is necessary on O-Ring / 37° Flare Fittings.

1. Refer to the drawing and stop Valve photograph on page A15, and the following photographs for the correct assembly of hoses, fittings and hose clamps.

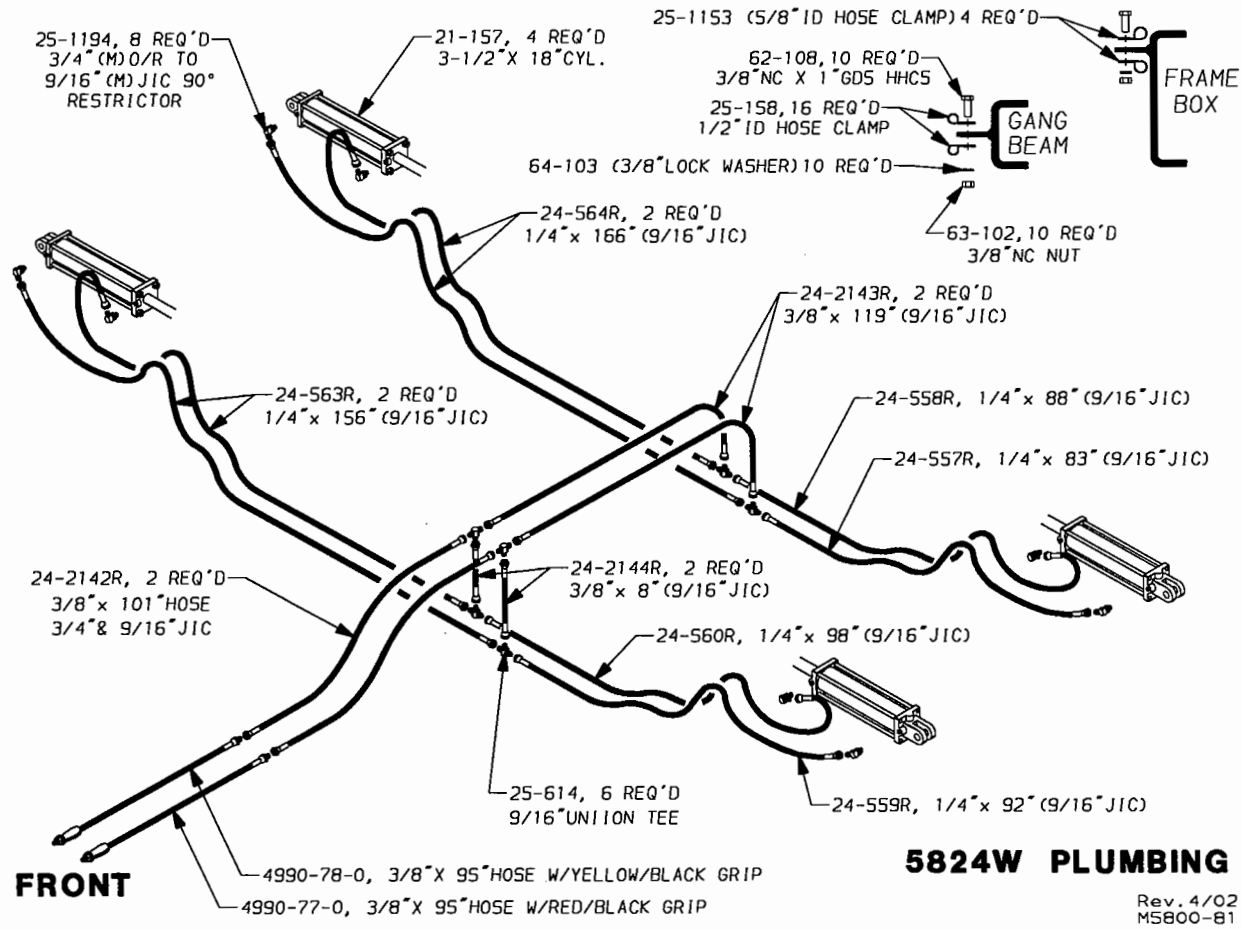
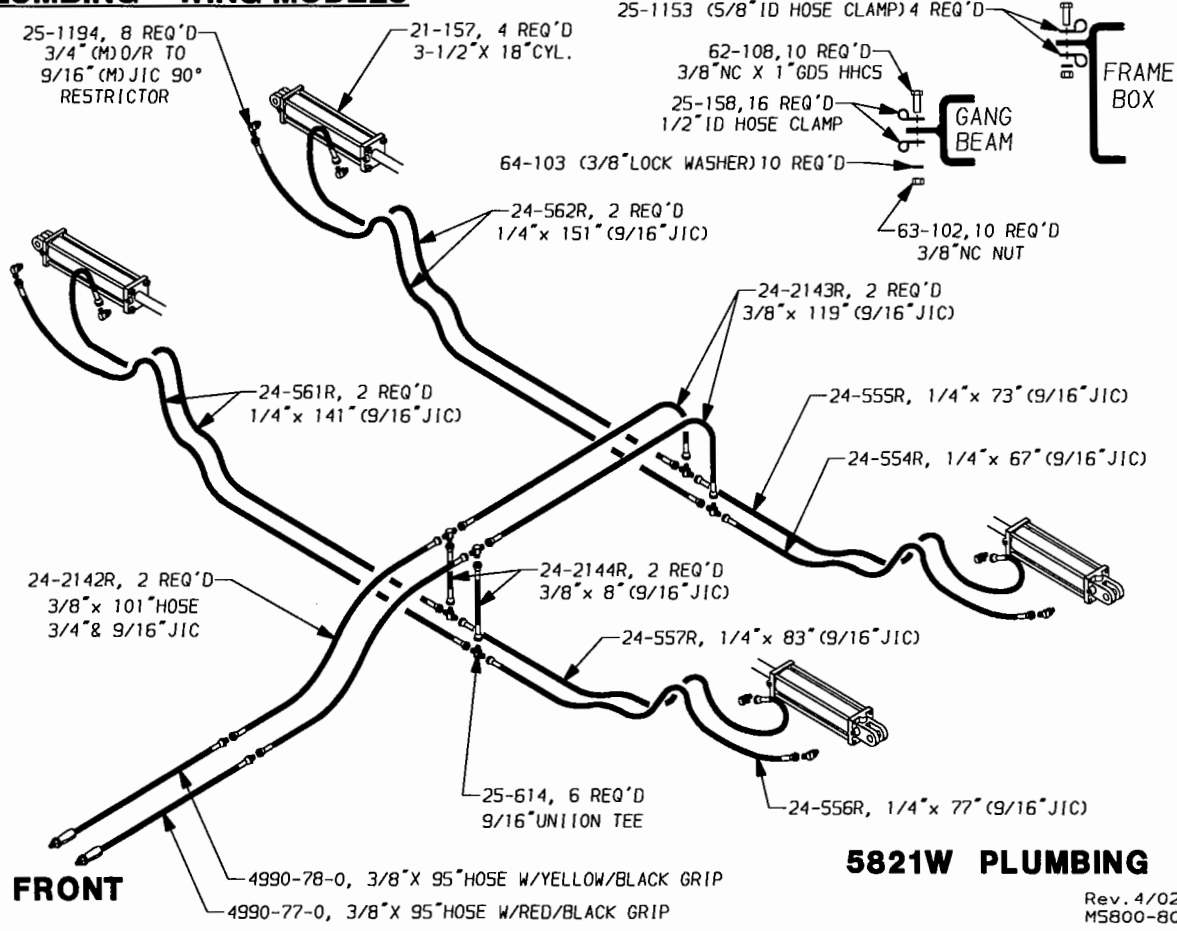


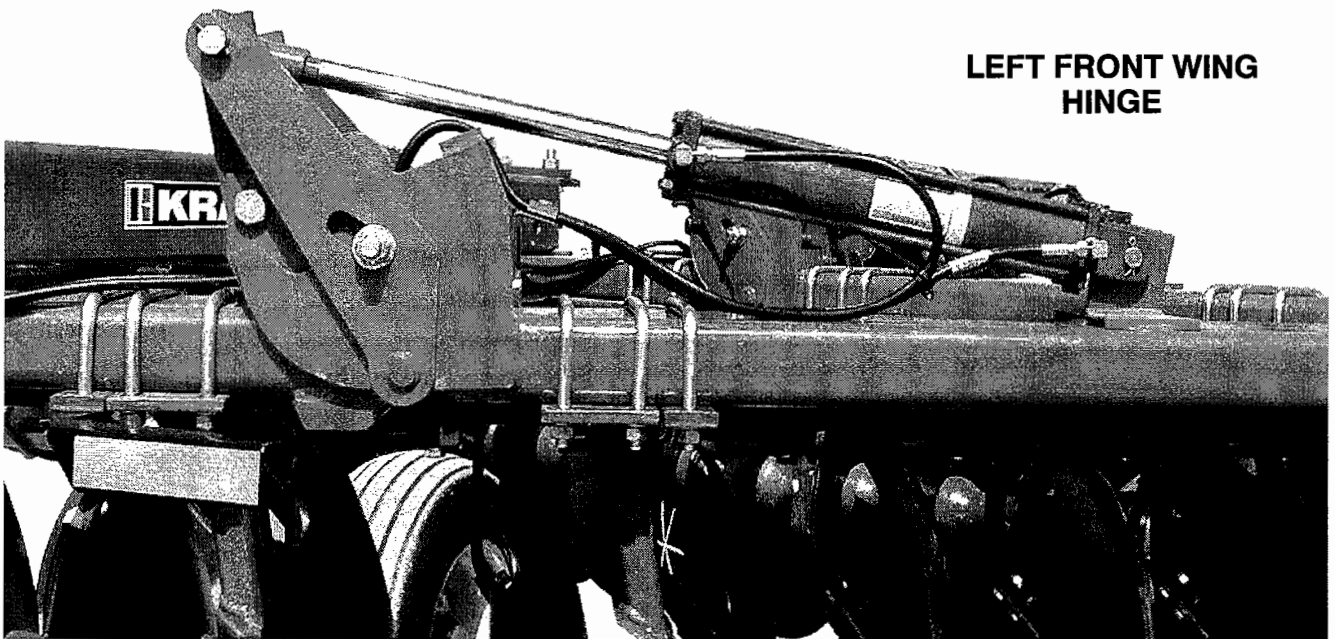
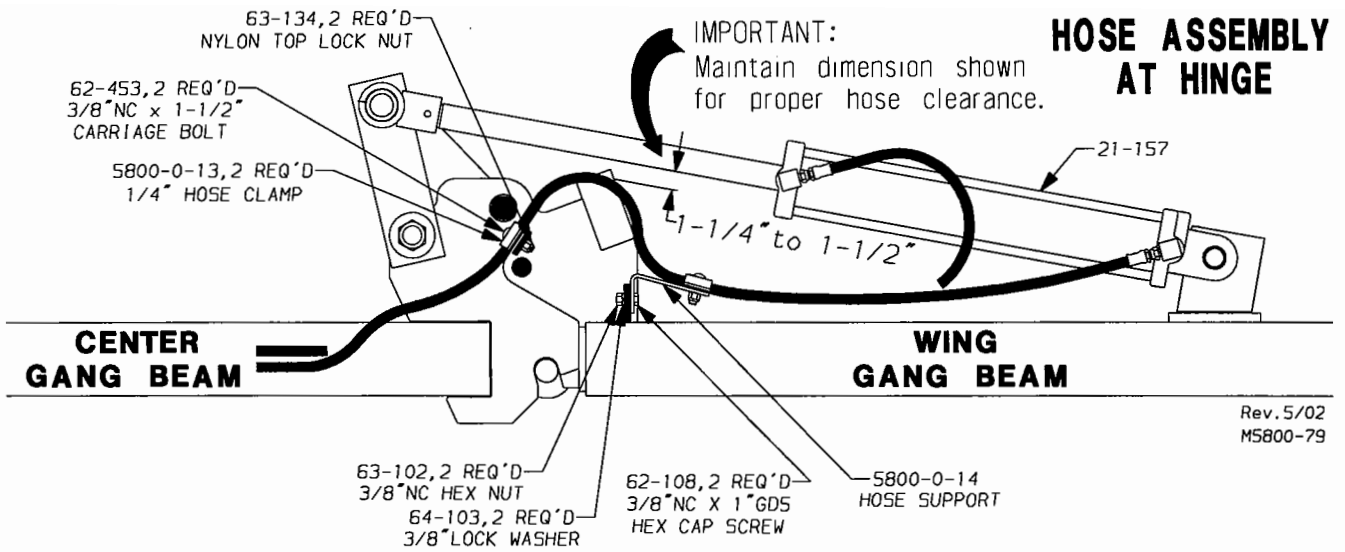


M5800-69

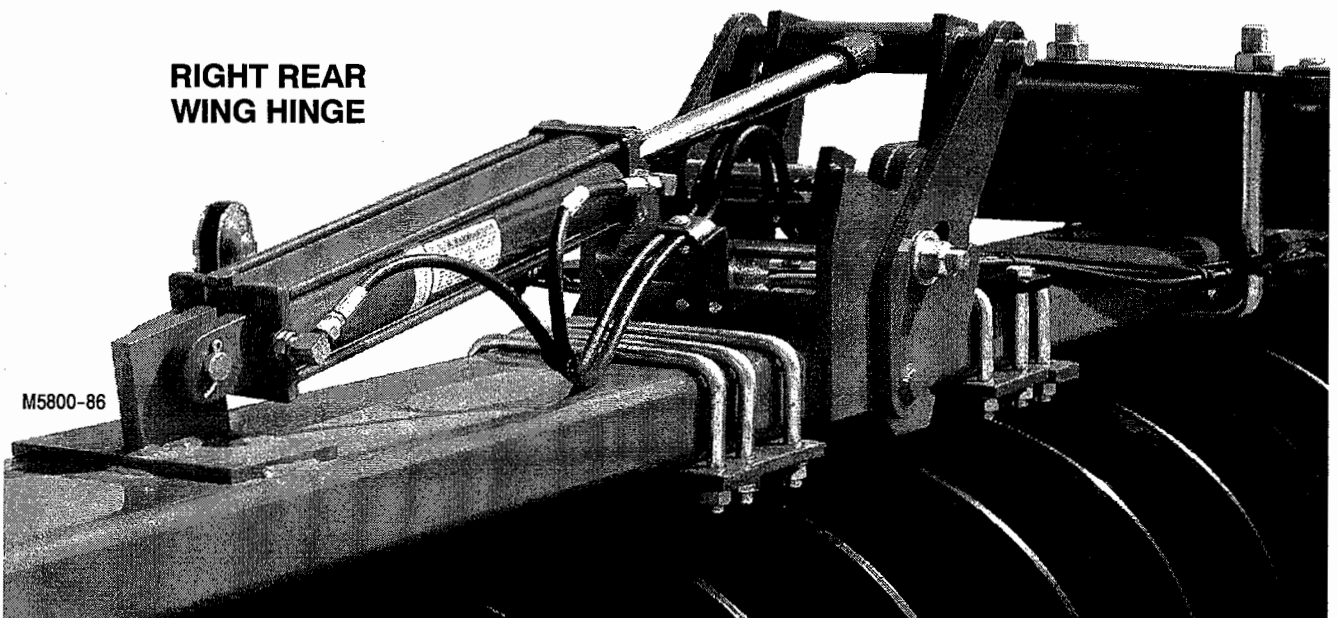


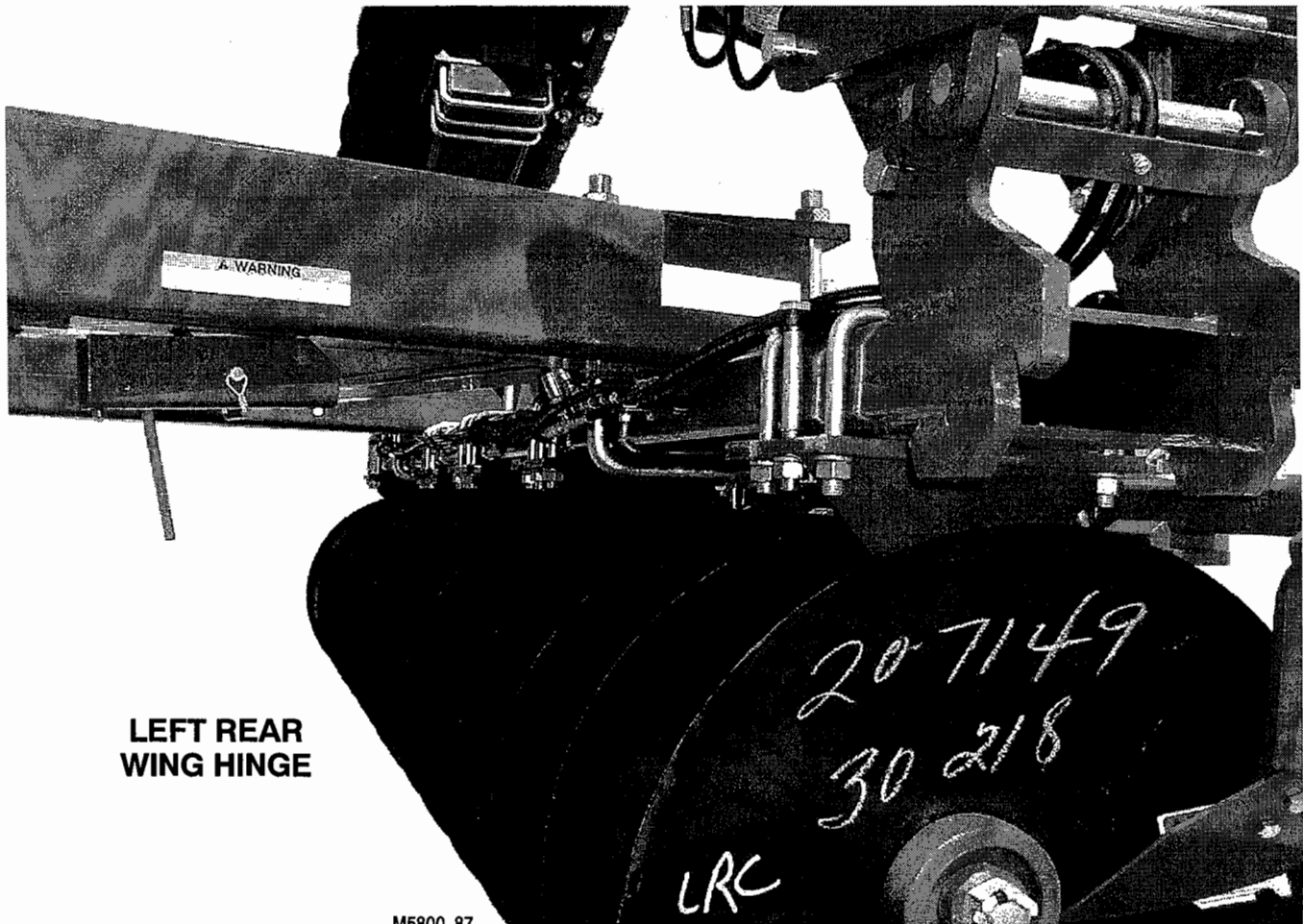
# PLUMBING - WING MODELS





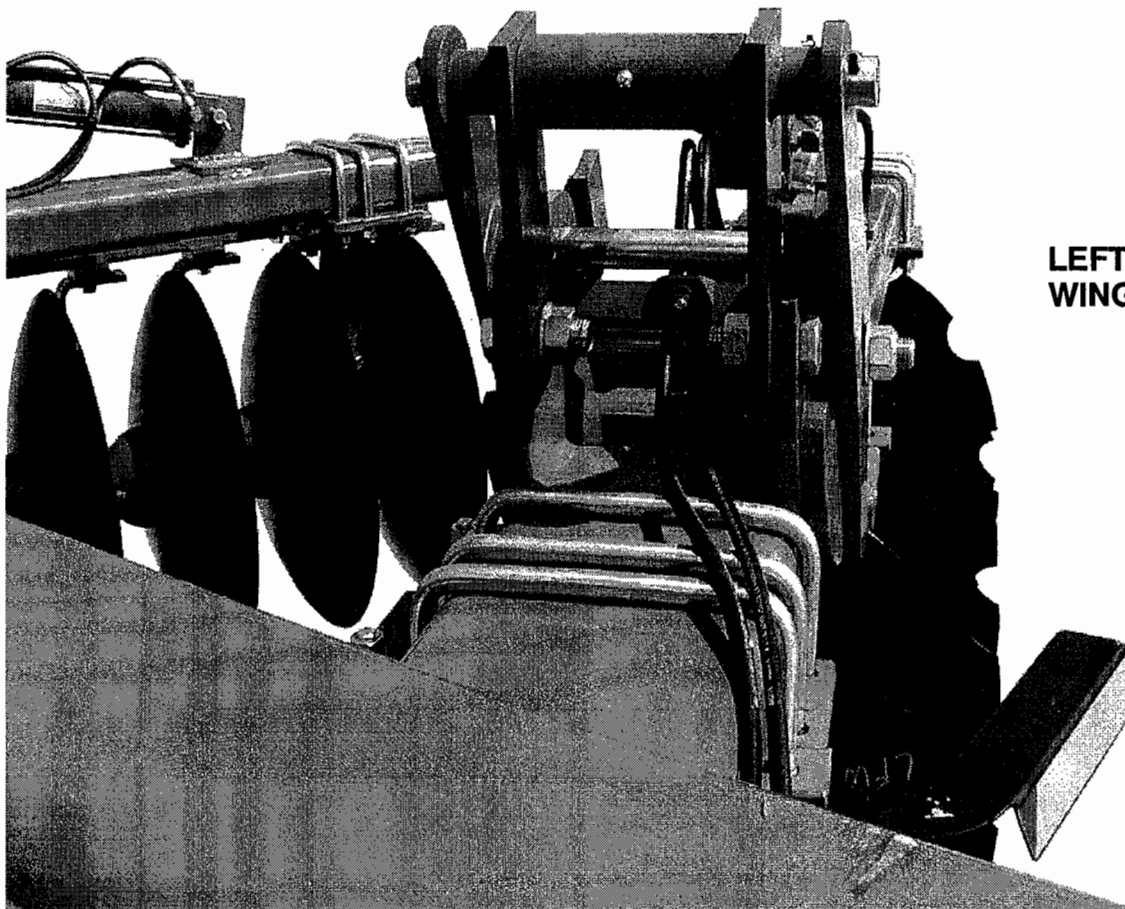
M5800-85





**LEFT REAR  
WING HINGE**

M5800-87

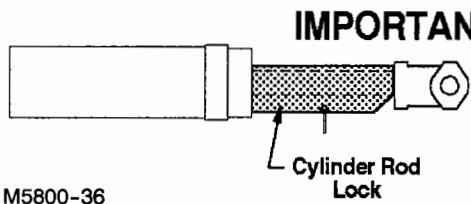
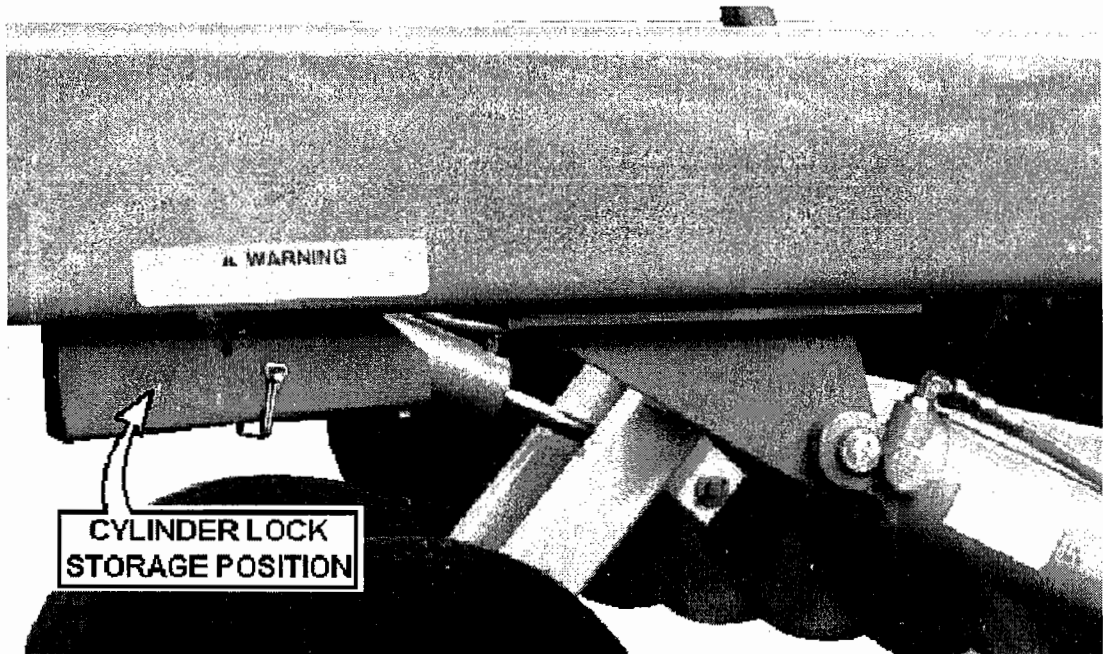


**LEFT FRONT  
WING HINGE**

M5800-88

## **CHARGING THE CYLINDERS -**

2. Attach the hydraulic hoses to the tractor. Check the tractor hydraulic reservoir and make sure it is full of the tractor manufacturer's recommended oil.
3. If you are sure all connections are tight and leakproof, begin filling the system by extending and retracting the cylinders.
4. The rocker shaft cylinders have rephasing grooves that will allow the oil to pass by the piston when the disc is fully raised. Open the road lock valve and raise the unit. Hold the tractor lever in the raised position to fill each rocker shaft cylinder. When the cylinders are fully extended, remove the cylinder locks on the master cylinders and place them in the storage position on the angle bracket behind the rocker.



**IMPORTANT: MAKE SURE BOTH CYLINDER ROD LOCKS ARE REMOVED FROM THE CYLINDER RODS. IF ONE LOCK IS ON THE CYLINDER ROD AND OTHER IS NOT, ROCKER DAMAGE MAY OCCUR.**

5. Cycle the hydraulic cylinders until all air is purged from the system. When cycling the rocker shaft cylinders, hold the lever for 30 to 45 seconds in the fully raised position to rephase the cylinders.
6. Continue the cycles until the cylinders respond with solid 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.

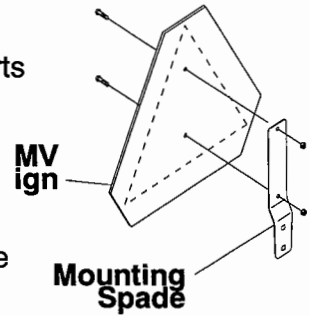


## VIII. DECAL ATTACHMENT & SMV EMBLEM

It is very important that all decals be placed on the harrow as shown in the Parts Section on pages P25-P26.

NOTE: Wipe frame members clean before applying decals for better adhesion. If decals or reflectors should become faded or damaged, be sure to replace them.

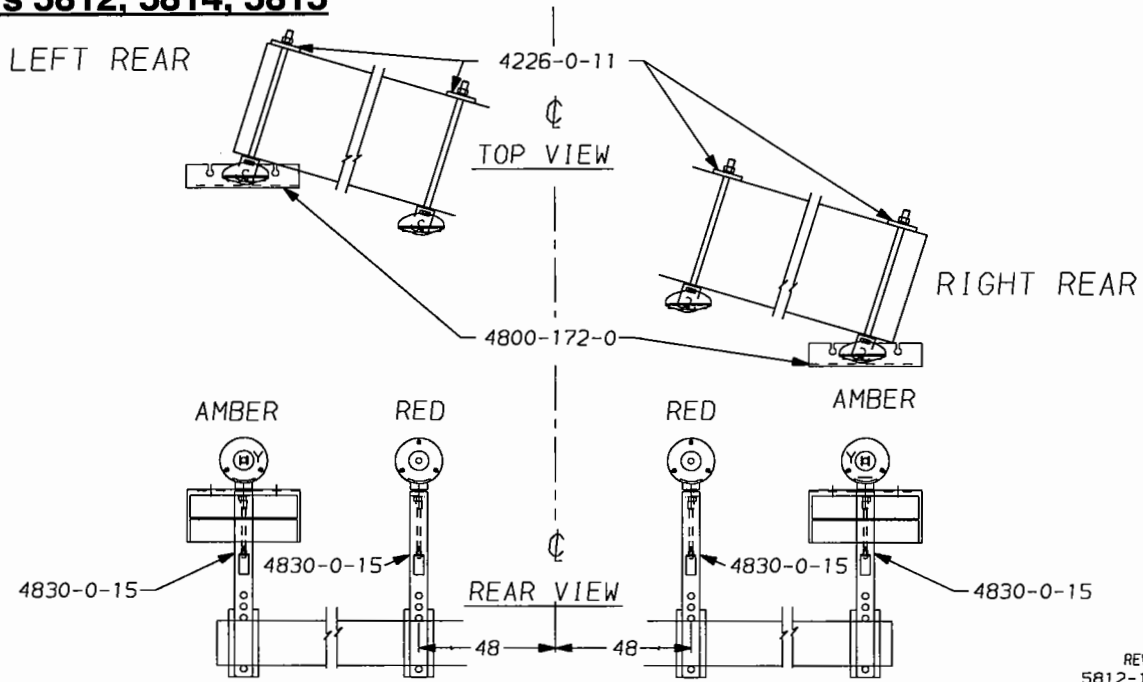
Insert the SMV mounting spade into the bracket provided at the rear of the implement



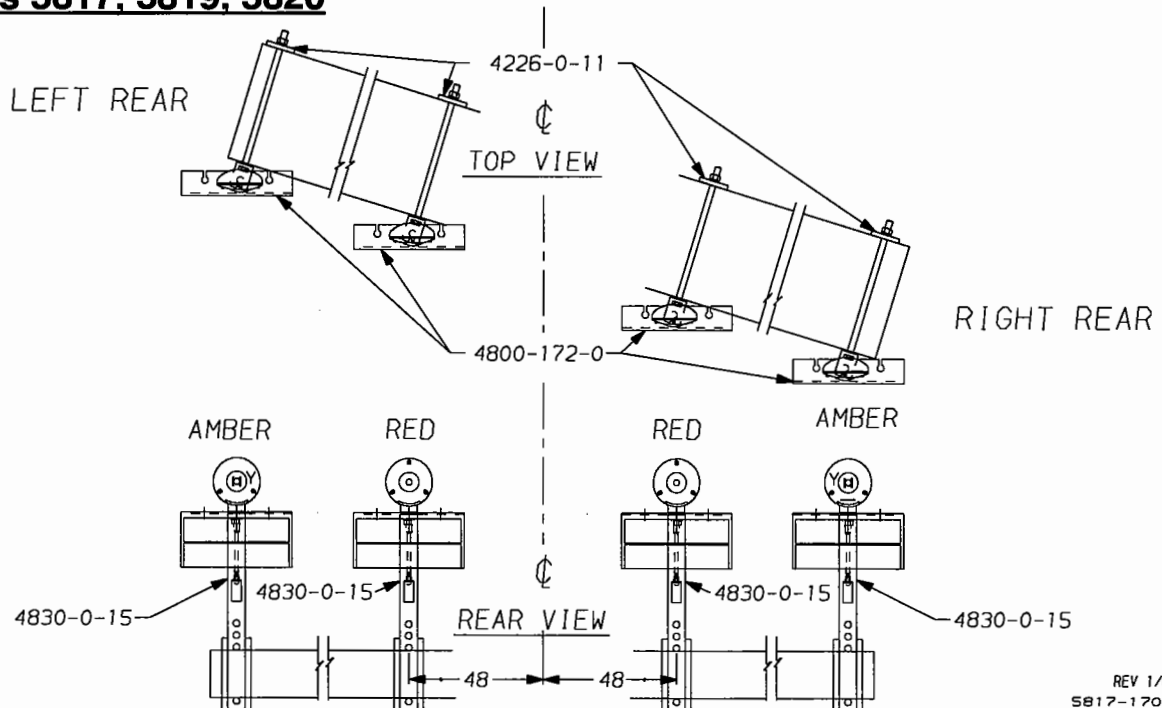
## IX. LIGHT KIT

Always comply with state and local laws pertaining to lighting. Install the light kit as shown in the installation instructions on pages A22-A25 using the parts shown on pages P27-P28.

### Models 5812, 5814, 5815

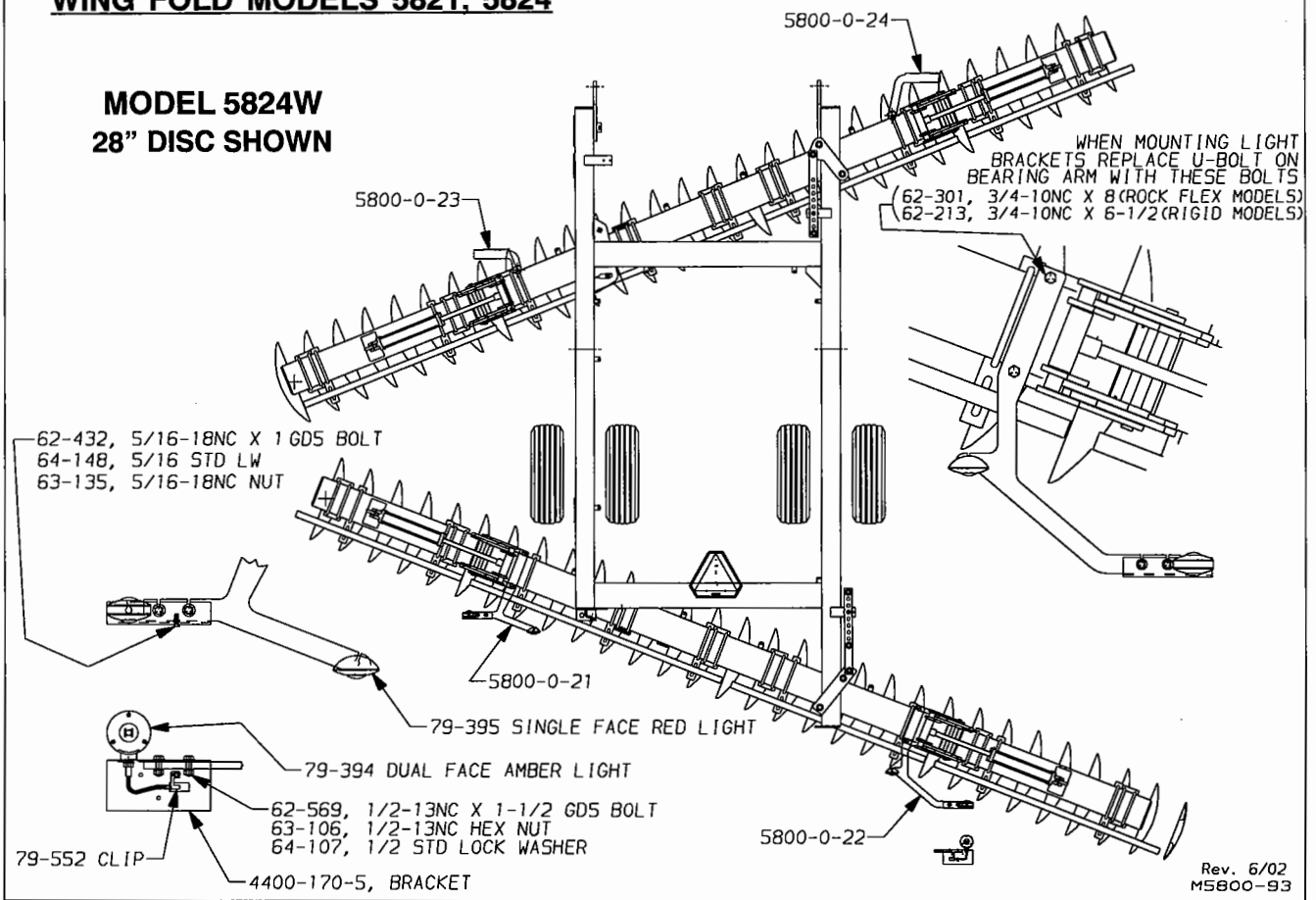


### Models 5817, 5819, 5820

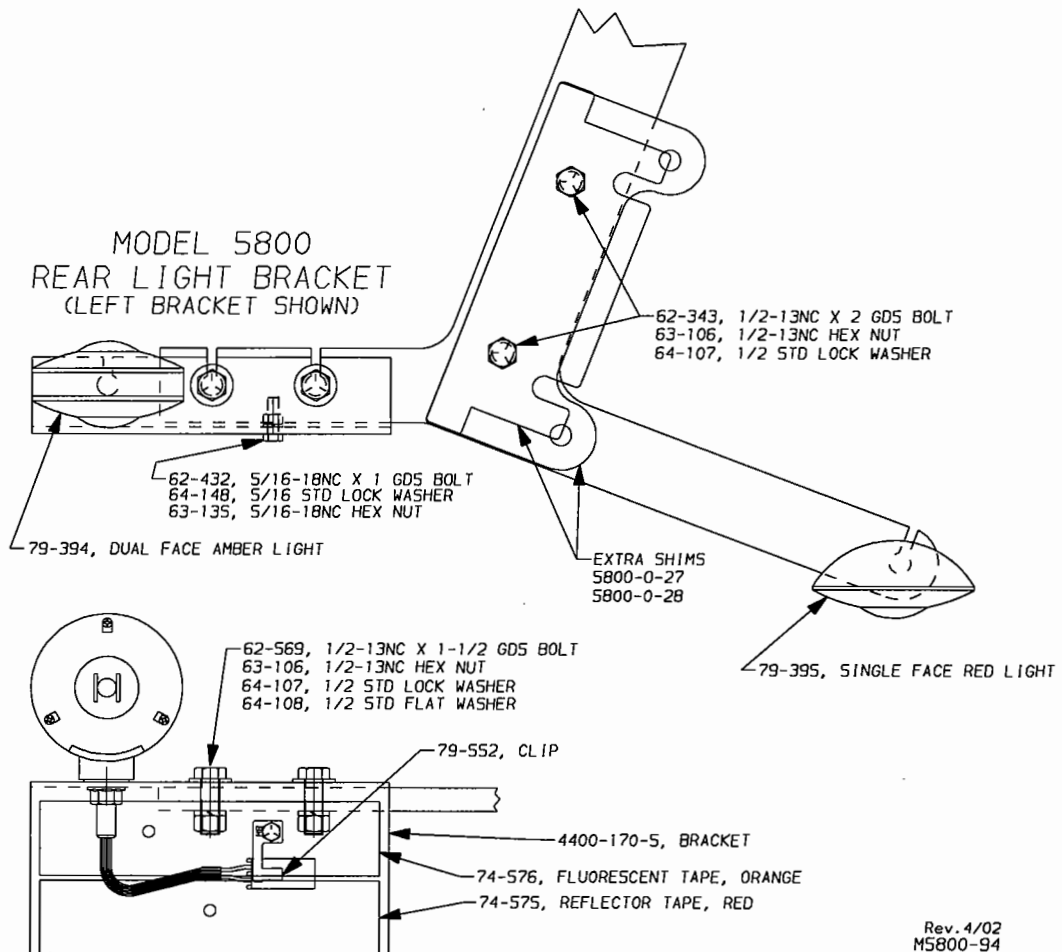


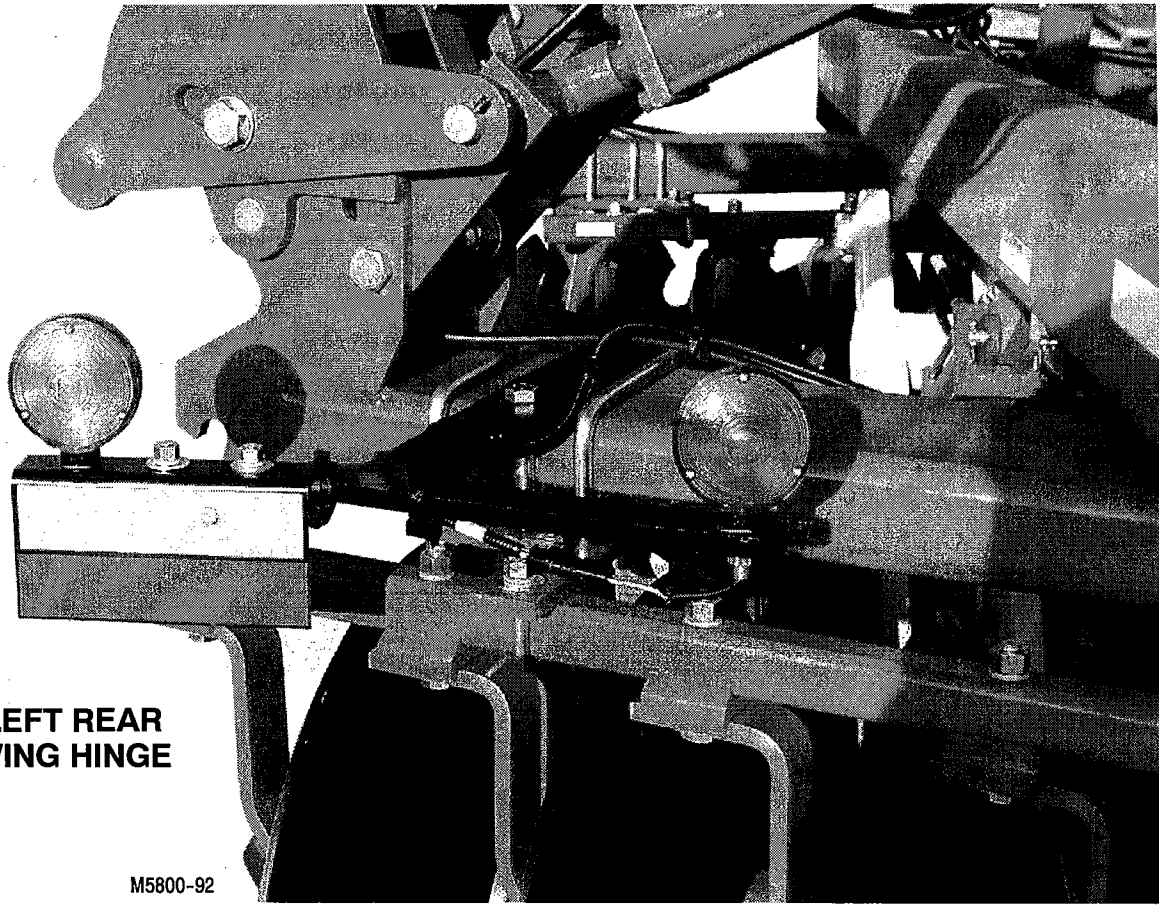
**WING FOLD MODELS 5821, 5824**

**MODEL 5824W  
28" DISC SHOWN**



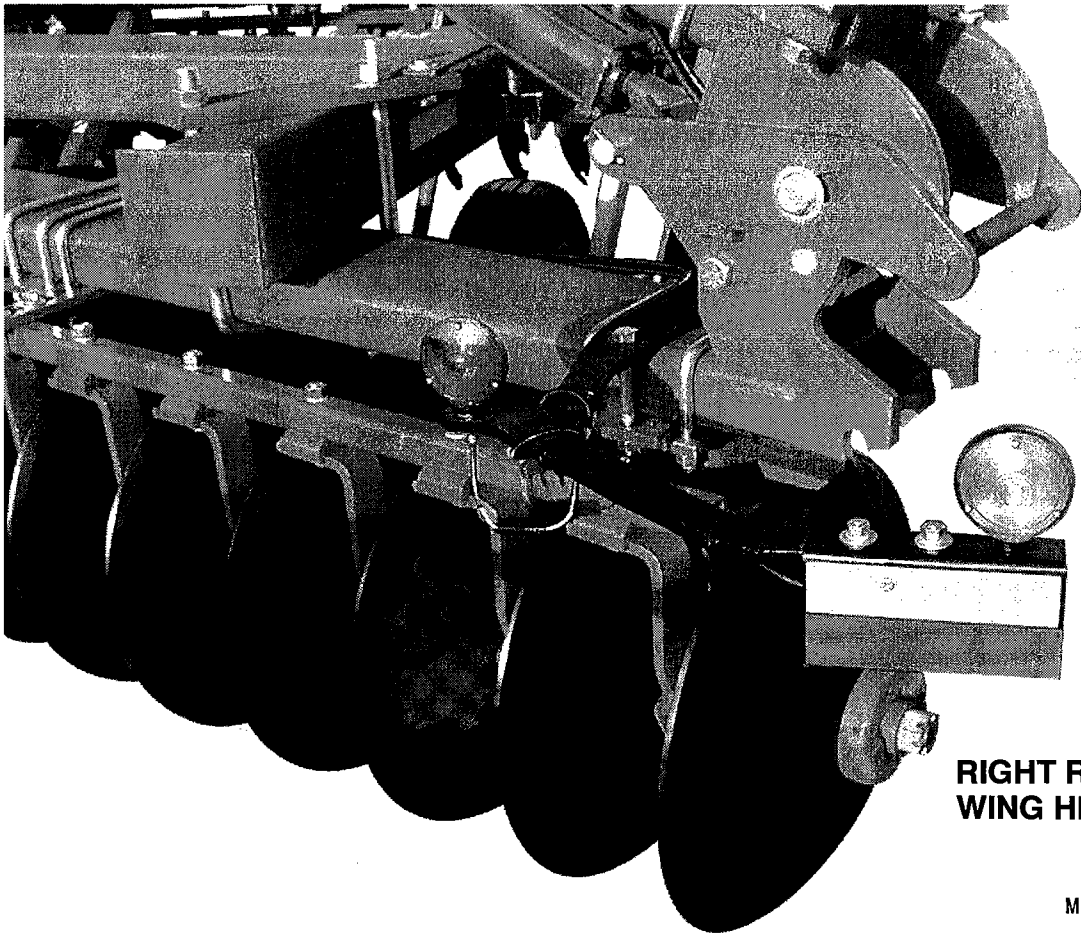
**MODEL 5800  
REAR LIGHT BRACKET  
(LEFT BRACKET SHOWN)**





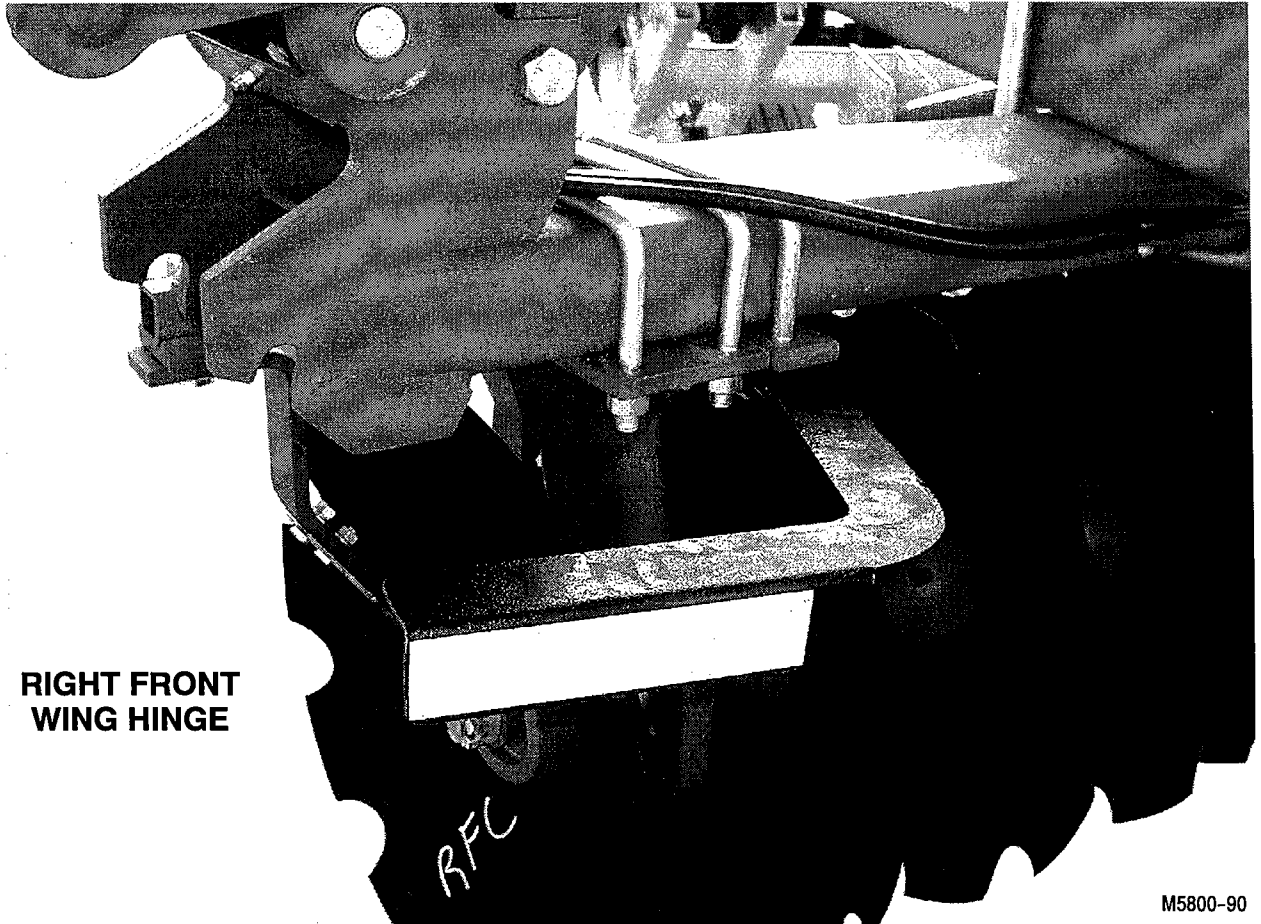
**LEFT REAR  
WING HINGE**

M5800-92



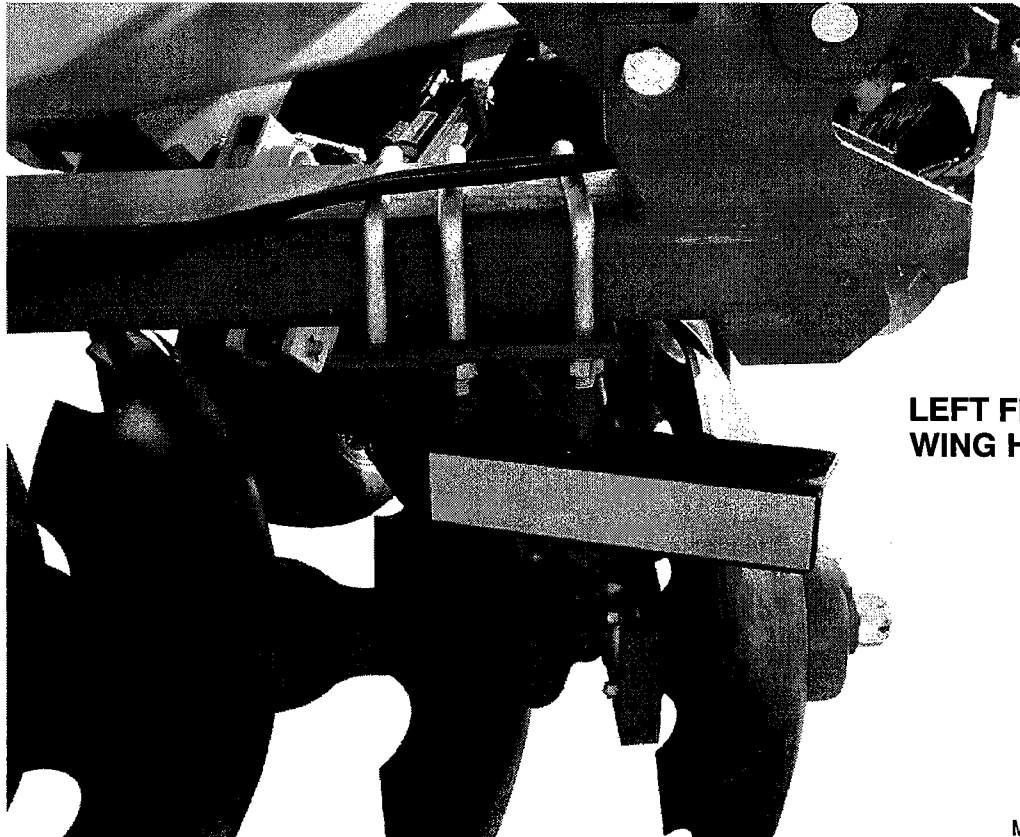
**RIGHT REAR  
WING HINGE**

M5800-91



**RIGHT FRONT  
WING HINGE**

M5800-90



**LEFT FRONT  
WING HINGE**

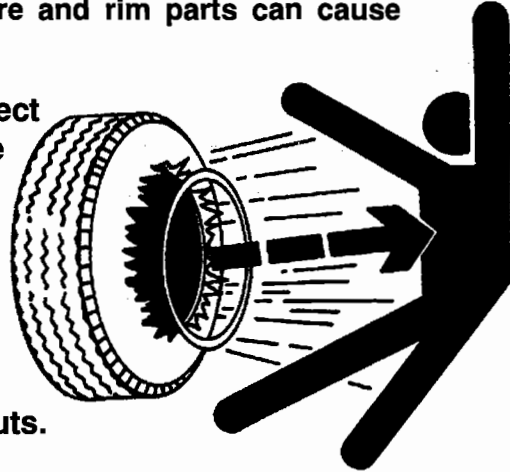
M5800-89

# FINAL CHECK

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

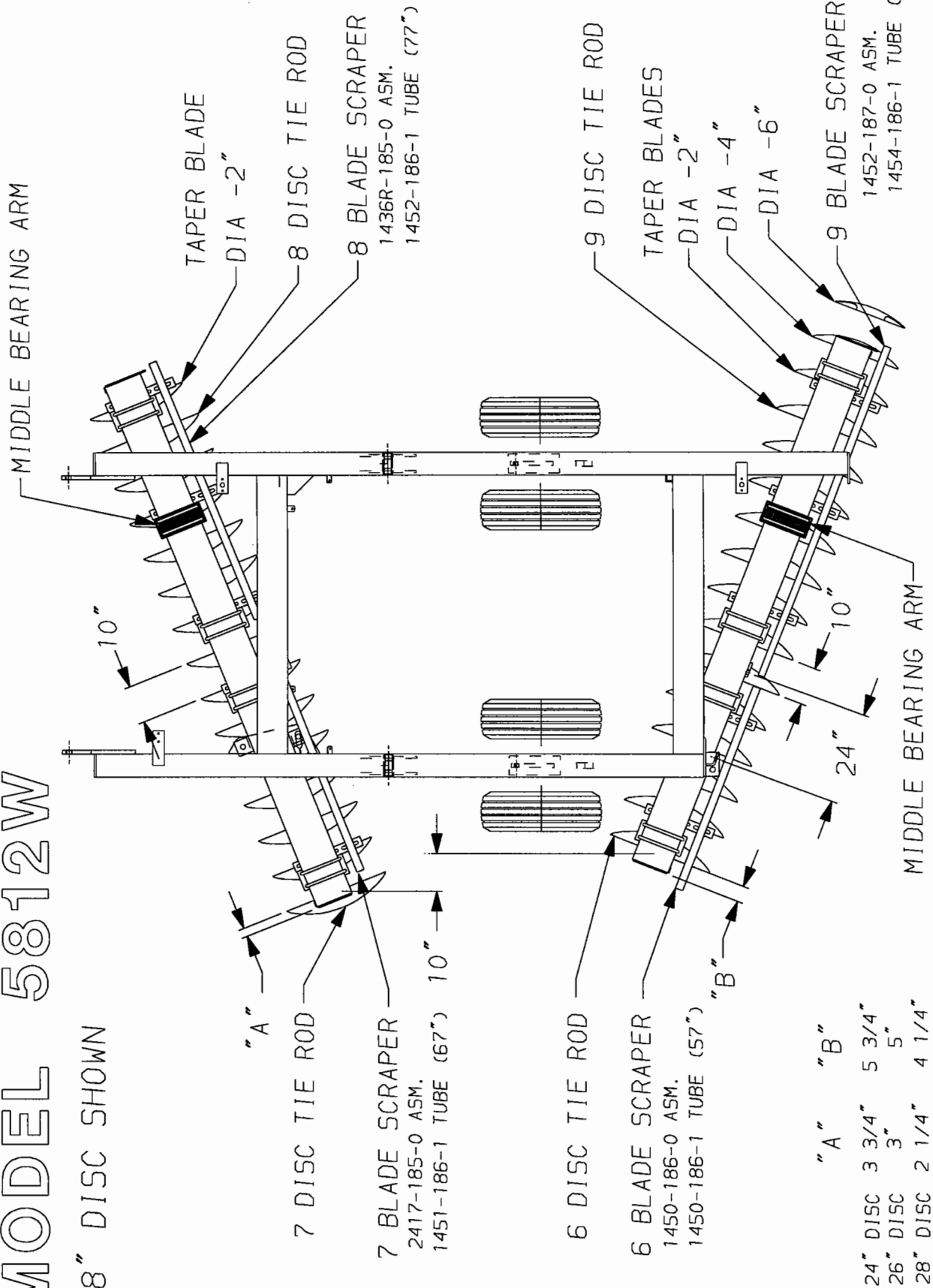
**⚠ Caution:** Explosive separation of a tire and rim parts can cause serious injury or death.

**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.**



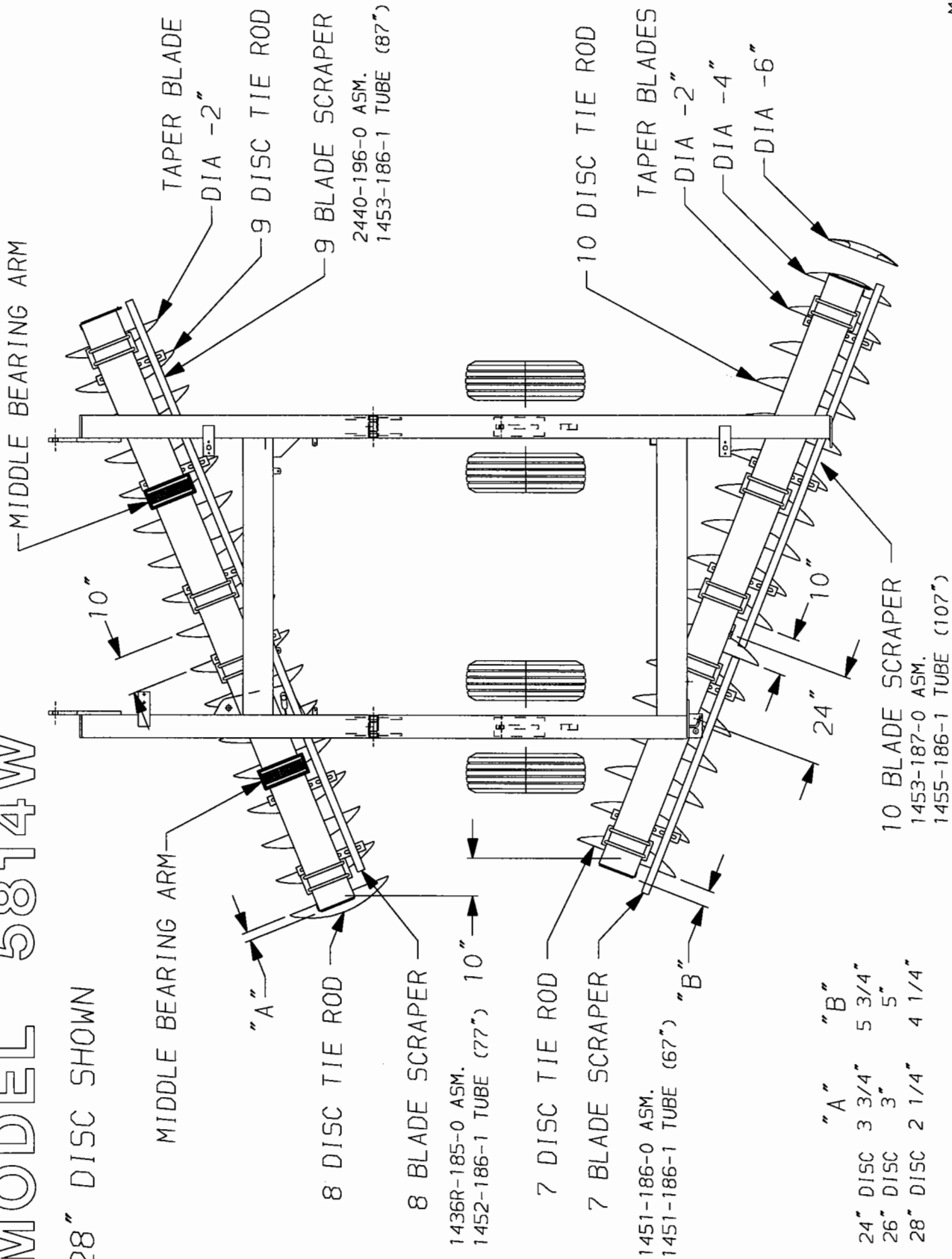
# MODEL 5812W

28" DISC SHOWN



# MODEL 5814W

28" DISC SHOWN

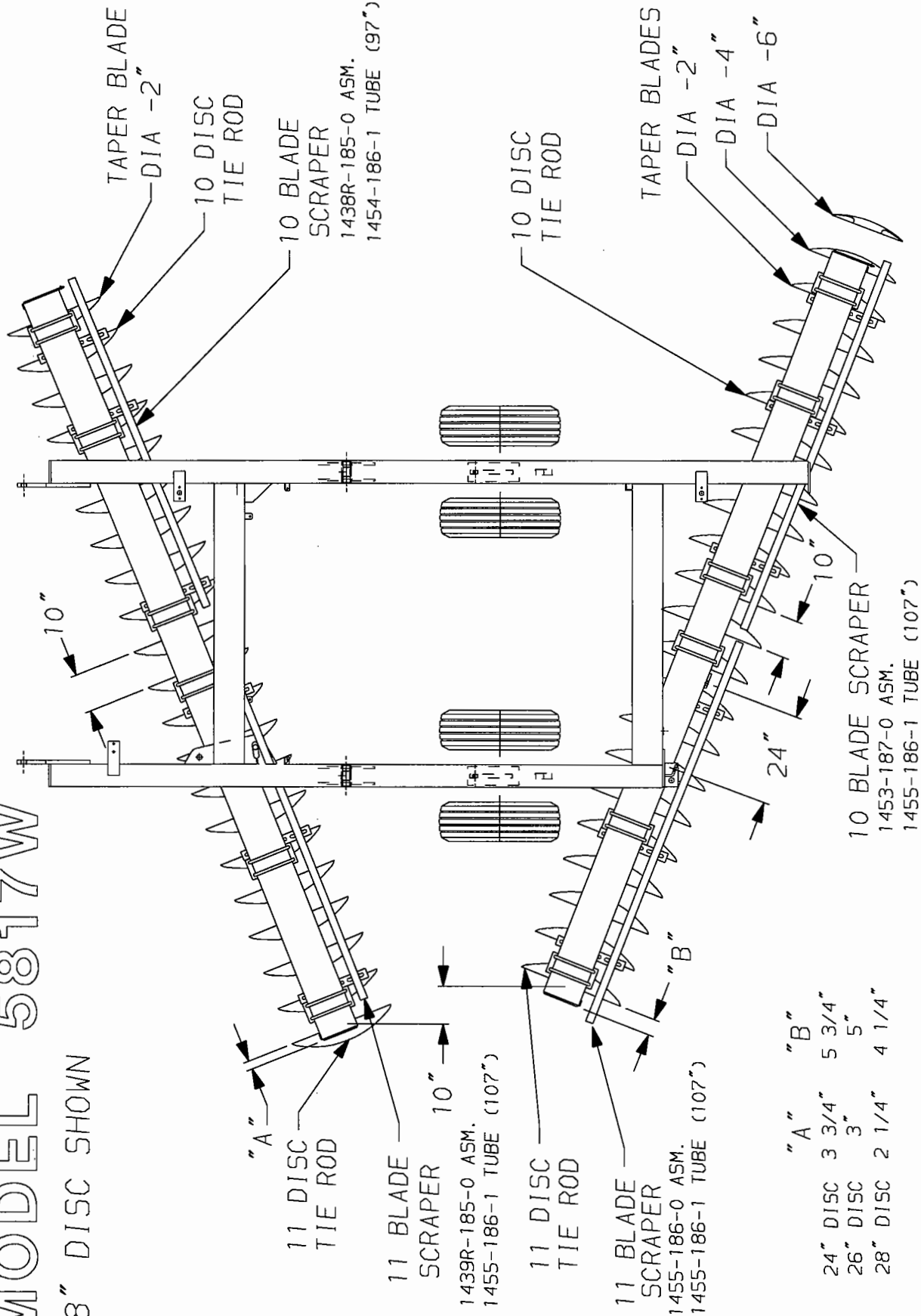


|          | "A"    | "B"    |
|----------|--------|--------|
| 24" DISC | 3 3/4" | 5 3/4" |
| 26" DISC | 3"     | 5"     |
| 28" DISC | 2 1/4" | 4 1/4" |



# MODEL 5817W

28" DISC SHOWN

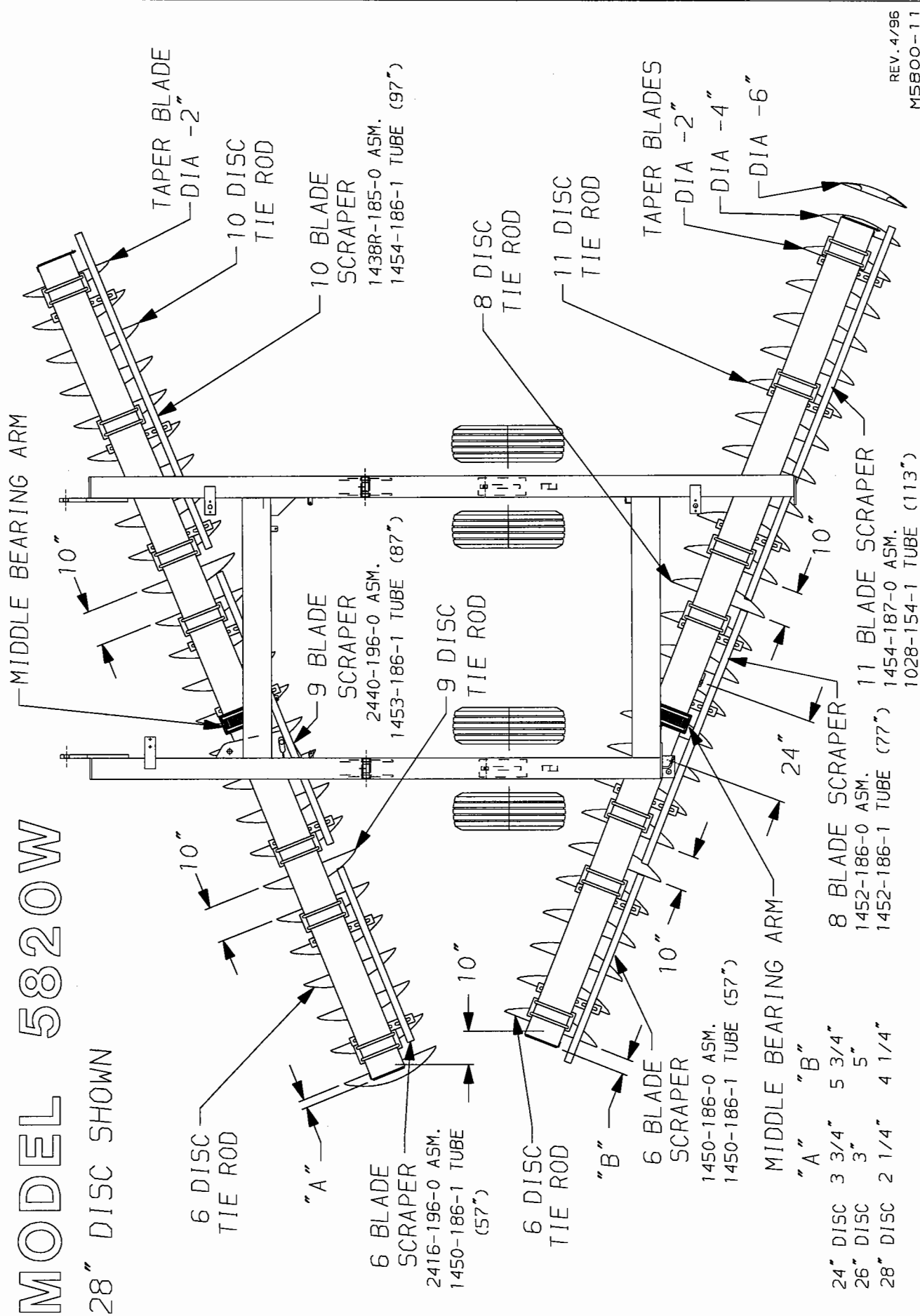


| "A"             | "B"    |
|-----------------|--------|
| 24" DISC 3 3/4" | 5 3/4" |
| 26" DISC 3"     | 5"     |
| 28" DISC 2 1/4" | 4 1/4" |



# MODEL 5820W

28" DISC SHOWN



|          |        |        |
|----------|--------|--------|
| 24" DISC | 3 3/4" | 5 3/4" |
| 26" DISC | 3"     | 5"     |
| 28" DISC | 2 1/4" | 4 1/4" |

8 BLADE SCRAPER  
1452-186-0 ASM.  
1452-186-1 TUBE (77")

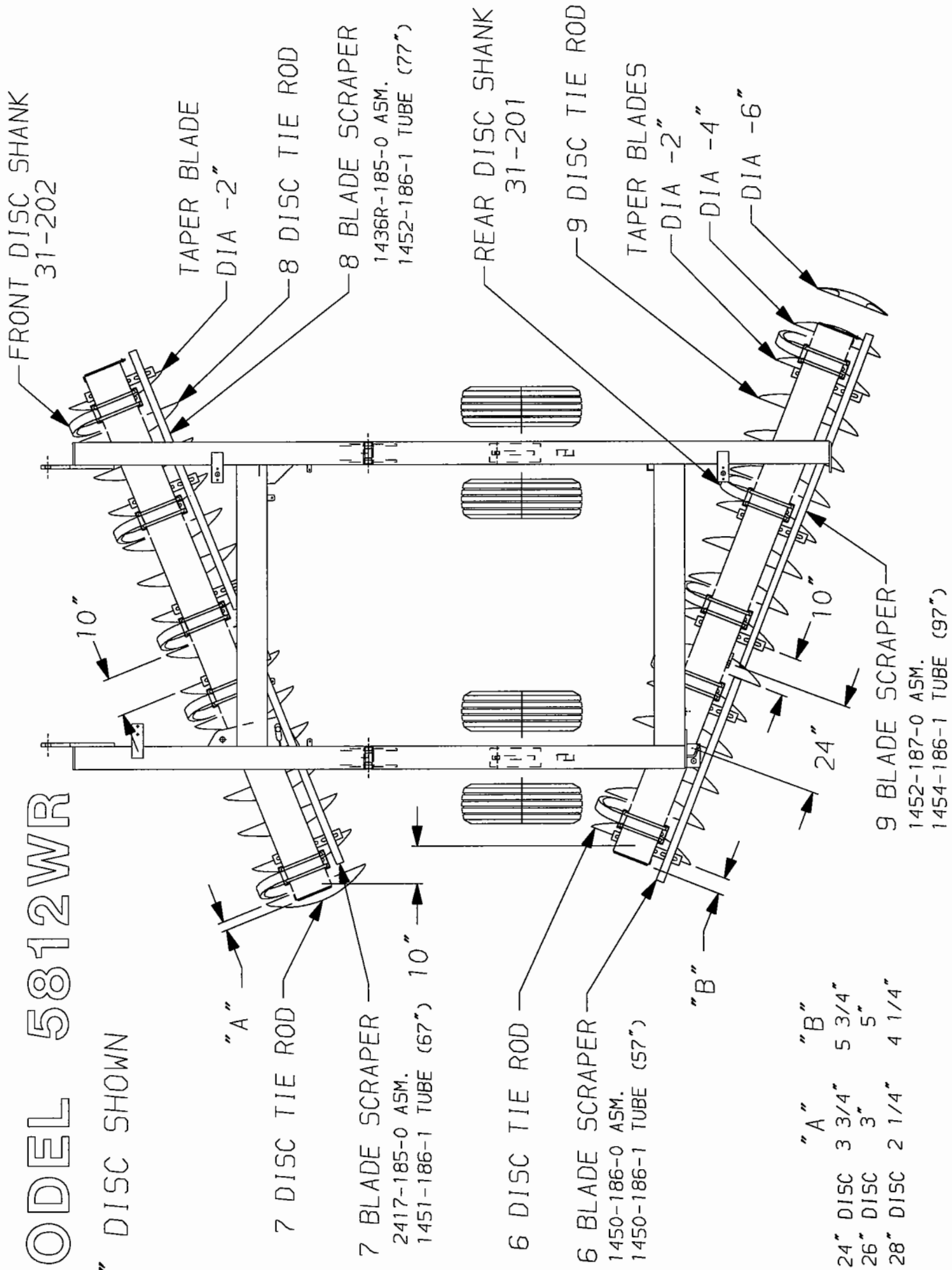
11 BLADE SCRAPER  
1454-187-0 ASM.  
1028-154-1 TUBE (113")





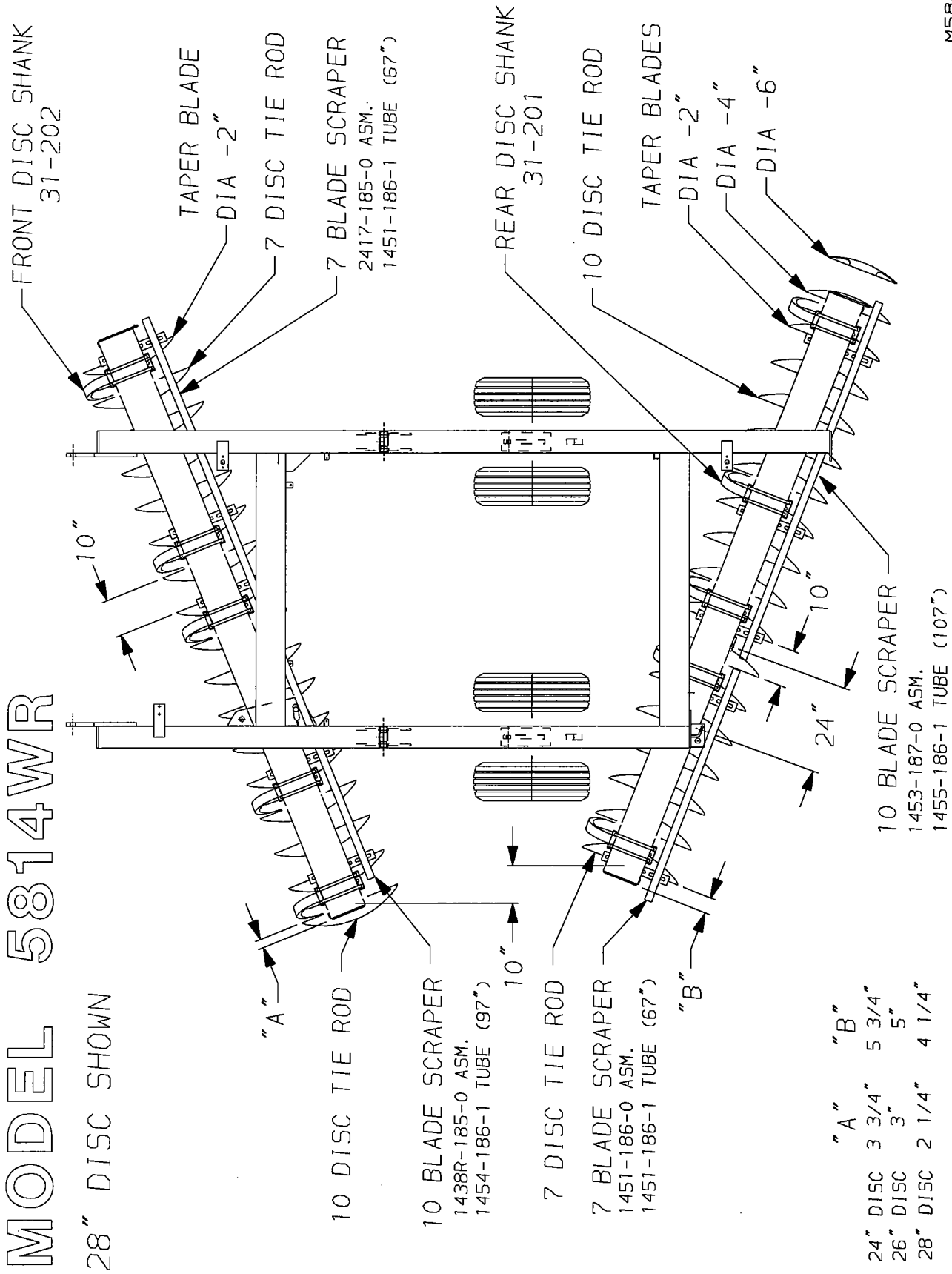
# MODEL 5812WR

28" DISC SHOWN



# MODEL 5814WR

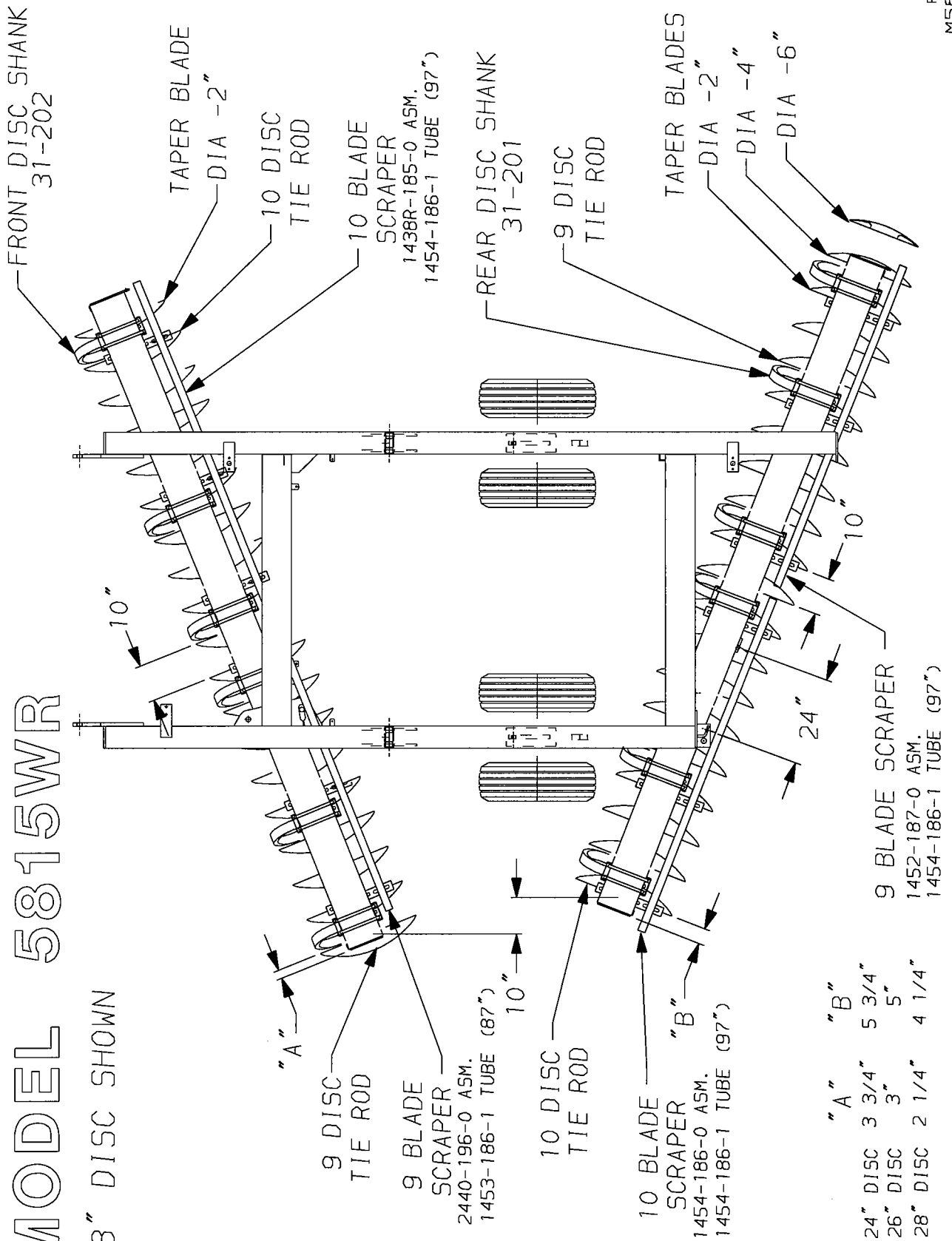
28" DISC SHOWN



|          | "A"    | "B"    |
|----------|--------|--------|
| 24" DISC | 3 3/4" | 5 3/4" |
| 26" DISC | 3"     | 5"     |
| 28" DISC | 2 1/4" | 4 1/4" |

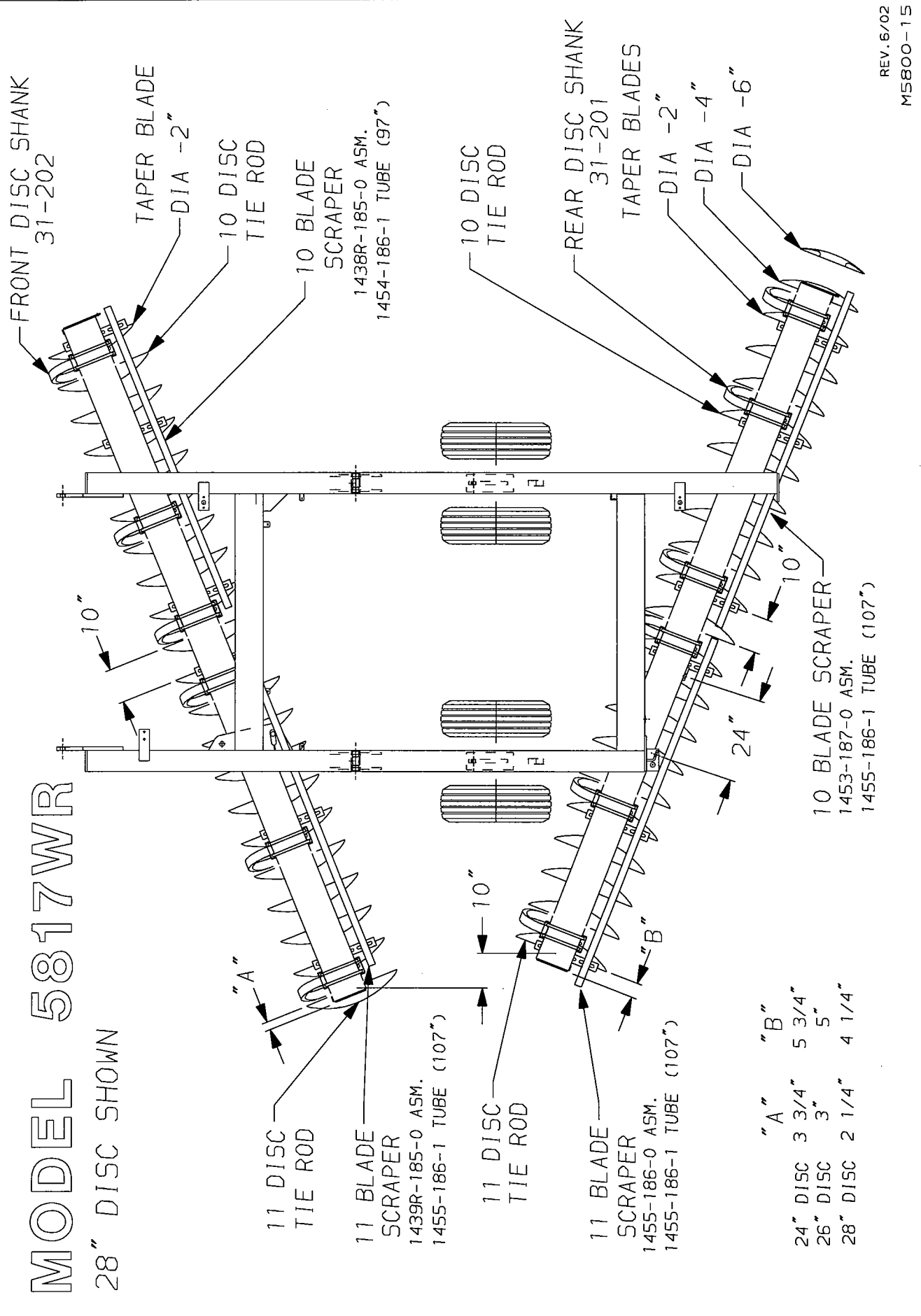
# MODEL 5815WR

28" DISC SHOWN



# MODEL 5817WR

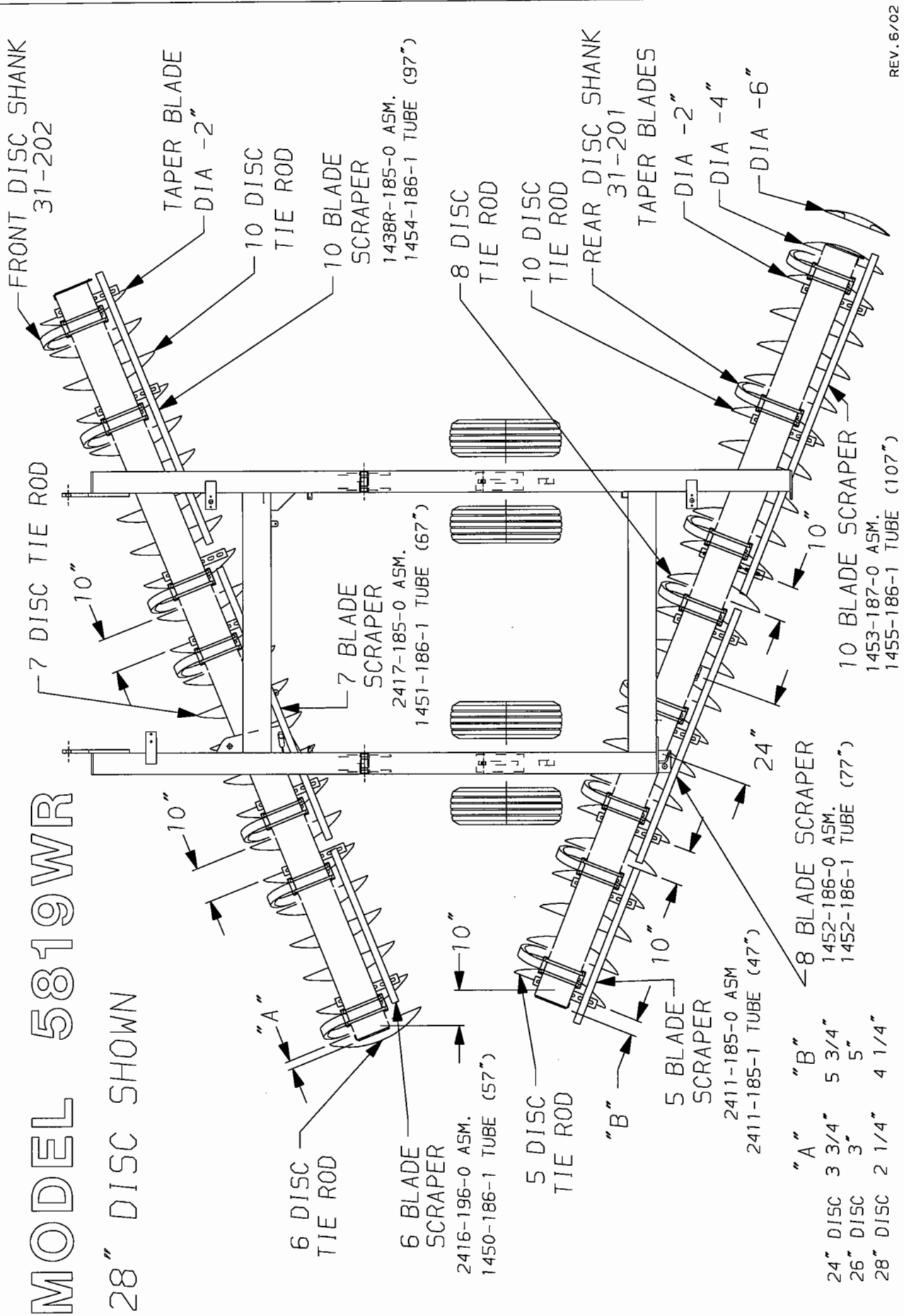
28" DISC SHOWN



|          | "A"    | "B"    |
|----------|--------|--------|
| 24" DISC | 3 3/4" | 5 3/4" |
| 26" DISC | 3"     | 5"     |
| 28" DISC | 2 1/4" | 4 1/4" |

# MODEL 5819WR

28" DISC SHOWN



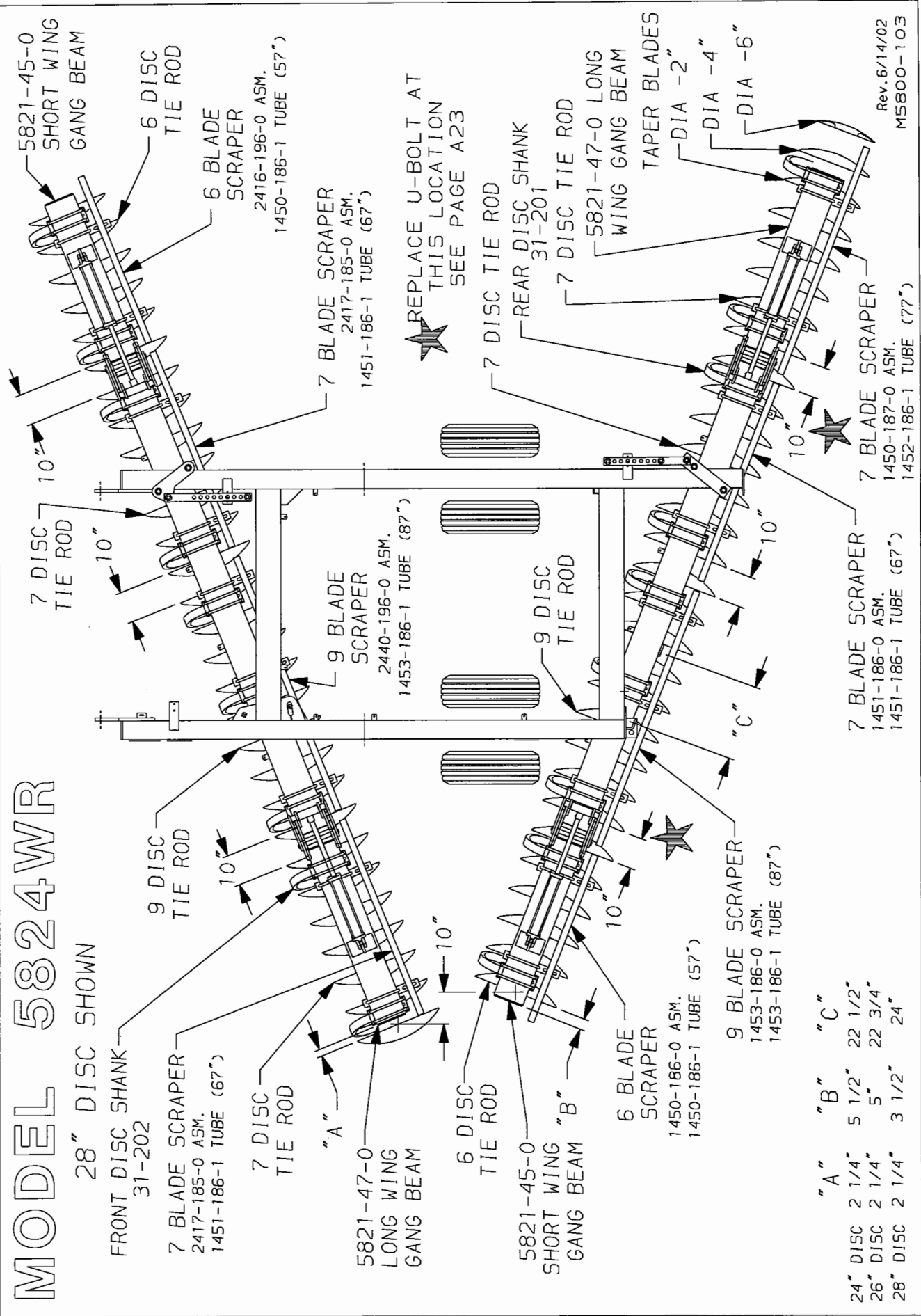
|                 |        |
|-----------------|--------|
| "A"             | "B"    |
| 24" DISC 3 3/4" | 5 3/4" |
| 26" DISC 3"     | 5"     |
| 28" DISC 2 1/4" | 4 1/4" |





# MODEL 5824WR

28" DISC SHOWN



- 5821-45-0 SHORT WING GANG BEAM
- 6 DISC TIE ROD
- 6 BLADE SCRAPER 2416-196-0 ASM. 1450-186-1 TUBE (57")
- 7 BLADE SCRAPER 2417-185-0 ASM. 1451-186-1 TUBE (67")
- 7 DISC TIE ROD
- 9 BLADE SCRAPER 2440-196-0 ASM. 1453-186-1 TUBE (87")
- 9 DISC TIE ROD
- 9 BLADE SCRAPER 1451-186-0 ASM. 1451-186-1 TUBE (67")
- 7 BLADE SCRAPER 1450-187-0 ASM. 1452-186-1 TUBE (77")
- 7 DISC TIE ROD
- 7 DISC TIE ROD
- REAR DISC SHANK 31-201
- 5821-47-0 LONG WING GANG BEAM
- TAPER BLADES DIA -2" DIA -4" DIA -6"
- 7 DISC TIE ROD
- 7 BLADE SCRAPER 1451-186-0 ASM. 1451-186-1 TUBE (67")
- 9 DISC TIE ROD
- 9 BLADE SCRAPER 1453-186-0 ASM. 1453-186-1 TUBE (87")
- 6 BLADE SCRAPER 1450-186-0 ASM. 1450-186-1 TUBE (57")
- 6 BLADE SCRAPER 1451-186-0 ASM. 1453-186-1 TUBE (87")

★ REPLACE U-BOLT AT THIS LOCATION SEE PAGE A23

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|          | "A"    | "B"    | "C"     |
|----------|--------|--------|---------|
| 24" DISC | 2 1/4" | 5 1/2" | 22 1/2" |
| 26" DISC | 2 1/4" | 5"     | 22 3/4" |
| 28" DISC | 2 1/4" | 3 1/2" | 24"     |





# 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.