

Operating Instructions and Parts Reference

77C / 107C DRILLS™

107C DRILL - S.N. 101100017C & UP

77C DRILL - S.N. 77110001C & UP



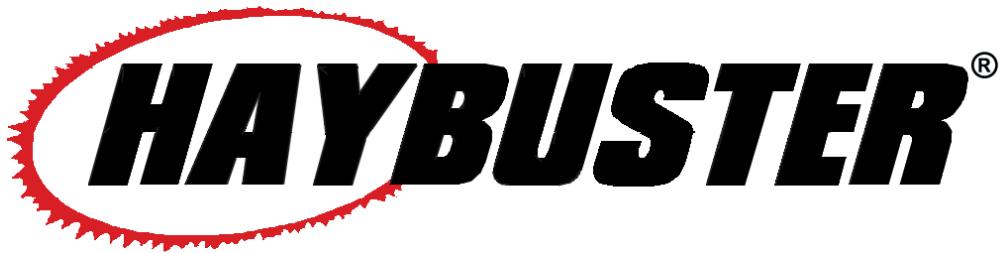
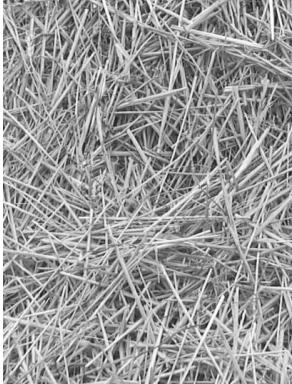
PRODUCT INFORMATION



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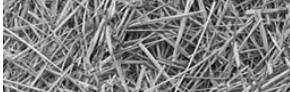
Operating Instructions and Parts Reference

DuraTech Industries International Inc. (DuraTech Industries) has made every effort to assure that this manual completely and accurately describes the operation and maintenance of the 77C/107C DRILLS™ as of the date of publication. DuraTech Industries reserves the right to make updates to the machine from time to time. Even in the event of such updates, you should still find this manual to be appropriate for the safe operation and maintenance of your unit.

This manual, as well as materials provided by component suppliers to DuraTech Industries are all considered to be part of the information package. Every operator is required to read and understand these manuals, and they should be located within easy access for periodic review.

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Foreword

All personnel must read and understand before operating unit

- Foreword and Section 1, important safety information.
- Section 2, "Dealer Preparation," to verify that the machine has been prepared for use.
- Section 3, "Introduction," which explain normal operation of the machine.
- Section 4.1, "Operating Instructions" Pre-Operation Inspection Check List.

Appropriate use of the unit

The 77C / 107C Grain Drill is designed to seed No-Till, Minimum Till, or conventionally tilled fields. The two compartment hopper offers the flexibility of seeding with fertilizer, seeding alone, or planting two different seeds.

Operator protection

As with all machinery, care needs to be taken by the operator in order to insure the safety of the operator and those in the surrounding area.



WARNING: Operators and those observing the operation of the 77C / 107C GRAIN DRILLS are required to wear head, eye, and ear protection. No loose clothing is allowed.

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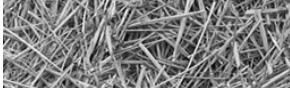


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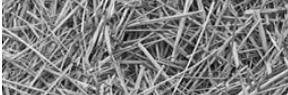
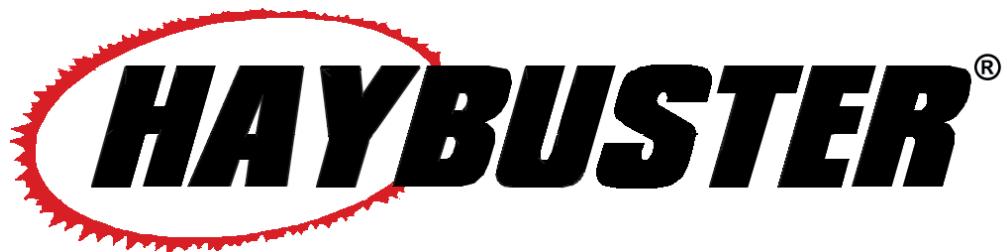
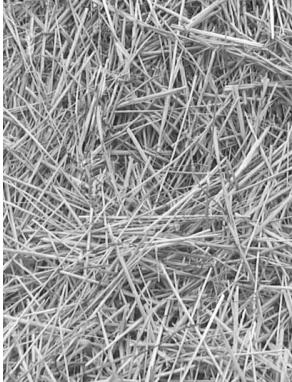


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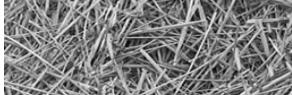


77C/107C DRILLS

107C DRILL - S.N. 101100017C & UP

77C DRILL - S.N. 77110001C & UP

PART 1: Operating Instructions



Introduction

The 77C/107C Grain Drills are designed to seed No-Till, Minimum Till, or conventionally tilled fields. Two 30 gallon tanks are available for added ballast to penetrate the tough no-till conditions.

The two compartment hopper offers the flexibility of seeding with fertilizer, seeding alone, or planting two different seeds. The metering system for each hopper is infinitely adjustable.

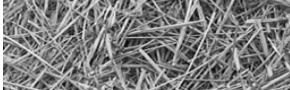
Field hitches are available for one or multiples of two, three, and four of the model 107C Drill only. A tow hitch is also available for the 107C Drill to allow the towing of two or more drills in transport.

Purpose

The purpose of this owner's manual is to explain maintenance requirements and routine adjustments for the most efficient operation of your 77C/107C Grain Drill. There is also a trouble shooting section that may help in case of problems in the field. Any information not covered in this manual may be obtained from your dealer.



Special Note: When reference is made as to front, rear, right hand or left hand of this machine, the reference is always made from standing at the rear end of the machine and looking towards the hitch. Always use serial number and model number when referring to parts or problems. Please obtain your serial number and write it below for your future reference.



Section 1: Safety

The safety of the operator is of great importance to DuraTech Industries/Haybuster. We have provided decals, shielding and other safety features to aid you in using your machine safely. In addition, we ask you to be a careful operator who will properly use and service your Haybuster equipment.



WARNING: FAILURE TO COMPLY WITH SAFETY INSTRUCTIONS THAT FOLLOW WITHIN THIS MANUAL COULD RESULT IN SEVERE PERSONAL INJURY OR DEATH. BEFORE ATTEMPTING TO OPERATE THIS MACHINE, CAREFULLY READ ALL INSTRUCTIONS CONTAINED WITHIN THIS MANUAL. ALSO READ THE INSTRUCTION MANUAL PROVIDED WITH YOUR TRACTOR.

THIS MACHINE IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THOSE EXPLAINED IN THE OPERATOR'S MANUAL, ADVERTISING LITERATURE OR OTHER DURATECH INDUSTRIES WRITTEN MATERIAL PERTAINING TO THE 77C/107C GRAIN DRILL.

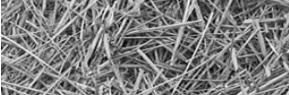
1.1 Safety-alert symbols

Decals are illustrated in **Part 2: Parts Reference**.

The safety decals located on your machine contain important and useful information that will help you operate your equipment safely.

To assure that all decals remain in place and in good condition, follow the instructions below:

- Keep decals clean. Use soap and water - not mineral spirits, adhesive cleaners and other similar cleaners that will damage the decal.
- Replace all damaged or missing decals. When attaching decals, surface temperature of the machine must be at least 40° F (5° C). The surface must be also be clean and dry.
- When replacing a machine component to which a decal is attached, be sure to also replace the decal.
- Replacement decals can be purchased from your Haybuster dealer.



DuraTech Industries uses industry accepted ANSI standards in labeling its products for safety and operational characteristics.



Safety-Alert Symbol

Read and recognize safety information. Be alert to the potential for personal injury when you see this safety-alert symbol.

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations, typically for machine components that, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

This manual uses the symbols to the right to denote important safety instructions and information.

The **DANGER**, **WARNING** and **CAUTION** symbols are used to denote conditions as stated in the text above. Furthermore, the text dealing with these situations is surrounded by a box with a white background, will begin with **DANGER**, **WARNING**, or **CAUTION**.

The **INFORMATION** symbol is used to denote important information or notes in regards to maintenance and use of the machine. The text for this information is surrounded by a box with a light grey background, and will begin with either **Important** or **Note**.



DANGER:

Signal word - White Lettering/Red Background
Safety Alert Symbol - White Triangle/Red Exclamation Point



WARNING:

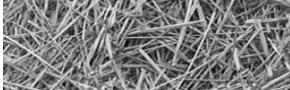
Signal word - Black Lettering/Orange Background
Safety Alert Symbol - Black Triangle/Orange Exclamation Point



CAUTION:

Signal word - Black Lettering/Yellow Background
Safety Alert Symbol - Black Triangle/Yellow Exclamation Point





1.2 Operator - personal equipment

THE OPERATOR

Physical Condition

You must be in good physical condition and mental health and not under the influence of any substance (drugs, alcohol) which might impair vision, dexterity or judgment.

Do not operate a **77C/107C DRILL** when you are fatigued. Be alert - If you get tired while operating your **77C/107C DRILL**, take a break. Fatigue may result in loss of control. Working with any farm equipment can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating

Proper Clothing



Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Avoid loosefitting jackets, scarfs, neckties, jewelry, flared or cuffed pants, unconfined long hair or anything that could become entangled with the machine.



Protect your hands with gloves when handling discs and coulters. Heavy duty, nonslip gloves improve your grip and protect your hands.



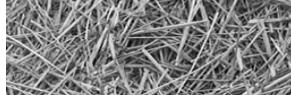
Good footing is most important. Wear sturdy boots with nonslip soles. Steel-toed safety boots are recommended.



To reduce the risk of injury to your eyes never operate a **77C/107C DRILL** unless wearing goggles or properly fitted safety glasses with adequate top and side protection.



Tractor noise may damage your hearing. Always wear sound barriers (ear plugs or ear mufflers) to protect your hearing. Continual and regular users should have their hearing checked regularly.



1.3 Machine safety labels

The safety decals located on your machine contain important information that will help you operate your equipment. Become familiar with the decals and their locations.



WARNING: FOR YOUR PROTECTION AND PROTECTION OF OTHERS, PRACTICE THE FOLLOWING SAFETY RULES.

1. BEFORE OPERATING THIS MACHINE, READ THE OPERATOR'S MANUALS SUPPLIED WITH THIS MACHINE AND YOUR TRACTOR.
2. CHECK OPERATORS MANUALS TO BE SURE YOUR TRACTOR MEETS THE MINIMUM REQUIREMENTS FOR THIS MACHINE.
3. READ ALL DECALS PLACED ON THIS MACHINE FOR YOUR SAFETY AND CONVENIENCE.
4. NEVER ALLOW RIDERS ON THIS IMPLEMENT OR THE TRACTOR.
5. KEEP OTHERS AWAY FROM THIS MACHINE WHILE IN OPERATION.
6. KEEP ALL SHIELDS IN PLACE WHILE MACHINE IS OPERATING.
7. KEEP HANDS, FEET, LOOSE CLOTHING, ETC., AWAY FROM POWER DRIVEN PARTS.
8. ALWAYS SHUT OFF MACHINE AND ENGINE BEFORE SERVICING, UNCLOGGING, INSPECTING, OR WORKING NEAR THIS MACHINE FOR ANY REASON. ALWAYS PLACE TRANSMISSION IN PARK OR SET PARK BRAKE AND WAIT FOR ALL MOVEMENT TO STOP BEFORE APPROACHING THIS MACHINE.



WARNING

FOR YOUR PROTECTION AND PROTECTION OF OTHERS,
PRACTICE THE FOLLOWING SAFETY RULES.

1. BEFORE OPERATING THIS MACHINE, READ THE OPERATOR'S MANUALS SUPPLIED WITH THIS MACHINE AND YOUR TRACTOR.
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3. READ ALL DECALS PLACED ON THIS MACHINE FOR YOUR SAFETY AND CONVENIENCE.
4. NEVER ALLOW RIDERS ON THIS IMPLEMENT OR THE TRACTOR.
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7. KEEP HANDS, FEET, LOOSE CLOTHING, ETC., AWAY FROM POWER DRIVEN PARTS.
8. ALWAYS SHUT OFF MACHINE AND ENGINE BEFORE SERVICING, UNCLOGGING, INSPECTING, OR WORKING NEAR THIS MACHINE FOR ANY REASON. ALWAYS PLACE TRANSMISSION IN PARK OR SET PARK BRAKE AND WAIT FOR ALL MOVEMENT TO STOP BEFORE APPROACHING THIS MACHINE.



ADVERTENCIA

SIGA LAS REGLAS SIGUIENTES DE SEGURIDAD PARA SU
PROTECCION Y LA PROTECCION DE OTROS

1. LEA LOS MANUALES DEL OPERADOR INCLUIDOS CON ESTA MAQUINA Y SU
TRACTOR ANTES DE OPERAR ESTA MAQUINA.
2. VERIFIQUE LOS MANUALES DEL OPERADOR PARA ASEGURAR QUE SU TRACTOR SEASO CON LOS REQUERIMIENTOS
MINIMOS PARA ESTA MAQUINA. REVISE LOS MANUALES DEL OPERADOR.
3. PARA SU SEGURIDAD Y CONVENIENCIA, LEA TODAS LAS CALCOMANIAS
DESEGURIDAD Y CONVENIENCIA.
4. NUNCA PERMITA PASAJEROS EN ESTA MAQUINA O EN EL TRACTOR.
5. MANTENGA A LOS ESPECTADORES ALEJADOS DE LA MAQUINA MIENTRAS ESTA
MAQUINA ESTE OPERANDO.
6. MANTENGA TODOS LOS PROTECTORES EN SU LUGAR MIENTRAS LA
MAQUINA ESTE OPERANDO.
7. MANTENGA LAS MANOS, PIES, ROPAS HOLGADAS, ETC., ALEJADAS
DE LAS PARTES MECANICAS EN FUNCIONAMIENTO.
8. SIEMPRE APAGUE LA MAQUINA Y EL MOTOR ANTES DE PRESTAR SERVICIO,
DESTAPAR, INSPECCIONAR O TRABAJAR CERCA DE ESTA MAQUINA POR
CUALquier RAZON. SIEMPRE PONGA LA TRANSMISION EN PARK O EN ESTACIONAMIENTO Y ENGANCHE EL
FRENOS DE ESTACIONAMIENTO.



WARNING: FOR YOUR PROTECTION KEEP ALL SHIELDS IN PLACE AND SECURED WHILE MACHINE IS OPERATING MOVING PARTS WITHIN CAN CAUSE SEVERE PERSONAL INJURY.



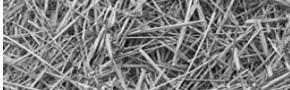
WARNING

FOR YOUR PROTECTION KEEP ALL
SHIELDS IN PLACE AND SECURED
WHILE MACHINE IS OPERATING.
MOVING PARTS WITHIN CAN CAUSE
SEVERE PERSONAL INJURY.



ADVERTENCIA

PARA ASEGURAR SU PROTECCION,
MANTENGA TODOS LOS PROTECTORES EN
SU LUGAR Y ASEGURADOS MIENTRAS LA
MAQUINA ESTE OPERANDO. LAS PIEZAS
MOVILES INTERNAS PUEDEN CAUSAR
LESIONES PERSONALES GRAVES.



WARNING: CHEMICALS MAY CAUSE EYE, SKIN AND BREATHING PROBLEMS.
WEAR FACE MASK, GLOVES AND GOGGLES.
READ AND FOLLOW SAFETY INSTRUCTIONS ON THE CHEMICAL SUPPLIERS LABEL.



WARNING

CHEMICALS MAY CAUSE EYE,SKIN AND BREATHING PROBLEMS.
WEAR FACE MASK, GLOVES AND GOGGLES.
READ AND FOLLOW SAFETY INSTRUCTIONS ON THE CHEMICAL SUPPLIERS LABEL.
5500182



WARNING: NO RIDERS.
SERIOUS PERSONAL INJURY COULD RESULT FROM RIDING ON STEP.



WARNING

NO RIDERS
SERIOUS PERSONAL INJURY COULD
RESULT FROM RIDING ON STEP



ADVERTENCIA

NO MONTE
SERIAS HERIDAS PERSONAL PUEDEN
RESULTAR MONTANDO EL ESCALON



WARNING: DISC BLADES ARE EXTREMELY SHARP!
WEAR HEAVY GLOVES WHEN SERVICING.



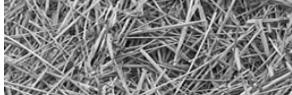
WARNING

Disc blades are *extremely sharp!*
Wear heavy gloves when servicing.



ADVERTENCIA

¡Las cuchillas de disco están
extremadamente afiladas!
Al prestar servicio use guantes gruesos.



1.4 Shielding

Shields are installed for your protection. Keep them in place, and replace damaged shields.

1.5 Personal equipment

Operators of this machine are encouraged to wear head, eye, and ear protection. Loose clothing is discouraged.

1.6 Safety review

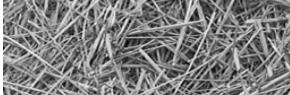
BEFORE OPERATING

- Read and follow all instructions contained in:
 - A. This 77C/107C DRILL Operator's Manual.
 - B. Tractor operator's manual.
 - C. Decals placed on the 77C/107C Drill and Tractor.



NOTE: Additional copies of the above mentioned materials can be obtained from your dealer.

- Be sure all safety shields and covers are securely in place when machine is running.
- Read all warning and instructional decals placed on the machine for your safety and convenience.
- Allow only responsible, properly instructed individuals to operate machine. Carefully supervise inexperienced operators.
- Make no modifications to this equipment unless specifically requested or recommended by DuraTech Industries.
- Tighten or replace any loose or cracked bolts, chains, hoses or connections.
- The towing vehicle must be of equal or greater weight than the grain drill for adequate braking capacity.



DURING OPERATION

- Exercise extreme caution with operating the drill on steep slopes or grades.
- Be sure all spectators are clear of the area where the drill is in operation or raised and lowered.
- Be sure the tractor operator is the only person riding the tractor. Allow no one to ride the drill at any time.
- Remember, loose clothing, necklaces and similar items are more easily caught in moving parts. Avoid the use of these items if possible and keep long hair confined.
- Never work under the drill when the drill is lifted up unless the safety stop bar is in position.
- Watch out for and avoid any object that might interfere with the proper operation of the machine.

DURING SERVICE & MAINTENANCE



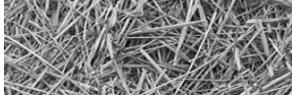
CAUTION: Before performing any maintenance or adjustments make sure machine is NOT running.

- Before working on or near drill for any reason including servicing, lubricating, cleaning, inspecting or refilling, or if working under drill or detaching from tractor, install safety stop bar (next to hydraulic cylinder).
- When replacing any part on your drill, be sure to use only DuraTech Industries authorized parts.
- Relieve all pressure in the hydraulic system before disconnecting the lines or performing other work on the system. Make sure all connections are tight and the hoses and lines are in good condition before applying pressure to the system.



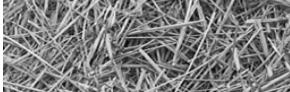
CAUTION: Hydraulic fluid escaping under pressure can be invisible and have enough force to penetrate the skin. When searching for a suspected leak, use a piece of wood or cardboard rather than your hands. If injured, seek medical attention immediately to prevent serious infection or reaction.

- Be careful when using a hoist or other lifting device. Use only devices that have adequate lifting capacity and be sure the chain or cable is securely attached.



WHEN TRANSPORTING ON PUBLIC ROADS

- Use good judgment and drive carefully, especially over rough or uneven roads.
- Be sure tractor brakes are properly adjusted and foot pedals locked together.
- Check your state laws regarding the use of lights, slow moving vehicle sign, safety chain and other possible requirements.
- Do not tow drills at speeds over 20 mph. It is recommended that drills be empty of seed or fertilizer when transporting.



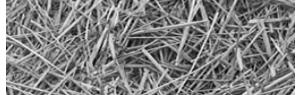
IMPORTANT WINCH SAFETY INFORMATION

- The winch is built for multipurpose hauling and lifting operations. It is not to be used as a hoist for lifting, supporting or transporting people, or for loads over areas where people could be present.
- Respect the winch. High forces are created when using a winch, creating potential safety hazards. It should be operated and maintained in accordance with instructions. Never allow children or anyone who is not familiar with the operation of the winch to use it. A winch accident could result in personal injury.
- Check winch for proper operation on each use. Do not use if damaged. Seek immediate repairs.
- Never exceed rated capacity. Excess load may cause premature failure and could result in serious personal injury.
- Never apply load on winch with cable fully extended. Keep at least three full turns of cable on the reel.
- Secure load properly. When winching operation is complete, do not depend on winch to support load.
- Operate with hand power only. This winch should not be operated with a motor of any kind. If the winch cannot be cranked easily with one hand, it is probably overloaded.



FAILURE TO COMPLY WITH ANY OF THE ABOVE SAFETY INSTRUCTIONS OR THOSE THAT FOLLOW WITHIN THIS MANUAL MAY RESULT IN SEVERE INJURY OR DEATH.

THIS DRILL IS NOT TO BE USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS INTENDED AS EXPLAINED IN THE OPERATOR'S MANUAL, ADVERTISING MATERIALS AND OTHER PERTINENT WRITTEN MATERIAL. PREPARED BY DURATECH INDUSTRIES.



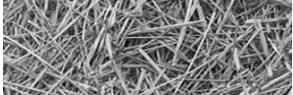
Section 2: Dealer Preparation

2.1 Gauge Wheel Attachment

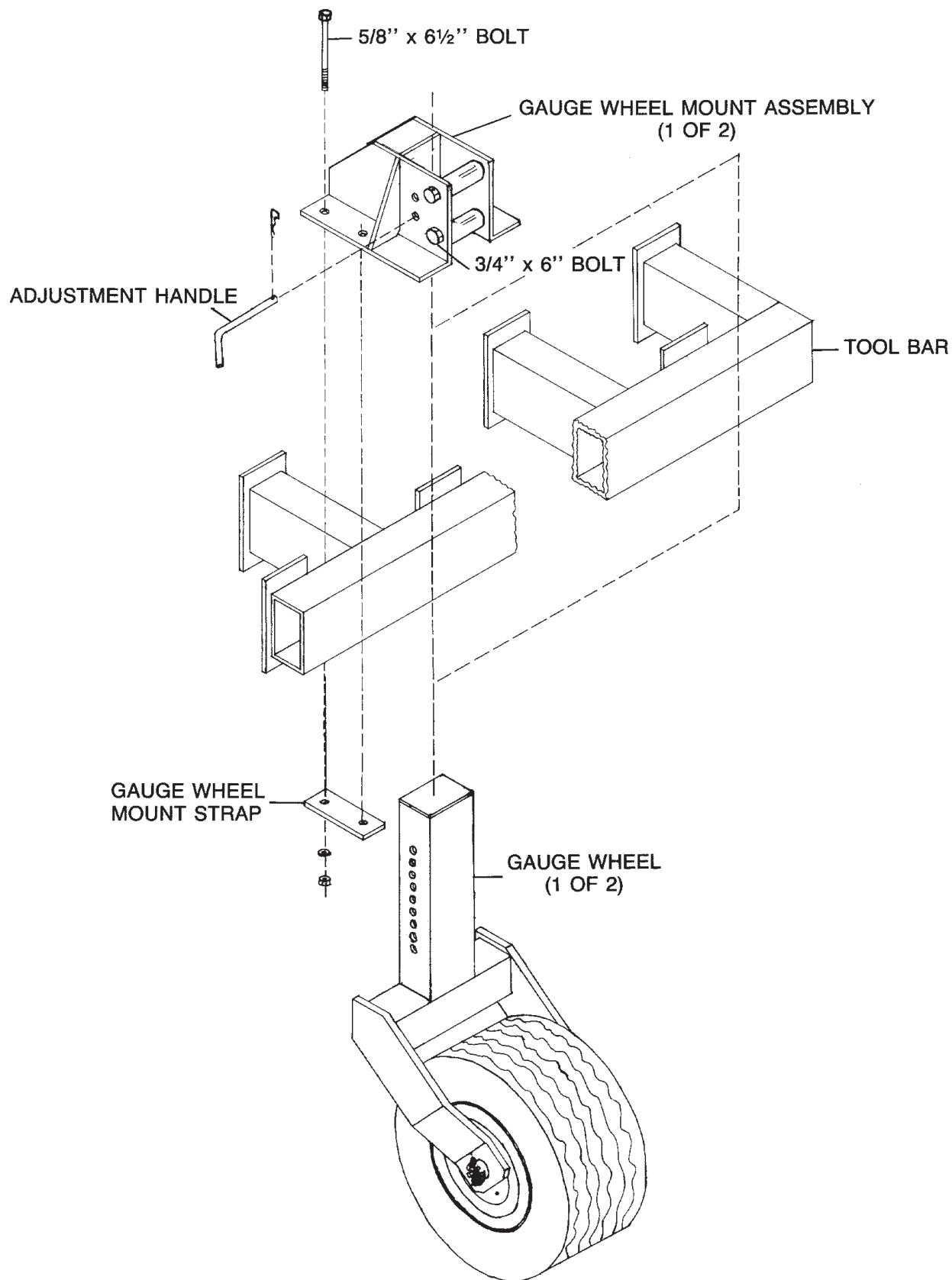
The heavy duty gauge wheels mount on the tool bar in front of the drill. The gauge wheels are adjustable to maintain a uniform planting depth when on side hills.

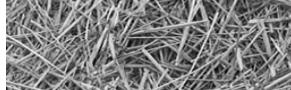
INSTALLATION

- Step 1:** Place the gauge wheel mount assembly in front of the second run assembly from either tool bar end. See the accompanying illustration.
- Step 2:** Mount the gauge wheel mount assembly to the tool bar by using two gauge wheel mount straps and four 5/8" x 6-1/2" hex bolts, lock washer and nuts provided. See accompanying illustration.
- Step 3:** Repeat Step 1 and Step 2 for the gauge wheel on the other side of the tool bar.
- Step 4:** Lift the tool bar using the drill's hydraulics and insert both gauge wheels into the bottom of the gauge wheel mount assemblies. See the accompanying illustration.
- Step 5:** If conditions prevent Step 4 from being done, the gauge wheels can be inserted into the front of the gauge wheel mount assemblies. To do this, remove all four bolt sleeves (two per gauge wheel mount assembly) by unbolting the four 3/4" x 6" hex bolts, lock washers and nuts and push the gauge wheels into the mount assemblies. Bolt the bolt sleeves on to the gauge wheel mount assemblies again.
- Step 6:** Adjust the gauge wheels to the desired position by inserting the adjustment handle through the proper gauge wheel adjustment with the hair pin. This adjustment determines the gauge wheel height that maintains the uniform planting depth on side hills. See the accompanying illustration.



Gauge Wheel (Option) Installation



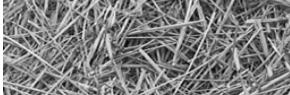


2.2 Drill Legume Box Attachment

The legume box attachment features fluted-feed cups which are capable of accurately metering small seeds even at very low rates. The hopper will hold up to 150 lbs. of seed.

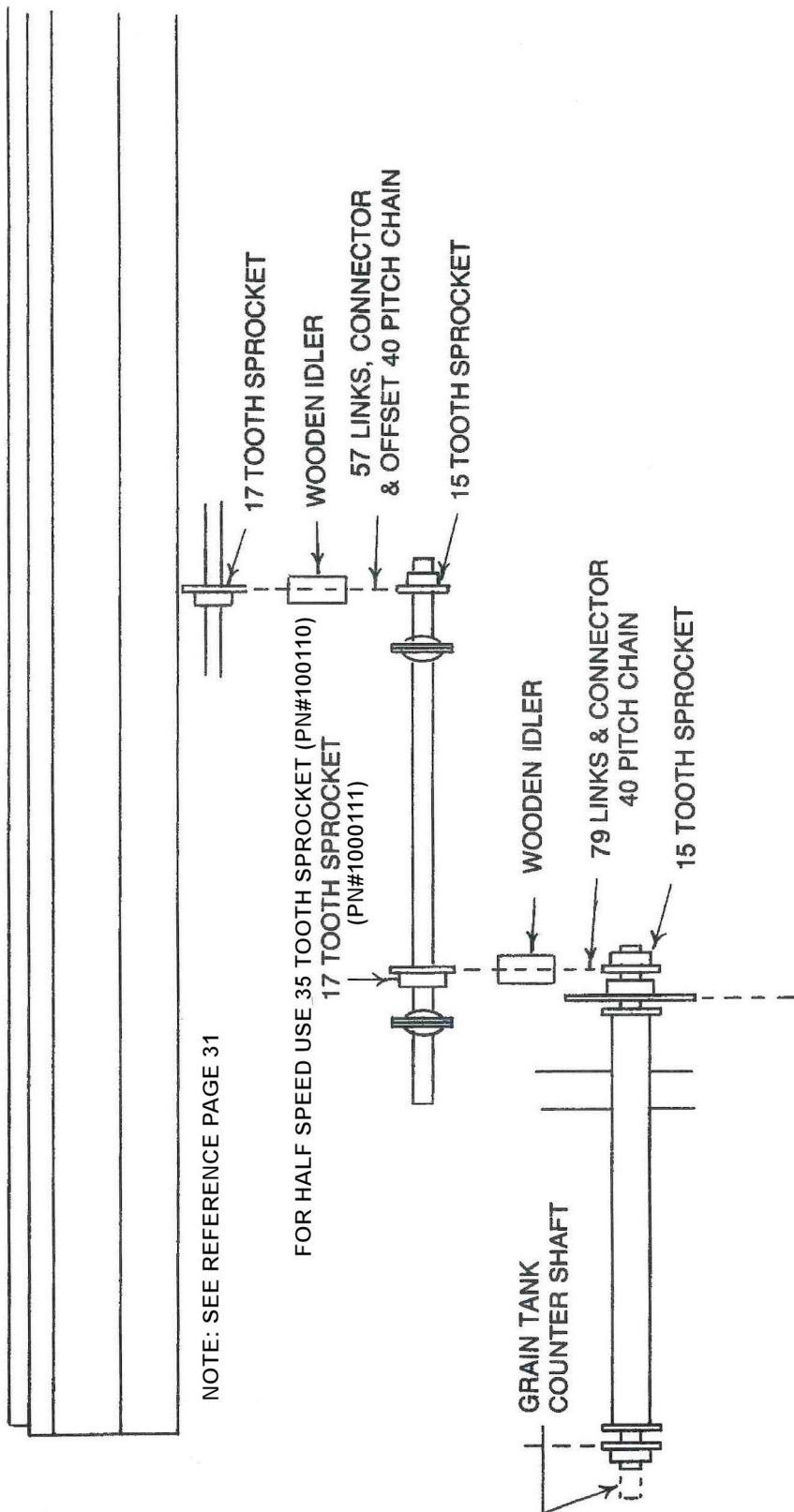
INSTALLATION

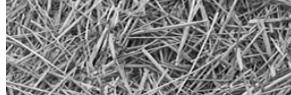
- Step 1:** Drill four 7/16" diameter holes in the front (grain) box as shown in Figure 1. Measure these holes carefully and use a good center punch to mark locations before drilling. Loosely bolt the mounting bracket to the grain box observing left hand and right hand parts.
- Step 2:** Remove the convoluted grain hoses and unbolt the cup assemblies from the grain tank. Replace with modified cup assemblies provided with the legume box kit. Reattach the convoluted grain hoses to the cups.
- Step 3:** Loosen chains, sprockets and bearings and move countershaft on grain tank. Reinstall existing bearings, sprockets and chains and install 15 tooth sprocket as shown in Figure 2.
- Step 4:** Bolt legume box to grain tank using the four 3/8" x 1" bolts provided. The mounts welded to the rear of the legume box should go between the mounting brackets installed in Step 1. Tighten all mounting bolts securely.
- Step 5:** Bolt the two bearing standards to the brackets on the legume box using six 5/16 x 3/4" carriage bolts, flat washers, lock washers and nuts. Align the bearing standards before tightening bolts. Loosely bolt the bearings to the outside of the bearing standards using the four 5/16" x 3/4" carriage bolts. Install the 29" shaft with the 17 tooth sprocket BETWEEN the bearings as shown in Figure 2. Install two wooden block chain tightener using 3/8" x 2-1/2" bolts, two flat washers, lock washer and nuts. Tighten the drive chains.
- Step 6:** Cut 5/8" I.D. clear plastic hose to 22" lengths. Eighteen are required. Install hoses on the grain cups first and then on legume box cups. Dipping the ends in a liquid soap solution (one part soap to one part water) will ease installation of the hoses.



Legume Box (Option) Installation

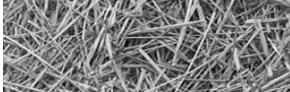
FIGURE 2





2.3 Legume Hopper Shipping Kit (Optional)

ITEM	PART NO.	QTY.	DESCRIPTION
1	8700001	1	BRKT\LEGUME\LH\LEG-BOX
2	8700002	1	BRKT\LEGUME\RH\LEG-BOX
3	8700003	4	STRAP\LEGUMEBOX
4	8700008	1	BRG\BOX\LEGUME\RH
5	8700009	1	BRG\BOX\LEGUME\LH
6	2000002	2	BRG\1" W/LOCK\COLLAR
7	2000703	4	FLGETT\1\2BOLT\PLTD
8	2000016	2	BLKWD\IDLER
9	8700011	1	SHFT\1X29\LEGUMEBOX
10	1000111	1	SPKT\B\40\17\1\1/4KW\SOFT
11	1000112	2	SPKT\B\40\15\1\1/4KW
12	6200010	3	KEY\SQ\1/4X1
13	1100232	1	CHAIN\40NP\53
14	1100246	1	CHAIN\40NP\79
15	1100224	2	CHAIN\40NP\CL
16	1100225	2	CHAIN\40NP\OL
17	3700129	18	HOSE\PVC\5/8IDX22-1/2\CLR
18	4800098	4	BOLT\HEX\3/8X1-1/4\INC
19	4800156	4	BOLT\HEX\3/8X3
20	4800029	2	BOLT\HEX\3/8X2-1/2
21	4800003	4	BOLT\HEX\3/8X1
22	4900002	14	NUT\HEX\3/8\NC
23	5000019	14	WASH\LOCK\3/8
24	500000 1	4	WASH\FLAT\3/8
25	4800153	10	BOLT\CRG\5/16X3/4\NC
26	4900003	10	NUT\HEX\5/16\NC
27	5000022	10	WASH\LOCK\5/16



Section 3: Introduction

Every effort has been made to ensure that the information contained in this manual is correct at the date of publication; but, due to continuous improvements, DuraTech Industries reserves the right to make changes in the contents without notice or obligation.

This manual is shipped with each machine to familiarize the operator with the proper operating, maintenance and lubrication instructions to insure the best possible performance and service from the machine. Study and understand these instructions thoroughly before operating the machine. We recommend that this manual be readily available for reference at all times. Consult your DuraTech Industries dealer if any items in this manual are not understood.

DuraTech reserves the right to make changes in engineering, design and specifications, add improvements, or discontinue manufacture at any time without notice or obligation.

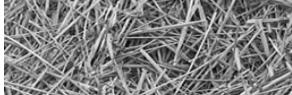
3.1 Ordering Parts

When ordering parts always specify your model number, serial number, and the number of the parts you wish to order.



IMPORTANT: WHEN REPLACEMENT PARTS ARE NEEDED, USE THE LISTED PART NUMBERS AND DESCRIPTIONS TO INSURE FAST AND ACCURATE SHIPMENT OF YOUR ORDER. WHEN ORDERING PARTS ALWAYS SPECIFY UNIT SERIAL NUMBER.

ONLY AUTHORIZED PARTS SHOULD BE USED FOR REPAIR AND/OR REPLACEMENT.



3.2 Serial Number Decal

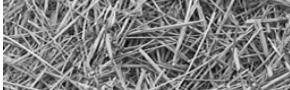
The serial number and the machine model number are stamped on the decal. The model number and serial number are important when service and/or parts are required.

3.3 About your 77C/107C Grain Drill

The 77C/107C Grain Drill is designed to seed No-Till, Minimum Till, or conventionally tilled fields. Two 30 gallon tanks are available for added ballast to penetrate the tough no-till conditions.

The two compartment hopper offers the flexibility of seeding with fertilizer, seeding alone, or planting two different seeds. The metering system for each hopper is infinitely adjustable.

Field hitches are available for one or multiples of two, three, and four of the model 107C Drill only. A tow hitch is also available for the 107C Drill to allow the towing of two or more drills in transport.



Section 4: Operating Instructions

To insure long life and economical operation, we highly recommend the operator of the 77C/107C Grain Drill be thoroughly instructed in the maintenance and operation of the machine. There is no substitute for a sound, preventative maintenance program and a well-trained operator.

Prior to operating the Grain Drill, we recommend the operator make a visual inspection of the unit. This can be done as the lubrication is being carried out.

4.1 Operating Instructions

Check the following:

- Hydraulic components for leaks or damage.

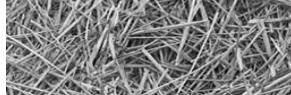


WARNING: Hydraulic fluid escaping under pressure can be almost invisible and can have sufficient force to penetrate the skin. When searching for suspected leaks, use a piece of wood or cardboard rather than your hands.
If injured, seek medical attention immediately to prevent serious infection or reaction.

- Lug nuts for tightness.
- Condition of tire rims.
- Tires for proper air pressure.
- Condition of rubber convoluted hoses.
- Adjustment of all chains.
- Installation and condition of shields.
- Installation of Slow Moving Vehicle (SMV) sign.
- Condition of decals.



WARNING: Before attempting to operate this machine, refer again to Section 1 (pages 3-11) for important safety information.



4.2 Grain Drill Setup

The 77C/107C Grain Drill may be shipped without the hydraulic lift cylinder, since the grain drill used a standard 3" x 8" cylinder. The retracted length must be 20-1/4", measured from the center of the mounting holes. When multiple grain drills are used, a cylinder will be required for each grain drill.

- Set the wheels on your tractor out as wide as possible for maximum stability.
- Hitch the grain drill to the tractor.
- Connect the hydraulic hoses to the tractor's hydraulic system.

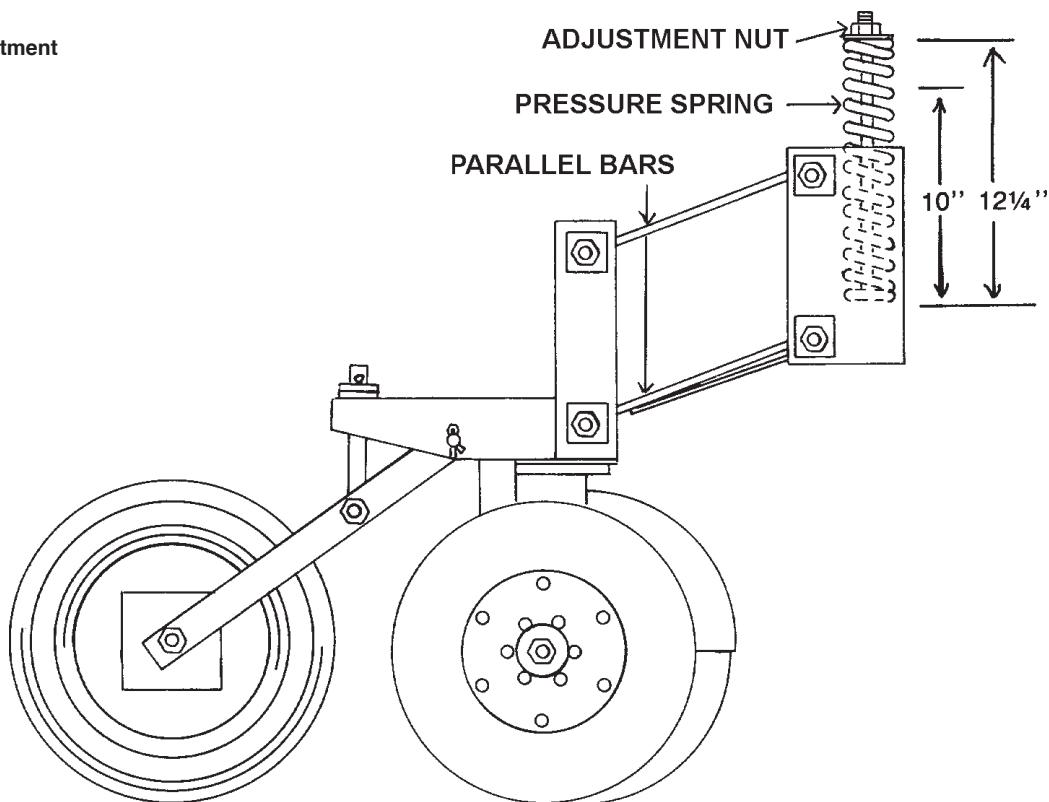
4.3 Pressure Spring Adjustment

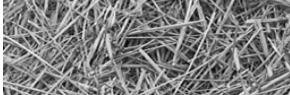
To gain versatility for all types of terrain and soil conditions, it is important to have a considerable amount of up and down travel built into each individual run. When seeding on level terrain, adjust hydraulic cylinder stroke to lower Movable Frame so openers penetrate soil approximately two (2) inches and Parallel Bars are about level when viewed from the side. The toolbar height will be about 20" when discs are new. This will allow runs to move up or down according to terrain.

If parallel bars are not level, it will be necessary to adjust pressure spring, or press wheel adjustment.

Proper tension of the pressure spring varies with conditions. No-till seeding may require more down pressure; loose soil requires less. Since the pressure springs work together with the opener depth adjustment controlled by the hydraulic cylinder, make sure that the opener depth adjustment is set correctly.

pressure spring adjustment





In extremely loose soils such as freshly worked summer fallow, it will be necessary to lessen tension on pressure spring instead of lessening hydraulic cylinder stroke.

To adjust the pressure springs:

1. Make sure the movable frame is raised completely up and the safety stop bar is secured.
2. Using the adjustment nut on each pressure spring, adjust the spring to the desired length. See table at right showing the opener pressure obtained at various spring lengths. Under no circumstances should the spring be adjusted to less than 10 inches. This may damage the spring and related parts and will also void the warranty on these parts.

SPRING LENGTH	OPENER PRESSURE
12½ IN.	135 LBS.
11½ IN.	180 LBS.
11 IN.	205 LBS.
10½ IN.	235 LBS.
10 IN.	300 LBS.

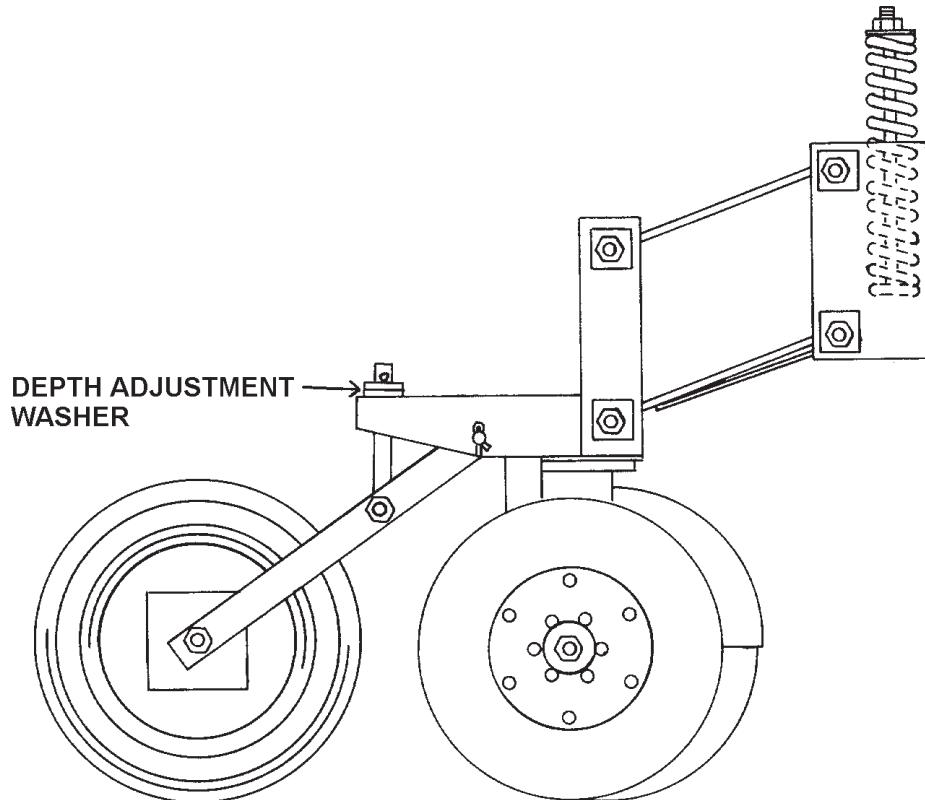
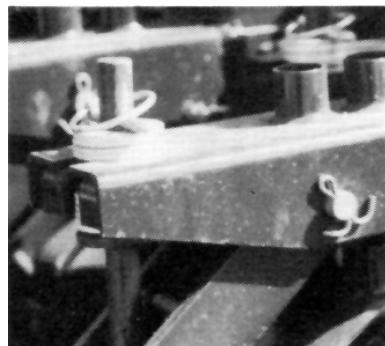
4.4 Press Wheel Adjustment

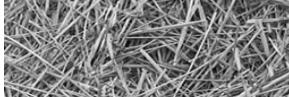
In addition to firming the soil around the seed, the press wheels serve as gauge wheels for the openers. The relationship of each press wheel and opener will remain consistent regardless of terrain or soil density. If the seed is too deep, lower the press wheel. If the seed is too shallow, raise the press wheel.

To adjust the press wheel height:

1. Remove quick attachment pin.
2. To lower the press wheel, relocate shim washers from top to bottom. To raise the press wheel, relocate shim washers from bottom to top.
3. Install quick attachment.

depth adjustment washer for serial numbers 401 and up

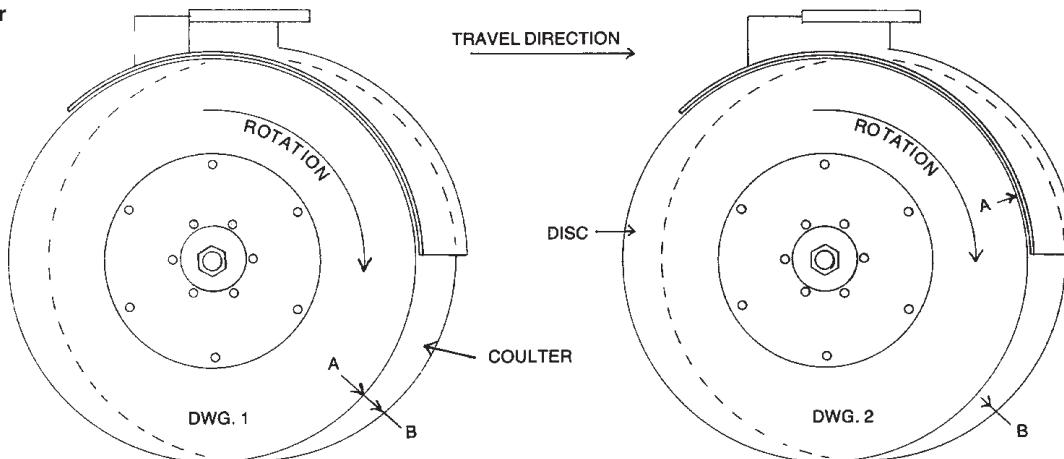




4.5 Haybuster 77C/107C Drill Opener

The 77C/107C Drill uses a coulter-disk offset opener. The coulter blade leads the disk by 1-1/2". Both blades are the same size and due to the offset, there is some sliding action where the blades contact. This sliding or scissor action provides excellent residue cutting action at ground level, especially in wet residue. The scissor action causes some wear into the coulter blade at the point of contact. This wear is normal and the heavier coulter blade is bolted to the bearing cage to allow easy replacement.

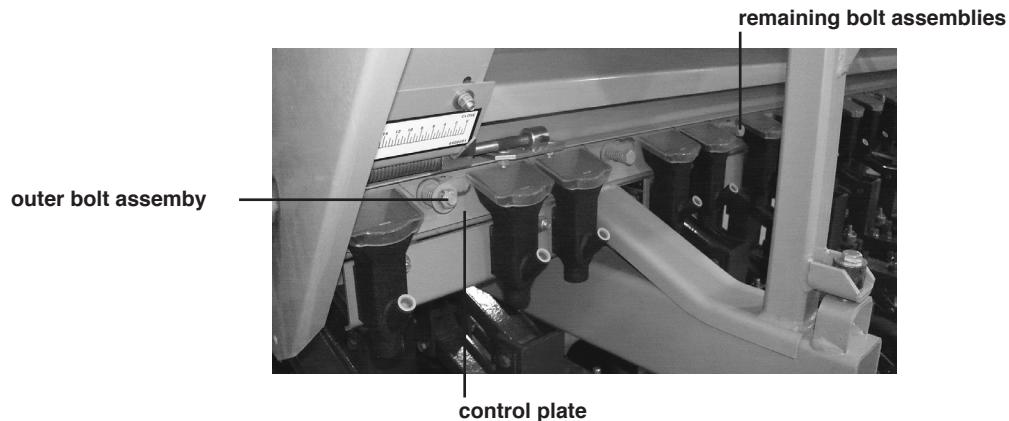
depth adjustment washer for
serial numbers 401 and up

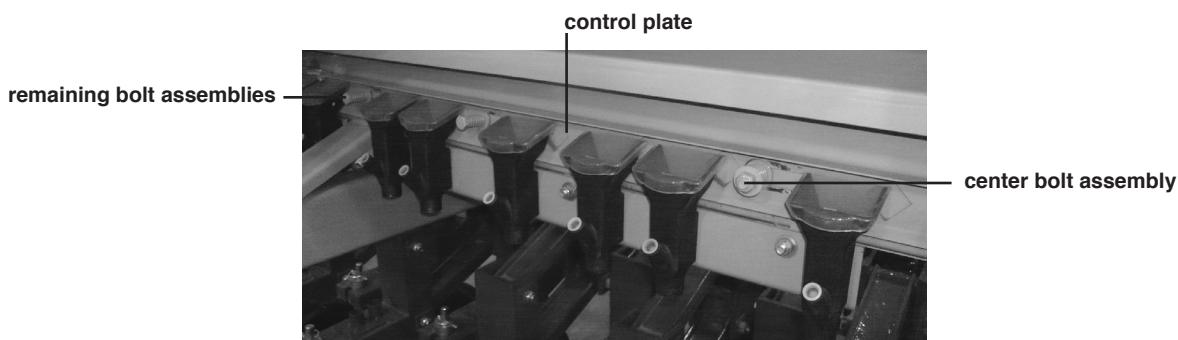
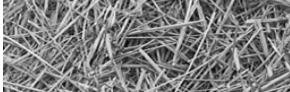


One complete turn changes points A and B (DWG. 1) the amount shown in DWG. 2. It takes 6 turns to bring points A and B back together.

4.5A Control Plates

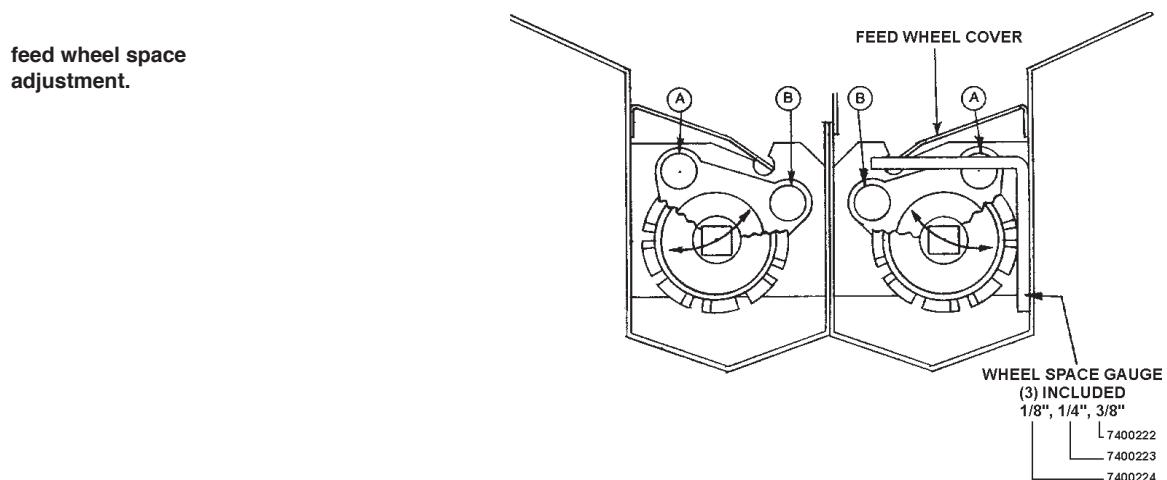
Control plates are mounted using a spring, bolt, guide tube, washers and nut assemblies. The two outer and center assemblies use a larger washer, guide tube, washer, bolt and top locknut. When installing these assemblies, tighten the bolt until the guide tube is tight against the tank. The remaining assemblies use a spring, washers, bolt and a top locknut. On these remaining assemblies, the springs should be tightened to 1-1/16" - 1-1/8".





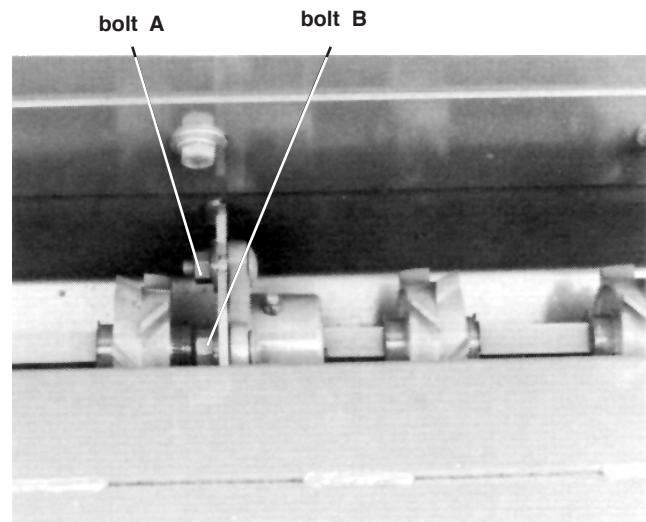
4.6 Feed Wheel Space Adjustment

Large seeds require more space between feed wheel lugs and tank wall than small seeds to prevent cracking. Small seeds require less space to provide an even flow. Therefore each seed listed in the feed rate chart, pages 28 to 31, shows a required wheel space.

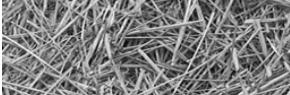


FEED WHEEL SPACE ADJUSTMENT

1. Remove the feed wheel covers.
2. Loosen the eight bolts A and B. There are four sets of bolts for each feed wheel - two on the outer end of the hopper and six inside the hopper.
3. Select the proper space gauge using the wheel space chart.
4. Install the proper space gauge as shown.
5. Slide the feed wheel toward the gauge until the feed wheel lugs, gauge and hopper are pressed together. Tighten the eight bolts.
6. Recheck the feed wheel space adjustment.
7. Install the feed wheel covers.



The feed wheel space adjustment provides the proper clearance for the type of seed or fertilizer being used.

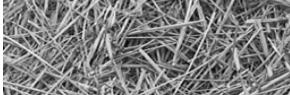


4.7 Drill Cleanout Slides

Cleanout slides are provided on both grain and fertilizer tanks. Handles for opening and closing the slides are located on the left side of the drill.

drill cleanout slides





4.8 Calibration Pointer Adjustment

Grain and fertilizer sliding gates are preadjusted at the factory. In the event any part of the calibrating mechanism is removed or replaced, it can be recalibrated in this order:

1. Place both pointer nut and anchor nut in the center of their respective thread.
2. Insert a short length of 7/16" rod or the shank end of a 7/16" drill bit into the square hole in sliding gate as shown.(figure 4.1)
3. Tighten bearing bolts securing calibration screw to end of tank.
4. Tighten bolts securing anchor nut to sliding gate.
5. Place scale plate on tank so number 8 is directly in line with top of pointer. This will insure pointer setting to coincide with chart. Scale plate must be parallel with calibration screw to allow pointer to operate smoothly along plate.

calibration pointer
adjustment

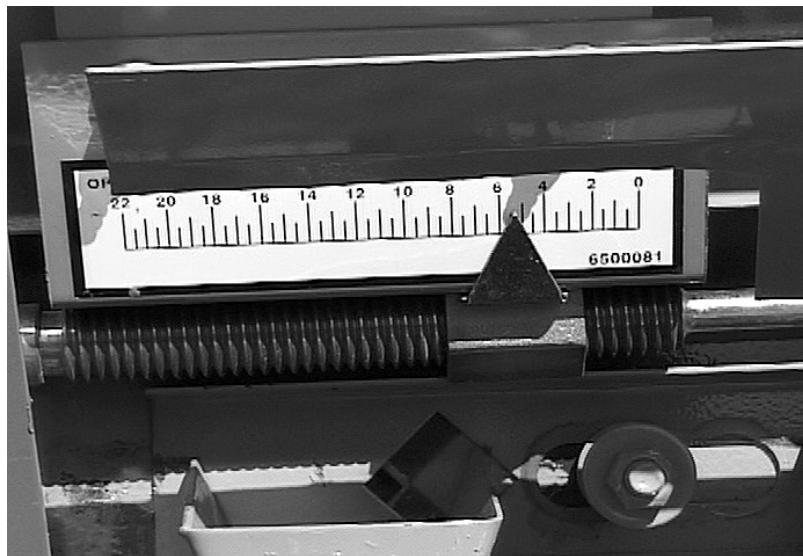
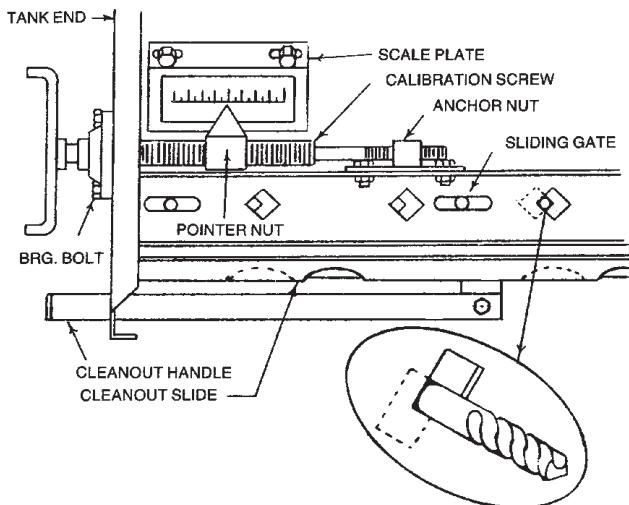
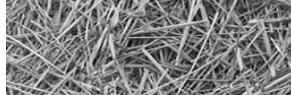


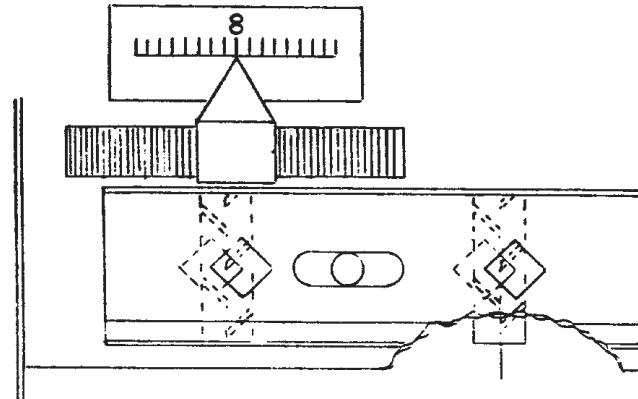
figure 4.1





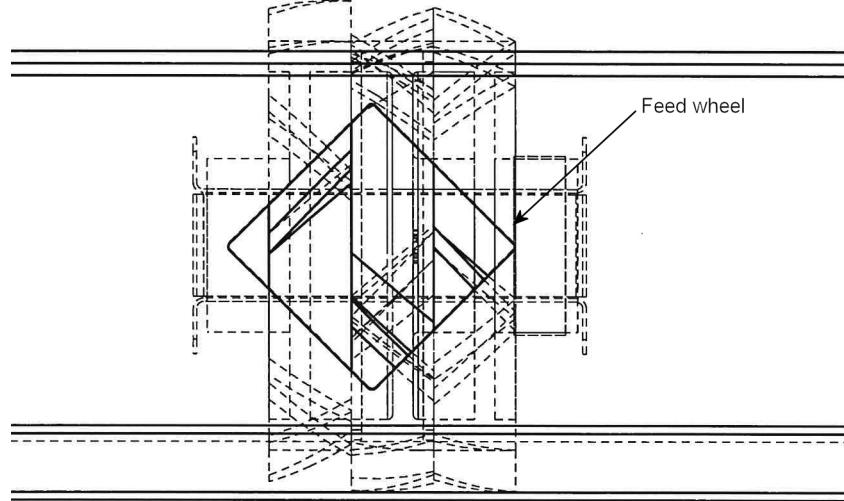
4.9 SETTING AND CHECKING FEED RATE

front feed wheel alignment



For most seeding, the front feed wheel should be aligned as shown above. Set the pointer on number 8. The center of the front feed wheel should be centered in the opening as viewed from outside of the box.

Rear feed wheel alignment

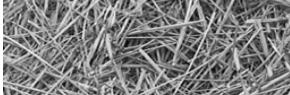


Setting the rear feed wheel, set pointer on number 22. The right edge of the rear feed wheel should line up with the right point of the diamond as viewed from outside of the box.

The rates shown on the charts serve only as a starting point. Due to variations in material size and density the rates may vary from the chart. The following methods may be used to determine the proper setting for your particular seed or fertilizer.

Setting and checking feed rate using wheat as an example.

1. You want to seed wheat at a rate of 95 lbs. per acre on 7" spacing.
2. Seed rate charts calls for a wheel space of 1/8" (page 28). Pointer set on 8 (see illustration above). The adjustment should be made before filling grain tank.
3. Make sure feed wheel cover is in place. Put grain in tank.
4. Seed far enough so you can visually check grain flowing into seed cups.



The addition of the single agitator to the standard drill box will prevent these seeds from bridging above the feed wheels. The single agitator may be added to all 77C/107C drills.

Alti wildrye
Bromegrass #
Intermediate wheatgrass
Killdeer sideoats #
Pubescent wheatgrass
Streambank wheatgrass
Tall wheatgrass
Western wheatgrass

Extremely trashy samples may require the double agitator.

4.10 CHECKING FEED RATE

1. Measure a distance of 415' on a drill with 7" spacing and mark. Remove one hose from seed hopper on each drill. Attach a container (cloth or plastic bag) to hopper to collect seed.
2. Operate drill at intended planting speed through entire length of test track.
3. Weigh the sample in ounces (less weight of sample container). Use the following formula to determine lbs./acre for your particular shank spacing.

$$7" \text{ Spacing} - \text{oz.} \times 11.25 = \text{lbs./acre}$$

EXAMPLE

Sample and container weighs	9.9 ounces
Container weighs	- 1.5 ounces
Weight of sample only	8.4 ounces

4. Use formula No. 1 to figure pounds per acre. $8.4 \text{ ounces} \times 11.25 = 94.5 \text{ pounds per acre.}$
5. To calibrate a seed not shown on the chart or a mix of different seeds, compare to a similar charted seed to obtain a trial setting. Recalibrate as necessary.
6. The same method may be used to determine fertilizer rates.

**Series 100
Spacing 7",
Model No. 77C/107C**

CHART FOR DRILLING GRAIN IN POUNDS PER ACRE

POINTER SETTING

POINTER SETTING	**	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WHEAT	1/8		13	21	29	39	50	63	78	95	111	126	150	173	199
BARLEY	1/8				22	29	36	46	55	63	74	90	104	117	133
OATS	1/8						8	11	15	20	25	32	38	48	59
RYE	1/8				15	22	30	40	50	63	78	92	106	124	143
SOYBEANS	3/8						17	20	26	35	46	58	68	82	96
BUCKWHEAT	1/8				16	22	29	38	49	62	74	87	102	120	138
SORGHUM OR VETCH	1/8		4	5	9	13	21	27	35	44	56	67	78	93	
ALFALFA OR RAPE	1/8	3	8	13	19	27	35	48	59						
MILLET	1/8	5	8	15	22	30	40	53	66						
FLAX OR SUDAN GRASS	1/8		5	7	10	17	24	30	38	49	62	73			
ORCHARD GRASS	1/8					1	2	3	4	5	7	9	11	14	17
FESCUE	1/8						5	6	8	12	14	19	23		
SWITCH GRASS	1/8	3	7	12	19	24									
SUNFLOWER (#3 6500/LB.)	1/8						3	5	6	8	10	14	18	21	26
FERTILIZER	1/8	3	6	11	17	24	35	49	62	77	93	116	138	160	185
18-46-0															

**** = indicates wheel spacing**

100 DRILL DETERMINING SEED POPULATION

The 107C Drill seeds 10.50' / 126" per pass; the 77C Drill seeds 7' / 84" per pass.

The 107C Drill travels 4149 feet to seed 1 acre; the 77C Drill travels 6223' to seed 1 acre.

Following is the lineal feet of seeded row to seed 1 acre.

7" rows - 74,700 ft/acre

EXAMPLE:

150,000 bean plants desired per acre on 7" row spacing
 150,000 divided by 74,700 = 2.0 beans per ft.
 10 ft. of row - 20 beans.

Spacing 7 Inch

CHART FOR DRILLING GRAIN IN POUNDS PER ACRE

POINTER SETTING

POINTER SETTING	**	3	4	5	6	7	8	9	10	11	12	13	14	15	16
BAHIA GRASS	1/8	2.5	5.5	10.3	16.1	24.6	34.2	44.5	53.7	63.9	77.7	89.9	102.0	115.0	131.0
BUFFALO GRASS*	1/8				2.5	3.8	5.3	6.7	8.6	10.9	13.9	16.0	18.8	21.7	26.1
FESCUE	1/8				4.5	6.3	8.1	11.7	14.4	18.9	22.9	27.4	32.0	36.4	42.2
GREEN	1/8				3.6	4.8	6.8	9.3	12.1	14.7	17.7	20.7	24.5	28.5	31.3
ORCHARD GRASS	1/8					1.3	2.0	2.7	4.1	5.4	7.2	9.0	11.3	13.5	16.7
RYEGRASS	1/8					3.1	4.5	6.7	9.4	13.5	16.6	21.1	27.0	33.7	37.7
*FEED COVER OFF															

** = indicates wheel spacing

Spacing 7 Inch

CHART FOR DRILLING GRAIN IN POUNDS PER ACRE

POINTER SETTING

POINTER SETTING	**	1	2	3	4	5	6	7	8	9	10	11
ALFALFA	1/8		0.4	1.3	3.6	8.1	13.9	19.8	27.0	35.5	48.5	57.5
KENTUCKY BLUEGRASS	1/8			0.7	1.6	2.9	4.4	6.3	8.8	12.1	16.1	20.4
LADINO CLOVER	1/8		1.0	3.4	8.1	15.5	25.0	35.2	46.4	59.8		
LESPEDEZA (KOREAN)	1/8			1.1	4.7	8.3	12.4	17.3	23.6	31.3	39.8	49.2
RED CLOVER	1/8		1.3	4.3	9.5	16.4	24.3	32.8	43.4			
RED TOP	1/8			0.9	1.9	3.5	5.5	7.6	10.5	14.8	20.1	25.8
REED CANARYGRASS	1/8				0.9	2.3	3.8	5.5	7.9	10.9	14.0	17.2
SERECIA (UNHULLLED)	1/8				1.0	2.7	4.7	7.4	10.6	14.1	19.0	25.0
SWEET CLOVER	1/8				2.7	7.2	14.4	23.4	33.5	44.5	58.9	77.3
SWITCHGRASS	1/8				0.9	2.7	7.2	12.1	17.5	24.3	34.1	
TIMOTHY	1/8				0.9	3.6	8.5	15.3	22.9	30.6	39.5	53.0
LOVEGRASS	1/8				1.0	3.4	8.3	15.5	23.4	33.5	44.5	57.5

** = indicates wheel spacing

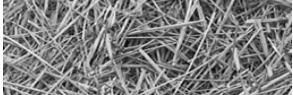
CHART FOR DRILLING GRAIN IN POUNDS PER ACRE

POINTER SETTING

POINTER SETTING	**	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ALTI WILDRYE	1/8					3.1	5.7	7.6	12.7	18.5	27.1	36.2	46.4	47.4	49.8
BROMEGRASS*	1/8					3.6	5.3	7.5	10.2	13.6	16.5	20.0	20.7		
INTERMEDIATE WHEATGRASS	1/8			5.8	8.1	12.1	19.3	28.3	35.0	49.8	55.2				
KILLDEER SIDE-OATS*	1/8			2.5	3.8	5.5	7.4	9.6	11.8	14.0	16.4	19.3	22.5		
PUBESCENT WHEATGRASS	1/8			4.9	12.6	19.3	28.5	39.7	53.4	69.9	81.1	86.1			
STEAMBANK WHEATGRASS	1/8			2.9	4.5	7.1	10.3	13.4	20.0	27.2	33.4	35.1			
TALL WHEATGRASS	1/8			5.8	8.5	12.1	18.4	25.2	32.3	43.1	53.9				
WESTERN WHEATGRASS	1/8			2.7	4.4	7.3	10.8	15.3	19.9	25.0	30.4	35.5	39.8		

*DOUBLE AGITATOR MAY BE REQUIRED FOR EXTREMELY TRASHY SAMPLES

*** = indicates wheel spacing



**CHART FOR DRILLING LEGUMES AND SMALL GRASSES
IN POUNDS PER ACRE**
LEGUME BOX ATTACHMENT FOR 77C/107C DRILL ON 7" SPACING

NOTCHES ON INDEX	LBS. BU.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ALFALFA, RED, ALSIKE, LADINO CLOVER, VETCH	62	2.2	4.7	7.7	10.7	13.6	17.0	20.4	23.9	27.3	30.9	31.7	37.9	41.3	44.7	47.6	50.6
SWEET CLOVER	64	2.3	5.1	8.4	12.4	17.4	22.5	26.4	30.9	37.1	41.6	46.7	51.2	56.3	59.6	63.0	66.4
BIRDSFOOT TREFOIL	64	2.3	4.5	7.9	10.7	14.1	17.4	21.4	25.3	28.1	32.1	36.0	39.4	42.2	46.7	50.1	55.1
MILLIT, TIBBET CLOVER	60	2.1	4.9	7.7	10.7	14.3	17.4	21.2	26.1	28.5	30.9	35.5	39.4	42.8	46.7	51.0	55.9
UNHULLED SERICEA	36	1.1	2.8	4.5	6.8	9.6	11.8	14.6	17.4	20.3	23.1	26.4	28.7	31.5	33.8	36.0	40.5
UNHULLED LESPEDEZA	46	1.7	3.9	5.6	8.4	11.8	15.2	18.0	21.9	25.3	28.7	32.6	35.4	38.3	41.6	45.0	50.1
BAHIA GRASS	46	1.1	2.8	5.1	6.2	8.4	10.7	11.8	14.6	16.9	18.6	20.8	22.5	24.2	25.9	27.6	28.1
LOVEGRASS	64	2.3	5.1	7.9	11.3	16.3	20.3	24.2	28.7	32.6	36.6	42.2	46.7	51.2	55.1	57.9	60.2

SEED MIXTURES

SELECT THE SETTING FOR THE DESIRED QUANTITY OF EACH SEED.

ADD INDIVIDUAL SETTINGS.

EXAMPLE:

ALFALFA	5	NOTCH
SWEET CLOVER	5	
TIMOTHY	2	
TOTAL	5	1

WHEN USING HALF SPEED DRIVE DIVIDE CHARTED RATES BY TWO. REPLACE 17 TOOTH SPROCKET ON COUNTERSHAFT WITH 35 TOOTH. (SEE MANUAL FOR DETAILS.)

DENSITY OF THE SAMPLES USED TO PREPARE THIS CHART ARE GIVEN IN THE FIRST COLUMN TO THE RIGHT OF THE CROP NAME IN POUNDS PER BUSHEL.

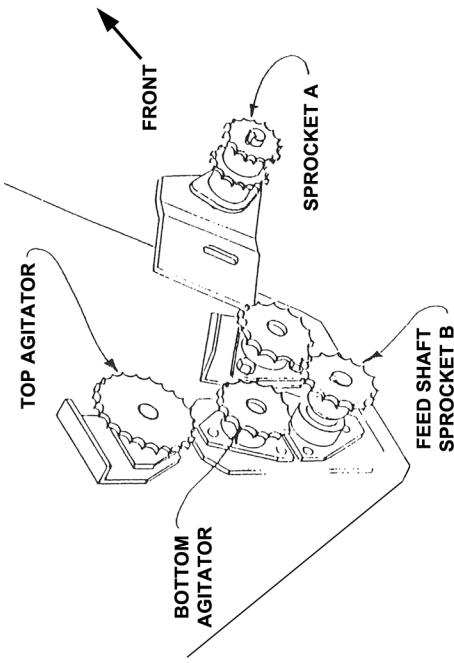
NOTCHES ON INDEX	LBS. BU.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
TIMOTHY	50	1.7	3.9	6.2	9.6	12.9	16.9	20.9	24.8	28.1	32.6	37.1	40.5	44.4	46.7	49.5	54.6
SWITCHGRASS	55	2.3	4.5	6.8	9.6	12.4	15.8	18.6	20.8	24.2	28.1	30.9	33.8	37.1	39.9	42.2	47.8
FLAX SESAME	55	1.4	3.7	6.2	8.7	11.6	14.7	17.5	20.6	23.1	26.5	29.6	32.4	35.5	37.9	40.5	44.5
RAPE MUSTARD	53	1.7	4.2	7.4	10.2	12.9	16.4	19.2	22.5	25.6	28.2	31.8	34.9	37.7	40.5	43.3	45.9
ORCHARD GRASS	17	0.8	1.7	2.8	3.4	3.9	5.1	5.6	6.8	7.3	8.4	9.0	10.1	10.7	11.3	11.9	
PERENNIAL RYEGRASS	31	2.3	3.4	5.6	7.3	9.0	10.7	11.8	13.5	15.2	16.9	18.6	20.8	21.9	23.1	24.8	
FESCUE	27	1.1	2.8	3.9	5.6	6.8	8.4	9.6	11.3	12.4	13.5	15.2	16.9	18.0	19.1	21.9	
COMMON BERMUDA GRASS	2.7	5.0	7.4	10.6	14.3	17.6	20.8	25.1									

CHART FOR DRILLING GRASS IN POUNDS PER ACRE

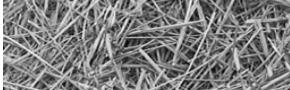
GRASS NAME	DENSITY	WHEEL SPACE	SPROCKET NUMBER	REV. PER ACRE							
				12	14	16	18	20	22	24	26
				SPROCKET A	24	18	24	18	14	12	14
SPROCKET B	24	180	154	205	231	240	264	359	396	411	462
REV. PER ACRE	154										
BLUE GRAMMA	9 LB/BU	1/8"	22	11.3	12.5	13.5	15.3	17	18.8	19.9	20.5
BIG BLUESTEM	9 LB/BU	1/8"	14	4.9	5.7	6.2	6.7	7.8	8	11.2	11.4
			17	9.3	10.8	12.5	12.6	17.4	19	24.2	25.5
			22	15.7	19.2	19.9	21.4	22.7	23.6	26.5	29.7
INDIAN GRASS	13 LB/BU	1/8"	17	9.2	10.9	11.5	13.8	14.5	14.6	15.5	20.4
			22	17.5	20	21.4	21.8	22.9	23.8	24.4	24.5
LITTLE BLUESTEM**	9 LB/BU	1/8"	22	3.2	3.3	4.2	5.4	7.5	8.3	9.4	9.8
										10.5	10.8
PRairie SANDREED**	13 LB/BU	1/8"	22	5.5	5.6	8.5	8.6	9.2	10.5	13.3	15.8
										16	18.6
										20	22.1

** = **FOR BEST RESULTS OBTAIN THE MOST TRASH-FREE SEED AVAILABLE.**

Also see information in section 5.4



To obtain the desired seeding rate of the chaffy native grasses it may be necessary to adjust the feed shaft speed. The charts on page 32 list the sprocket combinations and relative speed in revolutions per acre. Use these charts as a guideline in choosing the correct sprocket combinations. On a standard drill box, sprocket A has 14 teeth and sprocket B has 18 teeth. There are 12 tooth and 24 tooth sprocket included in the shipping kit for the native grass attachment.



4.11 Drilling with the Grain Drill

If the grain drill was transported using the optional end hitch, the rear wheels will need to be rotated as follows:

1. Use the hydraulic system to lower the openers onto solid soil or use a jack to raise the drill frame and remove the weight from the rear wheels.
2. Remove the bolts from each wheel.

**rotating the wheels for
drilling (wheel shown in
drilling position)**

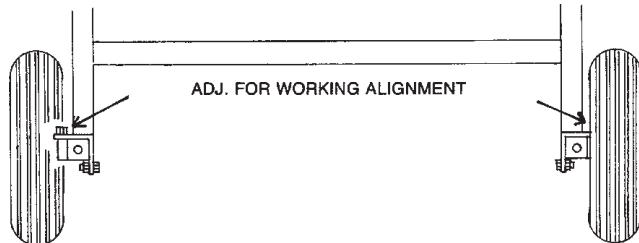


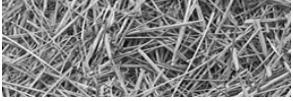
3. Rotate the wheels 90° and insert bolts.



NOTE: Step 4 covers alignment of the wheels. Once this adjustment is set, it should not normally be necessary to readjust it. Alignment of the wheels in the working position is less critical than in the transport position because of the softer surfaces and slower speeds.

4. Using a tape measure, align the wheels so that they are parallel with each other and the frame as shown. Adjust and secure the stop bolt #2.



- 
5. Tighten the bolts.
 6. Remove the jack, if used.
 7. After the tractor is hitched to the front hitch, move the drill ahead slowly until the front swivel wheels are properly positioned.

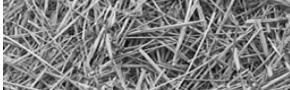
At this point the grain drill should be properly set up and adjusted according to the instructions in the preceding sections.

Load the tanks with seed and/or fertilizer. Rotate the drive wheel by hand to make sure that the feed wheel shafts are free to turn. This is particularly important if the drill was transported with fertilizer and seed in the hoppers.

Start the tractor, retract the cylinder completely, and begin drilling.

Periodically check for proper seed depth and feed rate.

When the seeding operation is finished, park the drill over a sheet of plastic, canvas, etc. Pull one of the cleanout side control levers out to empty the remaining seed or fertilizer. Collect the seed or fertilizer. Repeat the procedure for the other hopper.



4.12 SUGGESTIONS

When preparing to sow damp fertilizer that has been sitting in the tank for several hours, stir the fertilizer all the way to the bottom to break up any blocks of fertilizer which have become cemented together.

The amount of fertilizer sown will vary with the moisture content and quality of the fertilizer.

4.13 REAR WHEEL SWIVEL AND ADJUSTMENT

Both rear wheels are designed to swivel 90° for the purpose of transporting drills endways. Adjusting bolts are provided for aligning wheels in transport position as well as in forward position. Transport position is most critical for tire wear due to hard surface roads and faster speeds.



CAUTION: Transporting drills with seed and fertilizer in the tanks is not recommended. If drills are moved any distance with seed or fertilizer in tanks, either in transport or field position, materials will settle around feed wheels. Before starting to seed, operator should check with a wrench on drive end of feed wheel shaft to make sure they are free to turn. Shaft may be turned either clockwise or counterclockwise with openers in raised position.



WARNING: Maximum transport speed should never exceed 20 M.P.H., and should be less where conditions demand.

4.14 TRANSPORTING THE GRAIN DRILL

The rear wheels swivel 90° to transport the drill end ways with the optional end hitch. These wheels must be carefully aligned before transporting the drill because of the hard surfaces.

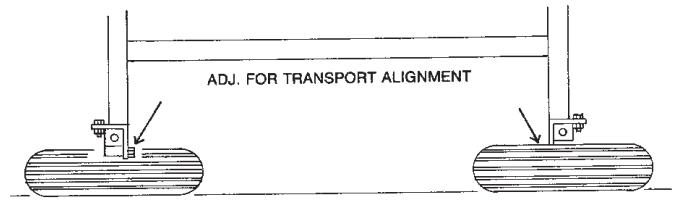
To rotate the rear wheels:

1. Use the hydraulic system to lower the openers onto solid soil or use a jack to raise the drill frame and remove the weight from the rear wheels.
2. Remove the lock bolts from each wheel.
3. Rotate the wheels 90° and insert the lock bolts.

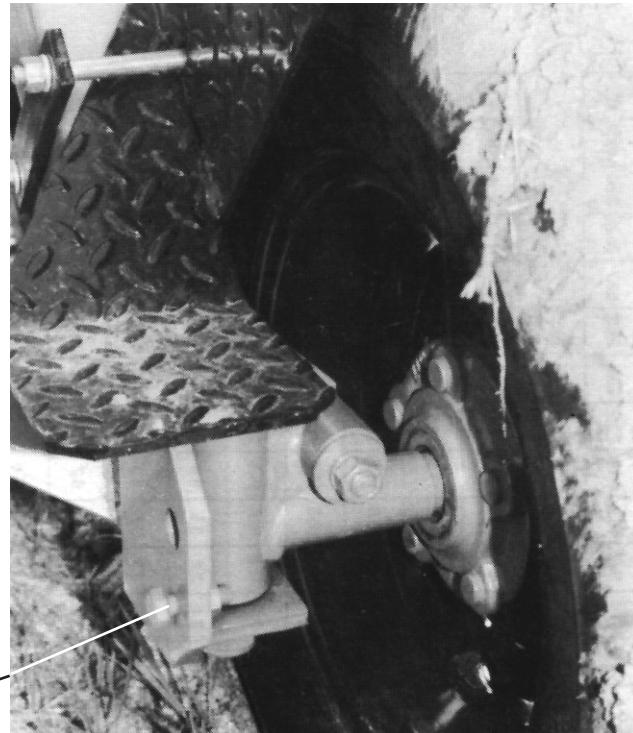


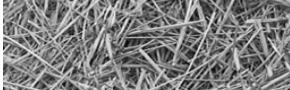
NOTE: Step 4 covers alignment of the wheels. Once this adjustment is set, it should not normally be necessary to readjust it.

4. Using a string, align the wheels as shown. Adjust and secure the stop bolts.
5. Tighten the lock bolts.
6. Raise the openers or remove the jack. Secure the torque bar in the transport position with the safety stop bar.
7. After the tractor is hitched to the end hitch, move the drill ahead slowly until the front swivel wheels are properly positioned.



rotating the wheels for drilling (wheel shown in drilling position)





4.15 CLEANING GRAIN TANKS AND LEGUME BOXES



CLEAN grain tanks and/or legume boxes on the 77C/107C Drill after using inoculated, treated or coated seeds. Failure to clean tanks will cause damage to moving parts. This damage is **NOT** covered by warranty. Always add graphite to treated seeds.

4.16 PREPARING FOR STORAGE

To prepare the 77C/107C Drill for storage, perform the following steps:

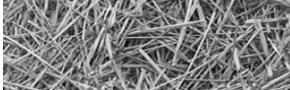
1. Install safety stop bar to keep planting units off the ground and to minimize rusting. Before drill is stored, clean out slides should be opened to remove as much seed and fertilizer as possible. Both tanks should be flushed out thoroughly to prevent any caking of seed or fertilizer. Open and close slides while flushing to allow any fertilizer that might be under the calibration slide to work its way free. Fertilizer can be damaging if left in contact with metal parts for a prolonged period.
2. Clean all mud, dirt, grease and other foreign material from the exterior of the machine. Wash the complete machine. Repaint places where bare metal is exposed - this will inhibit rusting.
3. After inside of the tank is thoroughly dry, apply a coat of oil or diesel fuel to calibration slide, bearings and other parts that have been in contact with fertilizer or seed.
4. Remove the chains and wash them in solvent. Using a clean cloth, wipe off the chains. Soak the chains in engine oil. Drain off the excess oil and install the chains on the grain drill.
5. Coat all chains and exposed hydraulic cylinder rod with a Valvoline Tectyl 506 oil or equivalent.
6. Lubricate machine thoroughly according to the lubrication instructions.
7. Drain water from ballast tanks, if installed.
8. If possible, store the machine in a dry, protected place. If it is necessary to store the machine outside, cover it with plastic, waterproof canvas, or other suitable protective material.
9. Check the machine for any worn or broken parts. By ordering parts now, you will avoid delays when it is time to remove the machine from storage. When ordering parts always specify machine serial number and the part number of the replacement part. Part numbers can be found in the Parts List Manual.

4.17 REMOVING FROM STORAGE

To remove the 77C/107C Drill from storage, perform the following steps:

1. Remove all protective coverings.
2. Remove all excess oil from chains and cylinder rods. Lubricate machine in accordance with lubrication instructions found in this manual.
3. Check all hydraulic hoses for deterioration and, if necessary, replace. Tighten any loose bolts, nuts and hydraulic fittings.
4. Follow prestarting inspection.





Section 5: Grass Seeding Reference

All Haybuster 77C/107C Grain Drills are very versatile. These base drills are capable of accurately metering most common seeds and fertilizer. The seed will be placed at the correct depth in conventional and minimum tillage and most zero-tillage situations. Through the use of special attachments, Haybuster 77C/107C Grain Drills can be used for seeding of various types of grass seeds including small-seed legumes and chaffy native grasses. When grass seeding is complete, each of these drills are capable of seeding and fertilizing your conventional crops. For more information on operating the drill, settings and procedures, please see **Section 4: Operating Instructions**.

5.1 Grass Seeding Attachments

The following attachments are available for grass seeding:

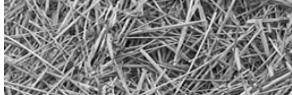
- Legume box
- Single agitator
- Double agitator
- 2" I.D. seed tubes
- Depth bands

Many grasses can be metered through the standard seed box with no additional equipment. However, some of the grasses listed below can be metered more accurately by using some of the special attachments listed on the following pages.

*Alfalfa	*Alsike clover	@Altiwild rye	*Bahiagrass
*Birdsfoot trefoil	@Bromegrass	Buffalograss	Fescue
Green needlegrass	@Intermediate wheatgrass	*Kentucky bluegrass	@Killdeer sideoats
*Ladino clover	*Lespedeza (unhulled)	*Lovegrass	Orchard grass
@Pubescent wheatgrass	Ryegrass	*Red clover	*Red top
*Reed cararygrass	*Serecia (unhulled)	*Sweet clover	*Switchgrass
@Streambank wheatgrass	*Timothy	@Tall wheatgrass	@Western wheatgrass

* See legume box section, page 40

@ See single agitator section, page 40



5.2 Legume Box Applications

The legume box attachment is designed to accurately meter the small seeds listed below.

Alfalfa	Alsike clover	Bahia grass	Birdsfoot trefoil
Fescue	Kentucky bluegrass	Ladino clover	Lesoedeza (Korean)
Lovegrass	Orchard grass	Red clover	Red top
Reed canarygrass	Rye grass	Serecia (unhulled)	Sweet clover
Switchgrass	Tibbet clover	Timothy	Vetch

For more information please see the Chart for drilling legumes and small grasses on page 31.

5.3 Single Agitator Applications

The addition of the single agitator to the standard drill box will prevent these seeds from bridging above the feed wheels.

Alti wildrye	Bromegrass #	Intermediate wheatgrass
Killdeer sideosts #	Pubescent wheatgrass	Streambank wheatgrass
Tall wheatgrass	Western wheatgrass	

Extremely trashy samples may require the double agitator.

For more information please see the Chart for drilling grain on page 30.

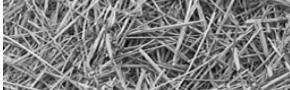
5.4 Special Instructions for Warm Season Grasses

Warm season grasses tend to be very low bulk and are very trashy or chaffy in appearance. Special equipment required to properly meter these grasses is listed below.

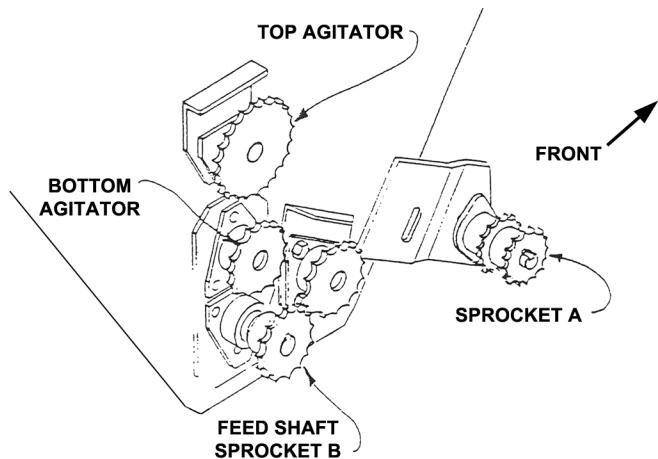
- Double agitator (top and bottom)
- Larger opening in drill box (1-1/2 inch)
- 2 inch I.D. grass tube kit
- Sprocket set (feed shaft speed adjustment)

Obtain the best quality seed available for best results. Trashier samples may need to be blended with heavier seed to improve metering capabilities. Center the feed wheels as shown on page 23. Be sure to check the feed wheels as shown on page 23.

Blue grammagrass Big bluestem Indian grass Little bluestem Prairie sandreed



To obtain the desired seeding rate of the chaffy native grasses it may be necessary to adjust the feed shaft speed. The charts on page 32 list the sprocket combinations and relative speed in revolutions per acre. Use these charts as a guideline in choosing the correct sprocket combinations. On a standard drill box, sprocket A has 14 teeth and sprocket B has 18 teeth. There are 12 tooth and 24 tooth sprocket included in the shipping kit for the native grass attachment.



5.5 Pure Live Seed Calculations

Any sample of bulk seed always has a certain percentage of non-viable seed and inert matter. In cereal grains, this percentage is quite small and can usually be ignored when determining seeding rates. Grass seeds can have a very high percentage of dormant and non-viable seed, and inert matter. These high percentages must be considered when determining grass seeding rates.

For example: You wish to plant Big Bluestem (Chart pg 32) at a rate of 12 ponds of pure live seed (pls) per acre.

A typical grass seed tag might appear as follows:

Big Bluestem

Weed seed.....	0.10%	Lot No.....	83101
Noxious weed seed.....	0.00%	Germ.....	52.0%
Other crops.....	0.05%	Date of test.....	3-86
Inert matter.....	40.05%	Grown.....	Kansas

Step 1. Determine the total percentage of inert matter from the seed tag

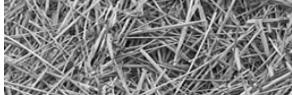
Weed seed	0.10%
Noxious weed seed	0.00%
Other crops	0.05%
Inert matter	<u>40.05%</u>
	40.20%

Step 2. Subtract the percentage of inert matter from 100% to find pure seed percentage.

$$100.0\% - 40.20\% = 59.80\%$$

Step 3. Divide the pounds of pure live seed desired by the percent pure seed.

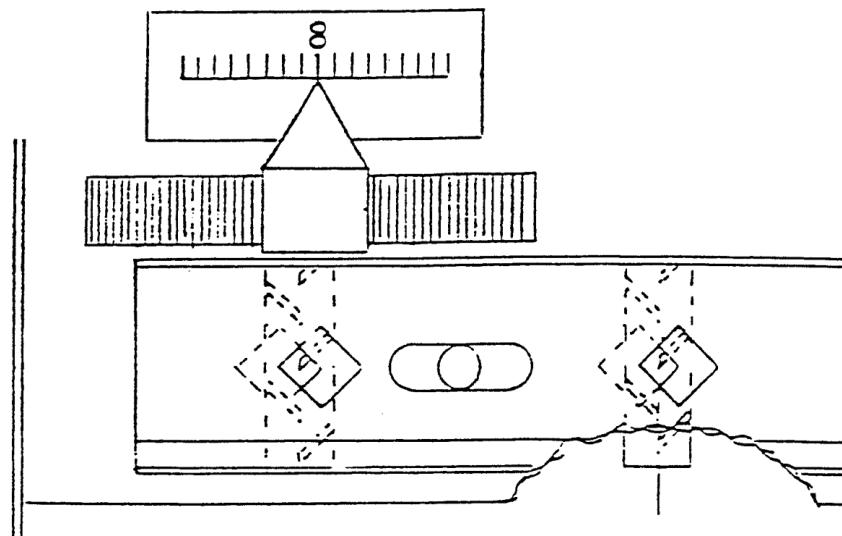
$$12 \text{ lbs pls} / 0.5980 = 20.07 \text{ lbs pure seed}$$



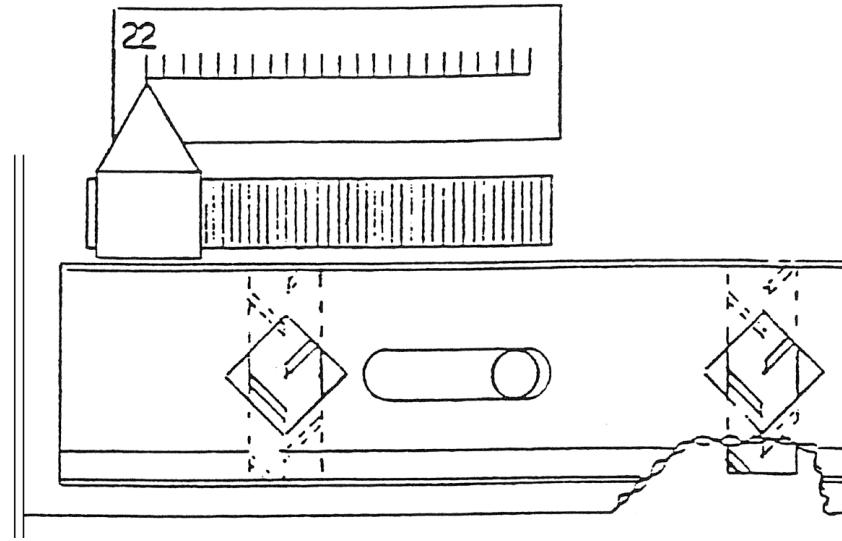
Step 4. Divide pounds of pure seed by the germination percentage to get bulk seed.

$$20.07/0.52 = 38.6 \text{ lbs of bulk seed}$$

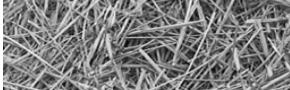
So 38.6 lbs of bulk seed per acre must be sown to get 12 lbs of pure live seed per acre.



For most seeding, the feed wheel should be aligned as shown above. Set the pointer on number 8. The center of the feed wheel should be centered in the opening as viewed from outside of the box.



When seeding the grasses listed on page 32, move the feed wheel as shown above. Set the pointer on number 22, the center of the feed wheel should be centered in the opening as viewed form outside of the box. Generally, a small screwdriver or similar tool may be inserted through the opening into the tank and used to push the wheel into position. The agitator blades inside the drill box may need to be re-centered over the feed wheels to prevent interference.



Section 6: Lubrication

All 77C/107C Grain Drills are completely serviced at the factory before shipping. However, the operator should make a check of all grease fittings on the unit before beginning to operate it so as to become familiar with their location and the correct service schedule.

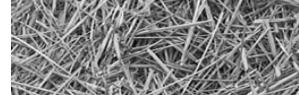
Use only a high quality, multi-purpose grease when lubricating the unit. Make sure all fittings and the nozzle of the grease applicator are clean before applying the grease. If any grease fittings are missing, replace them immediately.

Lubricating of all pillow block and flange-type self-aligning ball or roller bearings should be done slowly to help prevent bearing seal damage. Use caution when using a high pressure, high volume gun.

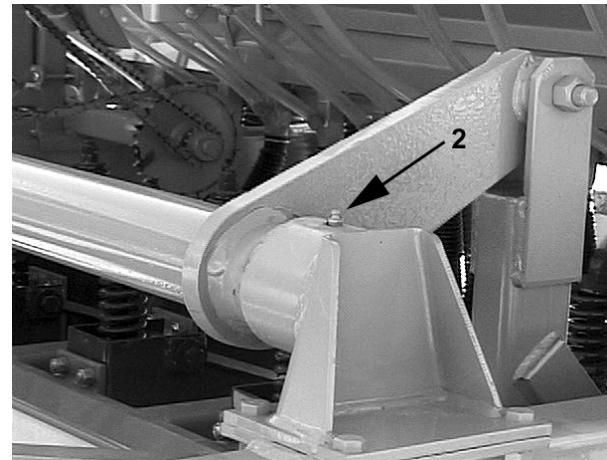
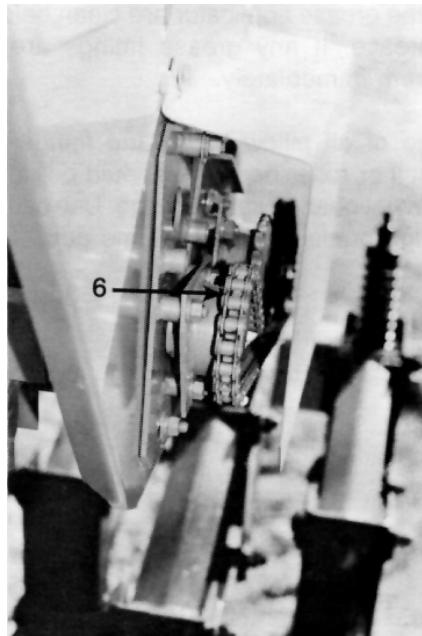
Description	Type	Frequency	No. Zerks
1. Swivel Wheel Pivot	Grease	20 Hrs.	2
2. Torque Tube Bushings	Grease	40 Hrs.	2
3. Universal Joints	Grease	40 Hrs.	2
4. Square Drive Line	Grease	40 Hrs.	2
5. Feed Wheel Shaft	Grease	100 Hrs.	6
6. Roller Chains	Oil	Daily In Dusty Conditions	
7. Tool Bar Bushing	Grease	20 Hrs.	2
8. Lift Arm Bushing	Grease	20 Hrs.	2
9. Lift Arm	Grease	20 Hrs.	2
10. Drive Wheel Frame	Grease	20 Hrs.	2
11. Packer Wheel Bearings and Coulter-Disk Bearings are Non-Relubable.			
12. Cylinder Clevis Pin	Grease	20 Hrs.	1

swivel wheel pivot
lubrication zerk

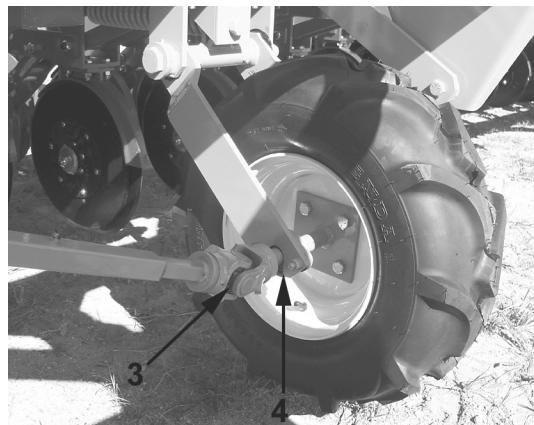




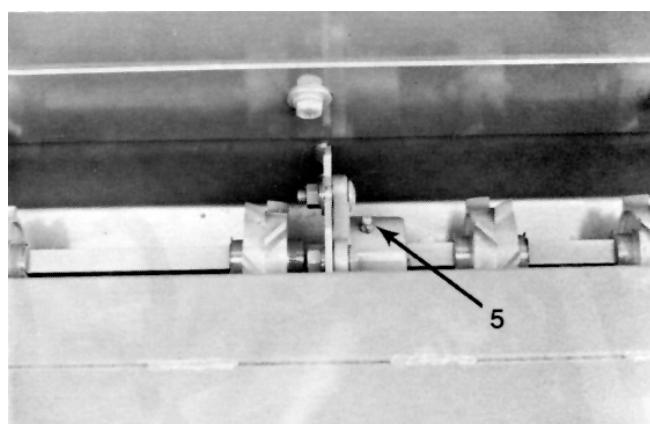
**torque tube bushings
lubrication points**

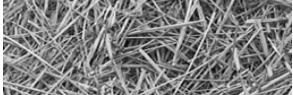


**universal joints and
square drive line
lubrication zerk**



**feed wheel shaft
lubrication zerk**





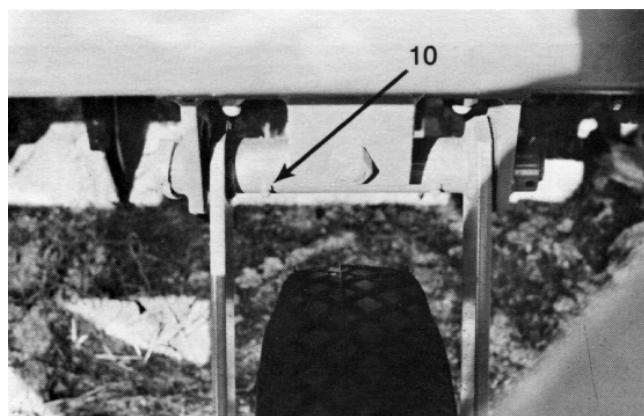
tool bar bushing
lubrication zerk



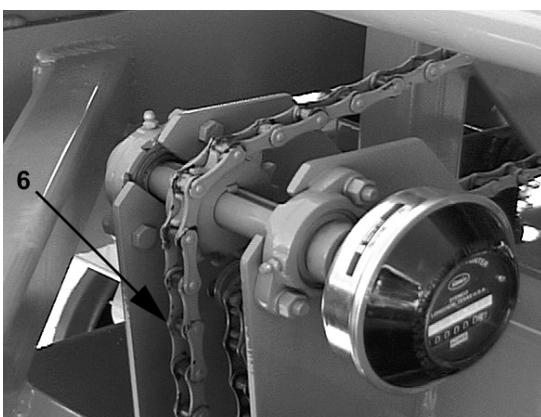
lift arm bushing
lubrication zerk

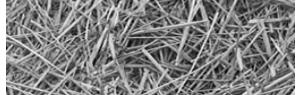


drive wheel frame
lubrication zerk



roller chains lubrication





APPENDIX A: WARRANTY

Duratech Industries International, warrants to the original purchaser for one year from purchase date that this product will be free from defects in material and workmanship when used as intended and under normal maintenance and operating conditions. This warranty is limited to the replacement of any defective part or parts returned to our factory in Jamestown, N.D., within thirty (30) days of failure.

This warranty shall become void if in Duratech Industries International's judgment the machine has been subject to misuse, negligence, alterations, damaged by accident or lack of required normal maintenance, or if the product has been used for a purpose for which it was not designed.

All claims for warranty must be made through the dealer which originally sold the product and all warranty adjustments must be made through same.

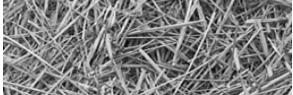
This warranty does not apply to tires or bearings or any other trade accessories not manufactured by Duratech Industries International. Buyer must rely solely on the existing warranty, if any, of these respective manufacturers.

Duratech Industries International shall not be held liable for damages of any kind, direct, contingent, or consequential to property under this warranty. Duratech Industries International cannot be held liable for any damages resulting from causes beyond its control. Duratech Industries International shall not be held liable under this warranty for rental costs or any expense or loss for labor or supplies.

Duratech Industries International reserves the right to make changes in materials and/or designs of this product at any time without notice.

This warranty is void if Duratech Industries International does not receive a valid warranty registration card at its office in Jamestown, N.D., within 10 days from date of original purchase.

All other warranties made with respect to this product, either expressed or implied, are hereby disclaimed by Duratech Industries International.



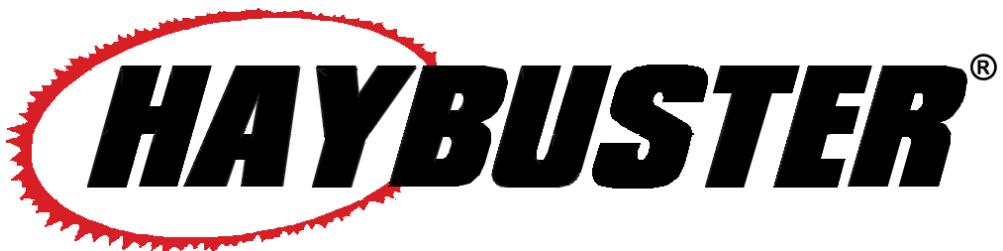
APPENDIX B: SPECIFICATIONS

	77C Drill	107C Drill
Overall Width:	91"	125"
Seeding Width:	84"	126"
End Transport Width:		155"
Height:	73"	73"
Weight:	3,600 lbs	4,200 lbs
Tire Size- Front: Tire Pressure	9.5x14 Implement 44 PSI	9.5x14 Implement 44 PSI
Tire Size- Rear: Tire Pressure	7.6x15 implement 32 PSI	7.6x15 implement 32 PSI
Tire Size- Drive: Tire Pressure	20X8-10 4-Ply 28 PSI	20X8-10 4-Ply 28 PSI
Hopper Capacity:		
Grain- Front:	10 Bu.	14 Bu.
Granulated Fertilizer:	10 Bu.	14 Bu.
Grain- Front & Rear:	20 Bu.	28 Bu.
Legume Box:	1.5 Bu.	2 Bu.
Feed System:	infinitely adjustable meter	infinitely adjustable meter
Hoses:	rubber convoluted	rubber convoluted
Row Spacing:	7"	7"
Openers - Double Disc:	14"	14"
Press Wheels - Standard:	2" x 15-1/2"	2" x 15-1/2"
Press Wheels - Optional:	2" x 13"	2" x 13"

Options:

Swivel Hitch	1-2-3-4 Drill Hitch and Components
Acre Counter	Swivel Hitch
Legume Box	Acre Counter
Native Grass Kit	Hitch Winch
Ballast Tanks	Ballast Tanks
Gauge Wheels	End Hitch
	Stabilizer - Front and Rear
	Legume Box
	Native Grass Kit
	Gauge Wheels
	False Bottom





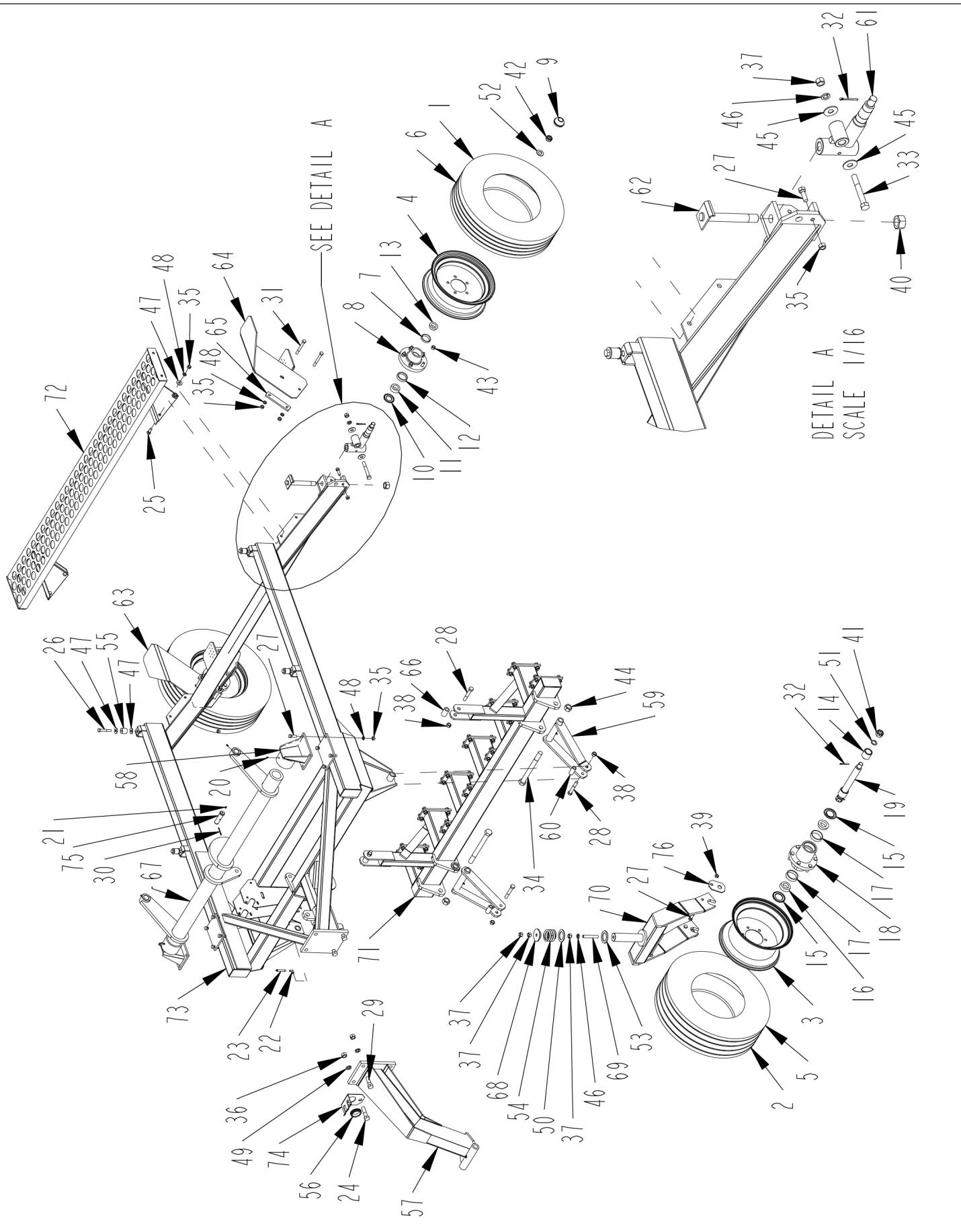
77C/107C DRILLS

107C DRILL - S.N. 101100017C & UP

77C DRILL - S.N. 77110001C & UP

Part 2: Parts Reference

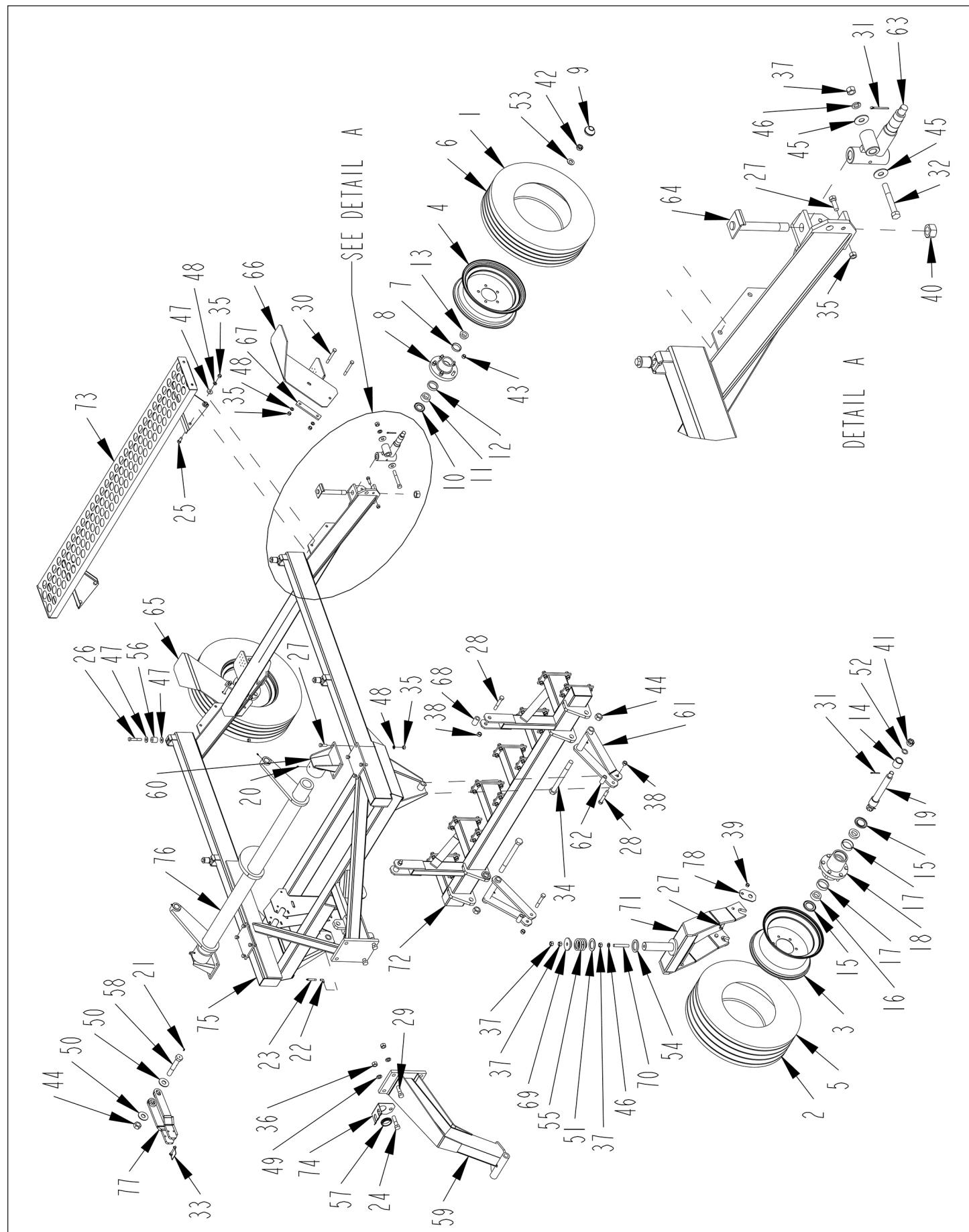
77C MAIN FRAME ASSEMBLY (FOR S.N. THRU 0075)



77C MAIN FRAME ASSEMBLY (FOR S.N. THRU 0075)

ITEM	PART	QTY.	PART DESCRIPTION
1	2600008	2	TIRE\7.60X15\8PLY;IMP
2	2600013	1	TIRE\9.5LX14\8PLY
3	2600601	1	WHL\6-BOLT14X8
4	2600606	2	WHL\5-BOLT15X5
5	2600825	1	WHL\IMP\9.5X14\TIRE&RIM (includes 2600013 and 2600601)
6	2600834	2	WHL\IMP\7.60X15\TIRE&RIM (includes 2600008 and 2600606)
7	2900004	2	CUP\INNER\WHEEL HUB
8	2900011	2	HUB\COMPLETE (includes 2900004, 2900013, 2900014, 2900015, 2900016, 2900018)
9	2900013	2	CAP\DUSt\WHL;HUB(DC-13)
10	2900014	2	SEAL\GREASE(517) (15190)
11	2900015	2	CONE\INNER\WHL HUB(48548)
12	2900016	2	CUP\INNER\WHL:HUB(48510)
13	2900018	2	CONE\OUTER\WHL;HUB(67048)
14	2900084	2	SPACER\HUB\WHEEL
15	2900085	2	SEAL\WHL:HUB(20078)
16	2900086	2	CONE\2788\WHL;HUB
17	2900087	2	CUP\BRG\HUB\WHL\2720
18	2900089	1	HUB\H-628(FORK)\COMPLETE
19	3000018	1	SPNDL\FORK
20	3800041	4	FTGLUB\1/8MPXZERK\ADAPT
21	3800082	5	FTGLUB\1/4NFXZERK\ADAPT
22	3800111	1	FTG\1/8MPX\1/8FP\90\ST;EL
23	3800126	1	FTGLUB\1/8MPXZRK\2-5/8
24	4800017	1	BOLT\HEX\3/4X3
25	4800018	4	BOLT\HEX\1/2X1-1/4
26	4800068	4	BOLT\HEX\1/2X3
27	4800082	60	BOLT\HEX\1/2X1-1/2
28	4800100	4	BOLT\HEX\5/8X4
29	4800115	3	BOLT\HEX\3/4X2-1/2
30	4800120	1	PIN\COT\3/16X1-3/4
31	4800141	4	BOLT\HEX\1/2X4-1/2
32	4800157	4	PIN\COT\3/16X2
33	4800158	2	BOLT\HEX\5/8X4-1/2
34	4800626	2	BOLT\HEX\1X11\NC
35	4900001	66	NUT\HEX\1/2\NC
36	4900004	4	NUT\HEX\3/4\NC
37	4900005	5	NUT\HEX\5/8\NC
38	4900012	4	NUT\TPLCK\5/8\NC
39	4900014	6	NUT\TPLCK\1/2\NC
40	4900015	2	NUT\INYLC\1\NC
41	4900115	2	NUT\CASTLE\11"-14
42	4900054	2	NUT\CASTLE\1/2\NF
43	4900094	10	NUT\TAPER\WHEEL\1/2\NF\
44	4900127	2	NUT\TPLCK\1\NC
45	5000002	4	WASH\FLAT\5/8
46	5000003	3	WASH\LOCK\5/8
47	5000004	16	WASH\FLAT\1/2
48	5000006	64	WASH\LOCK\1/2
49	5000012	4	WASH\LOCK\3/4
50	5000032	1	WASH\MACH\2IDX10GA
51	5000040	2	WASH\BUSH;MACH\1
52	5000055	2	WASH\SPINDLE\7/8
53	5000075	1	WASH\MACH\3X2-1/16X1/4
54	6100044	1	SPRNG\2-1/16X3/8WIRE2"LG
55	7500134	4	GROM 1.25ODX 17/32IDX1.25
56	7500858	1	GRMTVRBBR\2-1/4X2IDX1/4T
57	8400032	1	GOOSENECK
58	8400036	2	TUBE\TORQUE\PIVOT
59	8400038	2	ARM\LIFT
60	8400039	2	BUSH\ARM\LIFT\1X5/8X2-1/8
61	8400041	2	SPNDL\REAR\WHL
62	8400042	2	BOLT\PIVOT\REAR\WHL
63	8400130	1	STEP\REAR\RH
64	8400131	1	STEP\REAR\LH
65	8400132	2	STRAP\REAR\STEP;MOUNT
66	8400150	2	BUSH\TOOL_BAR\1-1/4X3/4X2
67	8400272	1	TUBE\TORQUE
68	8400281	1	CAP\RECESSED\WHL\SWIVEL
69	8400282	1	ROD\THRDD\5/8X4
70	8400283	1	FORK\WHL\SWVL
71	8400701	1	BAR\TOOL\7"SPCNG
72	8400702	1	WALKWAY\100_SERIES
73	8400742	1	FRM\MAIN\77
74	8400785	1	BRKT\HOSE\MINDER
75	8400799	1	PIN\CLEVIS\1X3\GREASE
76	8800021	2	RETAINER\SPNDL

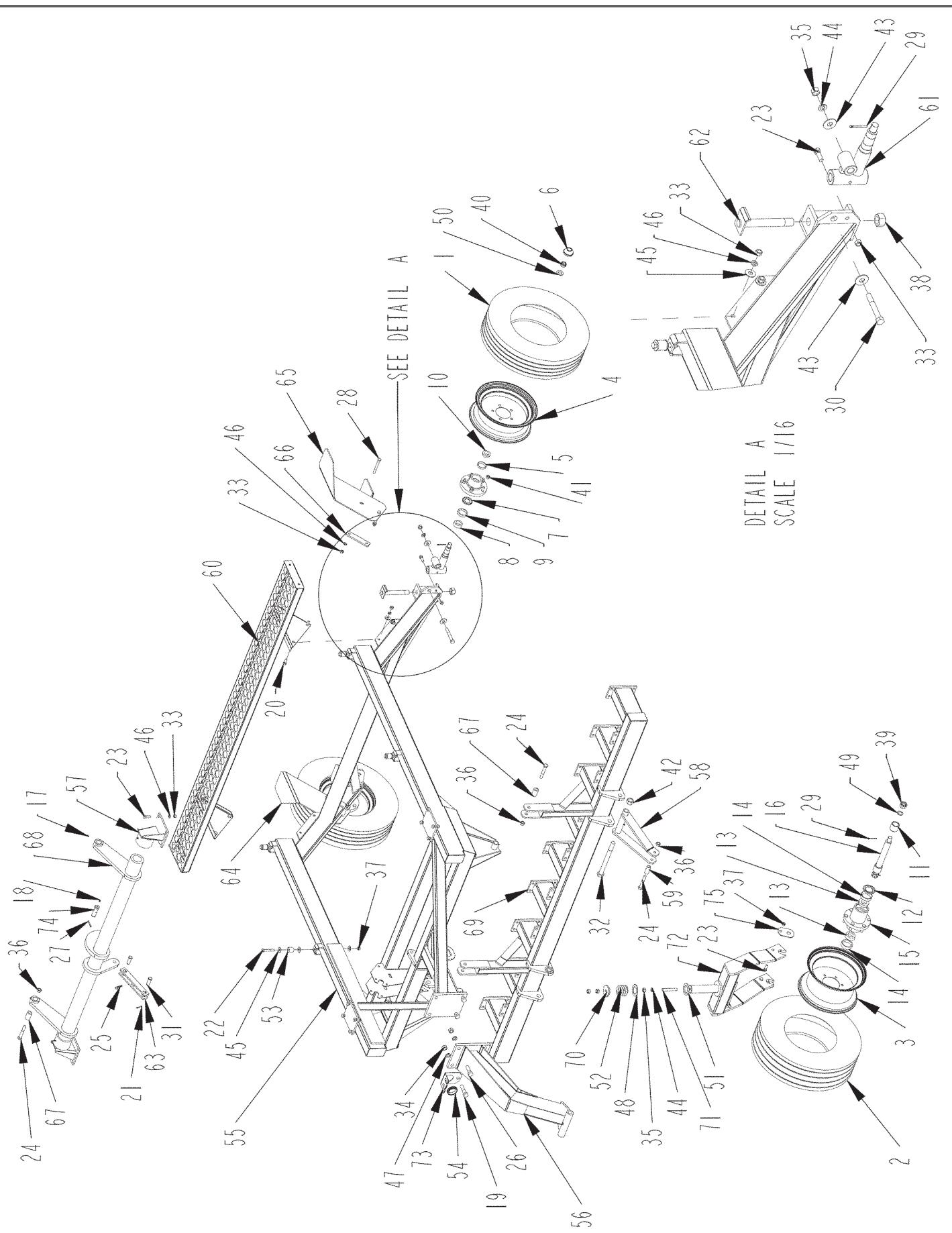
77C MAIN FRAME ASSEMBLY (FOR S.N. 0076 AND UP)



77C MAIN FRAME ASSEMBLY (FOR S.N. 0076 AND UP)

ITEM	PART	QTY.	PART DESCRIPTION
1	2600008	2	TIRE\7.60X15\8PLY;IMP
2	2600013	1	TIRE\9.5LX14\8PLY
3	2600601	1	WHL\6-BOLT\14X8
4	2600606	2	WHL\5-BOLT\15X5
5	2600825	1	WHL\IMP\9.5X14\TIRE&RIM (includes 2600013 and 2600601)
6	2600834	2	WHL\IMP\7.60X15\TIRE&RIM (includes 2600008 and 2600606)
7	2900004	2	CUP\INNER\WHEEL HUB
8	2900011	2	HUB\COMPLETE (includes 2900004, 2900013, 2900014, 2900015, 2900016, 2900018)
9	2900013	2	CAP\IDUST\WHL;HUB(DC-13)
10	2900014	2	SEAL\GREASE(517) (15190)
11	2900015	2	CONE\INNER\WHL HUB(48548)
12	2900016	2	CUP\INNER\WHL:HUB(48510)
13	2900018	2	CONE\OUTER\WHL;HUB(67048)
14	2900084	2	SPACER\HUB\WHEEL
15	2900085	2	SEAL\WHL;HUB(20078)
16	2900086	2	CONE\2788\WHL;HUB
17	2900087	2	CUP\BRG\HUB\WHL\2720
18	2900089	1	HUB\H-628(FORK)\COMPLETE
19	3000018	1	SPNDL\FORK
20	3800041	4	FTG\LUB\1/8MPXZERK\ADAPT
21	3800082	5	FTG\LUB\1/4NFXZERK\ADAPT
22	3800111	1	FTG\1/8MPX\1/8FP\90\ST;EL
23	3800126	1	FTG\LUB\1/8MPXZRK\2-5/8
24	4800017	1	BOLT\HEX\3/4X3
25	4800018	4	BOLT\HEX\1/2X1-1/4
26	4800068	4	BOLT\HEX\1/2X3
27	4800082	60	BOLT\HEX\1/2X1-1/2
28	4800100	4	BOLT\HEX\5/8X4
29	4800115	3	BOLT\HEX\3/4X2-1/2
30	4800141	4	BOLT\HEX\1/2X4-1/2
31	4800157	4	PIN\COT\3/16X2
32	4800158	2	BOLT\HEX\5/8X4-1/2
33	4800559	1	PIN\LYNCH\5/16X2-1/2\W/SQ;WIRE;KEEPER
34	4800626	2	BOLT\HEX\1X11NC
35	4900001	66	NUT\HEX\1/2\NC
36	4900004	4	NUT\HEX\3/4\NC
37	4900005	5	NUT\HEX\5/8\NC
38	4900012	4	NUT\TPLCK\5/8\NC
39	4900014	6	NUT\TPLCK\1/2\NC
40	4900015	2	NUT\NYLCK\1\NC
41	4900115	2	NUT\CASTLE\1\1"-14
42	4900054	2	NUT\CASTLE\1/2\NF
43	4900094	10	NUT\TAPER\WHEEL\1/2\NF\
44	4900127	3	NUT\TPLCK\1\NC
45	5000002	4	WASH\FLAT\5/8
46	5000003	3	WASH\LOCK\5/8
47	5000004	16	WASH\FLAT\1/2
48	5000006	64	WASH\LOCK\1/2
49	5000012	4	WASH\LOCK\3/4
50	5000014	2	WASH\FLAT\1
51	5000032	1	WASH\MACH\2IDX10GA
52	5000040	2	WASH\BUSH;MACH\1
53	5000055	2	WASH\SPINDLE\7/8
54	5000075	1	WASH\MACH\3X2-1/16X1/4
55	6100044	1	SPRNG\2-1/16X3/8WIRE\2"LG
56	7500134	4	GROM 1.25ODX 17/32IDX1.25
57	7500858	1	GRMT\RBRR\2-1/4X2IDX1/4T
58	8101352	1	BOLT\HEX\1X6\GREASE
59	8400032	1	GOOSENECK
60	8400036	2	TUBE\TORQUE\PIVOT
61	8400038	2	ARMLIFT
62	8400039	2	BUSH\ARMLIFT\1X5/8X2-1/8
63	8400041	2	SPNDL\REAR\WHL
64	8400042	2	BOLT\PIVOT\REAR\WHL
65	8400130	1	STEP\REAR\RH
66	8400131	1	STEP\REAR\LH
67	8400132	2	STRAP\REAR\STEP;MOUNT
68	8400150	2	BUSH\TOOL_BAR\1-1/4X3/4X2
69	8400281	1	CAP\RECESSED\WHL\SWIVEL
70	8400282	1	ROD\THRDD\5/8X4
71	8400283	1	FORK\WHL\SWVL
72	8400701	1	BAR\TOOL\7"SPCNG
73	8400702	1	WALKWAY\100_SERIES
74	8400785	1	BRKT\HOSE\MIINDER
75	8400808	1	FRMM\MAIN\77C
76	8400809	1	TUBE\TORQUE\107C\77C
77	8400901	1	STOP\CYL\PVT
78	8800021	2	RETAINER\SPNDL
NOT SHOWN			
	7500186	2	BUSH\2-1/4ODX2.015IDX2-1/2L

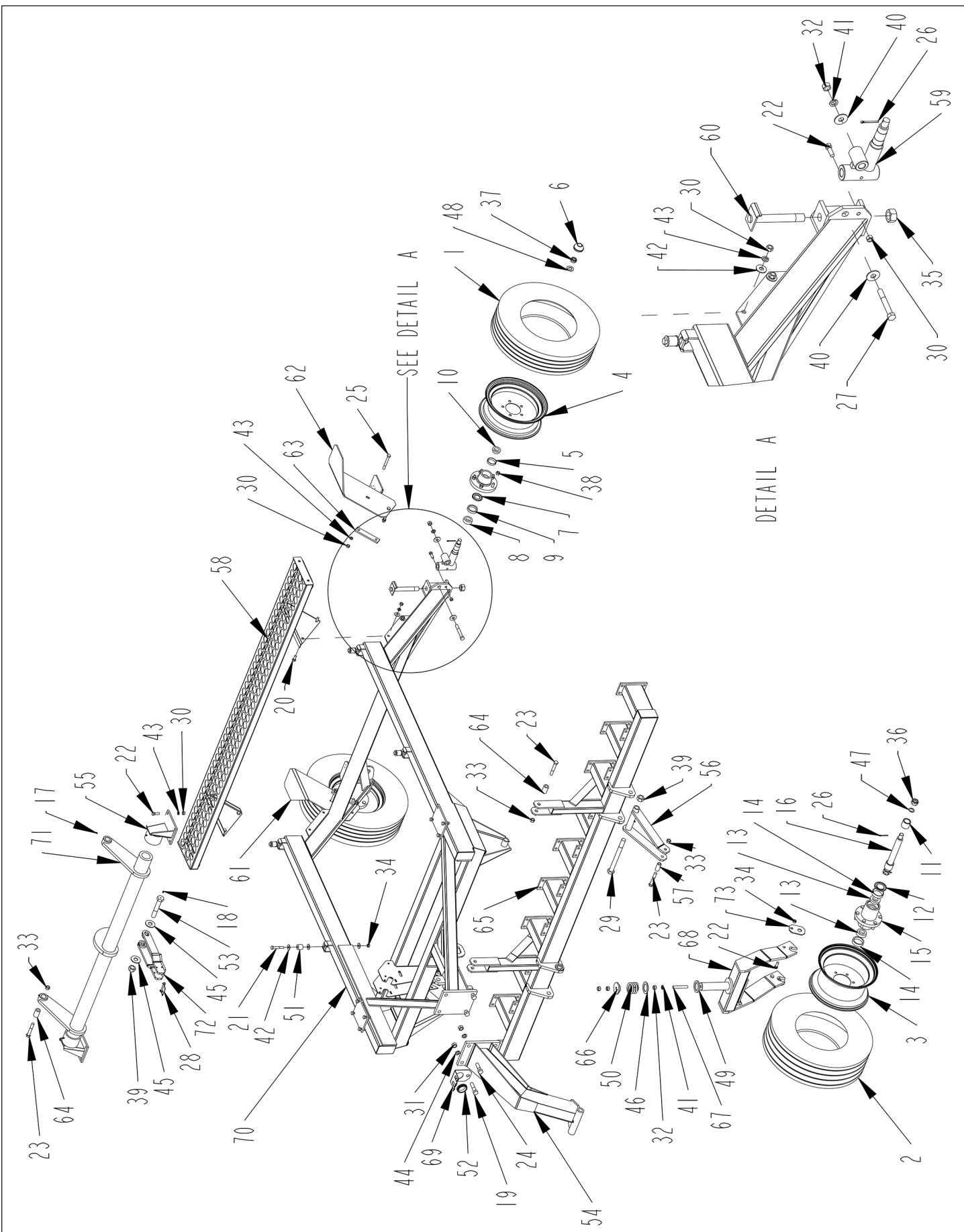
107C MAIN FRAME ASSEMBLY (FOR S.N. THRU 0880)



107C MAIN FRAME ASSEMBLY (FOR S.N. THRU 0880)

ITEM	PART	QTY.	PART DESCRIPTION
1	2600008	2	TIRE\7:60X15\8PLY;IMP
2	2600013	1	TIRE\9.5LX14\8PLY
3	2600601	1	WHL\6-BOLT\14X8
4	2600606	2	WHL\5-BOLT\15X5
	2600825		WHL\IMP\9.5X14\TIRE&RIM (includes #2 & #3)
	2600834		WHL\IMP\17.60X15\TIRE&RIM (includes #1 & #4)
5	2900004	2	CUP\INNER\WHEEL HUB
6	2900013	2	CAP\DUST\WHL;HUB(DC-13)
7	2900014	2	SEAL\GREASE(517) (15190)
8	2900015	2	CONE\INNER\WHL HUB(48548)
9	2900016	2	CUP\INNER\WHL:HUB(48510)
10	2900018	2	CONE\OUTER\WHL;HUB(67048)
	2900011		HUB\WHL;HUB-517-1 COMP (includes #5, #6, #7, #8, #9 & #10)
11	2900084	2	SPACER\HUB\WHEEL
12	2900085	2	SEAL\WHL;HUB(20078)
13	2900086	2	CONE\2788\WHL;HUB
14	2900087	2	CUP\BRG\HUB\WHL\2720
15	2900089	1	HUB\H-628(FORK)COMPLETE
16	3000018	1	SPNDL\FORK
17	3800041	4	FTG\LUB\1/8MPXZERK\ADAPT
18	3800082	5	FTG\LUB\1/4NFXZERK\ADAPT
19	4800017	1	BOLT\HEX\3/4X3
20	4800018	4	BOLT\HEX\1/2X1-1/4
21	4800044	1	PIN\COT\5/32X1-1/2
22	4800068	4	BOLT\HEX\1/2X3
23	4800082	12	BOLT\HEX\1/2X1-1/2
24	4800100	4	BOLT\HEX\5/8X4
25	4800107	1	PIN\HAIR\1/8(#9)
26	4800115	3	BOLT\HEX\3/4X2-1/2
27	4800120	1	PIN\COT\3/16X1-3/4
28	4800141	4	BOLT\HEX\1/2X4-1/2
29	4800157	4	PIN\COT\3/16X2
30	4800158	2	BOLT\HEX\5/8X4-1/2
31	4800527	2	PIN\CLEVIS\3/4X2
32	4800626	2	BOLT\HEX\1X11NC
33	4900001	17	NUT\HEX\1/2NC
34	4900004	4	NUT\HEX\3/4NC
35	4900005	5	NUT\HEX\5/8NC
36	4900012	4	NUT\TPLCK\5/8NC
37	4900014	6	NUT\TPLCK\1/2\NC
38	4900015	2	NUT\NYLCK\1\NC
39	4900115	2	NUT\CASTLE\11"-14
40	4900054	2	NUT\CASTLE\1/2\NF
41	4900094	10	NUT\TAPER\WHEEL\1/2\NF\
42	4900127	2	NUT\TPLCK\1\NC
43	5000002	4	WASH\FLAT\5/8
44	5000003	3	WASH\LOCK\5/8
45	5000004	16	WASH\FLAT\1/2
46	5000006	16	WASH\LOCK\1/2
47	5000012	4	WASH\LOCK\3/4
48	5000032	1	WASH\MACH\2IDX10GA
49	5000040	2	WASH\BUSH;MACH\1
50	5000055	2	WASH\SPINDLE\7/8
51	5000075	1	WASH\MACH\3X2-1/16X1/4
52	6100044	1	SPRNG\2-1/16X3/8WIRE2"LG
53	7500134	4	GROM 1.25ODX 17/32IDX1.25
54	7500858	1	GRMT\RBRR\2-1/4X2IDX1/4T
55	8400742	1	FRMM\MAIN
56	8400032	1	GOOSENECK
57	8400036	2	TUBE\TORQUE\PIVOT
58	8400038	2	ARMLIFT
59	8400039	2	BUSH\ARM\LIFT\1X5/8X2-1/8
60	8400040	1	WALKWAY\100_SERIES
61	8400041	2	SPNDL\REAR\WHL
62	8400042	2	BOLT\PIVOT\REAR\WHL
63	8400103	1	BAR\HOLDUP\TRANSPORT
64	8400130	1	STEP\REAR\RH
65	8400131	1	STEP\REAR\RH
66	8400132	2	STRAP\REAR\STEP;MOUNT
67	8400150	2	BUSH\TOOL_BAR\1-1/4X3/4X2
68	8400272	1	TUBE\TORQUE
69	8400273	1	BAR\TOOL\7"SPCNG
70	8400281	1	CAP\RECESSED\WHL\SWIVEL
71	8400282	1	ROD\THRDD\5/8X4
72	8400283	1	FORK\WHL\SWVL
73	8400785	1	BRKT\MOSE\MINDER
74	8400799	1	PIN\CLEVIS\1X3\GREASE
75	8800021	2	RETAINER\SPNDL

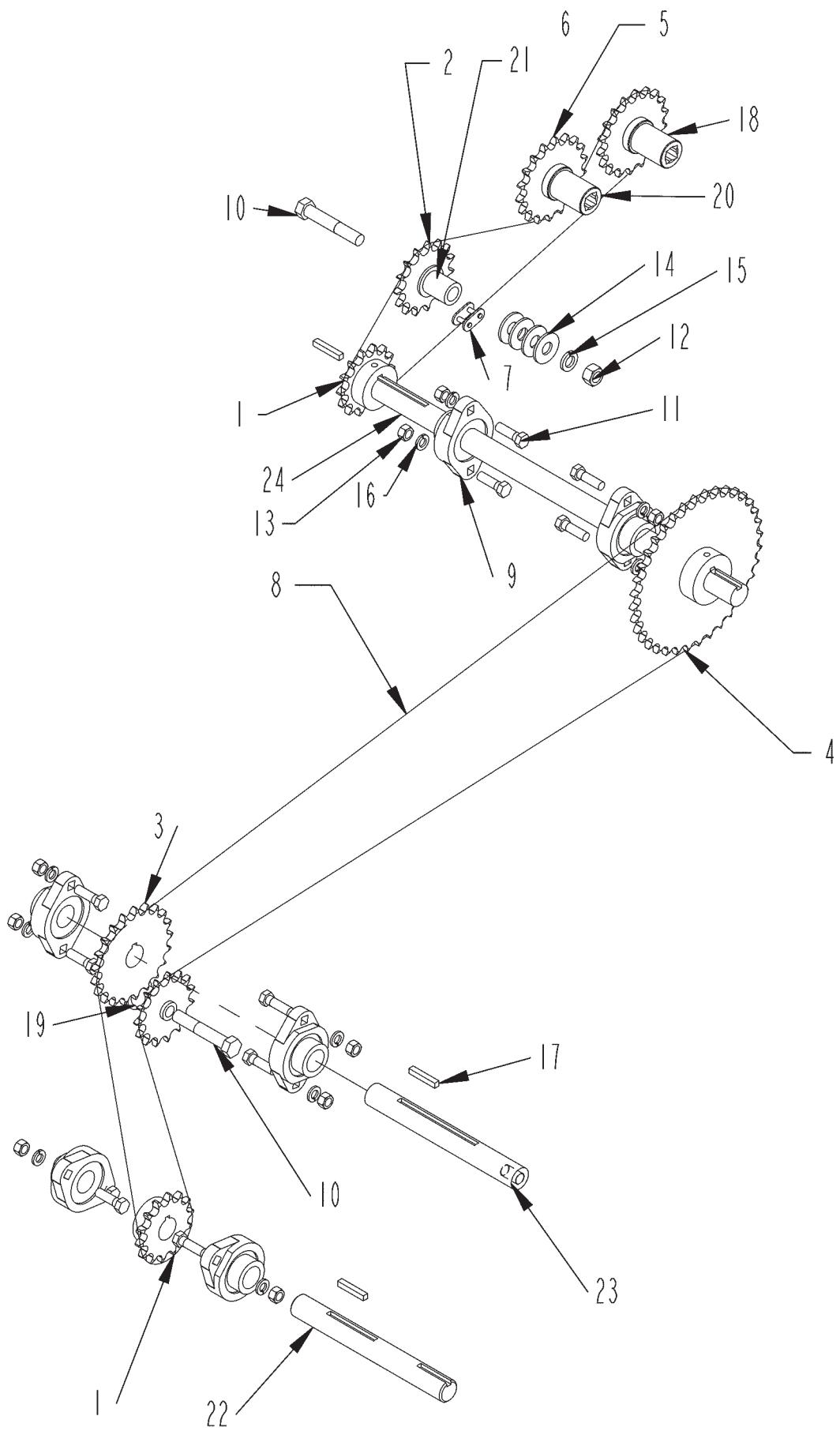
107C MAIN FRAME ASSEMBLY (FOR S.N. 0881 AND UP)



107C MAIN FRAME ASSEMBLY (FOR S.N. 0881 AND UP)

ITEM	PART	QTY.	PART DESCRIPTION
1	2600008	2	TIRE\7.60X15\8PLY;IMP
2	2600013	1	TIRE\9.5LX14\8PLY
3	2600601	1	WHL\6-BOLT\14X8
4	2600606	2	WHL\5-BOLT\15X5
	2600825		WHL\IMP\9.5X14\TIRE&RIM(includes #2 & #3)
	2600834		WHL\IMP\7.60X15\TIRE&RIM(includes #1 & #4)
5	2900004	2	CUP\INNER\WHEEL HUB
6	2900013	2	CAP\DUST\WHL;HUB(DC-13)
7	2900014	2	SEAL\GREASE(517) (15190)
8	2900015	2	CONE\INNER\WHL HUB(48548)
9	2900016	2	CUP\INNER\WHL:HUB(48510)
10	2900018	2	CONE\OUTER\WHL;HUB(67048)
	2900011		HUB\WHL;HUB-517-1 COMP(includes #5, #6, #7, #8, #9 & #10)
11	2900084	2	SPACER\HUB\WHEEL
12	2900085	2	SEAL\WHL;HUB(20078)
13	2900086	2	CONE\2788\WHL;HUB
14	2900087	2	CUP\BRG\HUB\WHL\2720
15	2900089	1	HUB\H-628(FORK)\COMPLETE
16	3000018	1	SPNDL\FORK
17	3800041	4	FTGLUB\1/8MPXZERK\ADAPT
18	3800082	5	FTGLUB\1/4NFXZERK\ADAPT
19	4800017	1	BOLT\HEX\3/4X3
20	4800018	4	BOLTHEX\1/2X1-1/4
21	4800068	4	BOLTHEX\1/2X3
22	4800082	12	BOLTHEX\1/2X1-1/2
23	4800100	4	BOLTHEX\5/8X4
24	4800115	3	BOLTHEX\3/4X2-1/2
25	4800141	4	BOLTHEX\1/2X4-1/2
26	4800157	4	PIN\COT\3/16X2
27	4800158	2	BOLTHEX\5/8X4-1/2
28	4800559	1	PIN\LYNCH\5/16X2-1/2\W/SQ;WIRE;KEEPER
29	4800626	2	BOLTHEX\1X11\NC
30	4900001	17	NUT\HEX\1/2\NC
31	4900004	4	NUT\HEX\3/4\NC
32	4900005	5	NUT\HEX\5/8\NC
33	4900012	4	NUT\TPLCK\5/8\NC
34	4900014	6	NUT\TPLCK\1/2\NC
35	4900015	2	NUT\NYLCK\1\NC
36	4900115	2	NUT\CASTLE\1\1"-14
37	4900054	2	NUT\CASTLE\1/2\NF
38	4900094	10	NUT\TAPER\WHEEL\1/2\NF\
39	4900127	3	NUT\TPLCK\1\NC
40	5000002	4	WASHFLAT\5/8
41	5000003	3	WASHLOCK\5/8
42	5000004	16	WASHFLAT\1/2
43	5000006	16	WASHLOCK\1/2
44	5000012	4	WASHLOCK\3/4
45	5000014	2	WASHFLAT\1
46	5000032	1	WASHMACH\2IDX10GA
47	5000040	2	WASHBUSH;MACH\1
48	5000055	2	WASH\SPINDLE\7/8
49	5000075	1	WASHMACH\3X2-1/16X1/4
50	6100044	1	SPRNG\2-1/16X3/8WIRE2"LG
51	7500134	4	GROM 1.25ODX 17/32IDX1.25
52	7500858	1	GRMTRBRR\2-1/4X2IDX1/4T
53	8101352	1	BOLTHEX\1X6\GREASE
54	8400032	1	GOOSENECK
55	8400036	2	TUBE\TORQUE\PIVOT
56	8400038	2	ARM\LIFT
57	8400039	2	BUSH\ARM\LIFT\1X5/8X2-1/8
58	8400040	1	WALKWAY\100_ SERIES
59	8400041	2	SPNDL\REAR\WHL
60	8400042	2	BOLTPIVOT\REAR\WHL
61	8400130	1	STEP\REAR\RH
62	8400131	1	STEP\REAR\RH
63	8400132	2	STRAP\REAR\STEP;MOUNT
64	8400150	2	BUSH\TOOL_BAR\1-1/4X3/4X2
65	8400273	1	BAR\TOOL\7"SPCNG
66	8400281	1	CAP\RECESSED\WHL\SWIVEL
67	8400282	1	ROD\THRDD\5/8X4
68	8400283	1	FORK\WHL\SWVL
69	8400785	1	BRKT\HOSE\MINDER
70	8400808	1	FRM\MAIN
71	8400809	1	TUBE\TORQUE
72	8400901	1	STOP\CYL\PVT
73	8800021	2	RETAINER\SPNDL
	NOT SHOWN		
	7500186	2	BUSH\2-1/4ODX2.015IDX2-1/2L

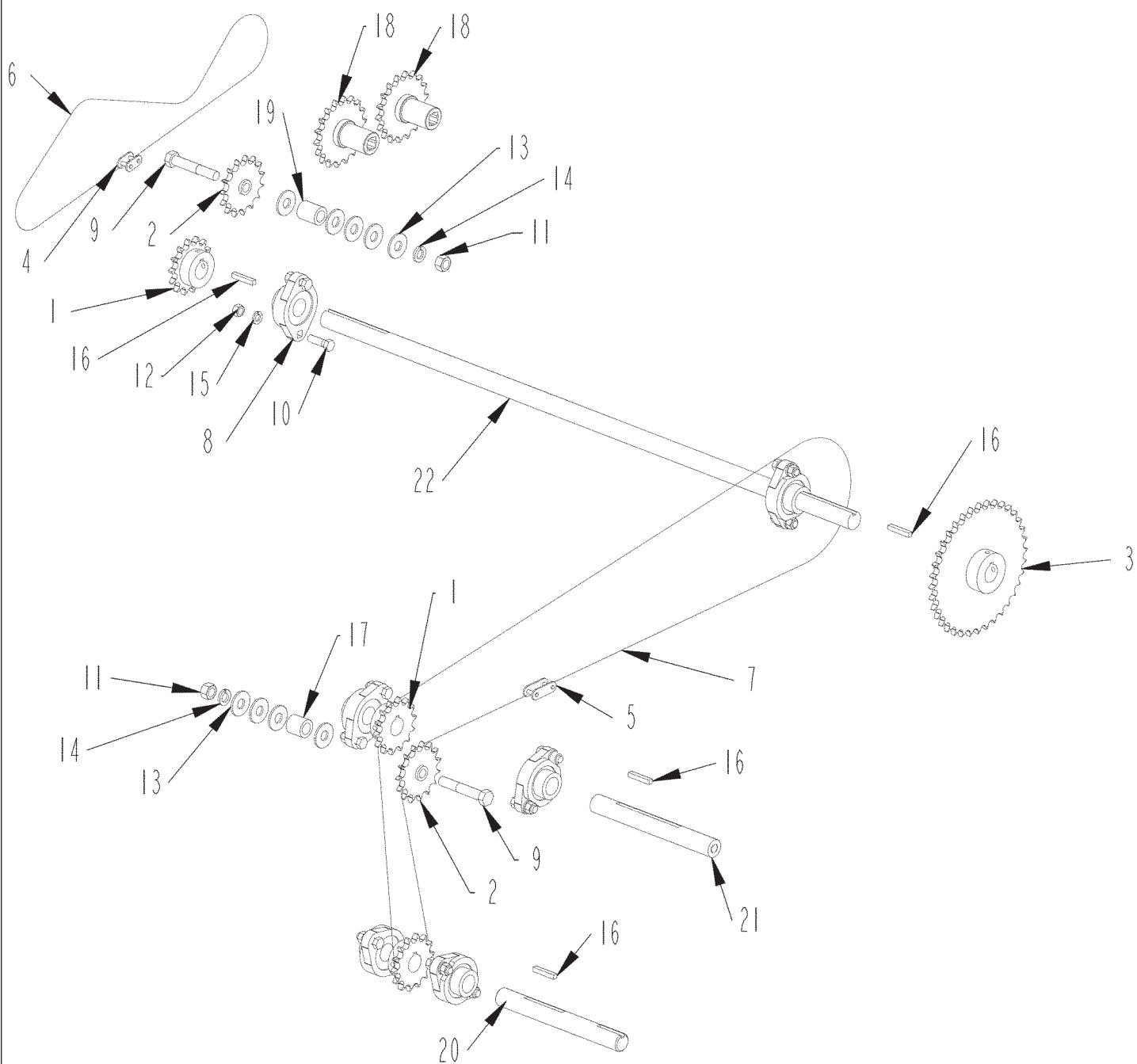
77C DRIVE ASSEMBLY



77C DRIVE ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
1	1000029	2	SPKT\50\B\14\1\1/4KW
2	1000039	2	SPKT\50\15\1\2\IDLER
3	1000057	1	SPKT\50\B\21\1\1/4KW
4	1000075	1	SPKT\50\B\36\1\1/4KW
5	1000109	2	SPKT\50\18\PL
6	1100234	1	CHAIN\50NP\73
7	1100059	1	CHAIN\50\CL
8	1100281	1	CHAIN\2050NP\87
9	2000310	6	BRG\FLG\CAST\1\2BOLT
10	4800068	2	BOLT\HEX\1/2X3
11	4800098	12	BOLT\HEX\3/8X1-1/4\NC
12	4900001	2	NUT\HEX\1/2\NC
13	4900002	12	NUT\HEX\3/8\NC
14	5000004	10	WASH\FLAT\1/2
15	5000006	2	WASH\LOCK\1/2
16	5000019	12	WASH\LOCK\3/8
17	6200005	4	KEY\SQ\1/4X1-1/2
18	7400065	2	SLV\SQ_HL\5/8X1-1/4OD
19	8400058	1	SPCR\DRV\1ODX.640IDX1L\>
20	8400071	2	SPKT\DRIVEW\SQ_HL_SLV
21	8400073	1	SPCR\DRV\1ODX.640IDX1.25L
22	8400415	1	SHFT\1ST\1X8-3/4\1000
23	8400446	1	SHFT\1X8-1/2\ACRECTR
24	8400738	1	SHFT\DRV\77NTV_GR\1X23.5

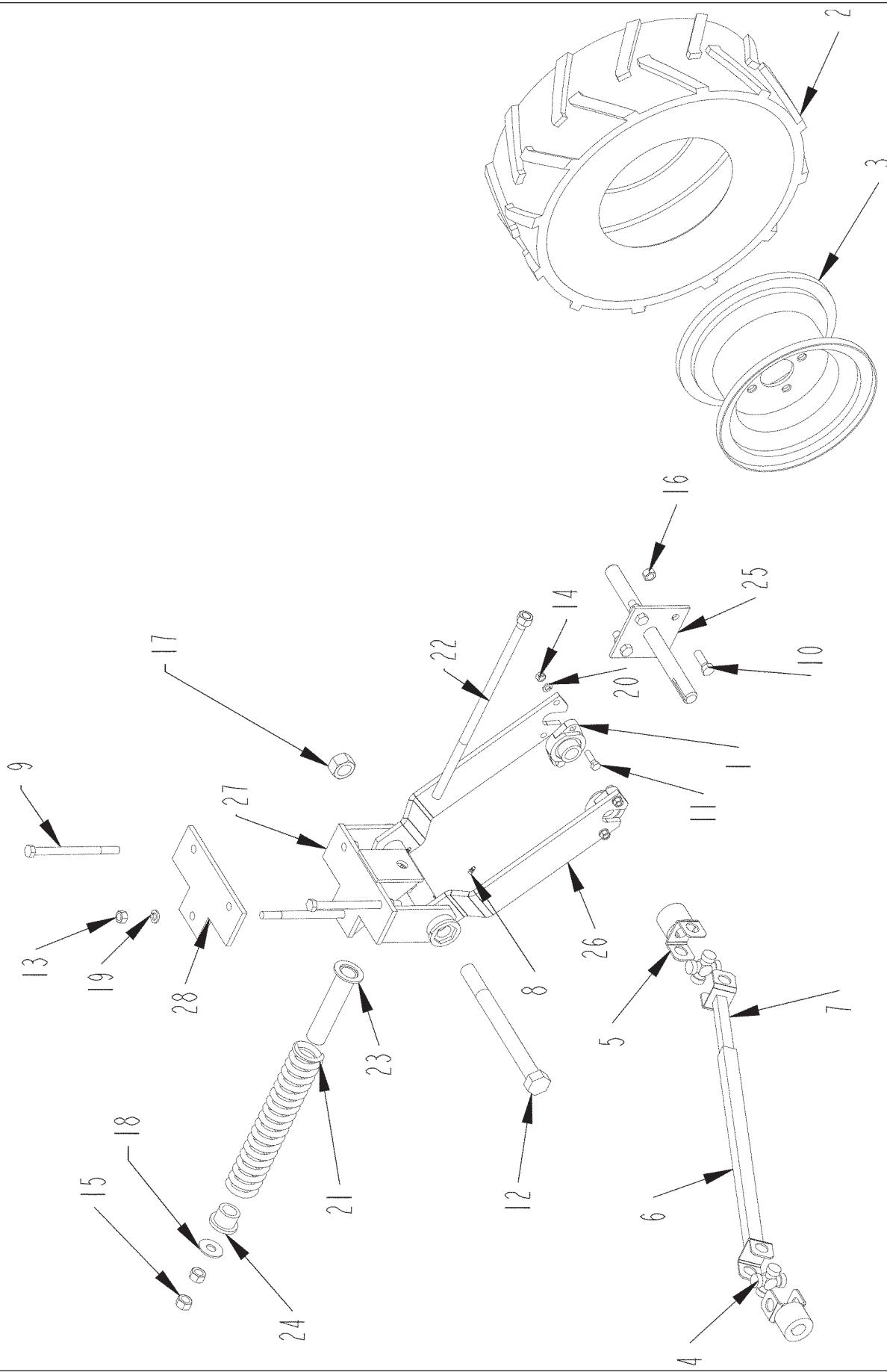
107C DRIVE ASSEMBLY



107C DRIVE ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
1	1000029	3	SPKT\50\B\14\1\1/4KW
2	1000039	2	SPKT\50\15\1/2\IDLER
3	1000075	1	SPKT\50\B\36\1\1/4KW
4	1100227	1	CHAIN\50NP\CL
5	1100230	1	CHAIN\A2050NP\CL
6	1100234	1	CHAIN\50NP\73
7	1100283	1	CHAIN\2050NP\85
8	2000310	6	BRG\FLG\CAST\1\2BOLT
9	4800068	2	BOLT\HEX\1/2X3
10	4800098	12	BOLT\HEX\3/8X1-1/4\NC
11	4900001	2	NUT\HEX\1/2\NC
12	4900002	12	NUT\HEX\3/8\NC
13	5000004	10	WASH\FLAT\1/2
14	5000006	2	WASH\LOCK\1/2
15	5000019	12	WASH\LOCK\3/8
16	6200005	4	KEY\SQ\1/4X1-1/2
17	8400058	1	SPCR\DRV\1ODX.640\DX1L\>
18	8400071	2	SPKT\DRIVEW/SQ_HL_SLV
19	8400073	1	SPCR\DRV\1ODX.640\DX1.25L
20	8400415	1	SHFT\1ST\1X8-3/4\1000
21	8400446	1	SHFT\1X8-1/2\ACRECTR
22	8400573	1	SHFT\DR\TANK\1X38

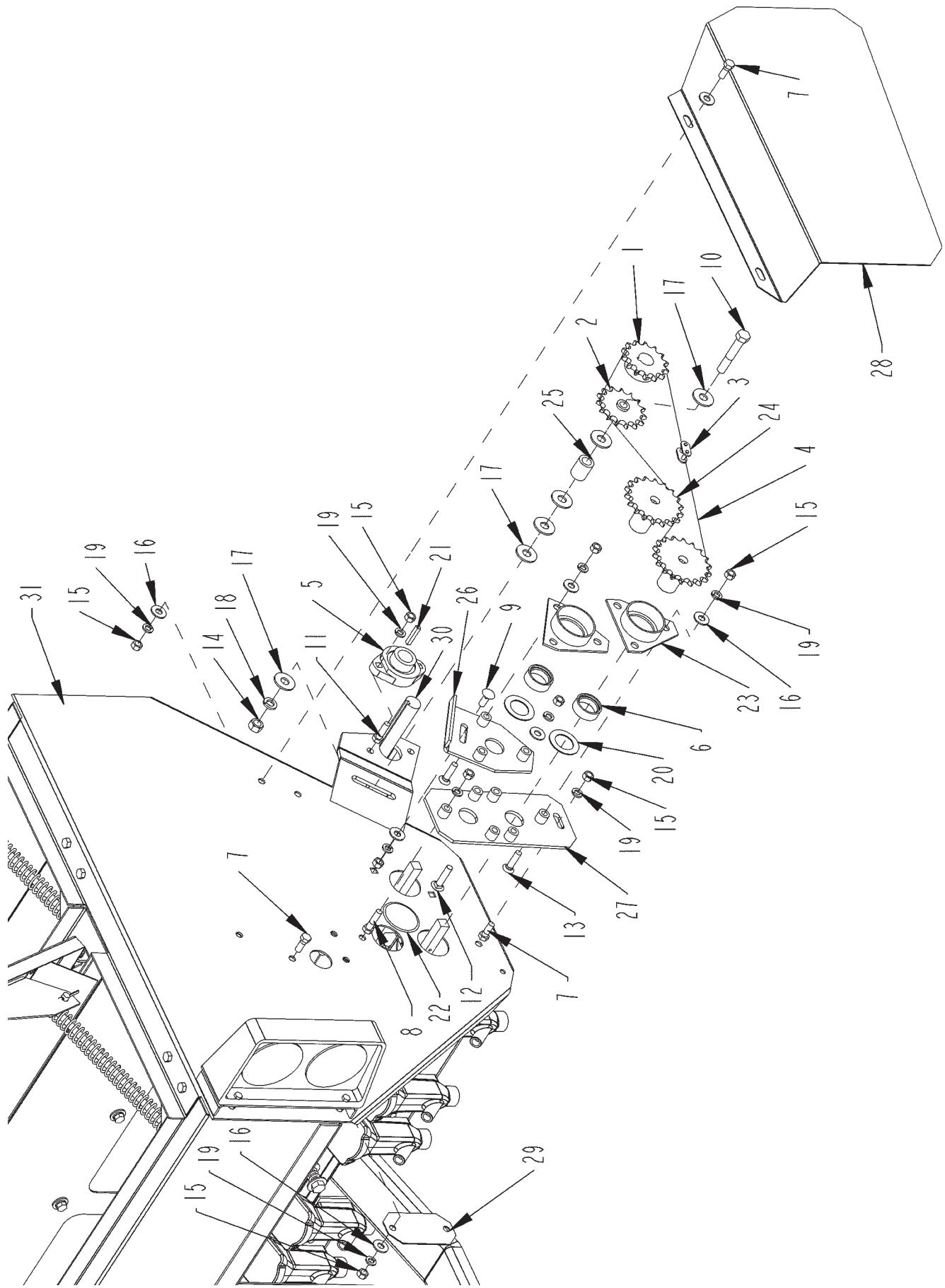
77C & 107C DRIVE WHEEL ASSEMBLY



77C & 107C DRIVE WHEEL ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
1	2000310	2	BRG\FLG\CAST\1\2BOLT
2	2600055	1	TIRE\4.8X12\LUG\4PLY
3	2600651	1	WHL\12X4\4HL\RIM
	2600865		WHL\ASSY\20X8-10\4HL\4CRL (includes # 2 & #3)
4	3600008	2	CROSS BEARING KIT
5	3600242	2	1" YOKE
6	3600254	1	FEMALE HALF FOR 3600241
7	3600253	1	MALE HALF FOR 3600241
	3600241		SHFT\DRV\CMPLT\TR6NA (includes #4, #5, #6 & #7)
8	3800082	2	FTG\LUB\1/4NFXZERK\ADAPT
9	4800080	3	BOLT\HEX\1/2X7
10	4800082	4	BOLT\HEX\1/2X1-1/2
11	4800098	4	BOLT\HEX\3/8X1-1/4\NC
12	4800626	1	BOLT\HEX\1X11\NC
13	4900001	3	NUT\HEX\1/2\NC
14	4900002	4	NUT\HEX\3/8\NC
15	4900005	3	NUT\HEX\5/8\NC
16	4900014	4	NUT\TPLCK\1/2\NC
17	4900015	1	NUT\NYLCK\1\NC
18	5000002	1	WASH\FLAT\5/8
19	5000006	3	WASH\LOCK\1/2
20	5000019	4	WASH\LOCK\3/8
21	6100032	1	SPG\COMP\2.81OD\406WD>
22	8400024	1	ROD\SPRG\WHL\DR
23	8400025	1	GUIDE\SPRING\LONG
24	8400026	1	GUIDE\SPRING\SHORT
25	8400792	1	SHFT\DRV\WHL\13"
26	8400793	1	BRKT\FRK\WHL\DRV\16-1/2X10-1/8
27	8400797	1	FRM\WHL\DR\WELD
28	D8400023	2	PL\MNT\WHL\DR
	8400794		WHL\DR\ASSY\107C

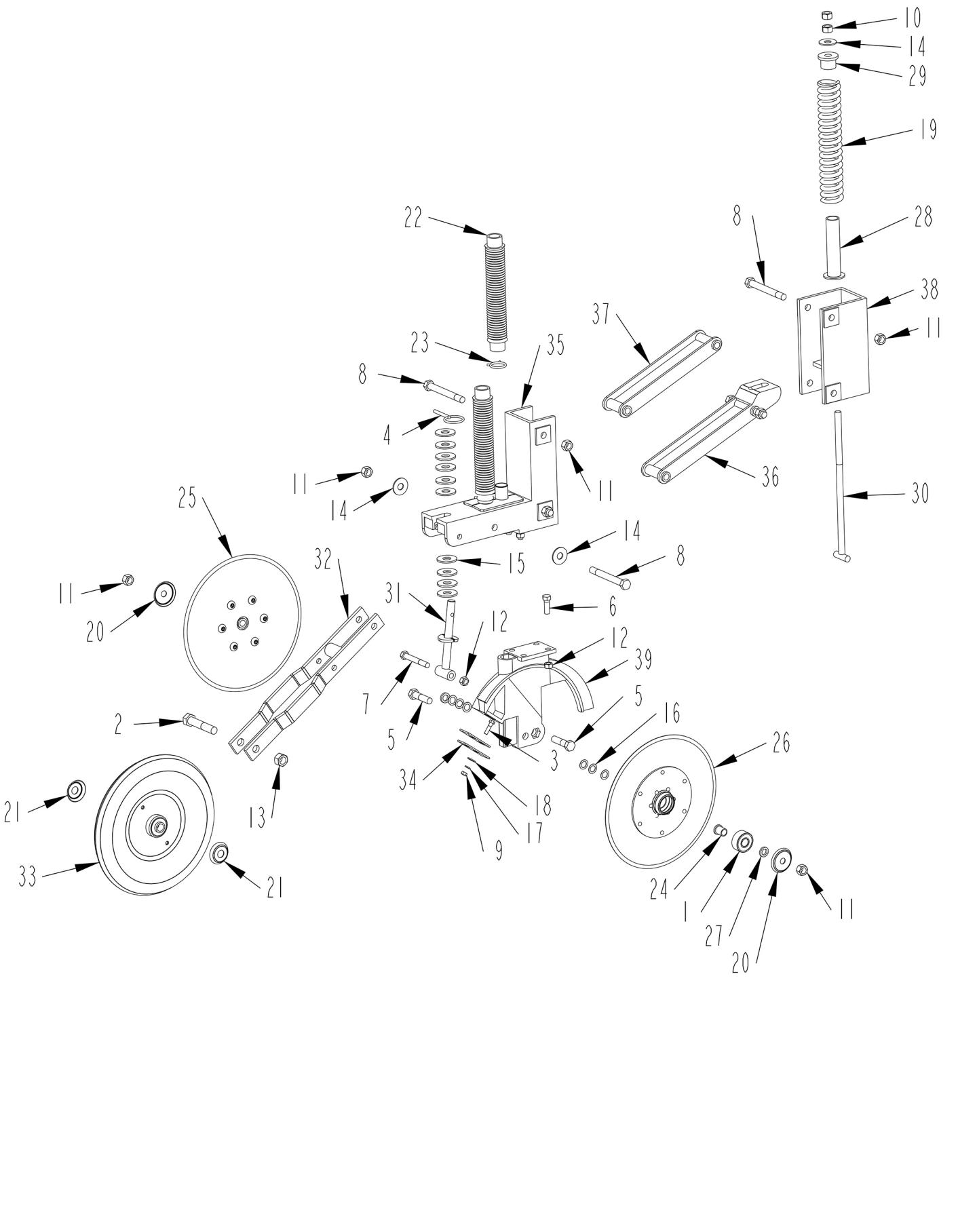
TANK END DRIVE (77C & 107C)



TANK END DRIVE (77C & 107C)

ITEM	PART	QTY.	PART DESCRIPTION
1	1000029	1	SPKT\50\B\14\1\1/4KW
2	1000039	1	SPKT\50\15\1/2\IDLER
3	1100227	1	CHAIN\50NP\CL
4	1100234	1	CHAIN\50NP\73
5	2000310	1	BRG\FLG\CAST\1\2BOLT
6	2000824	2	CLLR\BRG\1-1/4 - FOR 8400070
7	4800003	3	BOLT\HEX\3/8X1
8	4800034	1	BOLT\HEX\3/8X1-1/2
9	4800053	1	BOLT\CRG\3/8X1\NC
10	4800068	1	BOLT\HEX\1/2X3
11	4800098	4	BOLT\HEX\3/8X1-1/4\NC
12	4800168	1	BOLT\CRG\3/8X1-3/4\NC
13	4800230	5	SCR\CSK\ALN\3/8X1-1/2\NC
14	4900001	1	NUT\HEX\1/2\NC
15	4900002	15	NUT\HEX\3/8\NC
16	5000001	2	WASH\FLAT\3/8
17	5000004	6	WASH\FLAT\1/2
18	5000006	1	WASH\LOCK\1/2
19	5000019	15	WASH\LOCK\3/8
20	5000084	2	2"PD 1-1/4ID OILITE WASHR
21	6200005	1	KEY\SQ\1/4X1-1/2
22	7500515	2	PLASTIC PLUG 107 DRILL
23	8400070	2	BRG\1-1/4\W/BRKT\3-HL
24	8400071	2	SPKT\DRIVE\W/SQ_HL_SLV
25	8400073	1	SPCR\DRV\1ODX.640IDX1.25L
26	8400074	1	PL\SEAL\TANK\DRILL
27	8400242	1	PL\SEAL\TANK\107
28	8400243	1	SHLD\DR\AGTTR\SGL
29	8400274	1	PLUG\TANK\STL\107DRILL
30	8400573	1	SHFT\DR\TANK\1X38 (107C DRILL)
30A	8400738	1	SHFT\DRV\77\NTV_GR\1X23.5 (77C DRILL)
31	8400801	1	TANK\WLDMNT\107C
31A	8400802	1	TANK\WLDMNT\77C

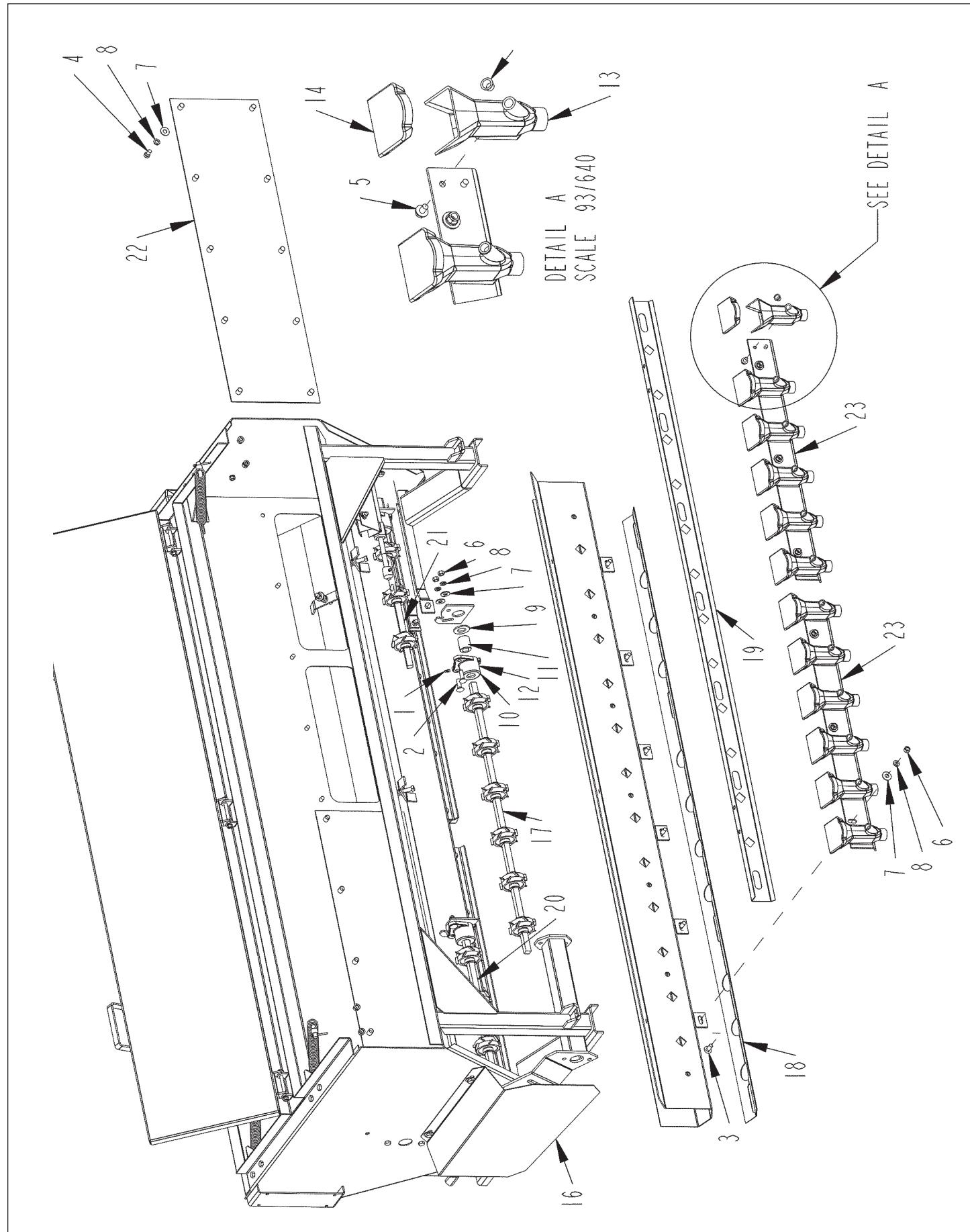
RUN ASSEMBLY (77C & 107C)



RUN ASSEMBLY (77C & 107C)

ITEM	PART	QTY.	PART DESCRIPTION
1	2000031	2	BRG\ROW\DBL
2	4800063	1	BOLT\HEX\3/4X4
3	4800071	1	BOLT\HEX\5/16X1-1/4
4	4800076	1	PIN\KLIK\5/16
5	4800079	2	BOLT\HEX\5/8X2-1/2
6	4800082	4	BOLT\HEX\1/2X1-1/2
7	4800231	1	BOLT\HEX\1/2X3-3/4
8	4800984	5	BOLT\HEX\5/8X5-1/2\SHRT\THRD
9	4900003	1	NUT\HEX\5/16\NC
10	4900005	2	NUT\HEX\5/8\NC
11	4900012	7	NUT\TPLCK\5/8\NC
12	4900014	11	NUT\TPLCK\1/2\NC
13	4900139	1	NUT\TPLCK\3/4\GR8\NC
14	5000002	3	WASH\FLAT\5/8
15	5000005	10	WASH\FLAT\3/4
16	5000009	6	WASH\1" OD\ SHIM
17	5000022	1	WASH\LOCK\5/16
18	5000023	1	WASH\FLAT\5/16
19	6100032	1	SPG\COMP\2.81OD\406WD>
20	7400258	2	CAP\DUST
21	7400264	2	CAP\WHL\W/O_PILOT
22	7500097	2	CONVOLUTED HOSE
23	7500098	2	CLAMP\SDHOSE\1-1/4\A-24
24	7500160	2	#6610 BREING BUSHING
25	7500187	1	BLADE\ASSY\14"\COULTER
26	7500188	1	BLADE\ASSY\DISC\14"
27	7500307	2	CAP\SPACER\BUSHING
28	8400025	1	GUIDE\SPRING\LONG
29	8400026	1	GUIDE\SPRING\SHORT
30	8400047	1	ROD\SPG\5/8X15
31	8400064	1	ROD\DEPTH\WHEEL\PACKER
32	8400271	1	BRKT\WHL\PACKER\20"
33	8400617	1	WHL\PRESS\STL\ASSY
34	8400670	2	SCRPR\DISC
35	8400692	1	FRM\RUN\LOWER\CAST
36	8400693	1	LINK\RUN\LOWER\CAST
37	8400694	1	LINK\RUN\UPPER\CAST
38	8400697	1	FRM\RUN\FR\CAST
39	8400736	1	BOOT\DR\SUB_WELD\LH\#10
39a	8400737	1	BOOT\DR\SUB_WELD\RH\#12
	8400780		RUN\DRILL\STL\RH\CAST\ASSY
	8400781		RUN\DRILL\STL\RH\CAST\ASSY

77C TANK ASSEMBLY - FRONT (FOR S.N. UP TO 0075)



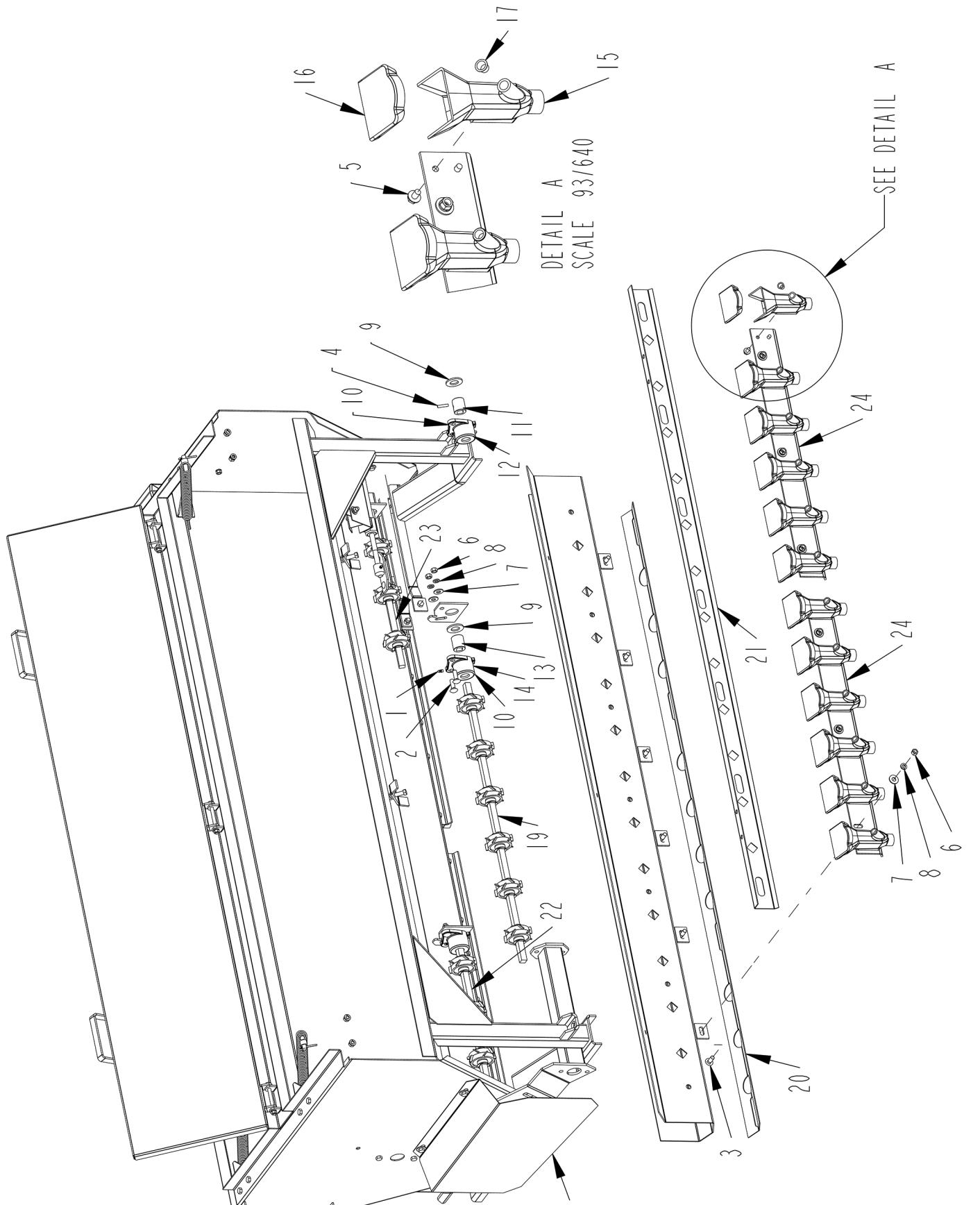
77C TANK ASSEMBLY - FRONT (FOR S.N. UP TO 0075)

ITEM	PART	QTY.	PART DESCRIPTION
1	3800082	6	FTG\LUB\1/4NFXZERK\ADAPT
2	4800012	12	BOLT\CRG\3/8X1-1/4\NC
3	4800053	13	BOLT\CRG\3/8X1\NC
4	4800164	20	BOLT\HEX\3/8X3/4
5	4801296	48	BOLT\FLG\SERR\5/16X1/2
6	4900002	49	NUT\HEX\3/8\NC
7	5000001	73	WASH\FLAT\3/8
8	5000019	69	WASH\LOCK\3/8
9	5000055	6	WASH\SPINDLE\7/8
10	7500108	6	HSG\CAST\BUSH\TANK\DRILL
11	7500562	4	SLV\SQ_HL\5/8X1-7/16\W/5/16_PLAIN
12	7501058	4	SUP\SHFT\ASSY\SLEEVE(INCLUDES 3800082, 5000055, 7500108, 7500562)
13	7501400	24	FNNL\SEED\SMALL\77-107
14	7501401	24	FNNL\COVER\SEED\SMALL\77-107
15	7501444	24	#5\CAPLUG
16	8400243	1	SHLD\DR\AGTTR\SGL
17	8400658	1	WHL\FEED\33-1/16\FR\CTR(COMPLETE)
17A	8400423		SHFT\TANK\33-1/16\DRILL(SHAFT ONLY)
18	8400704	2	PL\CLEANOUTTANK
19	8400705	1	PL\CNTRL\7" SPACING
20	8400707	1	WHL\FEED\23-15/16\FR\RH(COMPLETE)
20A	8400708		SHFT\TANK\23-15/16\DRILL(SHAFT ONLY)
21	8400709	1	WHL\FEED\19"\FR\RH(COMPLETE)
21A	8400710		SHFT\TANK\19"\DRILL(SHAFT ONLY)
22	8400717	2	COV\DIVIDER\SH\37.25X10.5(THRU S.N. 0075)
23	8400771	2	CUP\SEED\CNTR\FRNT\ASM

NOT SHOWN

4800169	2	PIN\RLLD\1/4X1-1/8
7500109	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL

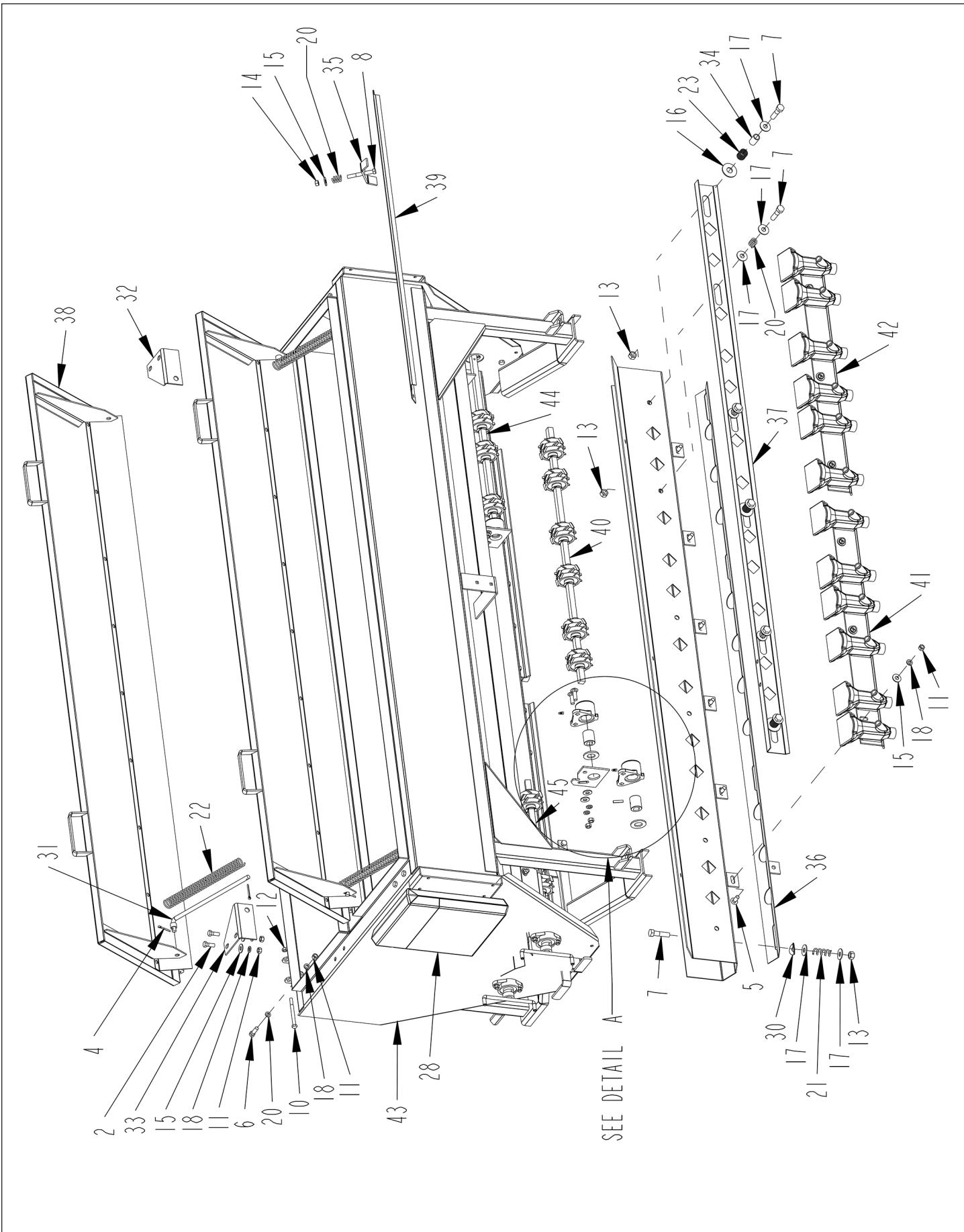
77C TANK ASSEMBLY - FRONT (FOR S.N. 0076 AND UP)



77C TANK ASSEMBLY - FRONT (FOR S.N. 0076 AND UP)

ITEM	PART	QTY.	PART DESCRIPTION
1	3800082	6	FTG\LUB\1/4NFXZERK\ADAPT
2	4800012	12	BOLT\CRG\3/8X1-1/4\NC
3	4800053	13	BOLT\CRG\3/8X1\NC
4	4800169	2	PIN\RLLD\1/4X1-1/8
5	4801296	48	BOLT\FLG\SERR\5/16X1/2
6	4900002	49	NUT\HEX\3/8\NC
7	5000001	51	WASH\FLAT\3/8
8	5000019	49	WASH\LOCK\3/8
9	5000055	6	WASH\SPINDLE\7/8
10	7500108	6	HSG\CAST\BUSH\TANK\DRILL
11	7500109	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
12	7500110	2	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 4800169, 5000055, 7500108, 7500109)
13	7500562	4	SLV\SQ_HL\5/8X1-7/16\W/5/16_PLAIN
14	7501058	4	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 5000055, 7500108, 7500562)
15	7501400	24	FNNL\SEED\SMALL\77-107
16	7501401	24	FNNL\COVER\SEED\SMALL\77-107
17	7501444	24	#5\CAPLUG
18	8400243	1	SHLD\DR\AGTTR\SGL
19	8400658	1	WHL\FEED\33-1/16\FR\CTR (COMPLETE)
19A	8400423		SHFT\TANK\33-1/16\DRILL(SHAFT ONLY)
20	8400704	2	PL\CLEANOUT\TANK
21	8400705	1	PL\CNTRL\7" SPACING
22	8400707	1	WHL\FEED\23-15/16\FR\RH (COMPLETE)
22A	8400708		SHFT\TANK\23-15/16\DRILL(SHAFT ONLY)
23	8400709	1	WHL\FEED\19"\FR\RH (COMPLETE)
23A	8400710		SHFT\TANK\19"\DRILL(SHAFT ONLY)
24	8400771	2	CUP\SEED\CNTR\FRNT\ASM

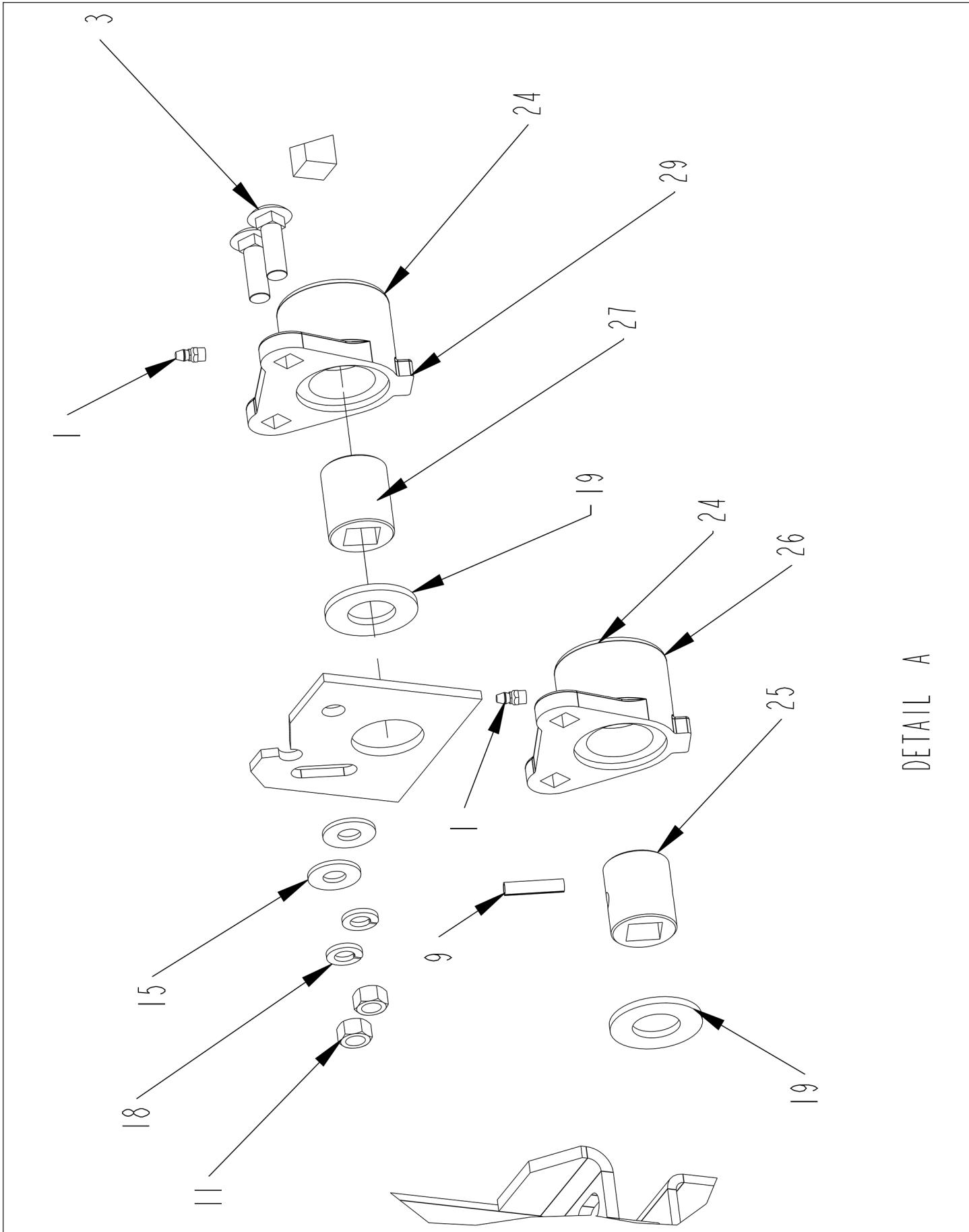
77C TANK ASSEMBLY - BACK



77C TANK ASSEMBLY - BACK

ITEM	PART	QTY.	PART DESCRIPTION
1	3800082	6	FTG\LUB\1/4NFXZERK\ADAPT
2	4800003	15	BOLT\HEX\3/8X1
3	4800012	12	BOLT\CRG\3/8X1-1/4\NC
4	4800044	8	PIN\COT\5/32X1-1/2
5	4800053	13	BOLT\CRG\3/8X1\NC
6	4800098	4	BOLT\HEX\3/8X1-1/4\NC
7	4800114	21	BOLT\HEX\1/2X2
8	4800156	6	BOLT\HEX\3/8X3
9	4800169	2	PIN\RLLD\1/4X1-1/8
10	4800170	6	BOLT\HEX\5/16X3-1/2
11	4900002	49	NUT\HEX\3/8\NC
12	4900003	18	NUT\HEX\5/16\NC
13	4900014	21	NUT\TPLCK\1/2\NC
14	4900030	6	NUT\NYLCK\3/8\NC
15	5000001	51	WASH\FLAT\3/8
16	5000002	6	WASH\FLAT\5/8
17	5000016	36	WASH\FLAT\7/16
18	5000019	49	WASH\LOCK\3/8
19	5000055	6	WASH\SPINDLE\7/8
20	5000128	4	WASH\FLAT\3/8\RBBR\EPDM
21	6100002	8	SPRING\COMP\0.072W\11/16OD\2-1/8LONG
22	6100017	4	PRESSURE SPRING 12X1 1/8
23	6100031	6	SPRING\COMP\0.072W\25/32OD
24	7500108	6	HSG\CAST\BUSH\TANK\DRILL
25	7500109	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
26	7500110	2	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 4800169, 5000055, 7500108, 7500109)
27	7500562	4	SLV\SQ_HL\5/8X1-7/16\W/5/16_PLAIN
28	7500590	1	ENCL\OPS\8-1/2X11X1-5/8 (THRU S.N. 0115, LATER MACHINES USE MANUAL CANISTER)
29	7501058	4	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 5000055, 7500108, 7500562)
30	8300236	8	WASH\BENT\1/2"
31	8400003	4	ROD\COV\TANK\SPG
32	8400005	2	RTNR\TANK\COVER\SPG\RH
33	8400004	2	RTNR\TANK\COVER\SPG\LH
34	8400007	6	GUIDE\PL\CNTRL\107
35	8400011	6	CLMP\WHL\COV\HOLD DOWN
36	8400704	2	PL\CLEANOUT\TANK
37	8400706	1	PL\CNTRL\7"\SPACING
38	8400716	2	COV\TANK\BANDING
39	8400719	4	COV\WHL\FEED\77
40	8400762	1	WHL\FEED\3S\33-1/16\REAR\CTR (COMPLETE)
40A	8400423		SHFT\TANK\33-1/16\DRILL(SHAFT ONLY)
41	8400773	1	CUP\SEED\CNTR\LT\REAR\ASM
42	8400774	1	CUP\SEED\CNTR\RT\REAR\ASM
43	8400802	1	TANK\WLD\MT\77C
44	8400803	1	WHL\FEED\3S\23-15/16\REAR\RH (COMPLETE)
44A	8400708		SHFT\TANK\23-15/16\DRILL(SHAFT ONLY)
45	8400804	1	WHL\FEED\3S\19\REAR\LH (COMPLETE)
45A	8400710		SHFT\TANK\19"\DRILL(SHAFT ONLY)

77C TANK ASSEMBLY - BACK - DETAIL A

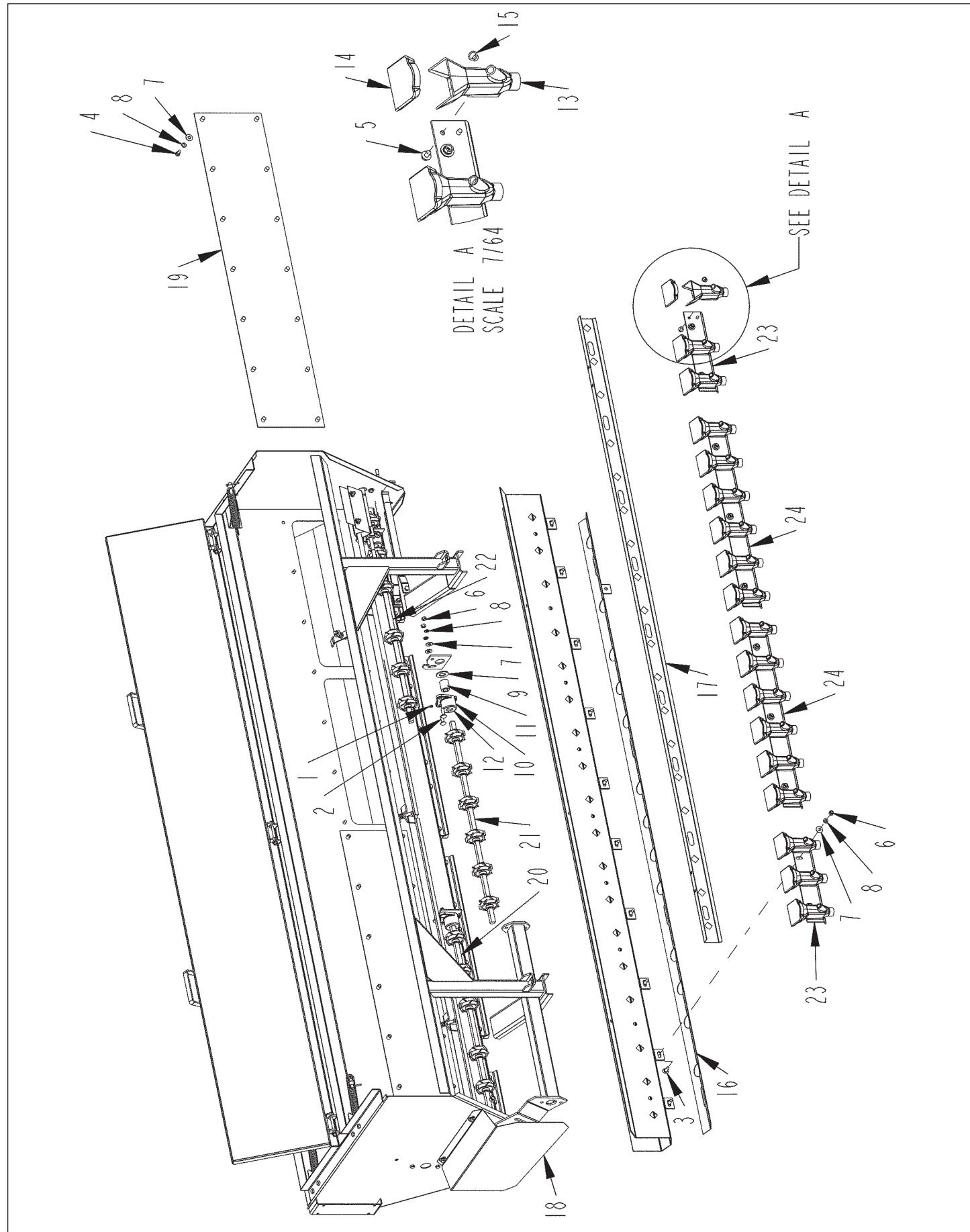


DETAIL A

77C TANK ASSEMBLY - BACK - DETAIL A

ITEM	PART	QTY.	PART DESCRIPTION
1	3800082	6	FTG\LUB\1/4NFXZERK\ADAPT
2	4800003	15	BOLT\HEX\3/8X1
3	4800012	12	BOLT\CRG\3/8X1-1/4\NC
4	4800044	8	PIN\COT\5/32X1-1/2
5	4800053	13	BOLT\CRG\3/8X1\NC
6	4800098	4	BOLT\HEX\3/8X1-1/4\NC
7	4800114	21	BOLT\HEX\1/2X2
8	4800156	6	BOLT\HEX\3/8X3
9	4800169	2	PIN\RLLD\1/4X1-1/8
10	4800170	6	BOLT\HEX\5/16X3-1/2
11	4900002	49	NUT\HEX\3/8\NC
12	4900003	18	NUT\HEX\5/16\NC
13	4900014	21	NUT\TPLCK\1/2\NC
14	4900030	6	NUT\NYLCK\3/8\NC
15	5000001	51	WASH\FLAT\3/8
16	5000002	6	WASH\FLAT\5/8
17	5000016	36	WASH\FLAT\7/16
18	5000019	49	WASH\LOCK\3/8
19	5000055	6	WASH\SPINDLE\7/8
20	5000128	4	WASH\FLAT\3/8\RBBR\EPDM
21	6100002	8	SPRING\COMP\0.072W\11/16OD\2-1/8LONG
22	6100017	4	PRESSURE SPRING 12X1 1/8
23	6100031	6	SPRING\COMP\0.072W\25/32OD
24	7500108	6	HSG\CAST\BUSH\TANK\DRILL
25	7500109	2	SLV\ISQ_HL\5/8X1-7/16\W/5/16_THRU_HL
26	7500110	2	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 4800169, 5000055, 7500108, 7500109)
27	7500562	4	SLV\ISQ_HL\5/8X1-7/16\W/5/16_PLAIN
28	7500590	1	ENCL\OPS\8-1/2X11X1-5/8 (THRU S.N. 0115, LATER MACHINES USE MANUAL CANISTER)
29	7501058	4	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 5000055, 7500108, 7500562)
30	8300236	8	WASH\BENT\1/2"
31	8400003	4	ROD\COV\TANK\SPG
32	8400005	2	RTNR\TANK\COVER\SPG\RH
33	8400004	2	RTNR\TANK\COVER\SPG\RH
34	8400007	6	GUIDE\PL\CNTRL\107
35	8400011	6	CLMP\WHL\COV\HOLD DOWN
36	8400704	2	PL\CLEANOUT\TANK
37	8400706	1	PL\CNTRL\7"SPACING
38	8400716	2	COV\TANK\BANDING
39	8400719	4	COV\WHL\FEED\77
40	8400762	1	WHL\FEED\3S\33-1/16\REAR\CTR (COMPLETE)
40A	8400423		SHFT\TANK\33-1/16\DRILL(SHAFT ONLY)
41	8400773	1	CUP\SEED\CNTR\LT\REAR\ASM
42	8400774	1	CUP\SEED\CNTR\RT\REAR\ASM
43	8400802	1	TANK\WLDmnt\77C
44	8400803	1	WHL\FEED\3S\23-15/16\REAR\RH (COMPLETE)
44A	8400708		SHFT\TANK\23-15/16\DRILL(SHAFT ONLY)
45	8400804	1	WHL\FEED\3S\19\REAR\RH (COMPLETE)
45A	8400710		SHFT\TANK\19"\DRILL(SHAFT ONLY)

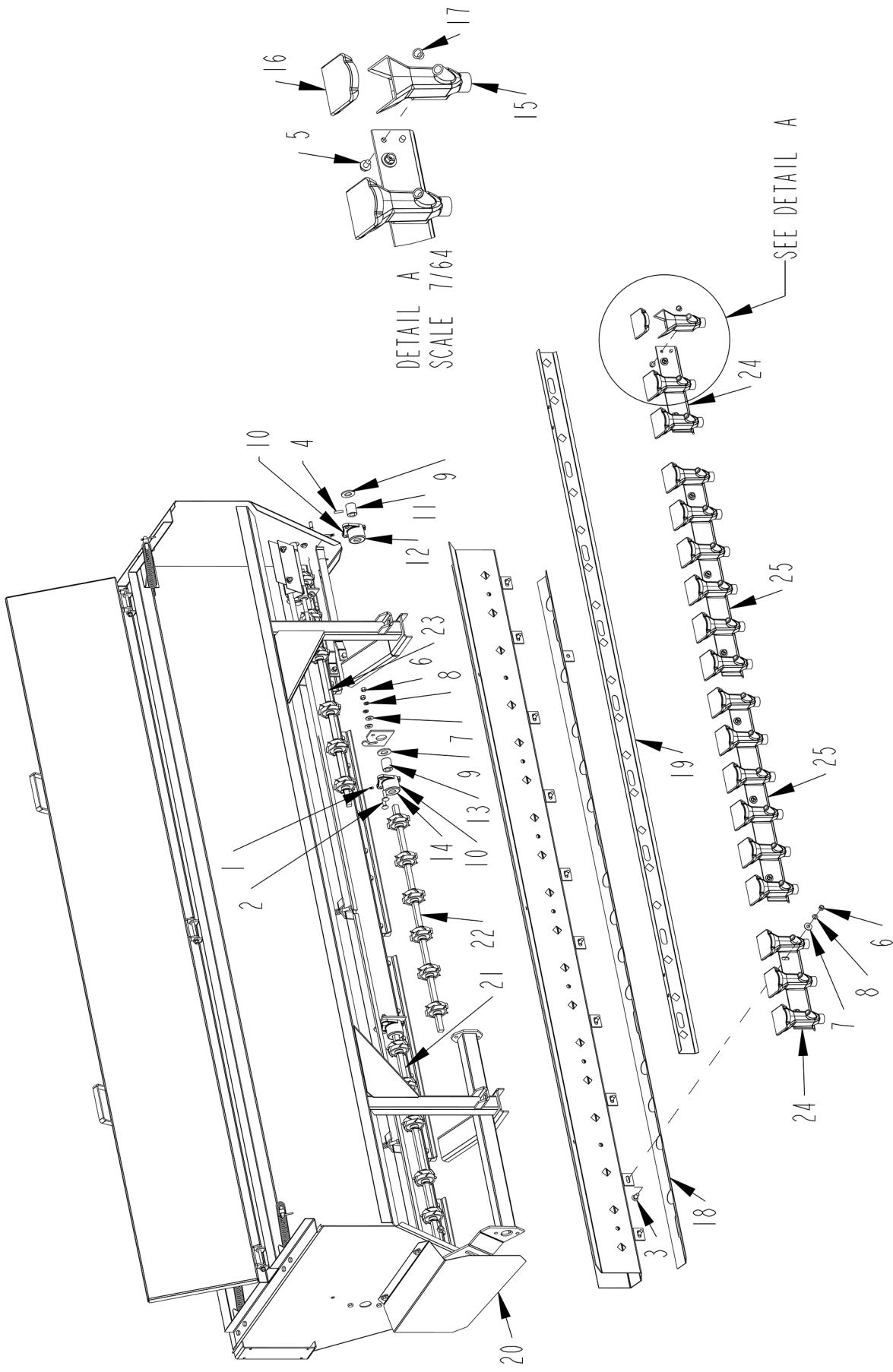
107C TANK ASSEMBLY - FRONT (FOR S.N. UP TO 0500)



107C TANK ASSEMBLY - FRONT (FOR S.N. UP TO 0500)

ITEM	PART	QTY.	PART DESCRIPTION
1	3800082	6	FTG\LUB\1/4NFXZERK\ADAPT
2	4800012	12	BOLT\CRG\3/8X1-1/4\NC
3	4800053	21	BOLT\CRG\3/8X1\NC
4	4800164	28	BOLT\HEX\3/8X3/4
5	4801296	72	BOLT\FLG\SERR\5/16X1/2
6	4900002	57	NUT\HEX\3/8\NC
7	5000001	87	WASH\FLAT\3/8
8	5000019	85	WASH\LOCK\3/8
9	5000055	6	WASH\SPINDLE\7/8
10	7500108	6	HSG\CAST\BUSH\TANK\DRILL
11	7500562	4	SLV\SQ_HL\5/8X1-7/16\W/5/16_PLAIN
12	7501058	4	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 5000055, 7500108, 7500562)
13	7501400	36	FNNL\SEED\SMALL\77-107
14	7501401	36	FNNL\COVER\SEED\SMALL\77-107
15	7501444	36	#5\CAPLUG
16	8400110	2	PL\CLEANOUT\TANK
17	8400114	1	PL\CNTRL\7" SPACING
18	8400243	1	SHLD\DRV\AGTTR\SGL
19	8400318	2	COV\DIVIDER\107
20	8400656	1	WHL\FEED\38-7/16\FR\RH (COMPLETE)
20A	8400426		SHFT\TANK\38-7/16\DRILL(SHAFT ONLY)
21	8400658	1	WHL\FEED\33-1/16\FR\CTR (COMPLETE)
21A	8400423		SHFT\TANK\33-1/16\DRILL(SHAFT ONLY)
22	8400660	1	WHL\FEED\34-1/2\FR\RH (COMPLETE)
22A	8400425		SHFT\TANK\34-1/2\DRILL(SHAFT ONLY)
23	8400770	2	CUP\SEED\END\FRNT\ASM
24	8400771	2	CUP\SEED\CNTR\FRNT\ASM
NOT SHOWN			
	4800169	2	PIN\RLLD\1/4X1-1/8
	7500109	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL

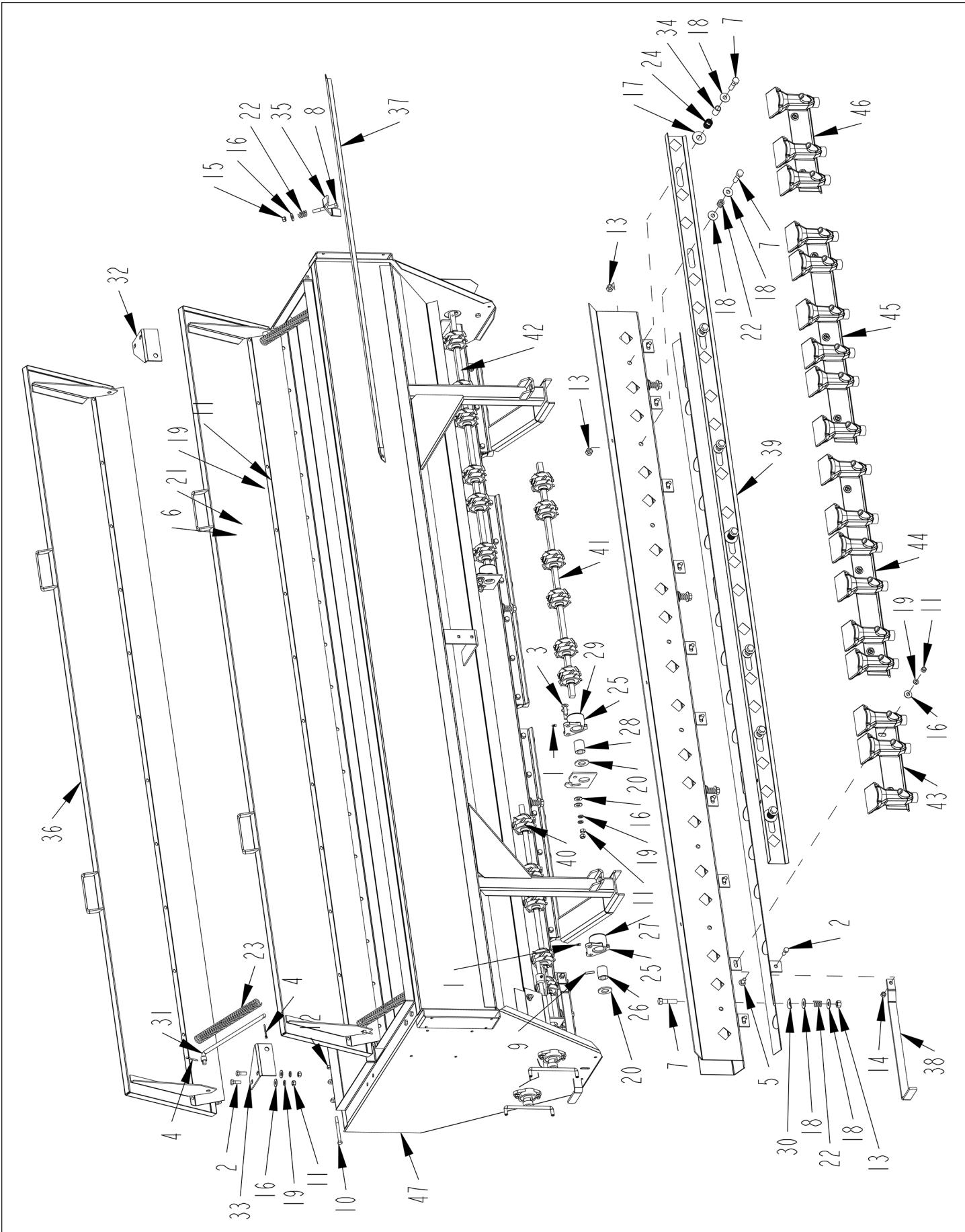
107C TANK ASSEMBLY - FRONT (FOR S.N. 0501 AND UP)



107C TANK ASSEMBLY - FRONT (FOR S.N. 0501 AND UP)

ITEM	PART	QTY.	PART DESCRIPTION
1	3800082	6	FTG\LUB\1/4NFXZERK\ADAPT
2	4800012	12	BOLT\CRG\3/8X1-1/4\NC
3	4800053	21	BOLT\CRG\3/8X1\NC
4	4800169	2	PIN\RLLD\1/4X1-1/8
5	4801296	72	BOLT\FLG\SERR\5/16X1/2
6	4900002	57	NUT\HEX\3/8\NC
7	5000001	59	WASH\FLAT\3/8
8	5000019	57	WASH\LOCK\3/8
9	5000055	6	WASH\SPINDLE\7/8
10	7500108	6	HSG\CAST\BUSH\TANK\DRILL
11	7500109	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
12	7500110	2	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 4800169, 5000055, 7500108, 7500109)
13	7500562	4	SLV\SQ_HL\5/8X1-7/16\W/5/16_PLAIN
14	7501058	4	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 5000055, 7500108, 7500562)
15	7501400	36	FNNL\SEED\SMALL\77-107
16	7501401	36	FNNL\COVER\SEED\SMALL\77-107
17	7501444	36	#5\CAPLUG
18	8400110	2	PL\CLEANOUT\TANK
19	8400114	1	PL\CNTRL7" SPACING
20	8400243	1	SHLD\DR\AGTTR\SGL
21	8400656	1	WHL\FEED\38-7/16\FR\RH
21A	8400426		SHFT\TANK\38-7/16\DRILL(SHAFT ONLY)
22	8400658	1	WHL\FEED\33-1/16\FR\CTR
22A	8400423		SHFT\TANK\33-1/16\DRILL(SHAFT ONLY)
23	8400660	1	WHL\FEED\34-1/2\FR\LH
23A	8400425		SHFT\TANK\34-1/2\DRILL(SHAFT ONLY)
24	8400770	2	CUP\SEED\END\FRNT\ASM
25	8400771	2	CUP\SEED\CNTR\FRNT\ASM

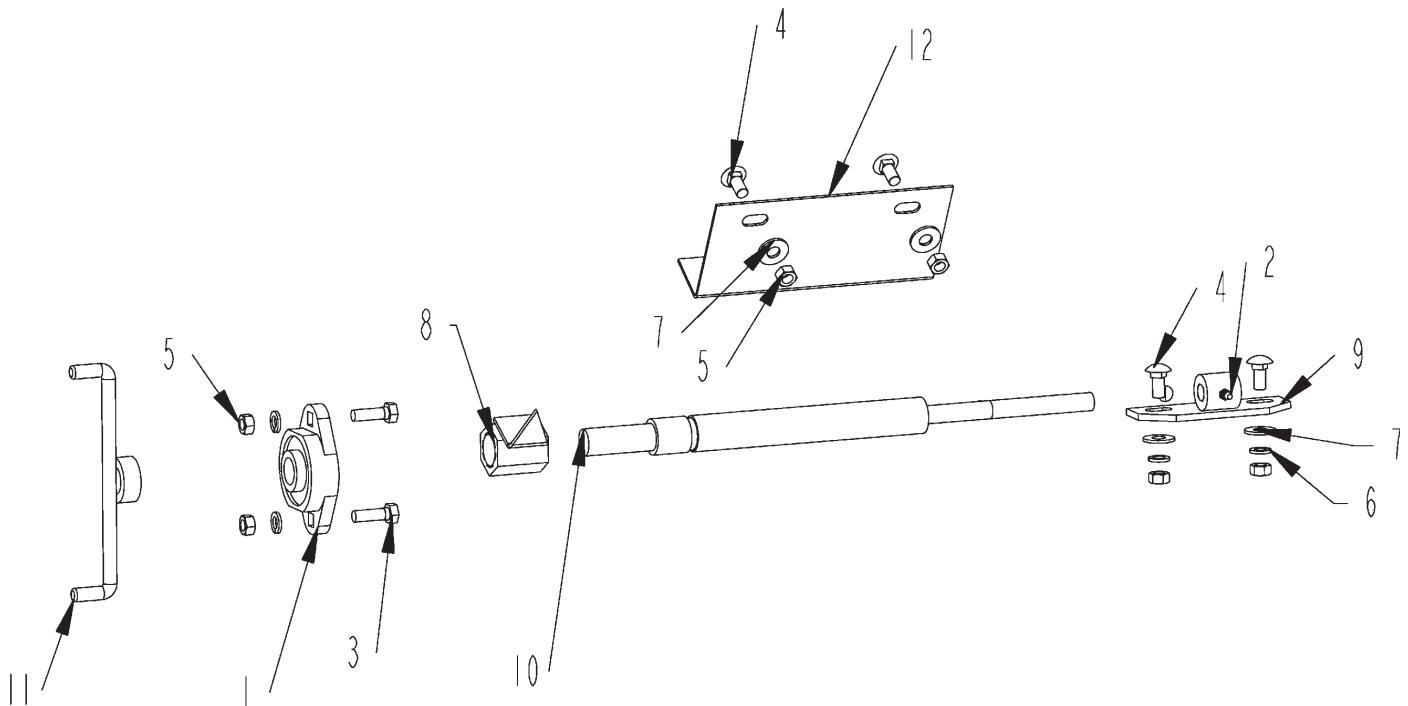
107C TANK ASSEMBLY - BACK



107C TANK ASSEMBLY - BACK

ITEM	PART	QTY.	PART DESCRIPTION
1	3800082	6	FTG\LUB\1/4NFXZERK\ADAPT
2	4800003	15	BOLT\HEX\3/8X1
3	4800012	12	BOLT\CRG\3/8X1-1/4\NC
4	4800044	8	PIN\COT\5/32X1-1/2
5	4800053	21	BOLT\CRG\3/8X1\NC
6	4800098	4	BOLT\HEX\3/8X1-1/4\NC
7	4800114	25	BOLT\HEX\1/2X2
8	4800156	6	BOLT\HEX\3/8X3
9	4800169	2	PIN\RLLD\1/4X1-1/8
10	4800170	6	BOLT\HEX\5/16X3-1/2
11	4900002	57	NUT\HEX\3/8\NC
12	4900003	18	NUT\HEX\5/16\NC
13	4900014	25	NUT\TPLCK\1/2\NC
14	4900023	2	NUT\TPLCK\3/8\NC
15	4900030	6	NUT\NYLCK\3/8\NC
16	5000001	59	WASH\FLAT\3/8
17	5000002	6	WASH\FLAT\5/8
18	5000004	44	WASH\FLAT\1/2
19	5000019	57	WASH\LOCK\3/8
20	5000055	6	WASH\SPINDLE\7/8
21	5000128	4	WASH\FLAT\3/8\RBBR\EPDM
22	6100002	25	SPRING\COMP\0.072W\11/16OD\2-1/8LONG
23	6100017	4	PRESSURE SPRING 12X1 1/8
24	6100031	6	SPRING\COMP\0.072W\25/32OD
25	7500108	6	HSG\CAST\BUSH\TANK\DRILL
26	7500109	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
27	7500110	2	SUP\SHFT\ASSY\SLEEVE\107 (INCLUDES 3800082, 4800169, 5000055, 7500108, 7500109)
28	7500562	4	SLV\SQ_HL\5/8X1-7/16\W/5/16_PLAIN
29	7501058	4	SUP\SHFT\ASSY\SLEEVE\107(INCLUDES 3800082, 5000055, 7500108, 7500562)
30	8300236	8	WASH\BENT\1/2"
31	8400003	4	ROD\COV\TANK\SPG
32	8400005	2	RTNR\TANK\COVER\SPG\RH
33	8400004	2	RTNR\TANK\COVER\SPG\LH
34	8400007	6	GUIDE\PL\CNTRL\107
35	8400011	6	CLMP\WHL\COV\HOLD DOWN
36	8400107	2	COV\TANK\BANDING\107
37	8400111	4	COV\WHL\FEED\107\S/N2672\107
38	8400112	2	HDL\PL_CLEANOUT
39	8400245	1	PL\CNTRL\7"SPACING
40	8400761	1	WHL\FEED\3S\34-1/2\REAR\RH (COMPLETE)
40A	8400425		SHFT\TANK\34-1/2\DRILL(SHAFT ONLY)
41	8400762	1	WHL\FEED\3S\33-1/16\REAR\CTR (COMPLETE)
41A	8400423		SHFT\TANK\33-1/16\DRILL(SHAFT ONLY)
42	8400763	1	WHL\FEED\3S\38-7/16\REAR\RH (COMPLETE)
42A	8400426		SHFT\TANK\38-7/16\DRILL(SHAFT ONLY)
43	8400772	1	CUP\SEED\END\LT\REAR\ASM
44	8400773	1	CUP\SEED\CNTR\LT\REAR\ASM
45	8400774	1	CUP\SEED\CNTR\RT\REAR\ASM
46	8400775	1	CUP\SEED\END\RT\REAR\ASM
47	8400801	1	TANK\WLDMNT\107C

SEED & FERTILIZER SETTING ASSEMBLY



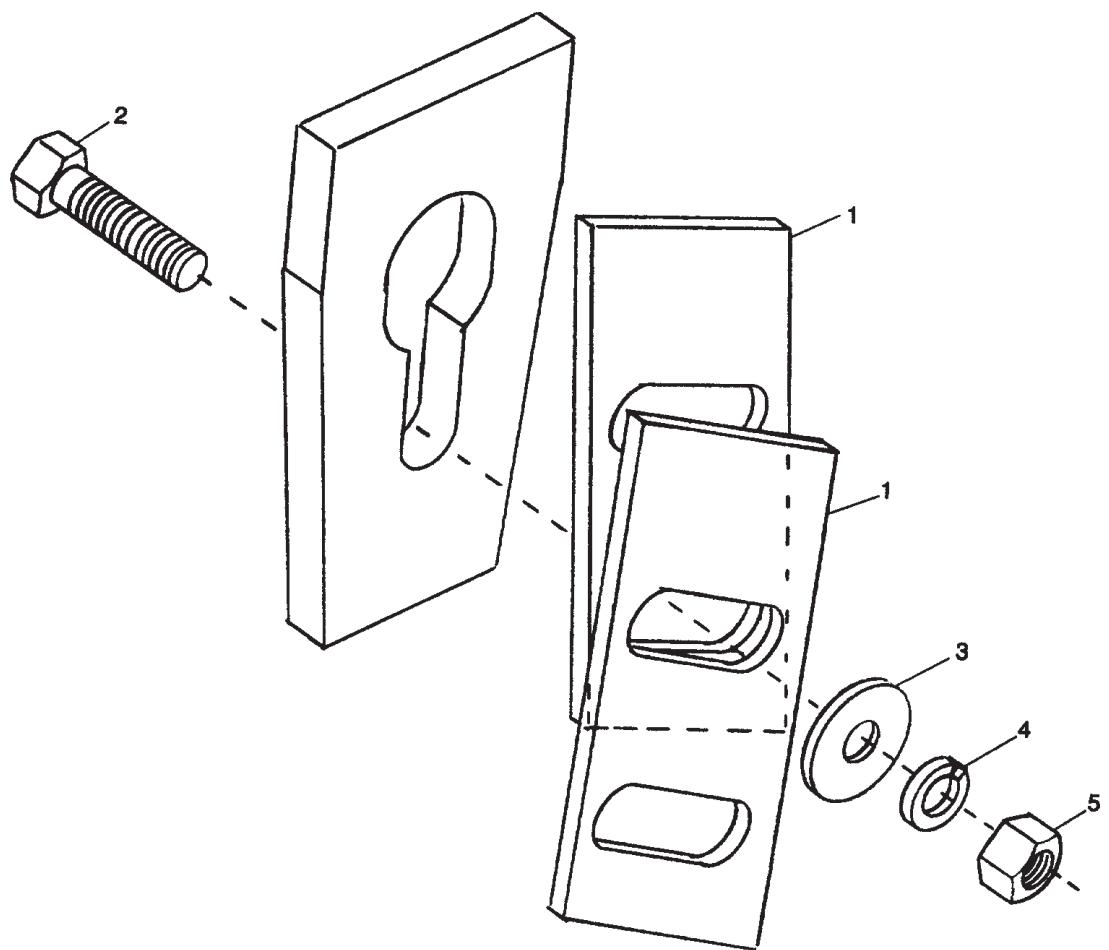
ITEM	PART	QTY.	PART DESCRIPTION
1	2000313	1	BRG\FLG\CAST 3/4\2BOLT
2	3600053	1	FTG\LUB\1/4NFXZERK\ADAPT
3	4800013	2	BOLT\HEX\5/16X1
4	4800153	4	BOLT\CRG\5/16X3/4\NC
5	4900003	6	NUT\HEX\5/16\NC
6	5000022	4	WASH\LOCK\5/16
7	5000023	4	WASH\FLAT\5/16
8	7500071	1	CALIBRATION POINTER NUT
9	7500072	1	CALIBRATION CONTRL PL NUT
10	7500073	1	CALIBRATION SHAFT #6620
11	8400060	1	HDL\CAL
12	8400262	1	PL\DECAL\CAL\DUAL_USE\107

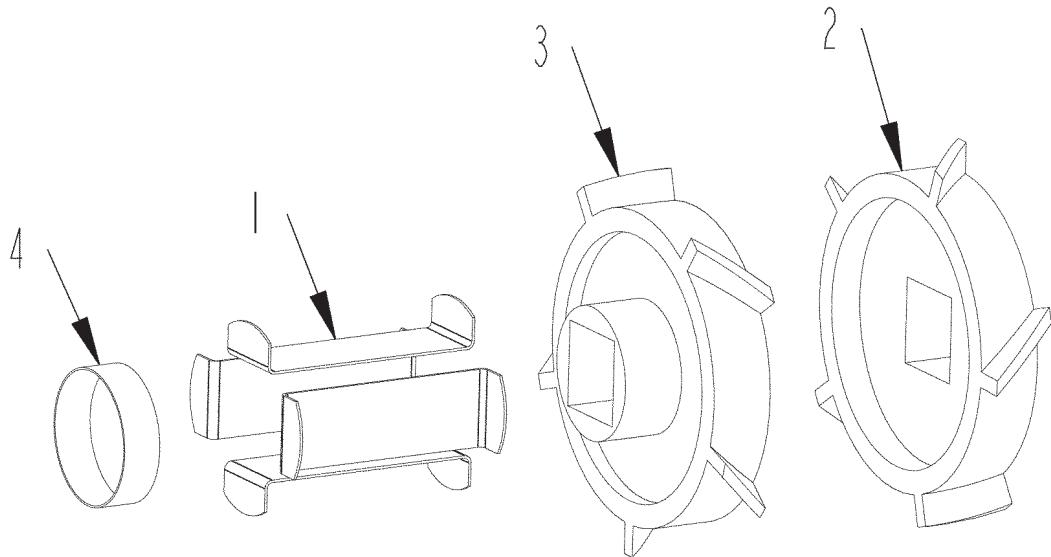
NOT SHOWN

6500016 DECAL\INFO\CAL;SCALE;GRAN
 6500017 DECAL\INFO\CAL.SCALE;FERT
 6500081 DECAL\INFO\CAL.SCALE;>

SCRAPER ASSEMBLY

ITEM	PART	QTY.	PART DESCRIPTION
	8400091		Scraper Assembly - Complete
1	8400670	2	Scraper\Disc
2	4800071	1	5/16" x 1-1/4" Bolt
3	5000023	1	5/16" Flat Washer
4	5000022	1	5/16" Lock Washer
5	4900003	1	5/16" Hex Nut

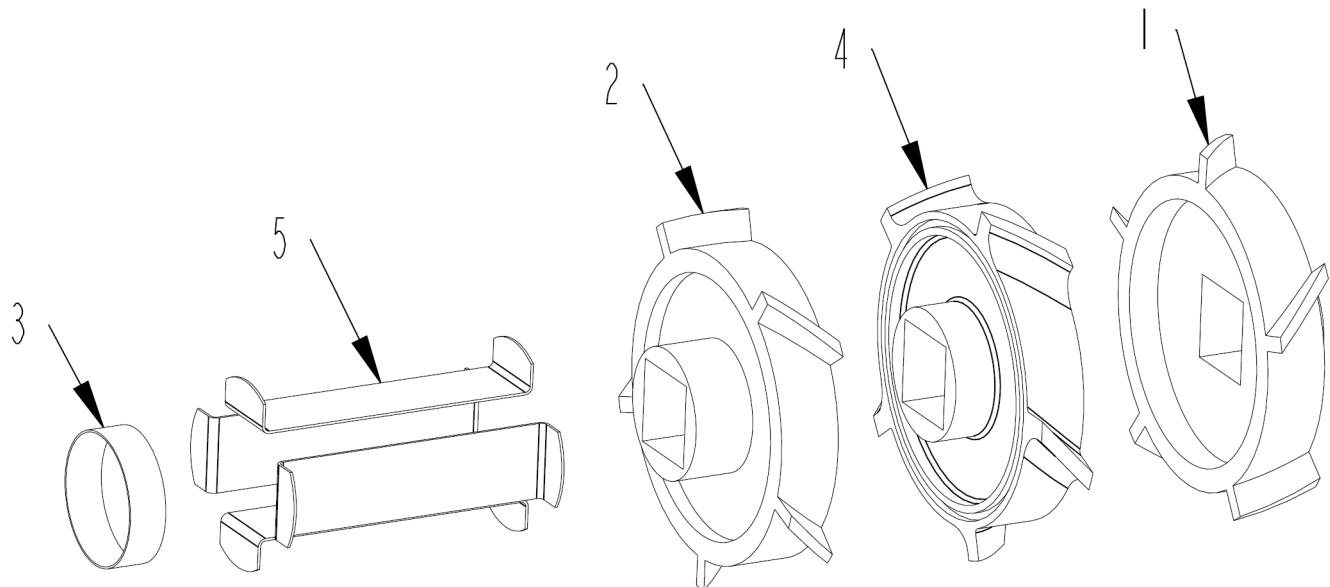


FEED WHEEL - DOUBLE

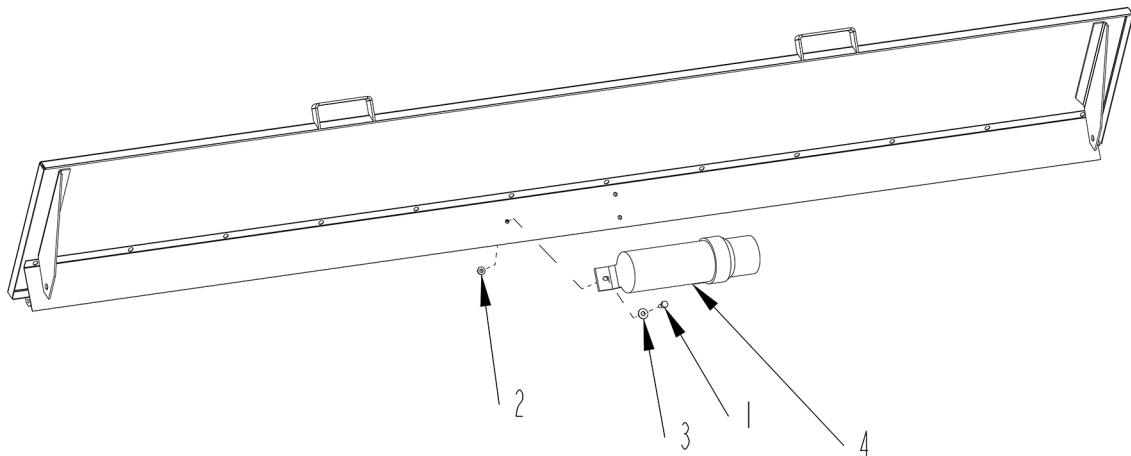
ITEM	PART	QTY.	PART DESCRIPTION
1	7400066	4	CLIP\RETAINER\WHL\FEED
2	7500007	1	WHL\FEED\LH
3	7500008	1	WHL\FEED\RH
4	7500107	1	CLMP\HOSE
	7500006		WHL\FERTTANK(INCLUDES ALL ABOVE)

FEED WHEEL - TRIPLE

ITEM	PART	QTY.	PART DESCRIPTION
1	7500007	1	WHL\FEED\LH
2	7500008	1	WHL\FEED\RH
3	7500107	1	CLMPHOSE
4	7501388	1	WHL\FEED\CENTER
5	7501407	4	CLIP\RETAINER\WHL\FEED\TRIPLE
	7501453		WHL\FEED\TRIPLE(INCLUDES ALL ABOVE)

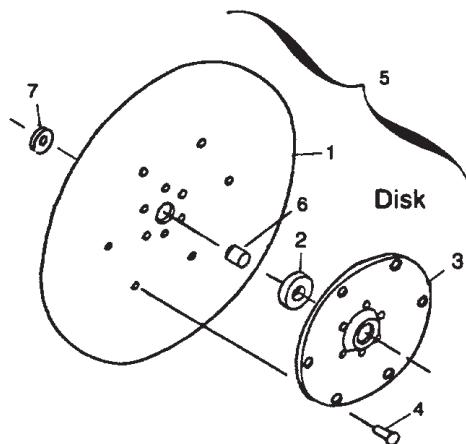
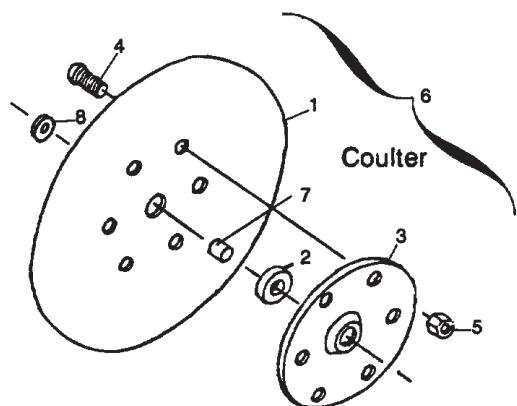


MANUAL CANISTER



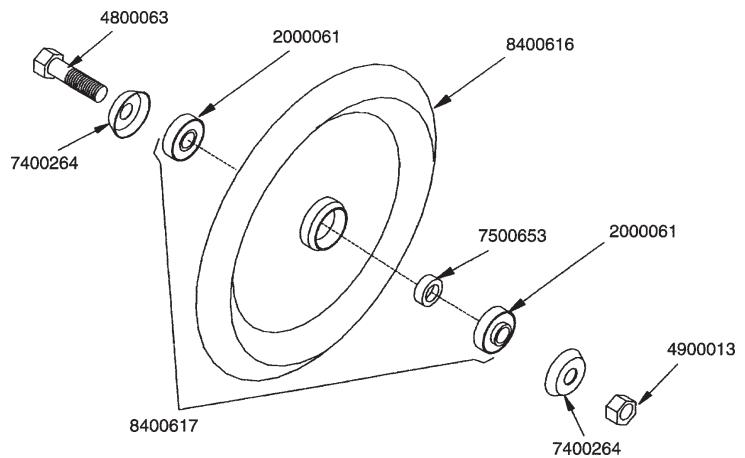
ITEM	PART	QTY.	PART DESCRIPTION
1	4800643	3	BOLT\HEX\5/16X3/4
2	4900108	3	NUT\FLG\SERR\5/16\NC
3	5000023	3	WASH\FLAT\5/16
4	7501628	1	CNSTRS\MANUAL\12X3.5

COULTER & DISK ASSEMBLY



ITEM	PART NO.	QTY.	DESCRIPTION	ITEM	PART NO.	QTY.	DESCRIPTION
1	7500064	1	Coulter, 14" - 6 Hole	1	7500010	1	Disk, 14"
2	2000031	1	Brg.	2	2000031	1	Brg.
3	7500165	1	Cage	3	7500167	1	Cage
4	4800161	6	1/2" - 13 x 1" Button Hd. Socket Screw	4	4800039	12	Rivets, 1/4" x 1/2"
5	4900014	6	Lock Nut, 1/2"	5	7500188	1	Disk (Complete)
6	7500187	1	Coulter (Complete)	6	7500160	1	Sleeve
7	7500160	1	Sleeve	7	5000009	2	Shim Washers
8	5000009	2	Shim Washer				

PRESS WHEEL ASSEMBLY



TO RETROFIT DRILL WITH SERIAL NO. 1550 & UP
ORDER PART 8400617 & 4800063

PART NO.	QTY.	DESCRIPTION
8400617		Press Wheel Assembly
2000061	2	Brg/3/4/FHR204-12
7500653	1	Spcr/Wheel/Packer/107
8400616	1	Whl/Stl; Packer/107
7400264	2	Packer Wheel Cap - No Pilot
4800063	1	Bolt\Hex\3/4 x 4
4900139	1	Nut\Toplock\3/4



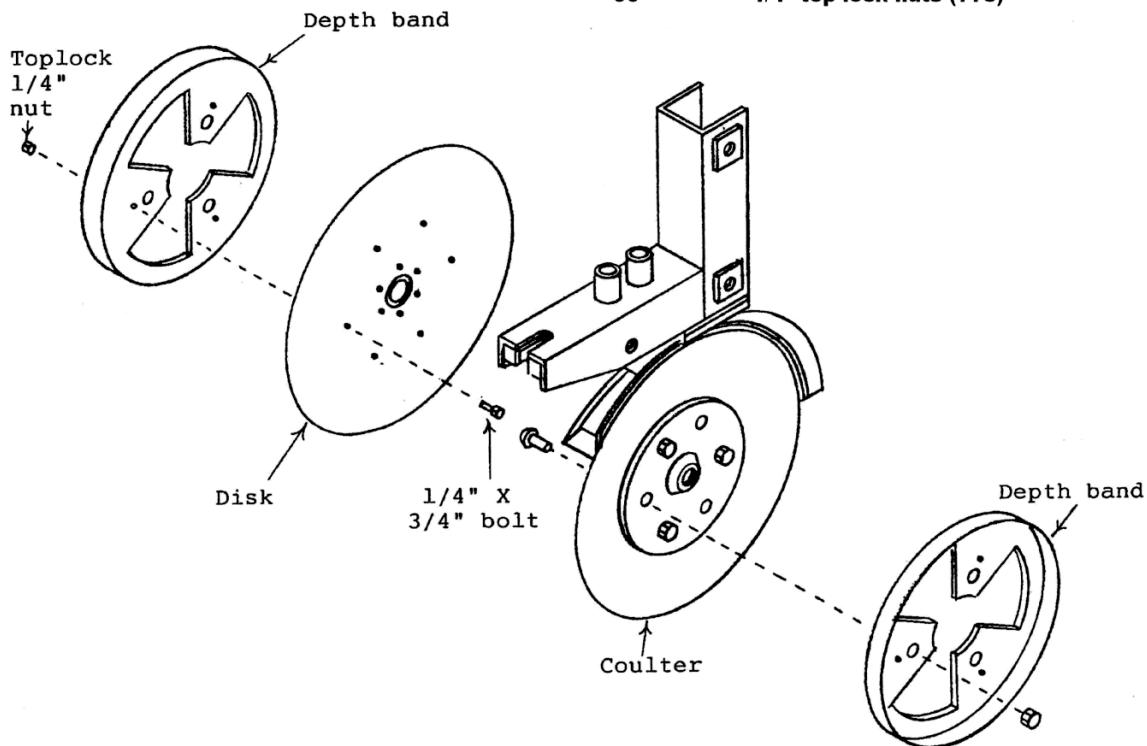
DEPTH BAND INSTALLATION

Depth Band Installation

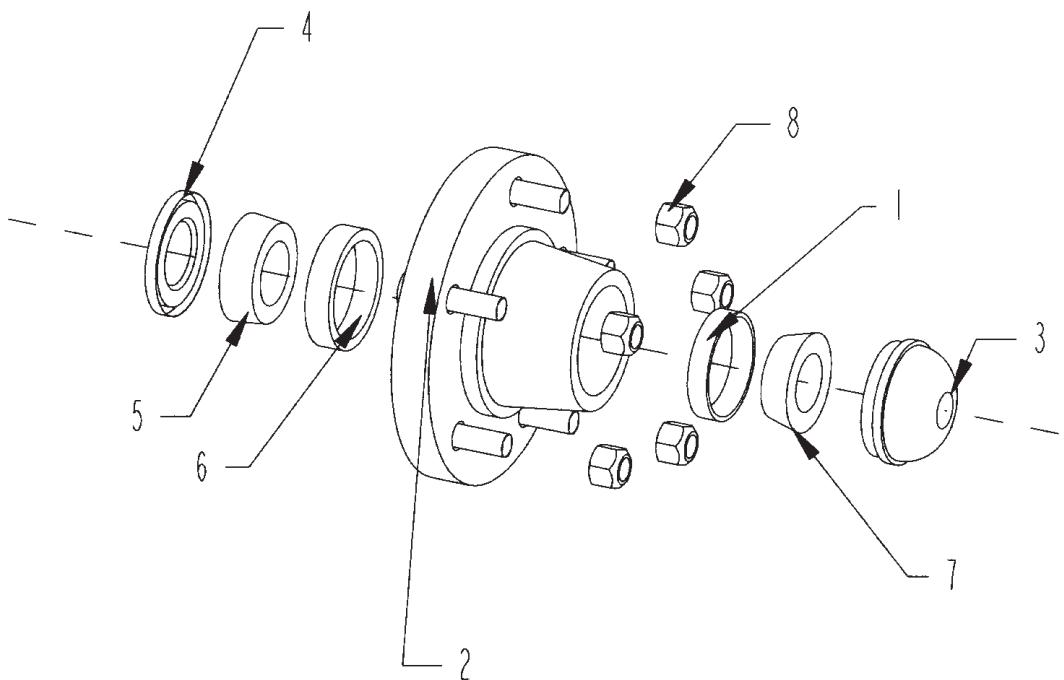
- Step 1. Remove disk as shown in illustration
- Step 2. Remove the three rivets matching small holes in depth band from the disk
- Step 3. Bolt depth band to disk using (3) 1/4" X 3/4" bolts and (3) 1/4" toplock nuts
- Step 4. Remove the three bolts matching large holes in depth band from the coulter. It is not necessary to remove coulter from opener.
- Step 5. Using bolts removed in step 4, bolt depth band to coulter.
- Step 6. Reinstall disk on opener

Depth Band Kit

Qty. per drill	Description
36	Depth Bands Part # 8400645 (107c)
24	Depth Bands Part # 8400729 (77c)
54	1/4" x 3/4" bolts (107c)
36	1/4" x 3/4" bolts (77c)
54	1/4" top lock nuts (107c)
36	1/4" top lock nuts (77c)



HUB ASSEMBLY

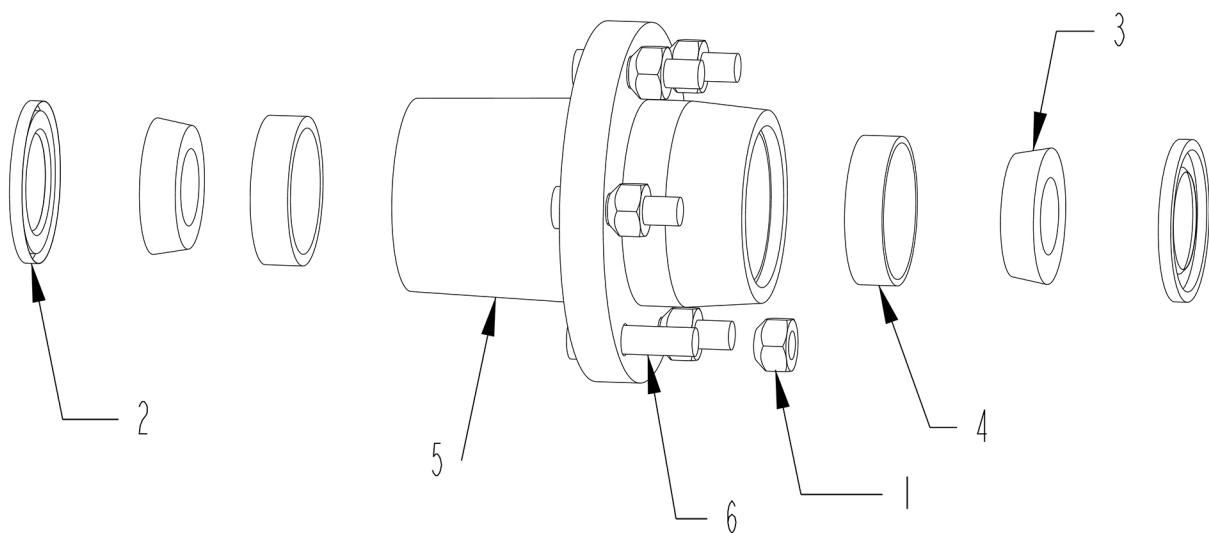


H U B A S S E M B L Y

ITEM	PART	QTY.	PART DESCRIPTION
1	2900004	1	CUP\INNER\WHEEL HUB
2	2900011	1	HUB\WITH CONES\W/NUTS
3	2900013	1	CAP\DUST\WHL;HUB(DC-13)
4	2900014	1	SEAL\GREASE(517) (15190)
5	2900015	1	CONE\INNER\WHL HUB(48548)
6	2900016	1	CUP\INNER\WHL:HUB(48510)
7	2900018	1	CONE\OUTER\WHL;HUB(67048)
8	4900094	5	NUT\TAPER\WHEEL\1/2\NF\

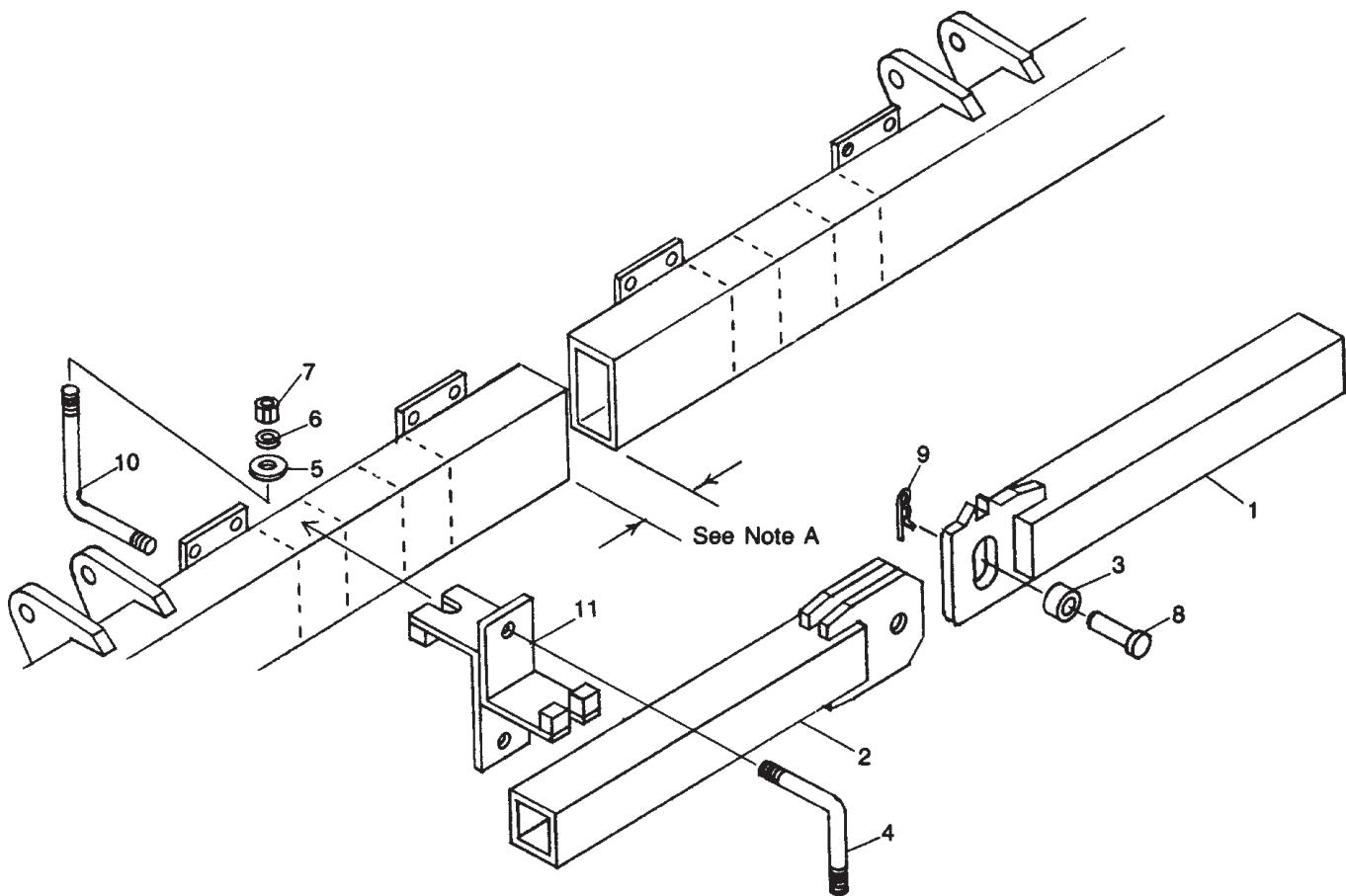
HUB FORK ASSEMBLY

ITEM	PART NO.	QTY.	DESCRIPTION
1	2900083	6	NUT\WHL\9/16-18\UNF
2	2900085	2	SEAL\WHL;HUB(20078)
3	2900086	2	CONE\2788\WHL;HUB
4	2900087	2	CUP\BRG\HUB\WHL\2720
5	2900089	1	HUB\H-628(FORK)\COMPLETE
6	2900090	6	WHL\BOLT\9/16"X2-1/4"



FRONT STABILIZER OPTION (107C ONLY)

NOTE: For drill with disc type banding openers, mount stabilizer in front of banding tool bar. See illustration.

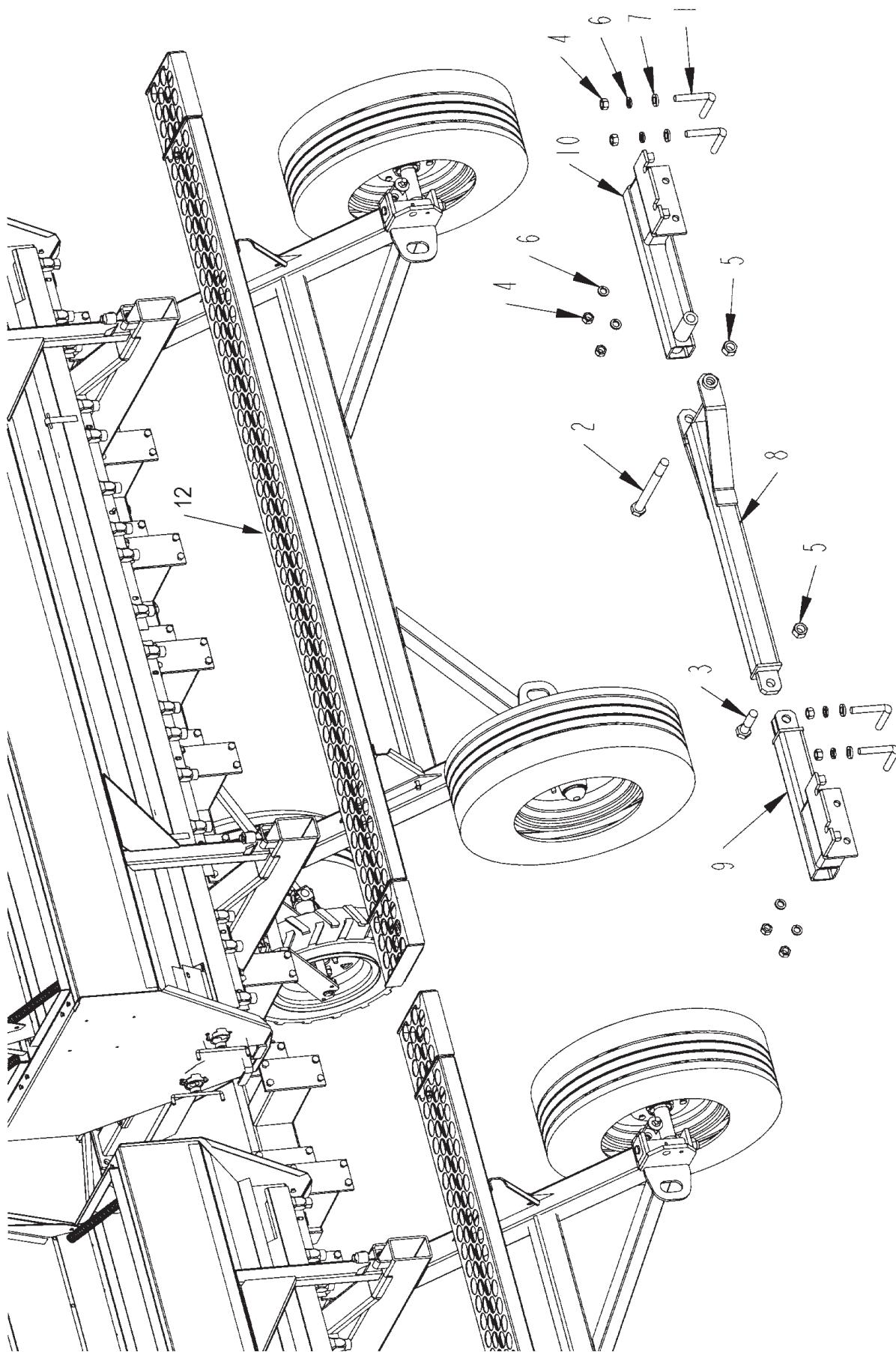


NOTE: A

Space tool bars 3" apart for 7" spacing.
 Space tool bars 10" apart for paired row 6-14 spacing.
 Mount double clamps as far apart as possible.
 Space tool bars 6" apart for 10" spacing.

ITEM	PART NO.	QTY.	DESCRIPTION
1	8400183	1	Male Stabilizer
2	8400184	1	Female Stabilizer
3	8400185	1	1-1/2" O.D. x 1" I.D. Bushing
4	4800183	4	3/4" L-Bolt 5-1/4" O.D. x 5-1/4" O.D.
5	5000005	8	3/4" Flat Washer
6	5000012	16	3/4" Lock Washer
7	4900004	16	3/4" Hex Nut
8	4800185	1	1" x 3" Clevis Pin
9	4800157		1 3/16" x 2" Cotter Key
10	4800199	4	3/4" L-Bolt 5-1/4" O.D. x 7-1/4" O.D.
11	8400186	4	Double Clamp

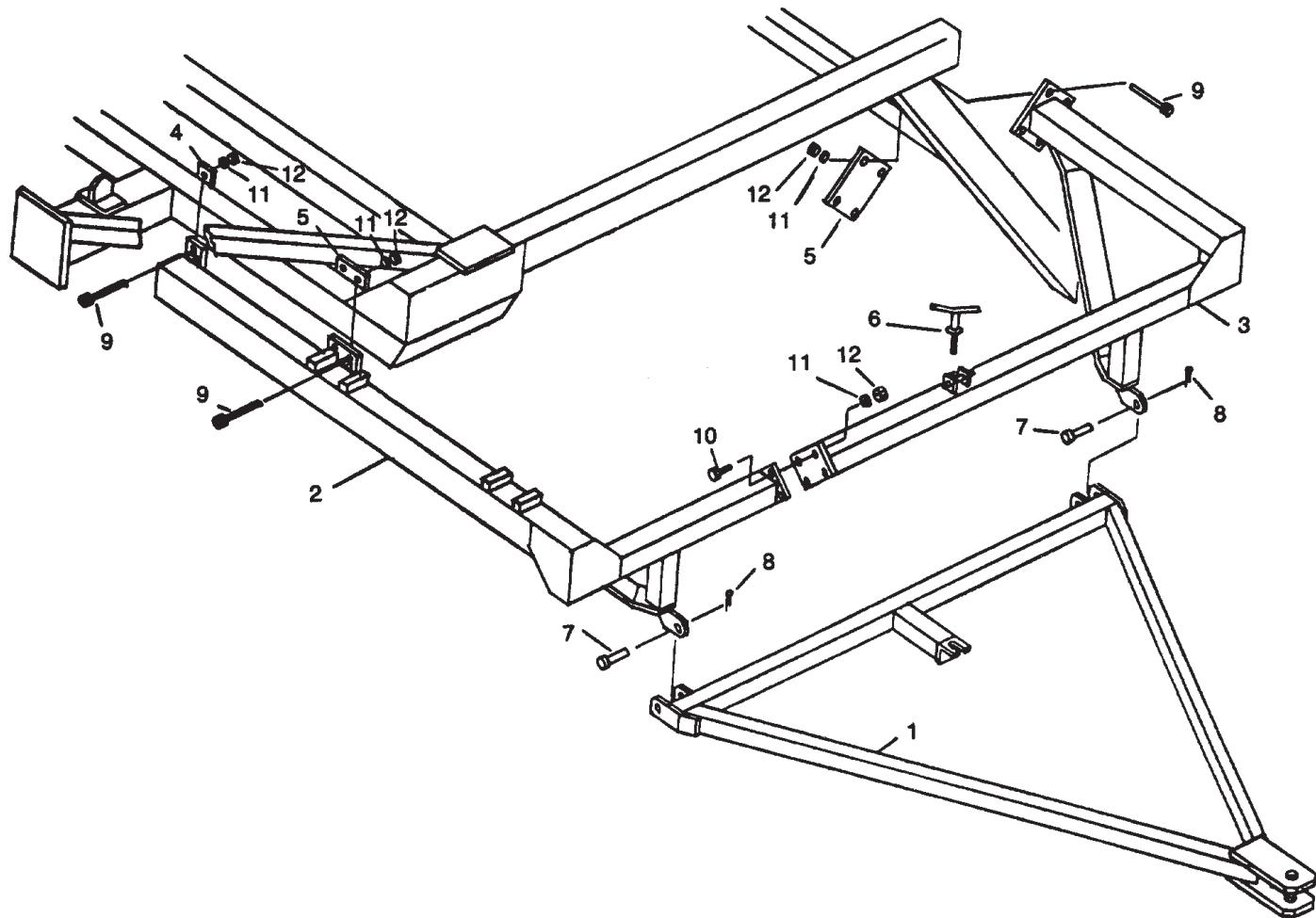
REAR STABILIZER OPTION (107C ONLY)



REAR STABILIZER OPTION (107C ONLY)

ITEM	PART	QTY.	PART DESCRIPTION
1	4800183	4	BOLT\L\3/4\5-1/4X5-1/4
2	4800626	1	BOLT\HEX\1X11\NC
3	4800647	1	BOLT\HEX\1X4\NC
4	4900004	8	NUT\HEX\3\4\NC
5	4900015	2	NUT\NYLCK\1\NC
6	5000012	8	WASH\LOCK\3/4
7	5000115	4	WASH\FLAT\3/4\EXTRTHK\GR8
8	8400201	1	BAR\STBLZR\CTR\REAR
9	8400202	1	MNT\STBLZR\R\H\REAR
10	8400203	1	MNT\STBLZR\L\H\REAR
11	8400378	1	Rear Stabilizer Kit 2 Drill
12	8400040		WALKWAY100_SERIES

TOW HITCH (107C ONLY)



ITEM	PART	QTY.	PART DESCRIPTION
1	8400226	1	HITCH\TOW\107
2	8400227	1	MNT\HITCH\TOW\END\FR\107
3	8400228	1	MNT\HITCH\TOW\END\REAR>
4	8400229	1	STRAP\MNT\FR\HITCH\TOW>
5	8400230	2	BRKT\MNT\HITCH\TOW\107
6	8400231	1	BOLT\TOW_HITCH\107
7	4800046	2	PIN\CLEVIS\3/4X3
8	4800050	2	PIN\COT\3/16X1-1/2
9	4800041	10	BOLT\HEX\1/2X5
10	4800082	4	BOLT\HEX\1/2X1-1/2
11	5000006	14	WASH\LOCK\1/2
12	4900001	14	NUT\HEX\1/2\NC
	8400393		HITCH\TOW\2DR\107\KIT
	8401017		HITCH\TOW\3DR\107\KIT

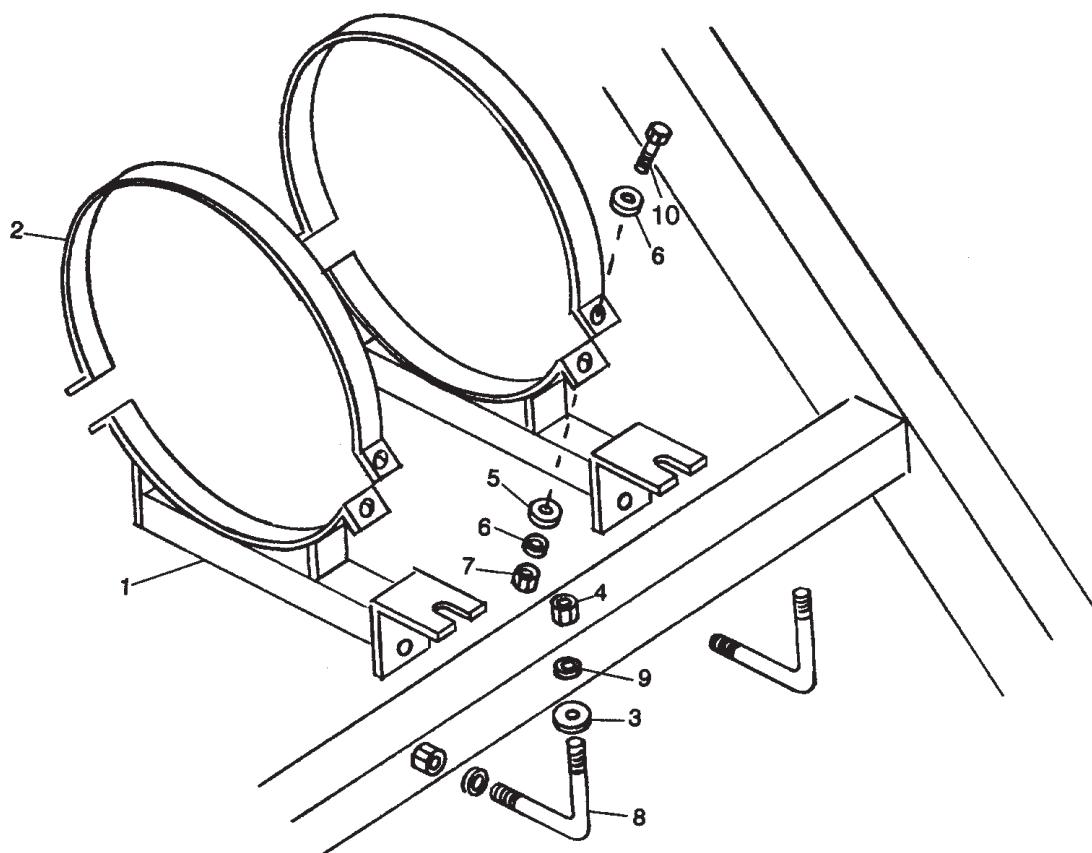
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2600625

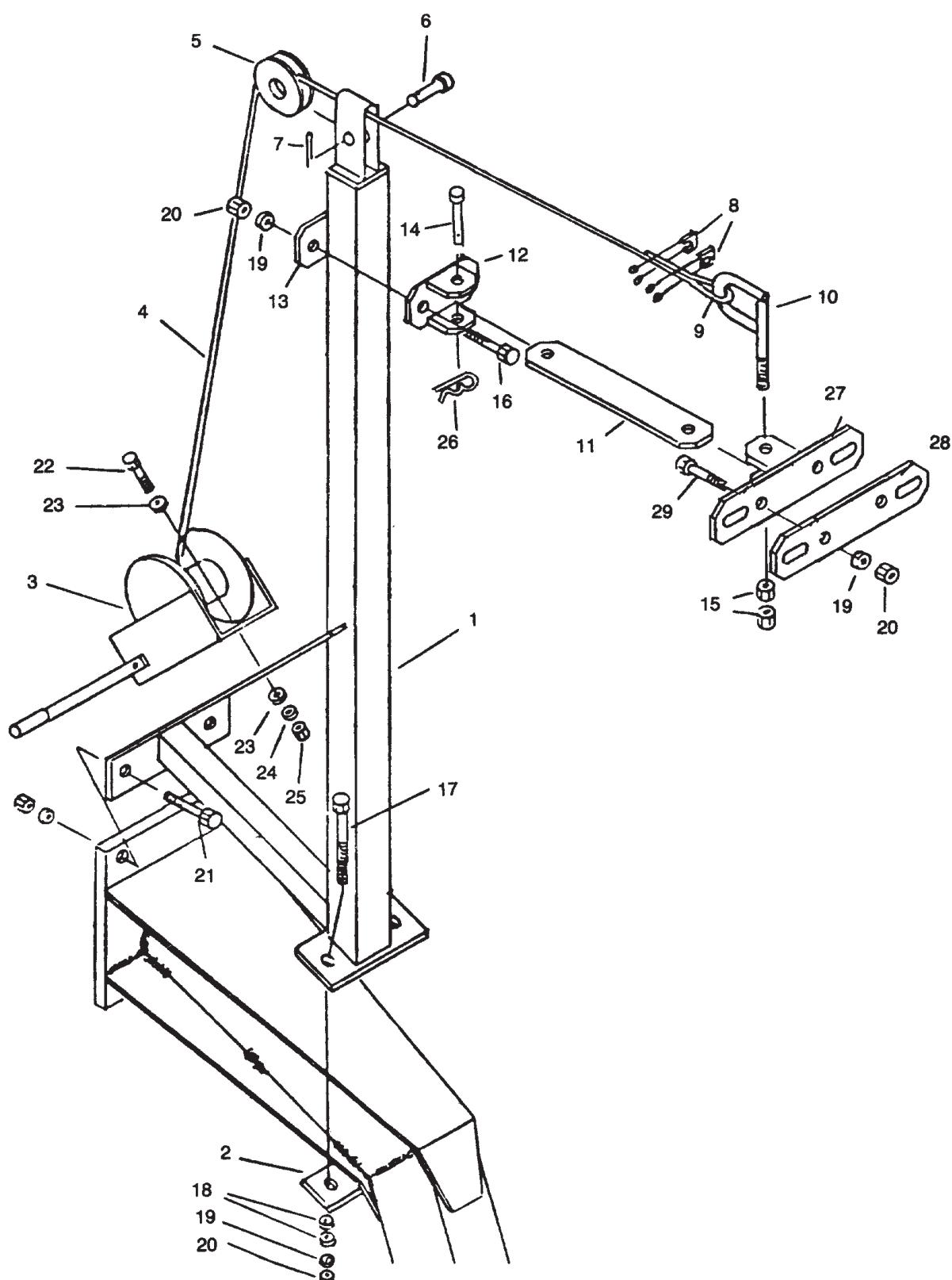
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BALLAST BRACKET (77C & 107C)

ITEM	PART	QTY.	PART DESCRIPTION
1	8400211	4	Saddle
2	8400178	4	TLE Strap
3	5000005	8	3/4" Flat Washer
4	4900004	8	3/4" Hex Nut
5	5000001	8	3/8" Flat Washer
6	5000019	8	3/8" Lock Washer
7	4900002	8	3/8" Hex Nut
8	4800183	4	3/4" L-Bolt
9	5000012	8	3/4" Lock Washer
10	4800146	8	3/8" x 2" Bolt
	8400474		Kit - 2 Barrel Mount Bracket

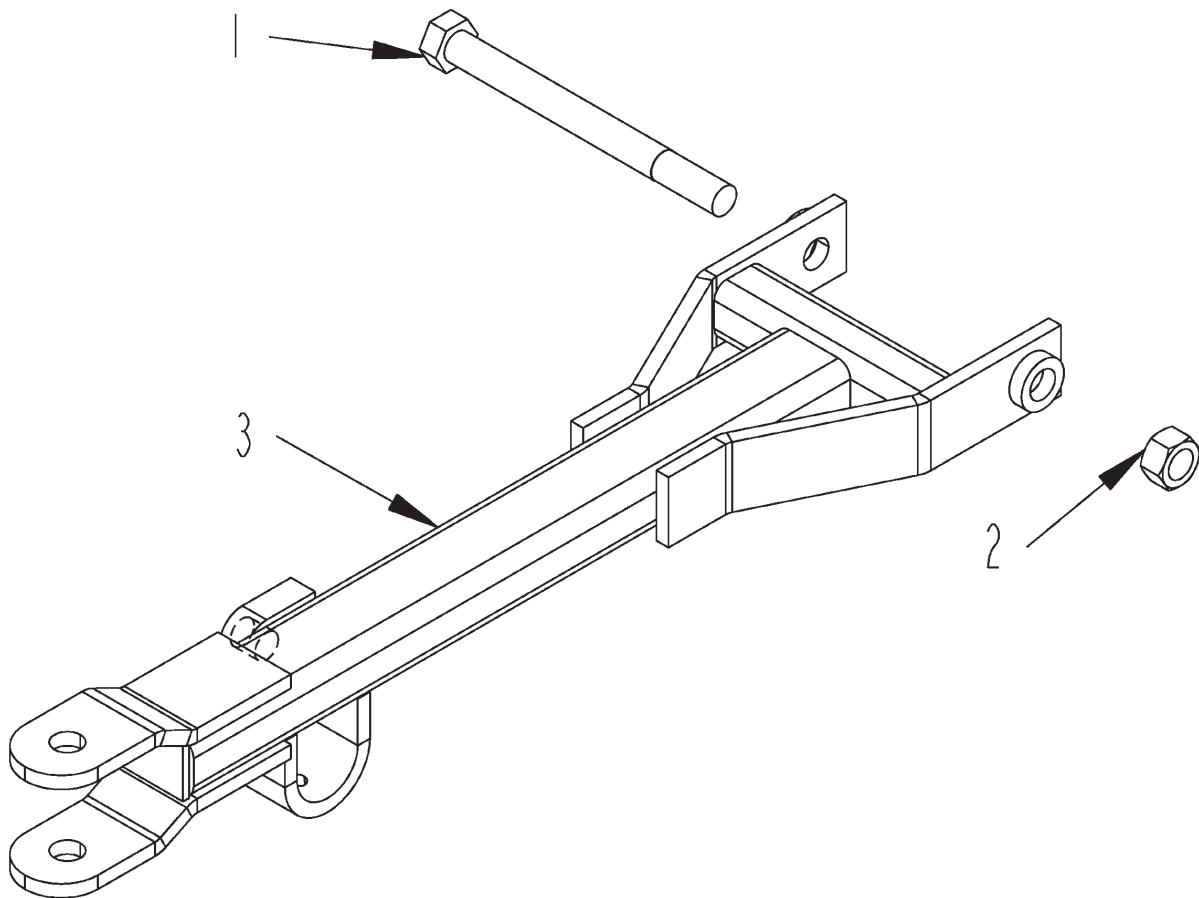


HITCH LIFT (107C ONLY)



HITCH LIFT (107C ONLY)

ITEM	PART	QTY.	PART DESCRIPTION
	8400589		Hitch Lift Kit (only for 3 or more drill hitch set-up)
1	8300293	1	Lift Frame
2	8300294	1	Lift Mount Strap 2" x 6"
3	5800004	1	Winch
4	5800311	1	1/4" Cable 12' Long
5	1400082	1	Cable Sheaves
6	4800030	1	5/8" x 2" Clevis Pin
7	4800123	1	1/8" x 1 -1/2" Cotter Pin
8	4800027	2	1/4" Cable Clamp
9	7500121		1/4" Cable Thimble
10	8300356	1	I Bolt
11	8300295	1	Hold Up Bar 2" x 11-1/2"
12	8300296	1	Hold Up Bar Mount 4-1/2" Long
13	8300297	1	Hold Up Bar Strap 4-1/2" Long x 2"
14	4800119	1	5/8" x 3-1/2" Clevis Pin
15	4900005	4	5/8" Nuts
16	4800188	2	1/2" x 4" Bolt
17	4800235	2	1/2" x 6-1/2" Bolt
18	5000004	4	1/2" Flat Washer
19	5000006	6	1/2" Lock Washer
20	4900001	6	1/2" Hex Nut
21	4800017	2	3/4" x 3" Bolt
22	4800098	3	3/8" x 1-1/4" Bolt
23	5000001	6	3/8" Flat Washer
24	5000019	3	3/8" Lock Washer
25	4900002	3	3/8" Hex Nut
26	4800107	1	1-1/8" Hair Pin
27	8300298	1	Hold Up Bar Mount
28	8300299	1	Hold Up Bar Strap
29	4800188	2	1/2" x 4" Hex Bolt
	4800141	2	1/2" x 4-1/2" Hex Bolt

DRILL SINGLE HITCH (77C & 107C)

ITEM	PART	QTY.	PART DESCRIPTION
1	4800663	1	BOLT\HEX\1X12\NC\GR8\PLTD
2	4900015	1	NUT\NYLCK\1\NC
3	8400664	1	HITCH\SINGLE

NOT SHOWN

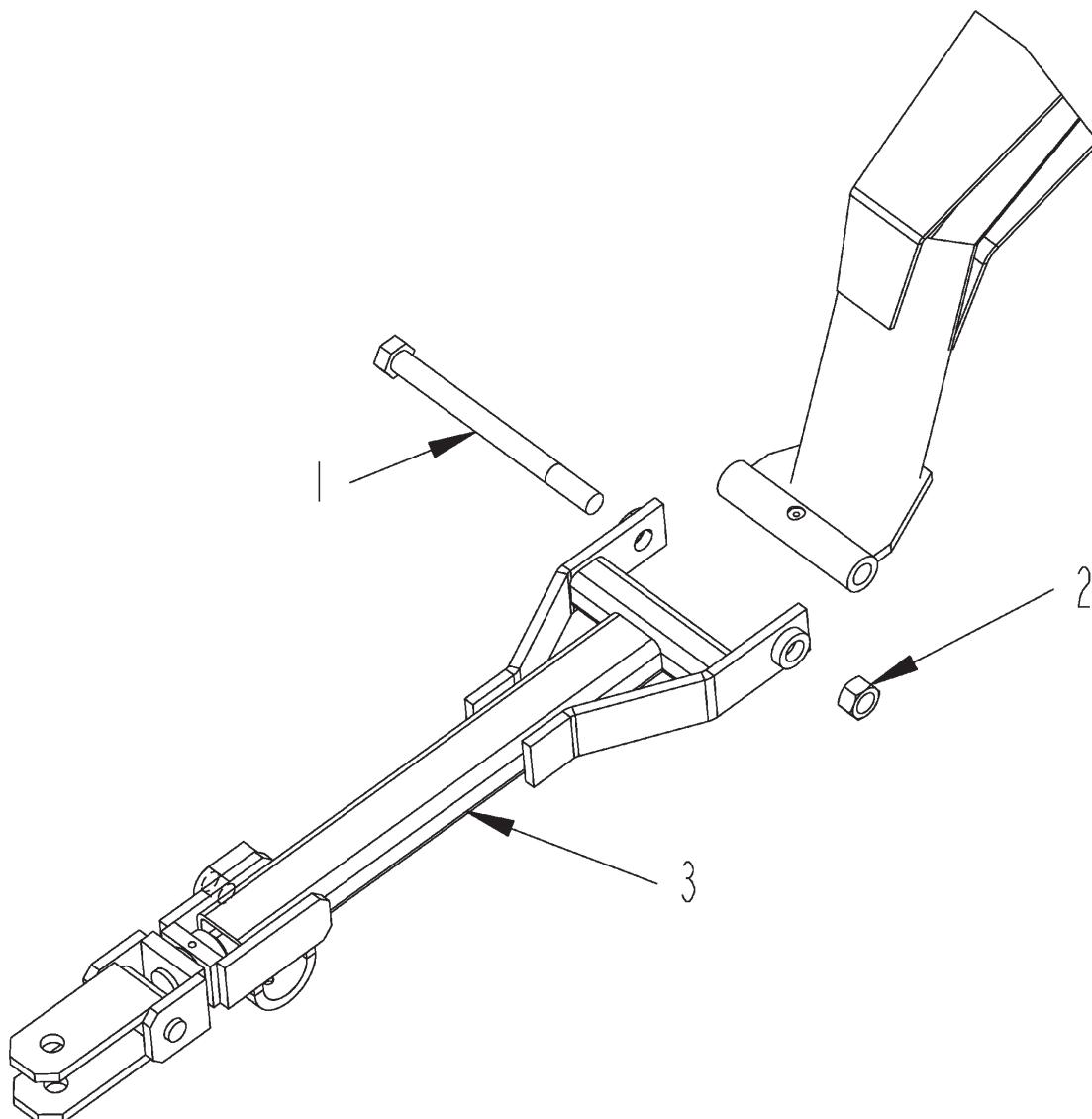
1100275 1 CHAIN\1/4\SFTY\AG\11000LB
5000116 1 WASH\FLAT\1\EXTRTHK\GR8

SWIVEL HITCH (77C & 107C)

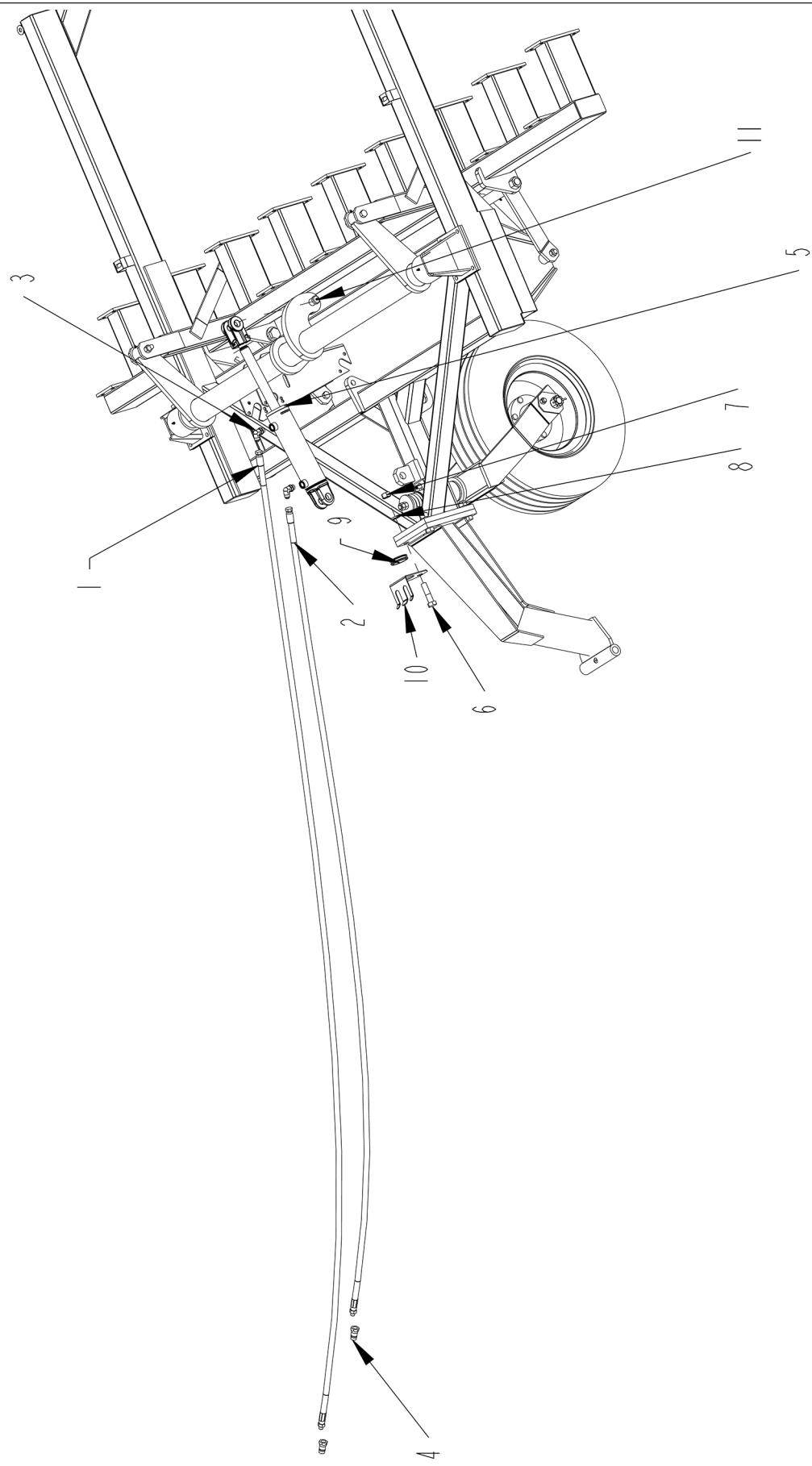
ITEM	PART	QTY.	PART DESCRIPTION
1	4800663	1	BOLT\HEX\1X12\NC\GR8\PLTD
2	4900015	1	NUT\NYLCK\1\NC
3	8400650	1	HITCH\W/SWIVEL\ SINGLE\107

NOT SHOWN

1100275	1	CHAIN\1/4\SFTY\AG\11000LB
5000116	1	WASH\FLAT\1\EXTRTHK\GR8



STANDARD SINGLE DRILL HYDRAULICS (77C & 107C)



STANDARD SINGLE DRILL HYDRAULICS (77C & 107C)

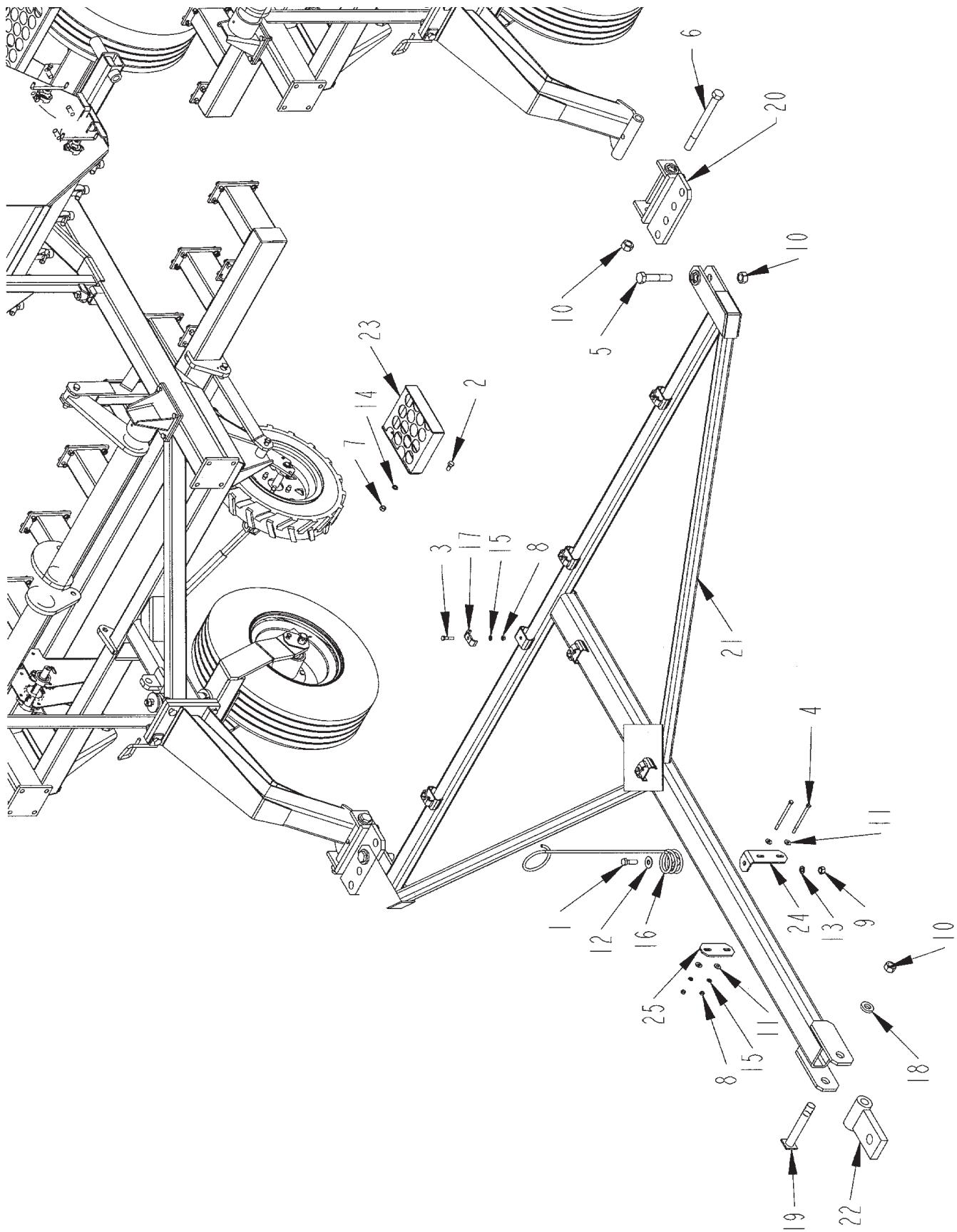
ITEM	PART	QTY.	PART DESCRIPTION
1	3701622	1	HOSE\HYD\1/2X120\3/4MORSX3/4FJIC
2	3701623	1	HOSE\HYD\1/2X108\3/4MORSX3/4FJIC
3	3800537	2	FTG\3/4MORX3/4MJIC\90
4	3800694	2	FTG\3/4FOR\QUICK;CPLR\MALE
5	4100344	1	CYL\HYD\3X8\1-3/8ROD\#8 O-RING
6	4800017	1	BOLT\HEX\3/4X3
7	4900004	4	NUT\HEX\3/4\NC
8	5000012	4	WASH\LOCK\3/4
9	7500858	1	GRMT\RBBR\2-1/4X2IDX1/4T
10	8400785	1	BRKT\HOSE\MINDER
11	8400799	1	PIN\CLEVIS\1X3\GREASE
	8400902		CYL\HYD\3X8\KIT\107DRILL>SINGLE\SAE THREAD

NOT SHOWN

7501600 1 CYL\DEPTH\STOP\KIT

NOTE: THE STROKE OF THE HYDRAULIC CYLINDER IS 20-1/4" TO 28-1/4"
FROM CYLINDER PIN TO CYLINDER PIN.

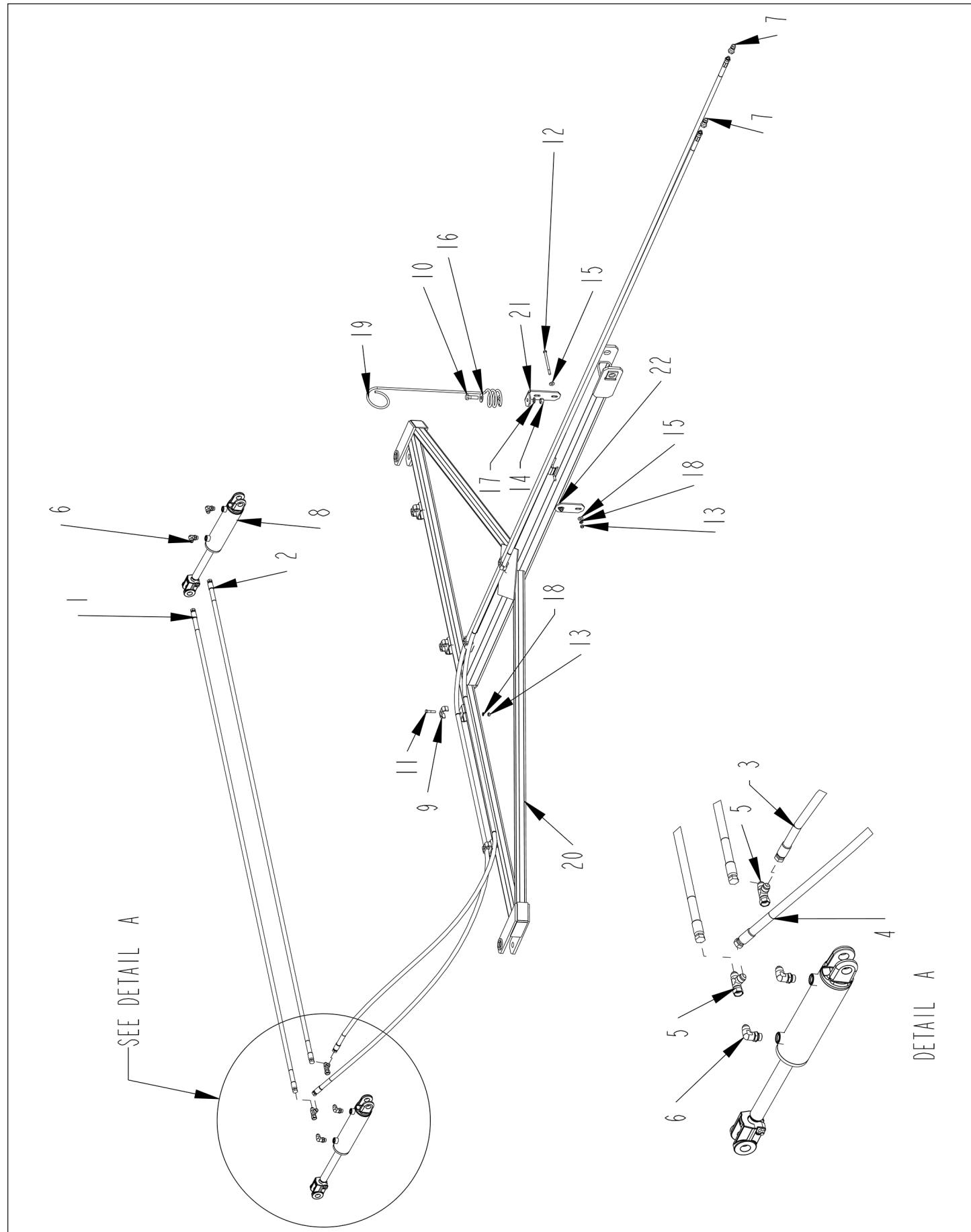
2-DRILL HITCH (107C ONLY)



2-DRILL HITCH (107C ONLY)

ITEM	PART	QTY.	PART DESCRIPTION
1	4800010	1	BOLT\HEX\5/8X2
2	4800085	8	BOLT\HEX\1/2X1
3	4800125	10	BOLT\HEX\3/8X1-3/4
4	4800226	2	BOLT\HEX\3/8X5-1/2
5	4800546	2	BOLT\HEX\1X5NC
6	4800626	2	BOLT\HEX\1X11\NC
7	4900001	8	NUT\HEX\1/2\NC
8	4900002	12	NUT\HEX\3/8\NC
9	4900005	1	NUT\HEX\5/8\NC
10	4900015	5	NUT\NYLCK\1\NC
11	5000001	4	WASH\FLAT\3/8
12	5000002	1	WASH\FLAT\5/8
13	5000003	1	WASH\LOCK\5/8
14	5000006	8	WASH\LOCK\1/2
15	5000019	12	WASH\LOCK\3/8
16	7500170	1	HOSE MINDER
17	4700777	10	CLMP\HOSE\1/2
18	8300341	1	WASH\2X1.028X3/8
19	8300498	1	PIN\HITCH
20	8400034	2	HITCH\BLK
21	8400193	1	HITCH\2\DRILL\107
22	8400196	1	BLK\HITCH
	OR		
	8400667	1	BLK\HITCH\CLEVIS
23	8400666	4	STEP\XTNSN\WLKY
24	8800095	1	MNT\MINDER\HOSE\DRILL
25	8800096	1	STRAP\MINDER\HOSE\DRILL
	8400394	1	2 DRILL HITCH KIT (INCLUDES REAR STABILIZER KIT)

2-DRILL HITCH HYDRAULICS (107C ONLY)

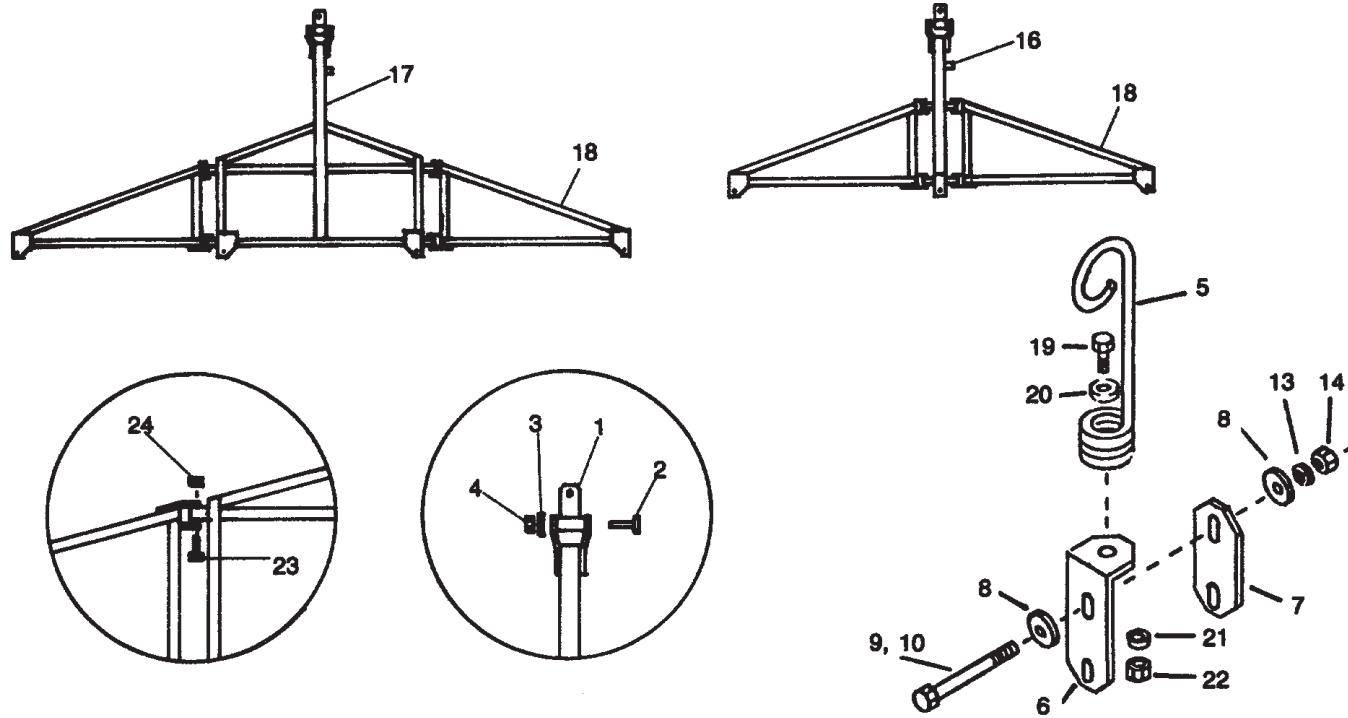


2-DRILL HITCH HYDRAULICS (107C ONLY)

ITEM	PART	QTY.	PART DESCRIPTION
1	3701624	1	HOSE\HYD\1/2X132\3/4FJICX3/4FJIC
2	3701624	1	HOSE\HYD\1/2X132\3/4FJICX3/4FJIC
3	3700815	1	HOSE\HYD\1/2X236\3/4MORSX3/4FJIC
4	3701626	1	HOSE\HYD\1/2X240\3/4MORSX3/4FJIC
5	3800484	2	FTG\3/4FJICSX3/4MJICX3/4MJIC\RUN;TEE
6	3800537	4	FTG\3/4MORX3/4MJIC\90
7	3800694	2	FTG\3/4FOR\QUICK;CPLR\MALE
8	4100344	2	CYL\HYD\3X8\1-3/8ROD\#8 O-RING
9	4700777	6	CLMP\HOSE\1/2
10	4800010	1	BOLT\HEX\5/8X2
11	4800142	6	BOLT\HEX\3/8X1-3/4
12	4800226	2	BOLT\HEX\3/8X5-1/2
13	4900002	8	NUT\HEX\3/8\NC
14	4900005	1	NUT\HEX\5/8\NC
15	5000001	4	WASH\FLAT\3/8
16	5000002	1	WASH\FLAT\5/8
17	5000003	1	WASH\LOCK\5/8
18	5000019	8	WASH\LOCK\3/8
19	7500170	1	HOSE MINDER
20	8400193	1	HITCH\2\DRILL\107
21	8800095	1	MNT\MINDER\HOSE\DRILL
22	8800096	1	STRAP\MINDER\HOSE\DRILL
	8400903		CYL\HYD\3X8\KIT\107DRILL\2-DRILL SAE THREAD

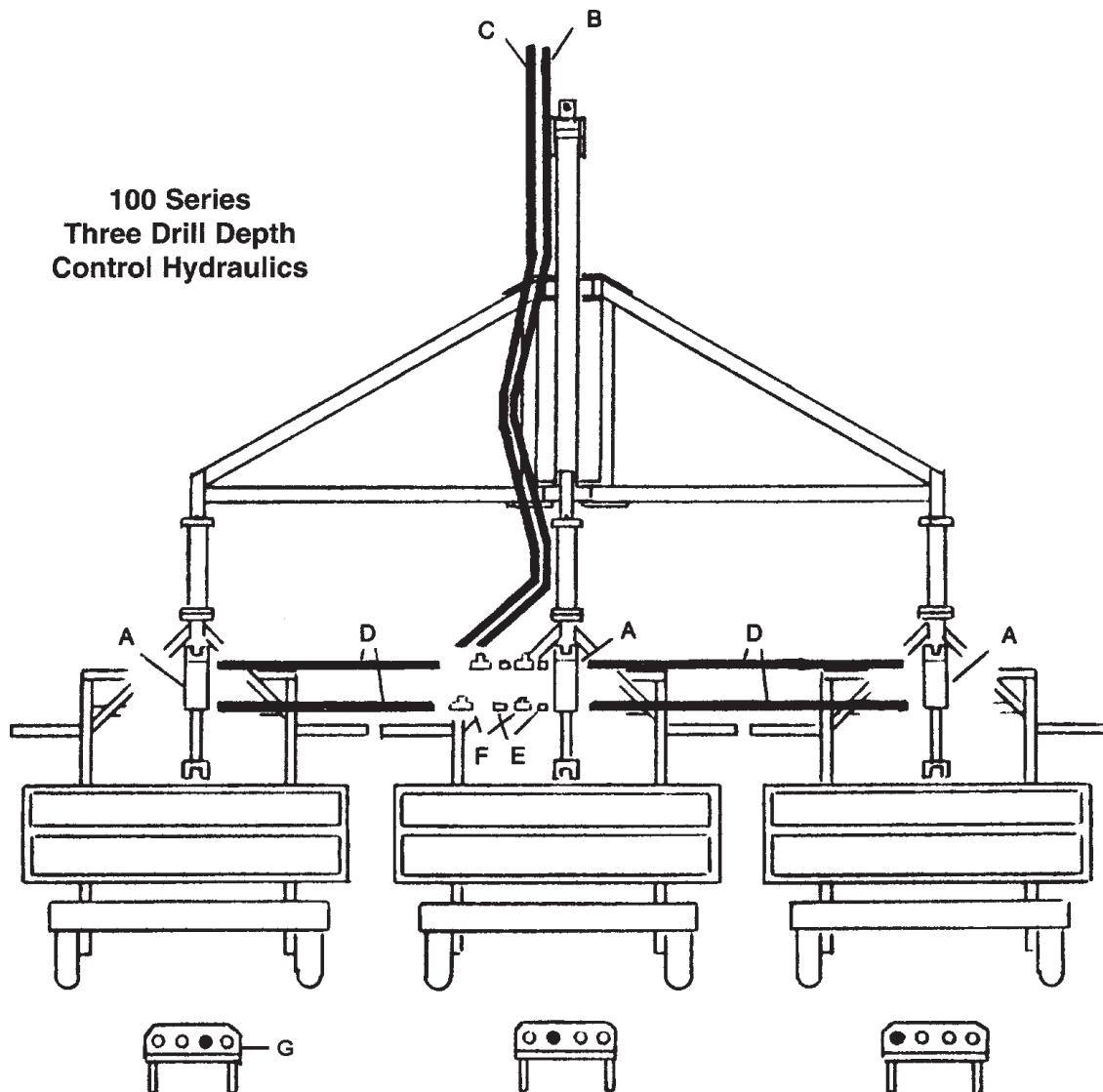
NOTE: THE STROKE OF THE HYDRAULIC CYLINDER IS 20-1/4" TO 28-1/4"
FROM CYLINDER PIN TO CYLINDER PIN.

3-4 DRILL HITCH (107C ONLY)



ITEM	PART	QTY.	PART DESCRIPTION
1	8400196	1	Hitch Block
2	8300498	1	Hitch Block Pin
3	8300341	1	2" O.D. x 1.028 I.D. 3/8" Thick Washer
4	4900015	1	1" Nylon Insert Nut
5	7500170	2	Hose Minder
6	8800095	2	Hose Minder Mount
7	8800096	2	Hose Minder Strap
8	5000001	4	3/8" Flat Washer
9	4800226	2	3/8" x 5-1/2" Bolt
10	4800089	2	3/8" x 4" Bolt
11	4700777	4	CLMP\HOSE\1/2
12	4800142	4	3/8" x 1-3/4" Bolt
13	5000019	8	3/8" Lock Washer
14	4900002	8	3/8" Nut
15	5800601	1	Jack 2 SM-10
16	8400194	1	3" Drill Center Pole
17	8400197	1	4" Drill Center Pole
18	8400195	2	Small Wings
19	4800010	2	5/8" x 2" Bolt
20	5000002	2	5/8" Flat Washer
21	5000003	2	5/8" Lock Washer
22	4900005	2	5/8" Nut
23	4800187	4	1" x 6" Bolt
24	4900015	4	1" Nylon Insert Nut
25	8300497	1 Per Drill	1" x 6" Hitch Pin
26	4800103	1 Per Drill	1/4" x 2" Cotter Pin

NOTE: THE STROKE OF THE HYDRAULIC CYLINDER IS 20-1/4" - 28-1/4" FROM CYLINDER PIN TO CYLINDER PIN.

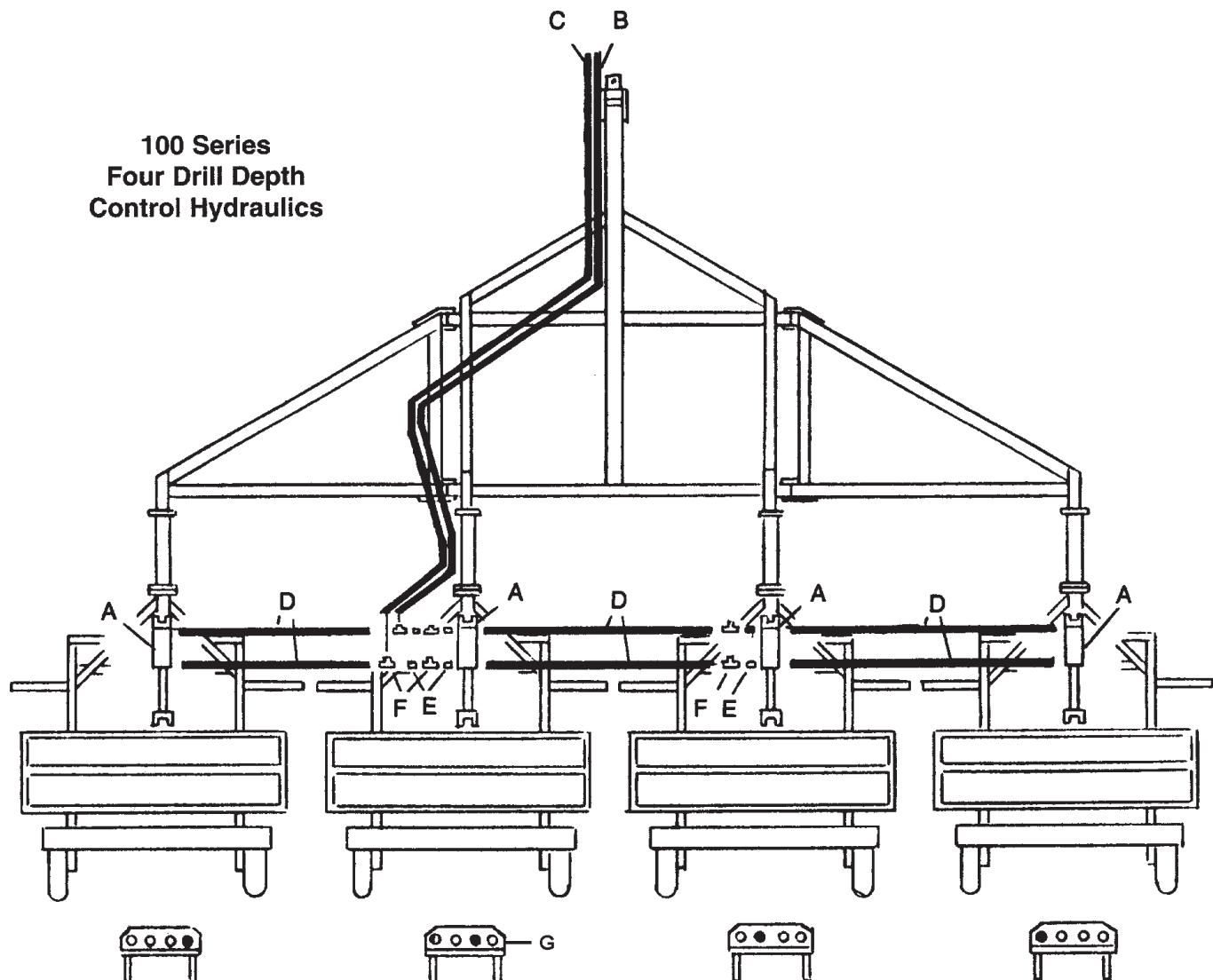


ITEM	PART	QTY.	PART DESCRIPTION
A	4100344	3	CYL\HYD\3X8\1-3/8ROD\#8 O-RING
B	3701629	1	HOSE\HYD\1/2X192\3/4MORSX3/4FJIC
C	3701625	1	HOSE\HYD\1/2X216\3/4MORSX3/4FJIC
D	3701624	4	HOSE\HYD\1/2X132\3/4FJICX3/4FJIC
E	3800484	4	FTG\3/4FJICSX3/4MJICX3/4MJIC\RUN;TEE
F	3800588	4	FTG\3/4MJICX3/4MJICX3/4MOR\BR;TEE
G	8400034	3	HITCH\BLOCK\107
	8400904		CYL\HYD\3X8\KIT\107DRILL\3-DRILL SAE THREAD

ITEM	PART	QTY.	PART DESCRIPTION
A	4100344	4	CYL\HYD\3X8\1-3/8ROD\#8 O-RING
B	3701630	1	HOSE\HYD\1/2X252\3/4MORSX3/4FJIC
C	3701631	1	HOSE\HYD\1/2X276\3/4MORSX3/4FJIC
D	3701624	6	HOSE\HYD\1/2X132\3/4FJICX3/4FJIC
E	3800484	6	FTG\3/4FJICSX3/4MJICX3/4MJIC\RUN;TEE
F	3800588	6	FTG\3/4MJICX3/4MJICX3/4MOR\BR;TEE
G	8400034	4	HITCH\BLOCK\107

8400905

CYL\HYD\3X8\KIT\107DRILL\4-DRILL SAE THREAD



NOTE: THE STROKE OF THE HYDRAULIC CYLINDER IS 20-1/4" - 28-1/4" FROM CYLINDER PIN TO CYLINDER PIN.



DECALS

ITEM	PART	QTY.	PART DESCRIPTION
1	6500016	1	DECAL\INFO\CAL;SCALE;GRAIN
2	6500022	1	DECAL\INFO\CHART;SEED\>
3	6500039	1	DECAL\INFO\S/N\NDURATECH
4	6500040	1	DECAL\WARN\SHIELD\PROT
5	6500041	1	DECAL\WARN\PROTECTION
6	6500060	2	DECAL\WARN\AVOID;SHRP;TRN
7	6500061	1	DECAL\INFO\SEED;DEPTH\>
8	6500062	1	DECAL\INFO\IMPORTANT;STRG
9	6500063	1	DECAL\INFO\CHART\FEED;WHL
10	6500064	1	DECAL\INFO\ENGAGE;LOCKS
11	6500081	1	DECAL\INFO\CAL.SCALE\GRASS
12	6500101	1	DECAL\WARN\NO RIDERS
13	6500163	1	DECAL\WARN\DISC;BLADES
14	6500182	1	DECAL\WARN\AG;CHEMICAL
15	6500220	1	DECAL\WARN\HI;PRESS;FLUID
16	6500434	2	DECAL\2X9\RED\REFCT
17	6500435	2	DECAL\2X9\AMBER\REFCT
18	6500463	2	DECAL\LOGO\HYBSTR\107C\3\STRIP
18A	6500467	2	DECAL\LOGO\HYBSTR\77C\3\STRIP
21	6500548	1	DECAL\NOTICE\TANKS\CLEAN
	6500462		DECAL\KIT\107C
	6500466		DECAL\KIT\77C

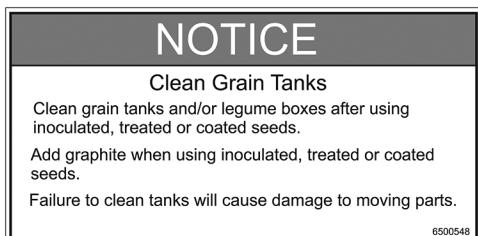
LEGUME BOX DECALS

19	6500083	1	DECAL\INFO\CHART\LGMI7" SPCG
20	6500473	1	DECAL\LOGO\107C1-3/4\BLK
20A	6500475	1	DECAL\LOGO\77C\LEGUME
21	6500548	1	DECAL\NOTICE\TANKS\CLEAN
	6500474		DECAL\KIT\LEGUME BOX\107C
	6500476		DECAL\KIT\LEGUME BOX\77C

7500077	12 Oz Yellow Spray Paint
7500092	Quart Yellow Paint
7500091	Gallon Yellow Paint
7500078	12 Oz Red Spray Paint
7500105	Quart Red Paint
7500104	Gallon Red Paint

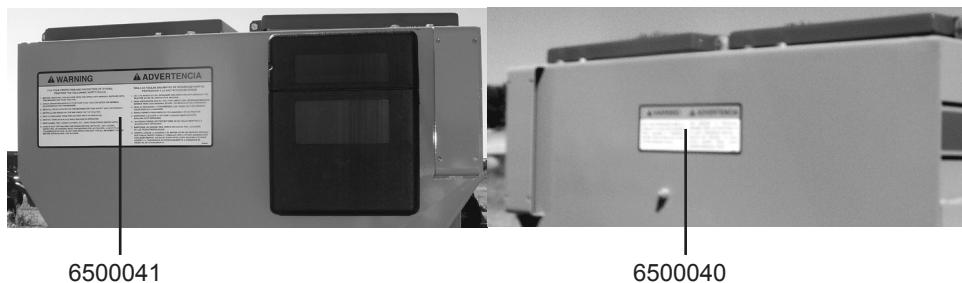
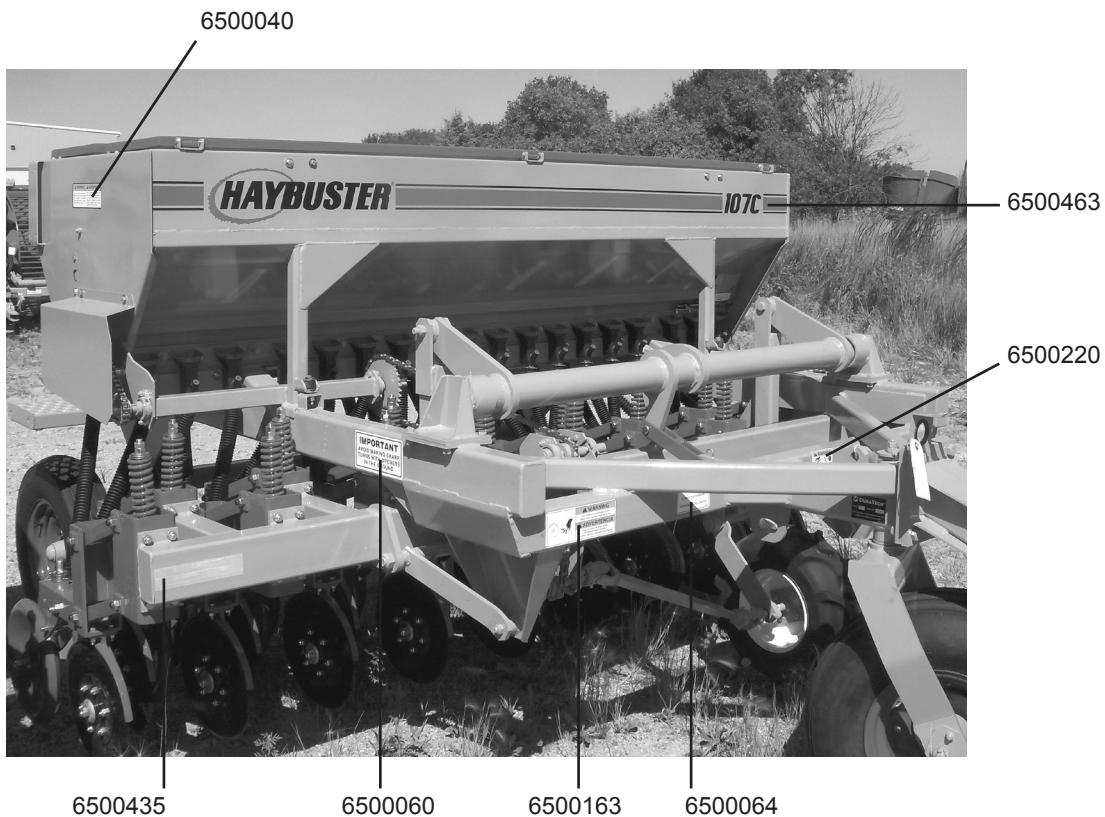


13



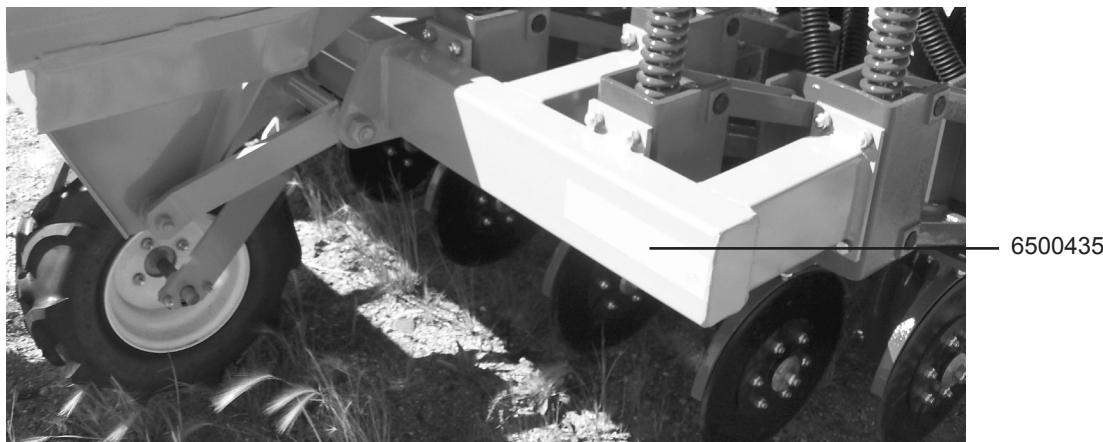
21

DECAL LOCATIONS



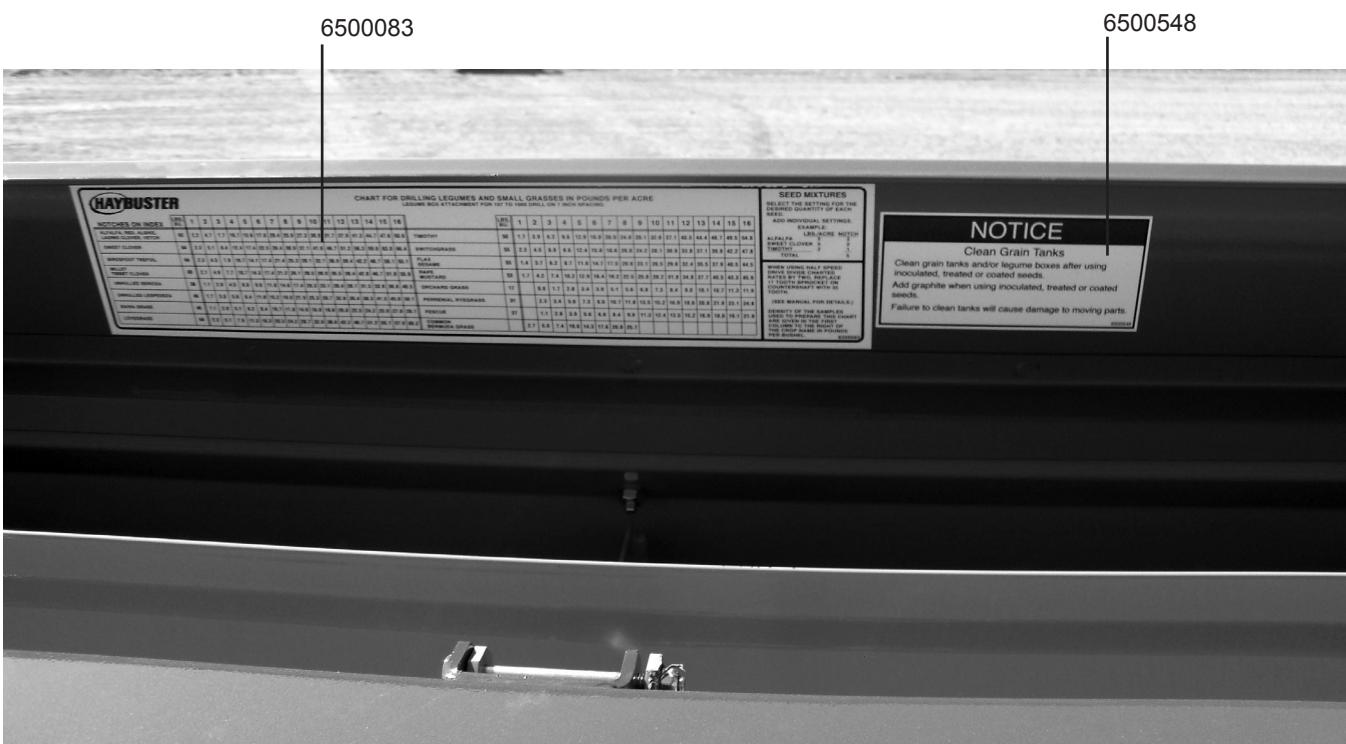
DECAL LOCATION (See pages 98-99 for descriptions)

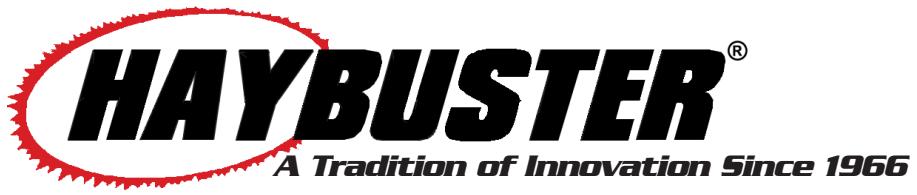
DECAL LOCATIONS

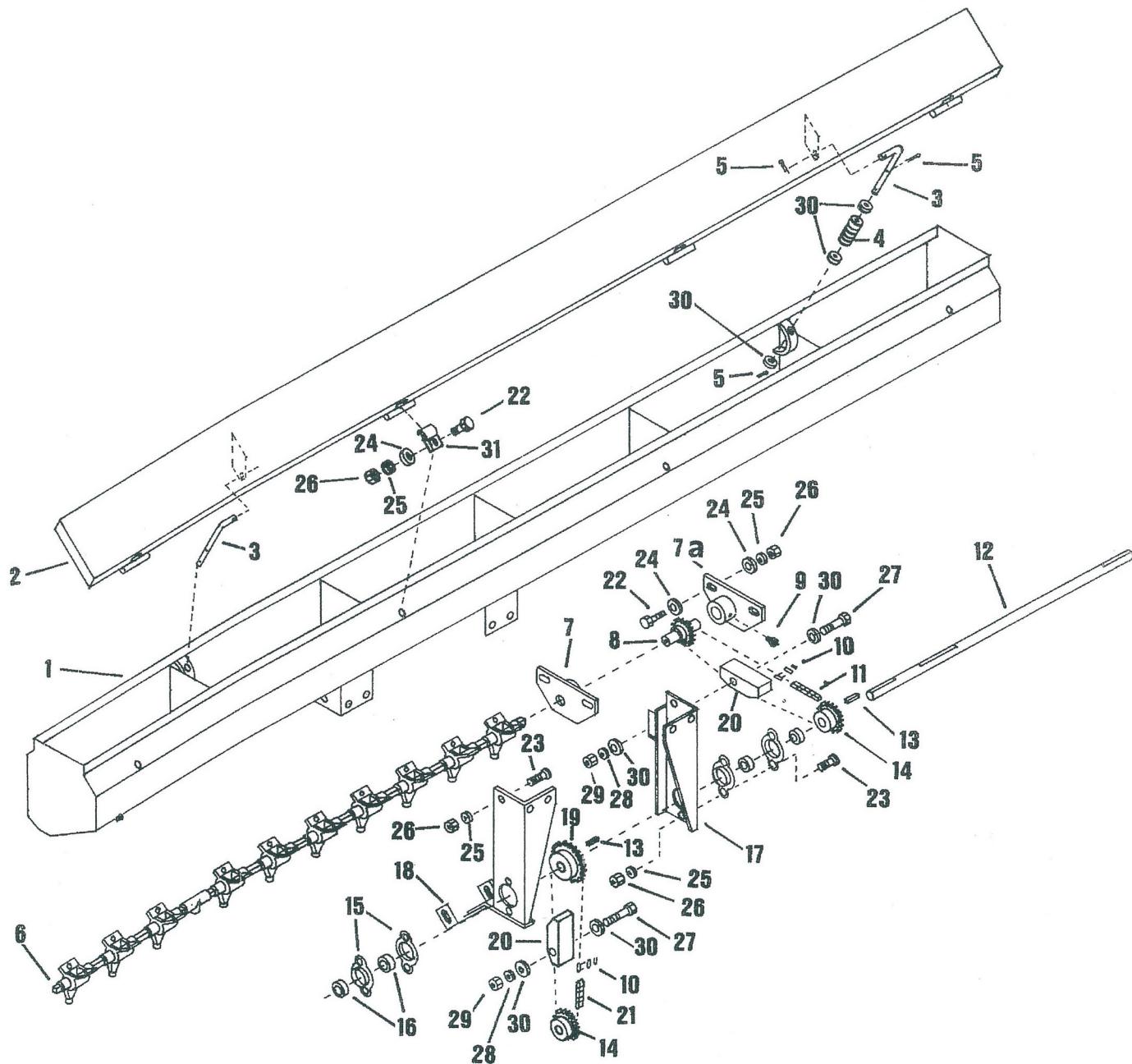


DECAL LOCATION (See pages 98-99 for descriptions)

PECAL LOCATIONS

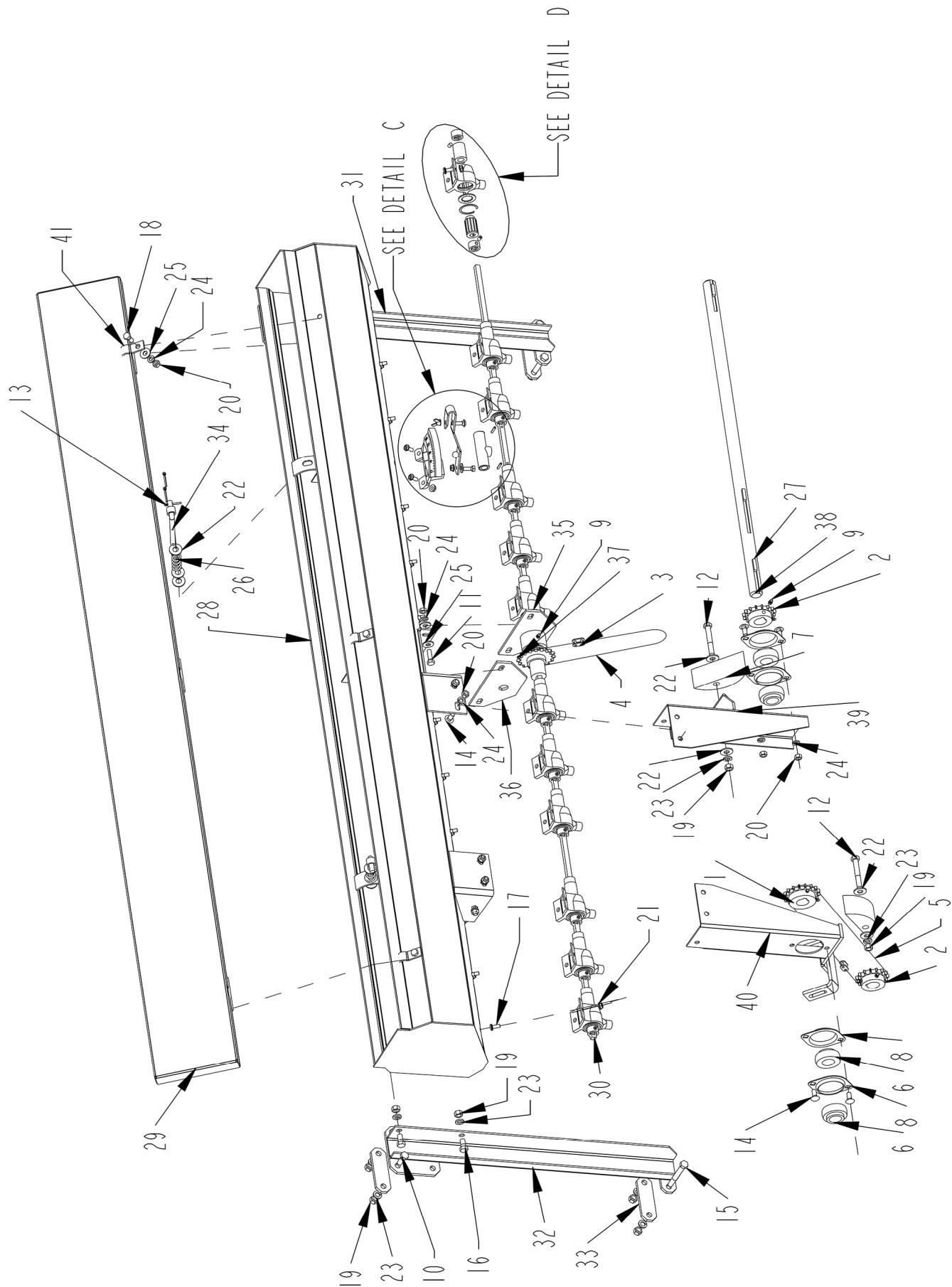






107C LEGUME BOX OPTION

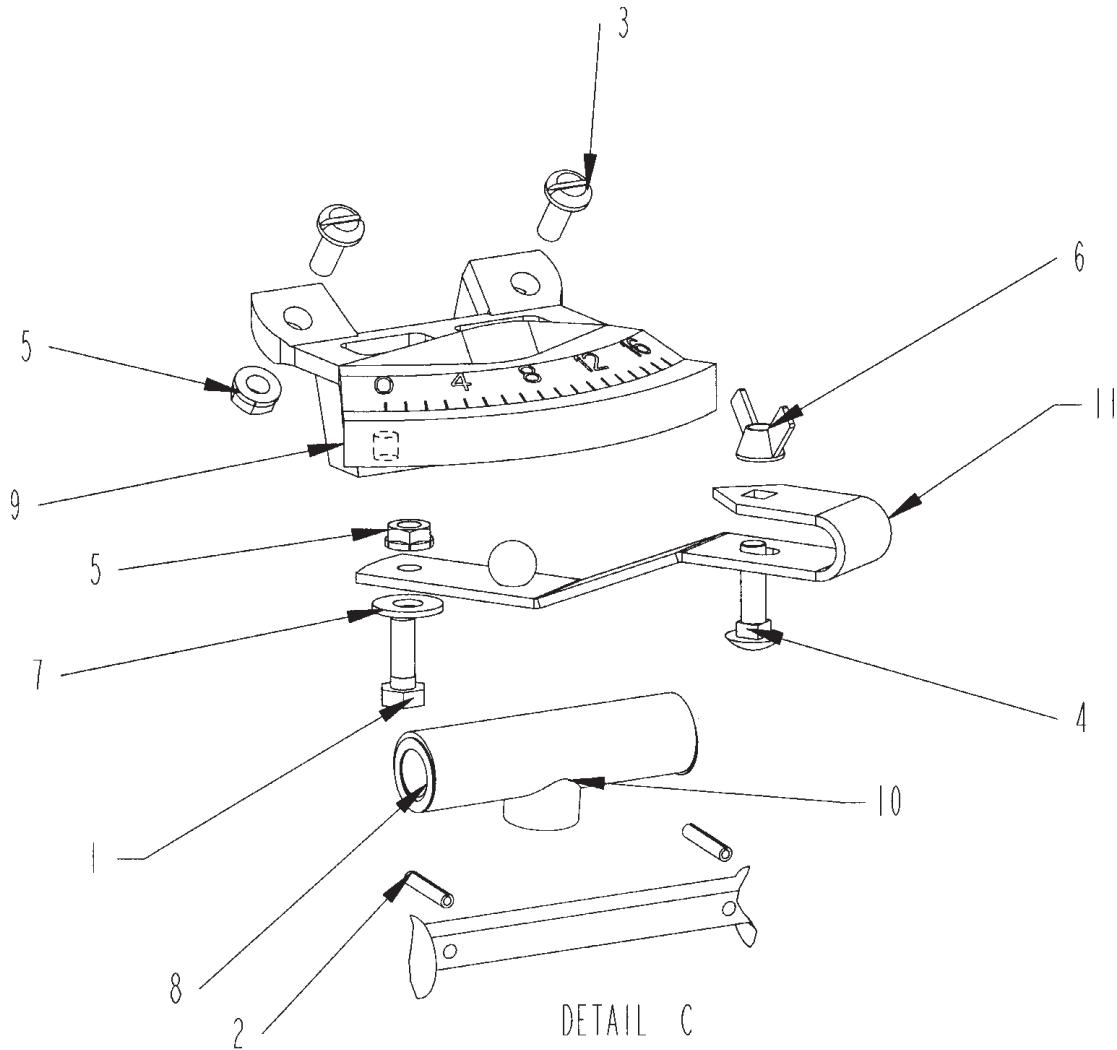
ITEM	PART	QTY.	PART DESCRIPTION
1	8700004	1	BOX\LEGUME\107WELDMNT
2	8700005	1	CVR\BOX\LEGUME\107
3	8700006	2	ROD\SPG\COV\BOX\147
4	6100046	2	SPG\COMP\618OD\800WD\2-5/8L
5	4800127	6	PIN\COT\1/8X1
6	8700007	2	SHFT\3/8SQX50-3/4\LGUM;BX
7	8700008	1	BRG\BOX\LEGUME\RH\147
7A	8700009	1	BRG\BOX\LEGUME\LH\147
8	8700010	1	SPKT\17T\LGM.BOX
9	3800082	2	FTG\LUB\1/4NFXZRK\ADPT
10	1100224	2	CHAIN\40NP\CL
11	1100232	1	CHAIN\40NP\53
12	8700011	1	SHFT\1X29\LEGUMEBOX
13	6200010	4	KEY\SQ\1/4X1
14	1000112	2	SPKT\B\40\15\1\1/4KW
15	2000703	4	FLGETT\1\2BOLT\PLTD
16	2000002	2	BRG\1" W/LOCK\COLLAR
17	8700012	1	BRKT\LEGUME\LH\SHFT-BOX
18	8700013	1	BRKT\LEGUME\RH\SHFT-BOX
19	1000111	1	SPKT\B\40\17\1\1/4KW\SOFT
19a	1000110	1	SPKT\B\40\35\1\1/4KW
20	2000016	2	BLK\WD\IDLER
21	1100233	1	CHAIN\40NP\77
22	4800013	8	BOLT\HEX\5/16X1
23	4800153	10	BOLT\CRG\5/16X3/4\NC
24	5000023	12	WASH\FLAT\5/16
25	5000022	18	WASH\LOCK\5/16
26	4900003	18	NUT\HEX\5/16\NC
27	4800029	2	BOLT\HEX\3/8X2-1/2
28	5000019	2	WASH\LOCK\3/8
29	4900002	2	NUT\HEX\3/8\NC
30	5000001	10	WASH\FLAT\3/8
31	8700014	4	HINGE\LEGUMEBOX
32	8400771	2	CUP\SEED\CNTR\FRNT\ASM
33	8400770	2	CUP\SEED\END\FRNT\ASM



77C LEGUME BOX OPTION

ITEM	PART	QTY.	PART DESCRIPTION
1	1000111	1	SPKT\40\B\17\1\1/4KW\SOFT
2	1000112	2	SPKT\40\B\15\1\1/4KW
3	1100224	2	40NP PITCH CONNECTOR LINK
4	1100232	1	53 LINKS 40NP PITCH CHAIN
5	1100233	1	77 LINKS 40NP PITCH CHAIN
6	2000002	4	1" BEARING W/ LOCK COLLAR
7	2000016	2	BLK\WOOD\IDLER
8	2000703	4	2 HOLE FLANGETTE
9	3800082	8	FTG\LUB\1/4NFXZERK\ADAPT
10	4800003	4	BOLT\HEX\3/8X1
11	4800013	4	BOLT\HEX\5/16X1
12	4800029	2	BOLT\HEX\3/8X2-1/2
13	4800127	6	PIN\COT\1/8X1
14	4800153	10	BOLT\CRG\5/16X3/4\NC
15	4800156	4	BOLT\HEX\3/8X3
16	4800164	4	BOLT\HEX\3/8X3/4
17	4800213	26	SCR\PAN\SLOT\1/4X5/8\NC
18	4800643	3	BOLT\HEX\5/16X3/4
19	4900002	14	NUT\HEX\3/8\NC
20	4900003	18	NUT\HEX\5/16\NC
21	4900040	27	NUT\FLG\SERR\1/4\NC
22	5000001	10	WASH\FLAT\3/8
23	5000019	14	WASH\LOCK\3/8
24	5000022	18	WASH\LOCK\5/16
25	5000023	12	WASH\FLAT\5/16
26	6100002	2	SPRING\COMP\0.072W\11/16OD\2-1/8LONG
27	6200010	3	KEY\SQ\1/4X1
28	8400721	1	BOX\LEGUME
29	8400722	1	CVR\BOX\LEGUME
30	8400723	1	SHFT\3/8SQX71-1/2\LGUM;BX
31	8700001	1	BRKT\LEGUME\RH\LEG-BOX
32	8700002	1	BRKT\LEGUME\RHH\LEG-BOX
33	8700003	4	BRKT\LEGUME\RH\LEG-BOX
34	8700006	2	ROD\SPG\COV\BOX
35	8700008	1	BRG\BOX\LEGUME\RHH
36	8700009	1	BRG\BOX\LEGUME\RH
37	8700010	1	SPRKT\17T\LEG.BOX
38	8700011	1	SHFT\1X29\LEGUMEBOX
39	8700012	1	BRKT\LEGUME\RH\SHFT-BOX
40	8700013	1	BRKT\LEGUME\RHH\SHFT-BOX
41	8700014	3	HINGE\LEGUMEBOX

SEED INDEX ASSEMBLY LEGUME BOX (DETAIL C)



ITEM	PART	QTY.	PART DESCRIPTION
1	4800024	1	BOLT\HEX\1/4X3/4
2	4800212	2	PIN\RLLD\5/32X3/4
3	4800213	2	SCR\PAN,SLOT\1/4X5/8\NC
4	4800214	1	BOLT\CRG\1/4X1\NC
5	4900040	2	NUT\FLG\SERR\1/4\NC
6	4900041	1	NUT\WING\1/4\NC
7	5000035	1	WASH\FLAT\1/4
8	5000118	2	WASH\FLAT\SPCL\14MM\5MM\20MMOD
9	7500183	1	METER\SEED\INDEX
10	7500184	1	SHIFTER\SEED\INDEX\ASSY
11	7500185	1	ARM\SEED\INDEX\ASSY

NOT SHOWN

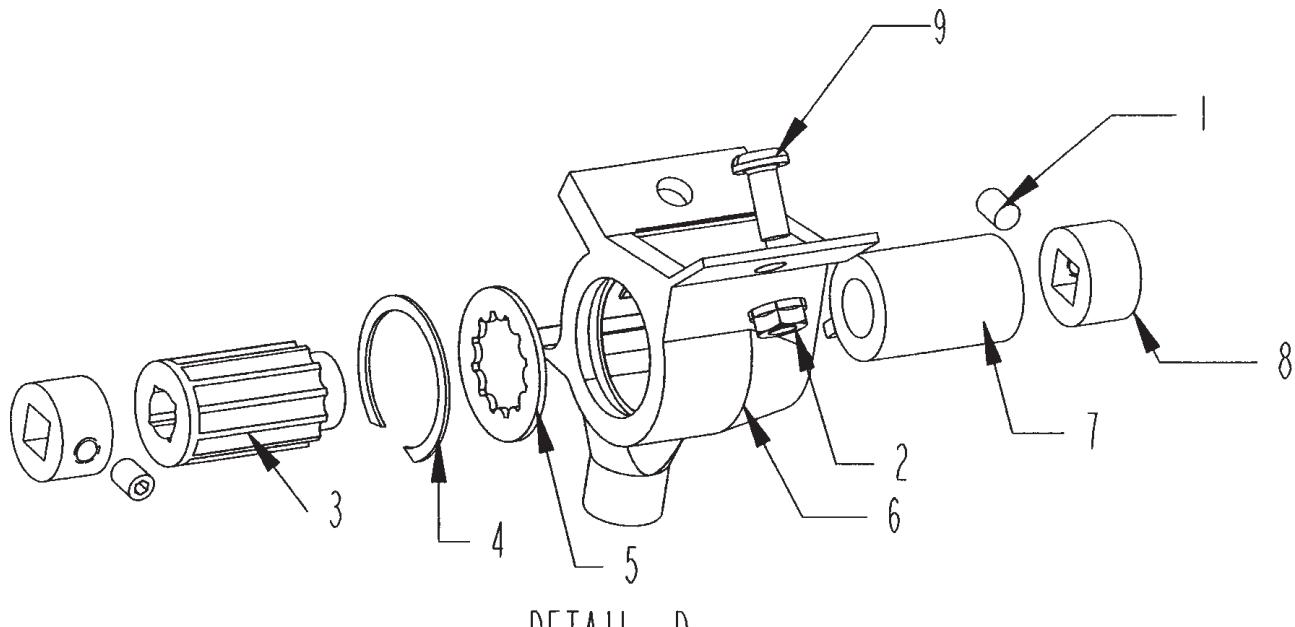
6500016 DECAL\INFO\CAL;SCALE;GRAIN
 6500017 DECAL\INFO\CAL.SCALE;FERT
 6500081 DECAL\INFO\CAL.SCALE\GRASS

CUP ASSEMBLY LEGUME BOX (DETAIL D)

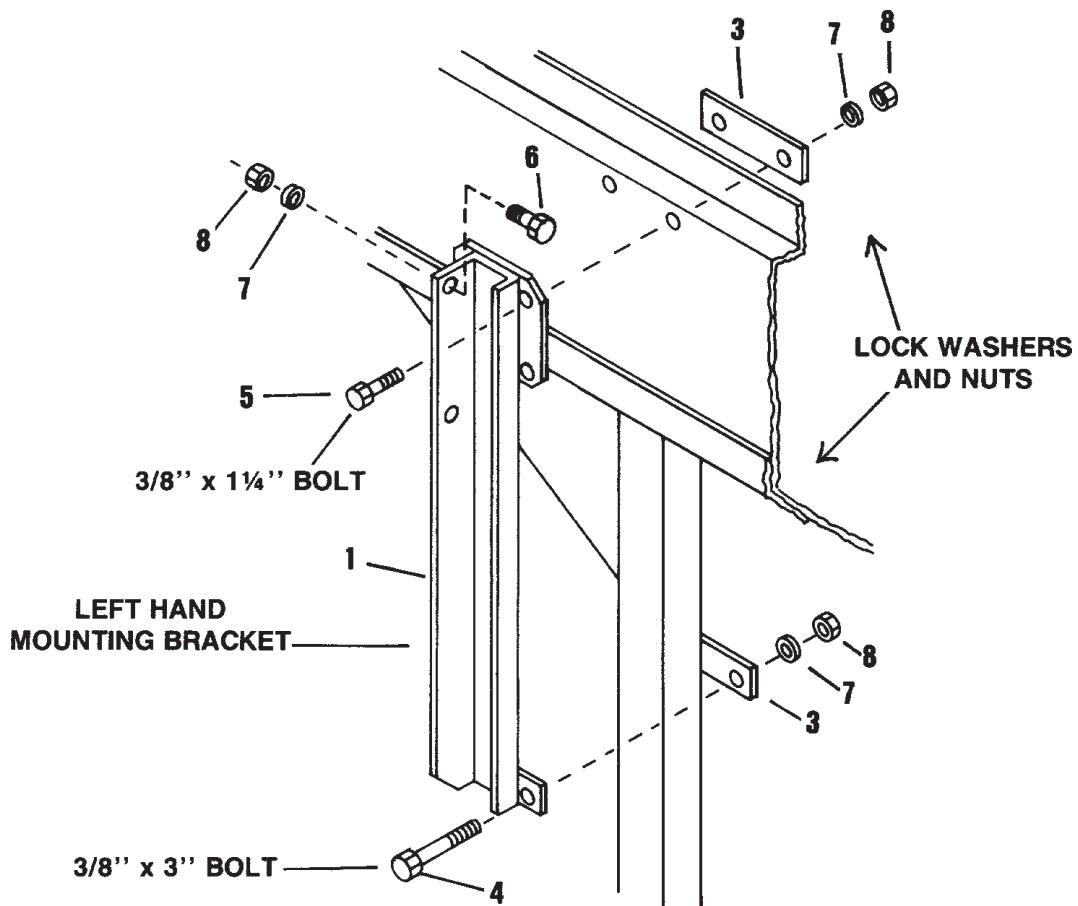
ITEM	PART	77C QTY.	107C QTY	PART DESCRIPTION
1	4800211	24	36	SCR\SET\ALN\1/4X5/16\NC
2	4900040	24	36	NUT\FLG\SERR\1/4\NC
3	7500177	12	18	ROLL\CUP\ASSY\LEGUME BOX
4	7500178	12	18	SNAP RING
5	7500179	12	18	FEED ROLLER WASHER
6	7500180	12	18	FEED CUP ASSEMBLY
7	7500181	12	18	GATE\CUP\ASSY\LEGUME BOX
8	7500182	24	36	CLLR\7/8OD\3/8SQ
9	4800213	24	36	SCR\PAN\SLOT\1/4X5/8\NC

NOT SHOWN

3700129 12 18 HOSE\PVC\5/8IDX22-1/2\CLR

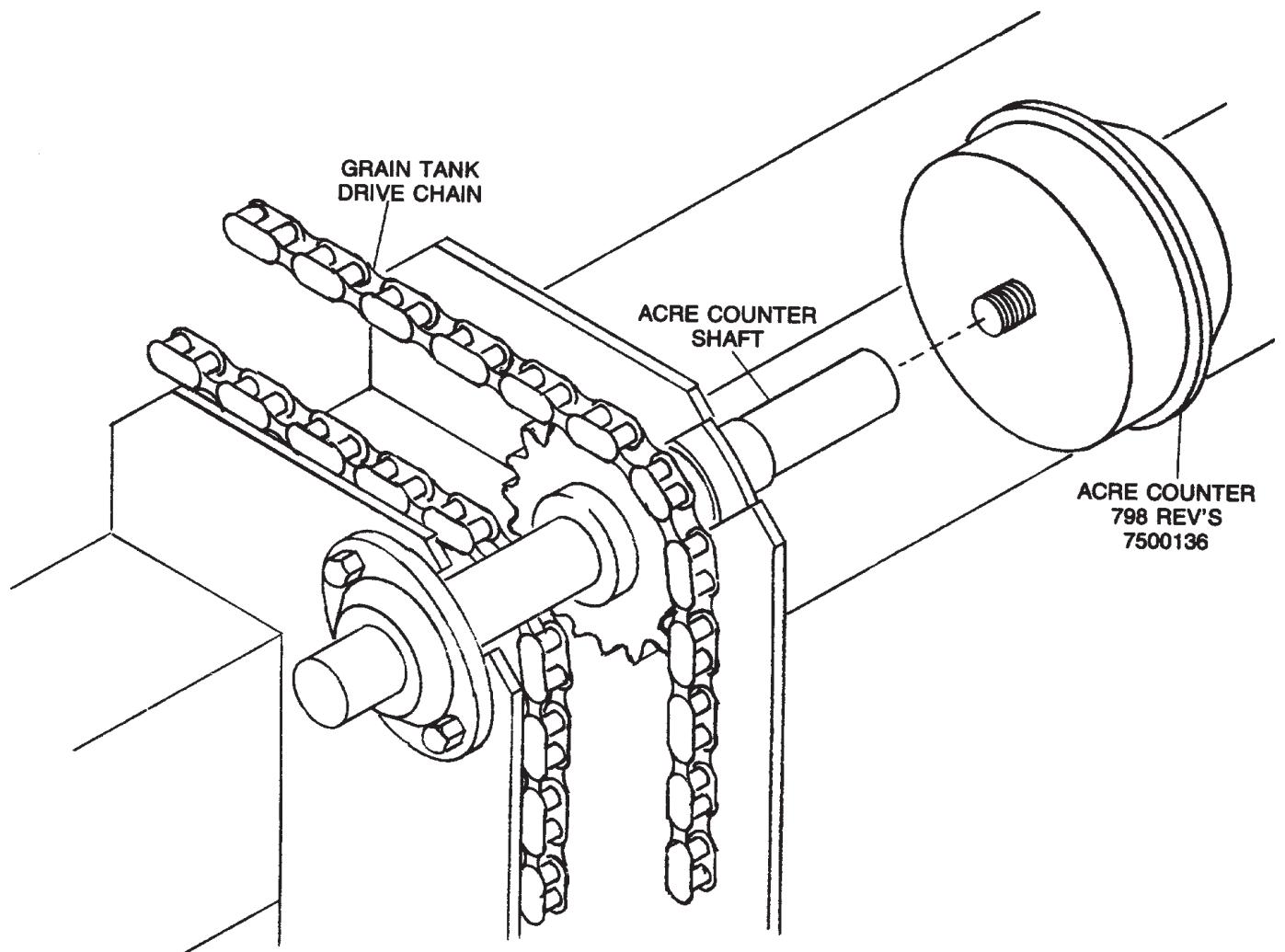


LEGUME BOX MOUNTING BRACKET (77C & 107C)



ITEM	PART	QTY.	PART DESCRIPTION
1	8700001	1	Mounting Bracket Left Hand
2	8700002	1	Mounting Bracket Right Hand (Not Shown)
3	8700003	4	Strap
4	4800156	4	3/8" x 3" Hex Head Bolt
5	4800098	4	3/8" x 1-1/4" Hex Head Bolt
6	4800003	4	3/8" x 1" Hex Head Bolt
7	5000019	12	3/8" Lock Washer
8	4900002	12	3/8" Hex Nut

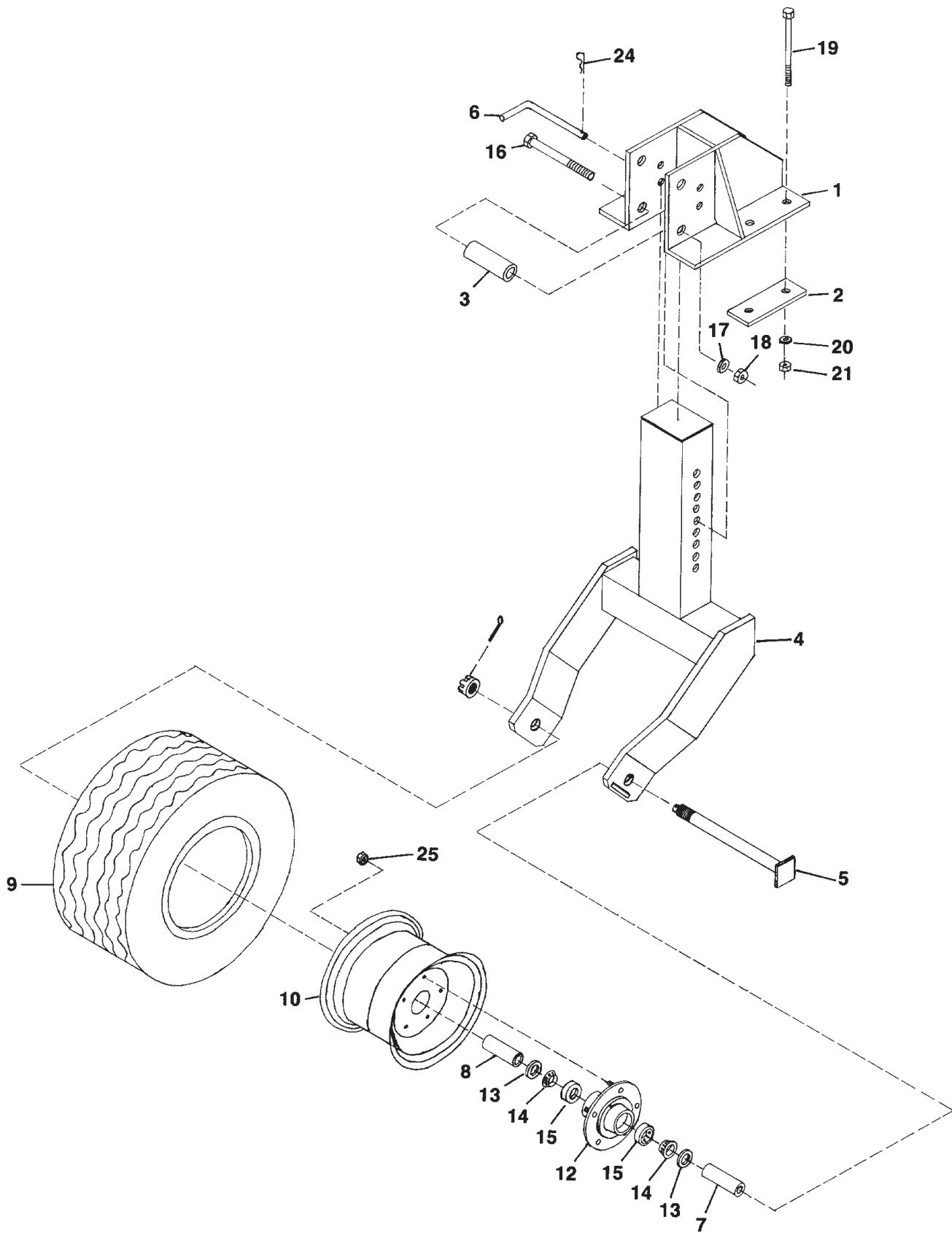
ACRE COUNTER (OPTION) (77C & 107C)



Installation:

1. Turn acre counter into threaded hole in end of acre counter shaft (see illustration).

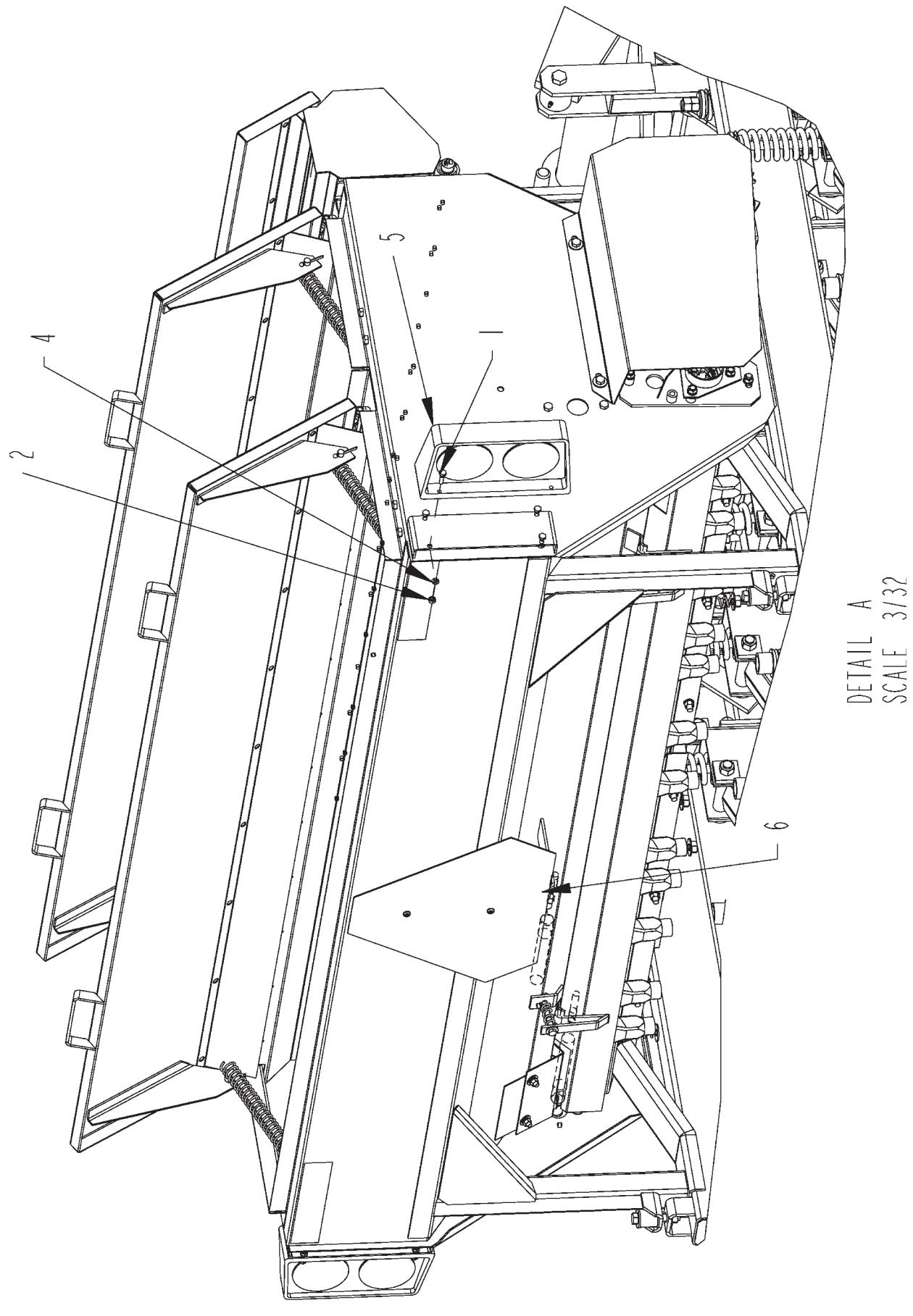
GAUGE WHEELS OPTION (107C ONLY)



GAUGE WHEELS OPTION (107C ONLY)

ITEM	PART	QTY.	PART DESCRIPTION
1	8400332	2	Gauge Wheel Mount Frame
2	8400333	4	Gauge Wheel Mount Strap
3	8400334	4	Bolt Sleeve
4	8400335	2	Wheel Folk
5	8400336	2	Spindle
6	8400337	2	Adjustment Handle
7	8400338	2	Short Spacer
8	8400339	2	Long Spacer
9 & 10	2600813		Tire & Rim Assembly
9	2600026	2	Tire 20.5 x 8.0 x 10
10	2600631	2	Wheel 10" - 5 Bolt
11	2900107	2	Hub (Complete Assembly) CMPT 5 Bolt
12	2900108	2	Hub CMPT 5 Bolt
13	2900031	4	Seal/Wheel Hub (R407)
14	2900032	4	Cone/Wheel Hub (44643)
15	2900033	4	Cup/Wheel Hub (44610)
16	4800248	4	3/4" x 6" Hex Bolt
17	5000012	4	3/4" Lock Washer
18	4900004	4	3/4" Nut
19	4800144	8	5/8" x 6-1/2" Hex Bolt
20	5000003	8	5/8" Lock Washer
21	4900005	8	5/8" Nut
22	4800157	2	3/16" x 2" Cotter Pin
23	4900055	2	1" Castle Nut
24	4800107	2	1/8" Hair Pin
25	2500710	10	1/2" - 2 60° Cone Wheel Nut
26	8400348		Gauge Wheel Kit Complete

DRILL LIGHT KIT & SMV (77C & 107C)

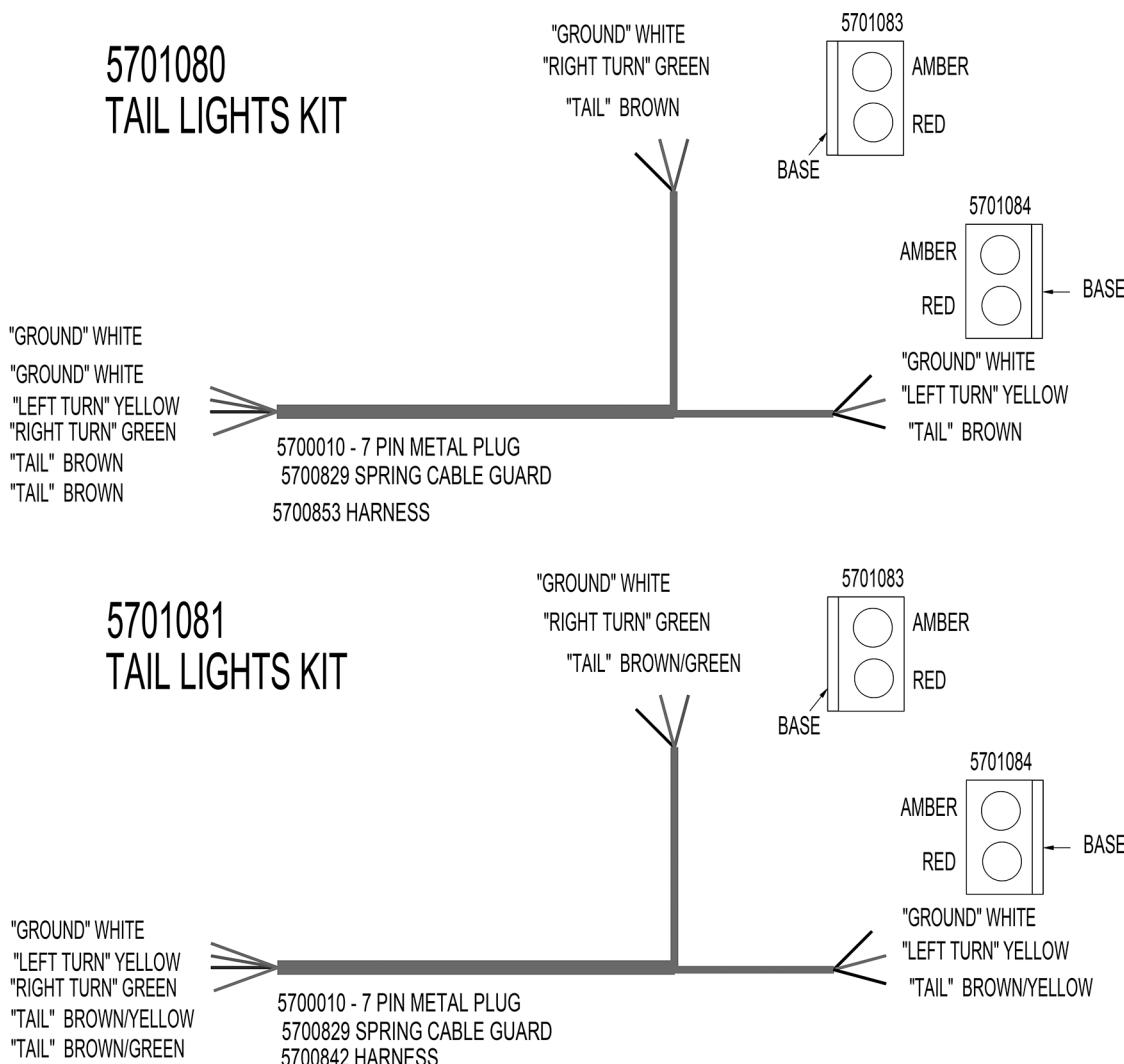


DRILL LIGHT KIT & SMV (77C & 107C)

ITEM	PART	QTY.	PART DESCRIPTION
1	4800277	8	BOLT\HEX\1/4X1
1a	4801321		BOLT\FLG\SERR\#10X1\NC\PLT
2	4900009	8	NUT\HEX\1/4\NC
2a	4900190		NUT\FLG\SERR\#10\NC
4	5000024	8	WASH\LOCK\1/4
5	5700852	2	KIT\LIGHT\2-LIGHTS\107\77
5a	5701080	2	KIT\LIGHT\2-3PIN;LEDS\107\77
6	7501353	1	SIGN\SMV\PLSTC-BCKNG

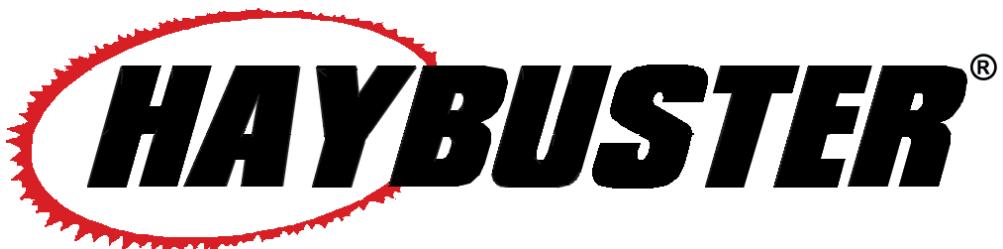
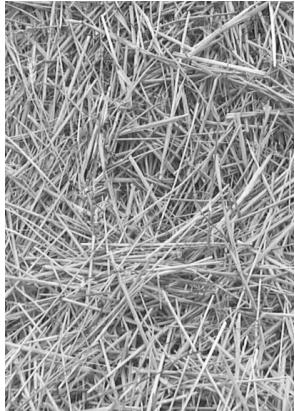
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7500590 ENCL\OPS\8-1/2X11X1-5/8\>



NOTE - 5701081 HAS A GENERIC HARNESS, 5700842, MUST BE TRIMMED TO FIT
 NOTE - 5701080 HAS HARNESS 5700853 WHICH IS BUILT FOR THE DRILLS



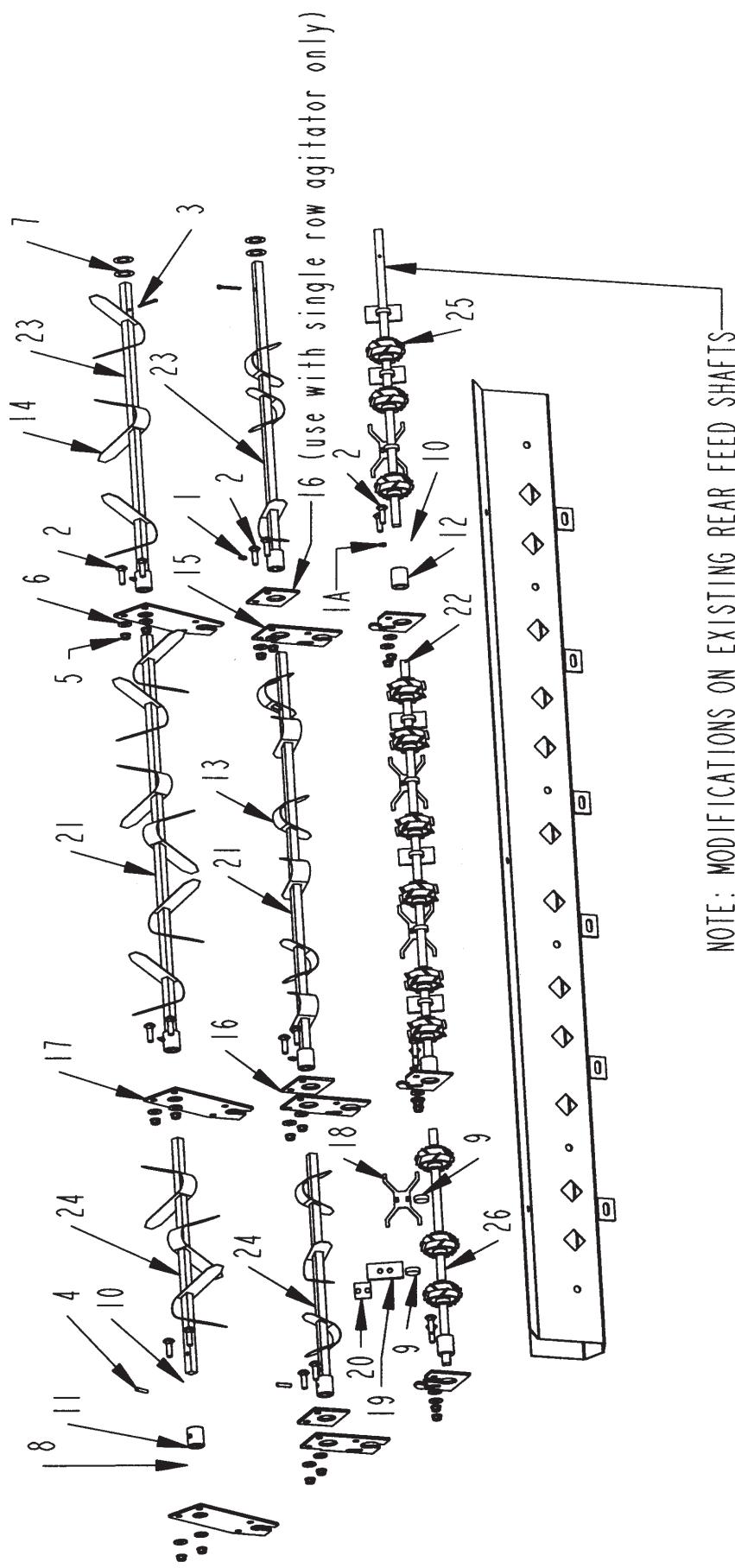


77C/107C DRILLS

107C DRILL - S.N. 101100017C & UP

77C DRILL - S.N. 77110001C & UP

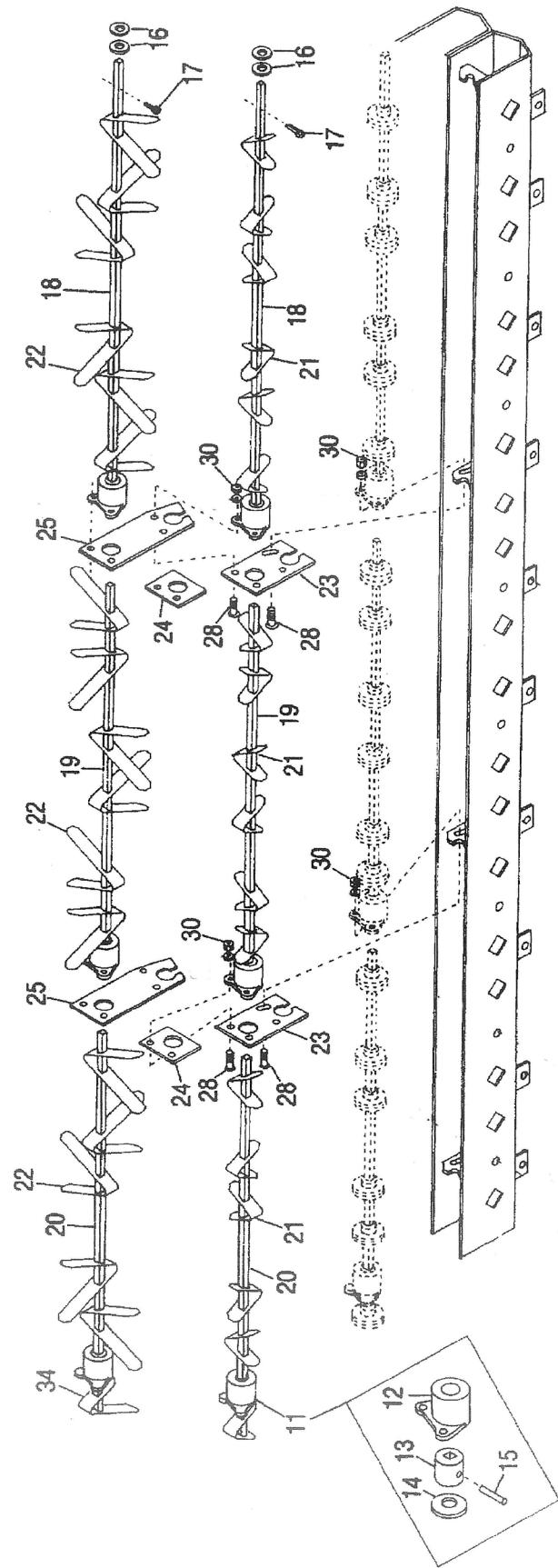
NATIVE GRASS KIT Parts Reference & Installation Instructions



77C NATIVE GRASS KIT OPTION - ADDITIONAL AGITATOR SHAFTS

ITEM	PART	QUANTITY	QUANTITY	DESCRIPTION
		SINGLE AGITATOR	DUAL AGITATOR	
1	3800082	2	4	FTG\LUB\1/4NFXZERK\ADAPT
1A	3800098	3	3	FTG\LUB\1/4MPXZRK\45D
2	4800012	12	18	BOLT\CRG\3/8X1-1/4\NC
3	4800044	1	2	PIN\COT\5/32X1-1/2
4	4800169	1	2	PIN\RLLD\1/4X1-1/8
5	4900076	12	18	NUT\FLG\SERR\3/8\NC
6	5000001	12	18	WASH\FLAT\3/8
7	5000027	2	4	WASH\7/8DX1-1/2OD\20GA SHIM
8	5000055	3	6	WASH\SPINDLE\7/8
9	7500107	11	11	CLMP\HOSE
10	7500108	3	6	HSG\CAST\BUSH\TANK\DRILL
11	7500109	1	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
12	7500562	2	4	SLV\SQ_HL\5/8X1-7/16\W/5/16_PLAIN
13	8400256	12	12	SMALL AGITATOR PADDLE 7" SPACING
14	8400257	0	12	LARGE AGITATOR PADDLE 7" SPACING
15	8400259	2	2	BRKT\MNT\GRASS TUBE
16	8400260	3	0	BEARING SPACER PLATE
17	8400261	0	2	BRKT\MNT\GRASS TUBE
18	8400267	4	4	FNGR\AGTTR\DRILL
19	8400396	6	6	RUBBER PADDLE
20	8400397	6	6	PADDLE, REINFORCE PLATE
21	8400423	1	2	SHFT\TANK\33-1/16\DRILL
22	8400659	EXISTING SHAFT		WHL\FEED\33-1/16\REAR\CTR
23	8400708	1	2	SHFT\TANK\23-15/16\DRILL
24	8400710	1	2	SHFT\TANK\19"\DRILL
25	8400711	EXISTING SHAFT		WHL\FEED\23-15/16\REAR\RH
26	8400713	EXISTING SHAFT		WHL\FEED\19\REAR\LH

107C NATIVE GRASS KIT - ADDITIONAL AGITATOR SHAFTS



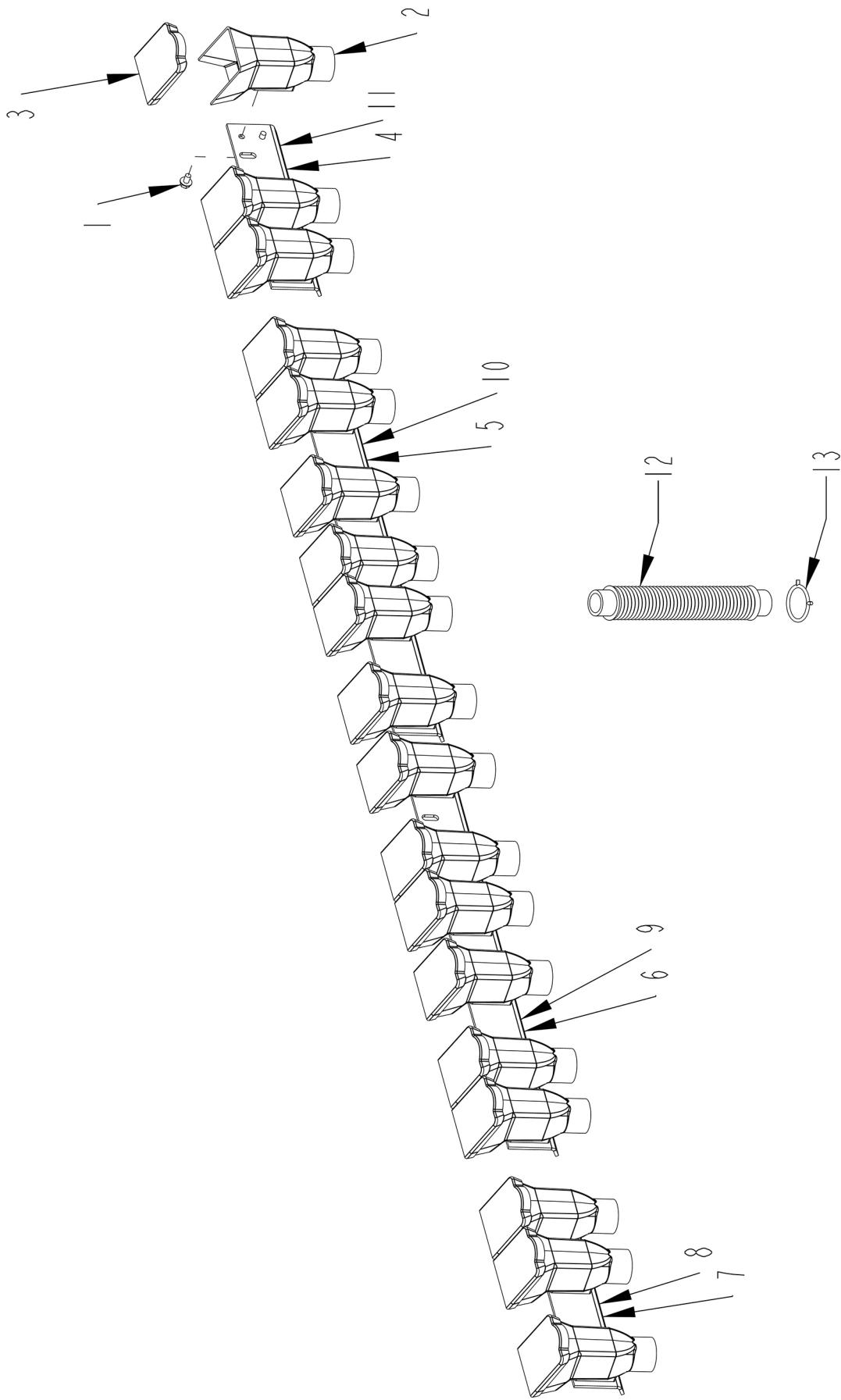
107C NATIVE GRASS KIT - ADDITIONAL AGITATOR SHAFTS

ITEM	PART	QUANTITY	QUANTITY	DESCRIPTION
		SINGLE AGITATOR	DUAL AGITATOR	
11	7500110	3	6	SUP\SHFT\ASSY\SLEEVE\W/HOLE
12	7500108	3	6	HSG\CAST\BUSH\TANK\DRILL
13	7500109	3	6	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
14	5000055	3	6	WASH\1-3/4OD\890ID\1/8T
15	4800169	1	2	PIN\RLLD\1/4X1-1/8
16	5000027	2	4	WASH\7/8ID\1-1/2OD\18GA\SHIM
17	4800044	1	2	PIN\COT\5/32X1-1/2
18	8400426	1	2	SHFT\TANK\38-7/16\DRILL
19	8400423	1	2	SHFT\TANK\33-1/16\DRILL
20	8400425	1	2	SHFT\TANK\34-1/2\DRILL
21	8400256	18	18	AGTTR\SM\CTR\DRILL
22	8400257		17	AGTTR\LRG\CTR\DRILL
23	8400259	3	3	BRKT\BRG\LOWER\DRILL
24	8400260	3		PL\SPCR\BRG\107
25	8400261		3	BRKT\BRG\UPPER\DRILL
28	4800012	12	18	BOLT\CRG\3/8X1-1/4\NC
30	4900076	12	18	NUT\FLG\SER\3/8\NC
34	8400258		1	AGTTR\LRG\OFFSET\DRILL

8400865

ATTACH\INTV-GRASS\KIT\107C\7"\DEALER_INSTALLED

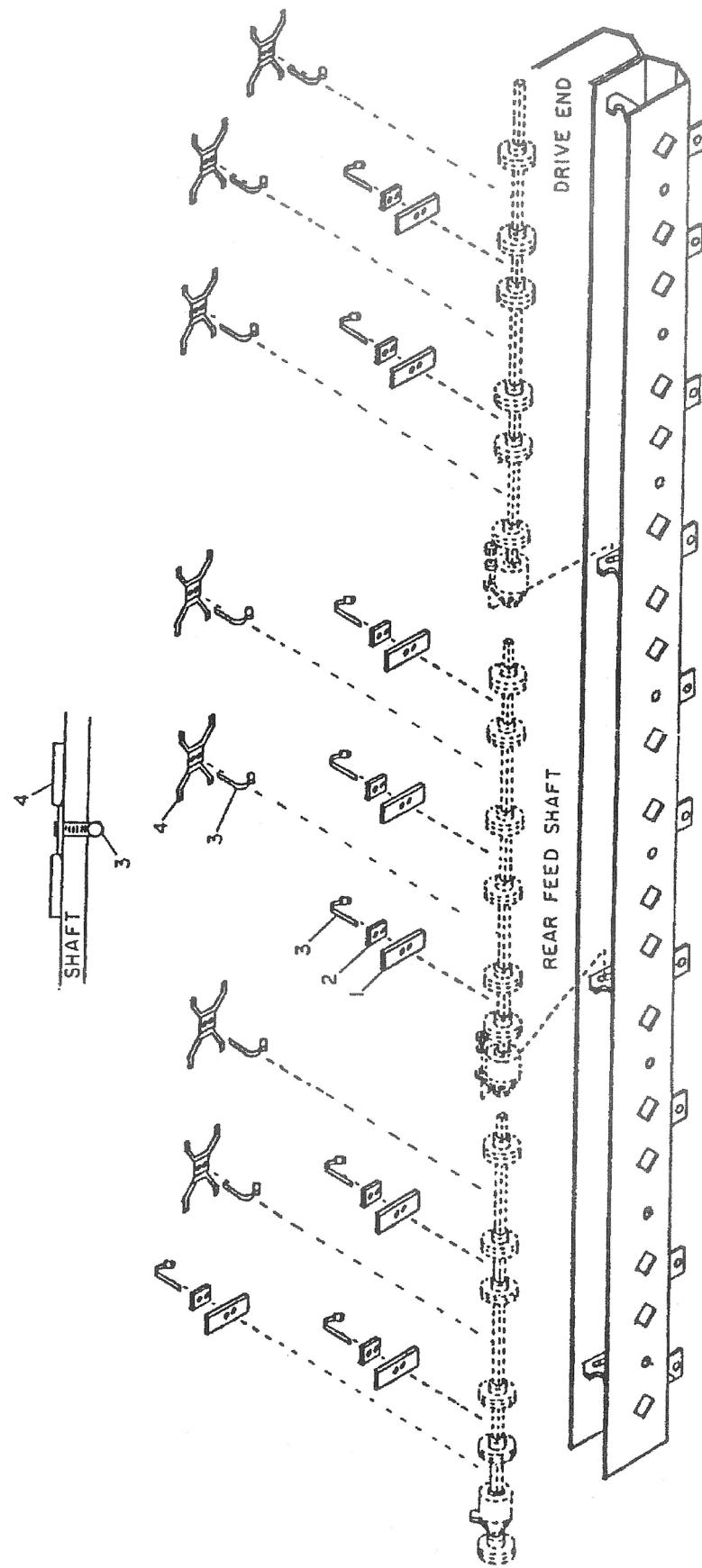
NATIVE GRASS KIT - SEED CUPS



NATIVE GRASS KIT - SEED CUPS

ITEM	PART	QUANTITY FOR 77C	QUANTITY FOR 107C	DESCRIPTION
1	4801296	24	36	BOLT\FLG\SERR\5/16X1/2
2	7501402	12	18	FNNL\SEED\LARGE\77-107
3	7501403	12	18	FNNL\COVER\SEED\LARGE\77-107
4	8400766		1	MNT\SEEDCUP\REAR\GRAINTANK
5	8400767	1	1	MNT\SEEDCUP\REAR\GRAINTANK
6	8400768	1	1	MNT\SEEDCUP\REAR\GRAINTANK
7	8400769		1	MNT\SEEDCUP\REAR\GRAINTANK
8	8400776		1	CUP\SEED\END\LT\ASM
9	8400777	1	1	CUP\SEED\CNTR\LT\ASM
10	8400778	1	1	CUP\SEED\CNTR\RT\ASM
11	8400779		1	CUP\SEED\END\RT\ASM
12	7500168	12	18	HOSE\2"\CONVOLUTED
13	7500169	24	36	CLAMP\SDHOSE\2\CP-34

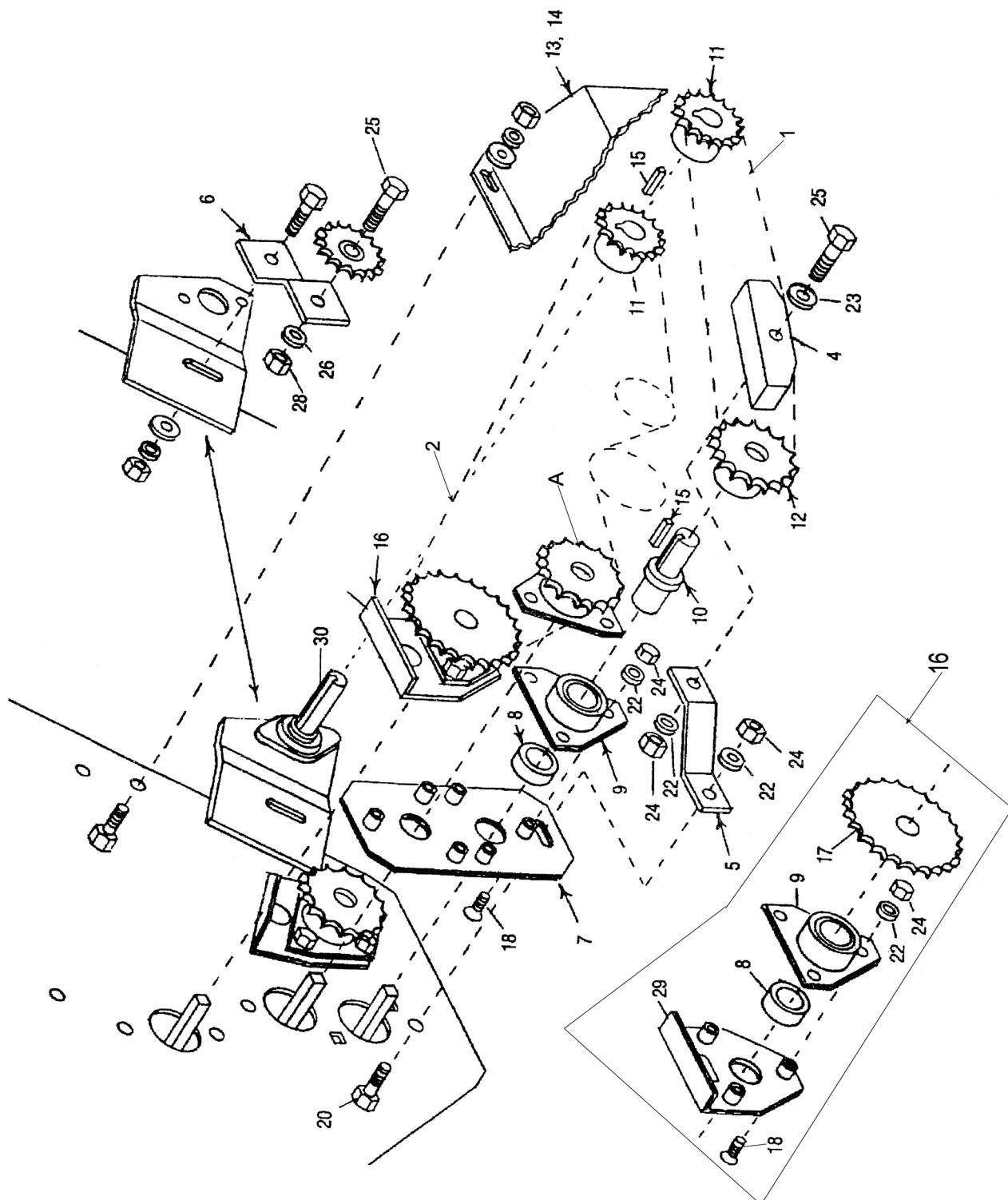
107C NATIVE GRASS KIT - TANK, EXISTING SHAFT MODIFICATIONS



107C NATIVE GRASS KIT - TANK, EXISTING SHAFT MODIFICATIONS

ITEM	PART NO.	QTY.	DESCRIPTION
1	8400396	8	PDDL\RBBRV1/4X1-1/4X2-3/4
2	8400397	8	PL\REIN\PADDLER\1-1/4SQ
3	7500107	15	CLAMP\HOSE\1-1/4\WORM\SS\
4	8400267	7	AGGTR\FINGER\DRILL

NATIVE GRASS KIT - TANK END DRIVE ASSEMBLY (77C & 107C)

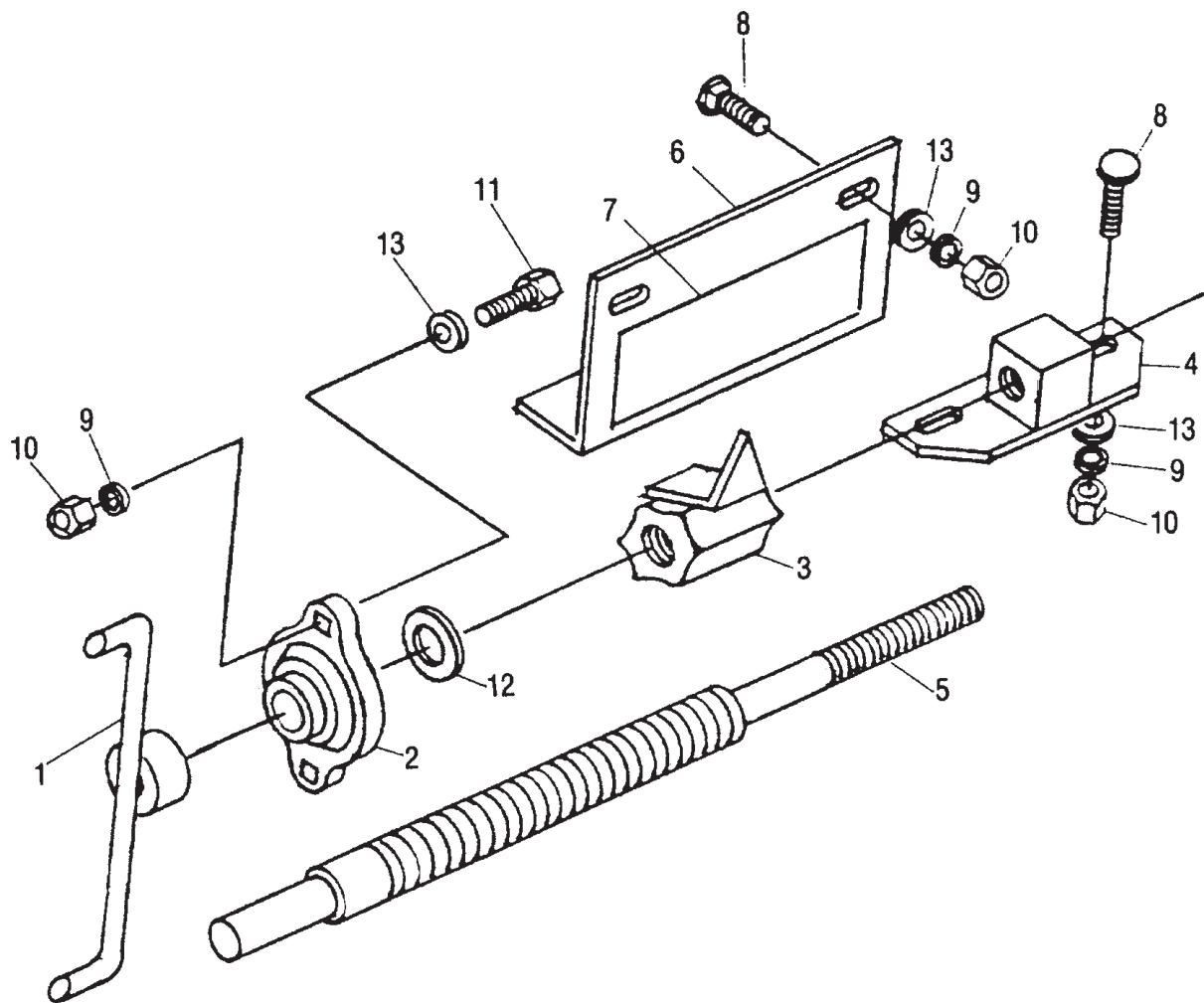


NATIVE GRASS KIT - TANK END DRIVE ASSEMBLY (77C & 107C)

ITEM	PART	QUANTITY	QUANTITY	DESCRIPTION
		SINGLE AGITATOR	DUAL AGITATOR	
1	1100282	1		CHAIN\50NP\69
2	1100237		1	CHAIN\50NP\95
3	1100227	1	1	CHAIN\50NP\CL
4	2000016	1	1	BLOCK\WOOD\IDLER
5	8400240	1	1	WOOD BLOCK IDLER MOUNT
6	8400241	1	1	MNT\SPKT\IDLER
7	8400242	1	1	TANK SEALER PLATE
8	2000802	2	3	CLLR\EC\1-1/4
9	8400070	2	3	BRACKET W/BEARING
10	8400438	1	1	DRIVE SHAFT STUB(GRASS)
11	1000029	2	2	SPKT\50\B\14\1\1/4KW\HRN
12	1000175	1	1	SPKT\50\B\18\1\1/4KW
13	8400243	1		SHLD\AGTTR\SINGLE
14	8400246		1	SHLD\AGTTR\DOUBLE
15	6200014	2	2	KEY\SQ\1/4X1-1/4
16	8400239		1	SEALER PLATE & BRG COMPLETE
17	8400238		1	50-24 SPRKT W/SQ HOLE SLEEVE
18	4800167	6	9	SCR\CAP\ALN\3/8X1-1/4\NC
19	4800034	1	2	BOLT\HEX\3/8X1-1/2
20	4800003	1	2	BOLT\HEX\3/8X1
21	4800029	1	1	BOLT\HEX\3/8X2-1/2
22	5000019	11	16	WASH\LOCK\3/8
23	5000001	6	7	WASH\FLAT\3/8
24	4900002	11	16	NUT\HEX\3/8\NC
25	4800514	2	2	BOLT\HEX\3/8X2-3/4
29	8400074		1	SEALER PLATE
30	8400440			SHFT\1X36*
30	8400573			SHAFT\RD\TANK\1X38*
30	8400738			SHAFT\RD\TINTV_GR\1X23.5**
30	8400718			SHFT\1X21.5**

NOTE (*): REQUIRED WHEN THE NATIVE GRASS KIT AND A LEGUME BOX ARE MOUNTED ON THE SAME 107C

NOTE (**): REQUIRED WHEN THE NATIVE GRASS KIT AND A LEGUME BOX ARE MOUNTED ON THE SAME 77C



ITEM	PART	QTY.	PART DESCRIPTION
1	8400060	2	CALIBRATION HANDLE
2	2000313	4	BRG\FLG\CAST\3/4\2 BOLT
3	7500071	2	CALIBRATION POINTER NUT
4	7500072	2	CALIBRATION CONTROL PL NUT
5	7500073	2	CALIBRATION SHAFT #6620
6	8400262	2	CALIBRATION SCALE PLATE
7	6500081	1	DECAL\INFO\CAL.SCALE\GRASS\107BOX
8	4800393	8	BOLT\HEX\5/16X7/8\GR8
9	5000022	12	WASH\LOCK\5/16
10	4900003	12	NUT\HEX\5/16\NC
11	4800013	4	BOLT\HEX\5/16X1
12	5000039	2	WASH\1-1/4ODX13/16IDX.110
13	5000023	12	WASH\FALT\5/16

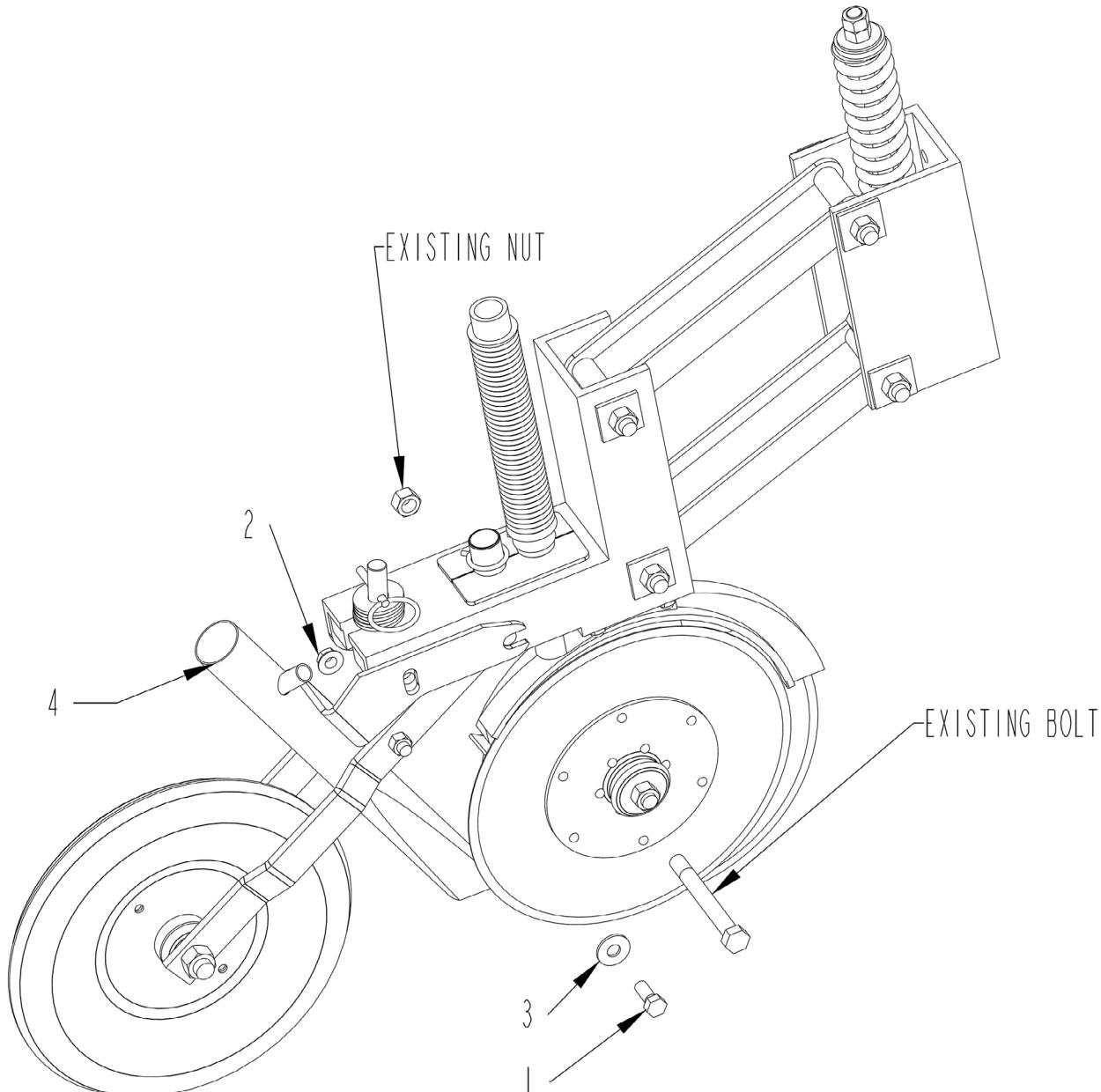
NATIVE GRASS KIT - DROP TUBE AND HOSE (77C & 107C)

ITEM	PART	QTY.	PART DESCRIPTION
1	4800018	1	BOLT\HEX\1/2X1-1/4
2	4900133	1	NUT\FLG\1/2\NC
3	5000004	1	WASH\FLAT\1/2
4	8400883	1	TUBE\DROP\Large\LHW-NIPPL
4a	8400882	1	TUBE\DROP\Large\RHW-NIPPL

NOT SHOWN

7500220 AS NEEDED # 7 CAPLUG
 7501607 AS NEEDED PLUG\CAP\2"\ID\SC2
 3701669 AS NEEDED HOSE\PVC\5/8IDX63\CLEAR
 7500107 AS NEEDED CLAMP\HOSE\1-1/4\WORM\SS\

 8400979 TUBE\DROP\LRG\W-NPPL\KIT\77C
 8400980 TUBE\DROP\LRG\W-NPPL\KIT\107C



77C Native Grass Kit Field Installation For single and double agitators

An agitator kit may be necessary when seeding grasses that will not flow freely into the feed wheels after removing feed wheel covers. The following steps and illustrations will enable you to install the agitator kit in the rear compartment of an existing Haybuster 77C drill box.

- Step 1.** Remove shield (#28), drive chain (#4), rear sealer plate (#27), bearing (#23), and sprocket assembly (#24). Retain bearing and sprocket assembly. Discard plastic plug (#22) and the steel tank plate (#30). **See page 58-59 of the parts reference manual.**
- Step 2.** Remove straight zerk from (3) three existing feed wheel shaft bearings. Install (3) three 45 degree zerk (#1A). Remove mounting bolts from same. Replace with 3/8" x 1-1/4" (#2) carriage bolts to enable bolting on agitator mounting plates (#15). Using the 1/8" wheel gauge, adjust feed wheels and tighten bolts. **See pages 134-135.**

Installing Feed Shaft Agitator Kits

<u>Item</u>	<u>Quantity</u>	<u>Description</u>
1	8	Rubber paddles
2	8	Paddle reinforcement plate
3	11	Hose Clamps
4	4	Finger agitator

- Step 3.** Mount the finger agitator (#18) in the center of the large spaces between feed wheels and tighten clamps securely. The finger agitator have been welded flush on one side, mount with this side against the shaft. **See pages 134-135.**
- Step 4.** Install the rubber paddles (#19) in the center of the small spaces between feed wheels. Make sure the paddle reinforcement plate (#20) is installed between the paddle and the hose clamp. **See pages 134-135.**
- Step 5.** Install (3) three small agitators (#13) in sequence on the 19" (#24) and 24" (#23) shafts and (6) six small agitators (#13) on the 33" (#21) shaft for the lower agitator. Install (3) three large agitators (#14) in sequence on the 19" (#24) and 24" (#23) shafts and (6) large agitators (#14) on the 33" (#21) shaft for the upper agitator. **See pages 134-135.**

Note: For a single bottom agitator kit, you will only need to assemble the shafts with the small agitators.

- Step 6.** Starting with shaft #24 slide cast housing and steel bearing over shaft and drive 1/4" x 1-1/8" (#4) roll pin through bearing and shaft. Insert 5/32" x 1-1/2" (#3) cotter pin in #23 shaft and bend ends of key back over shaft, repeat this step for second agitator. **See pages 134-135.**

- Step 7.** Place the (3) three assembled shafts with small paddles in tank. For upper agitator, insert second agitator mounting plate (#17) between bearing and agitator mounting plates and bolt each together using 3/8" x 1-1/4" carriage bolts, lock washer, and hex nuts. **See pages 134-135.**

Note: For a single bottom agitator kit, assemble a bearing spacer plate (#16) between bearing and second agitator plate (#15).

- Step 8.** Kit contains 1-1/2" O.D. x 7/8" I.D. washers (#7). Add washers as needed to remove end play from agitator shaft. **See pages 142-143.**

- Step 9.** Bolt existing bearing and sprocket assembly (#A) (removed in step #1) to top end of agitator mounting plate (#7) using (2) existing 3/8" x 1-1/4" socket head screws (#18). Assemble collar (#8), bracket (#9), drive shaft stub (#10) and sprocket (#12) as shown, bolt above assembly to the bottom end of mounting plate (#7) using (2) 3/8" x 1-1/4" socket head screws (#18). **See pages 142-143.**

- Step 10.** Bolt completed assembly (step #9) to end of tank using existing 3/8" x 1-1/2" hex head machine bolt in top end, 3/8" x 1" (#20) hex head in bottom end along with wood block idler mount (#5). **See pages 142-143.**

- Step 11.** Bolt bearing and sprocket assembly (#16) with 24 tooth sprocket to upper agitator shaft using 3/8" x 1" (#20) hex head machine bolt in top slot and 3/8" x 1-1/2" (#19) hex head machine bolt in bottom hole with flat washers and hex nuts. **See pages 142-143.**

Note: Step #11 used only with a dual agitator.

- Step 12.** Loosen sprockets and bearings on 1" drive shaft (#30) and shift to the right to allow enough shaft to accommodate second drive sprocket. Align all respective sprockets and secure. **See pages 142-143.**

- Step 13.** Install both drive chains (#1 & #2). **See pages 142-143.**

- Step 14.** Install wood block idler (#4) using 3/8" x 2-1/2" (#21) hex head machine bolt. Adjust chain tension. **See pages 142-143.**

- Step 15.** Remove existing idler sprocket and spacer and install idler sprocket mount (#6) and existing idler sprocket using 1/2" x 1-1/2" hex head machine bolts. Adjust chain tension. **See pages 142-143.**

- Step 16.** Install existing shield (p.n. 8400243) for single agitator or new shield (p.n. 8400246) for double agitator using existing bolts. **See pages 142-143.**

107C Native Grass Kit Field Installation For single and double agitators

Kit for drills Serial No. 101100017C & UP

An agitator kit may be necessary when seeding grasses that will not flow freely into the feed wheels after removing feed wheel covers. The following steps and illustrations will enable you to install the agitator kit in the rear compartment of an existing Haybuster 107C drill box.

Step 1. Remove shield (#28), drive chain (#4), rear sealer plate (#27), bearing (#23), and sprocket assembly (#24). Retain bearing and sprocket assembly. Discard plastic plug (#22) and the steel tank plate (#30). **See page 60-61 of the parts reference manual.**

Step 2. Remove straight zerk from (3) three existing feed wheel shaft bearings. Install (3) three 45 degree zerk (#1A). Remove mounting bolts from same. Replace with 3/8" x 1-1/4" (#28) carriage bolts to enable bolting on agitator mounting plates (#23). Using the 1/8" wheel gauge, adjust feed wheels and tighten bolts. **See pages 136-137.**

Installing Feed Shaft Agitator Kits

Item	Quantity	Description
1	9	Rubber paddles
2	9	Paddle reinforcement plate
3	16	Hose Clamps
4	7	Finger agitator

Step 3. Mount the finger agitator (#4) in the center of the large spaces between feed wheels and tighten clamps securely. The finger agitator have been welded flush on one side, mount with this side against the shaft. **See pages 140-141.**

Step 4. Install the rubber paddles (#1) in the center of the small spaces between feed wheels. Make sure the paddle reinforcement plate (#2) is installed between the paddle and the hose clamp (#3). **See pages 140-141.**

Step 5. Install (6) three small agitators (#21) in sequence on the 38-7/16" (#18) and 34-1/2" (#20) shafts and (6) six small agitators (#21) on the 33" (#19) shaft for the lower agitator. Install (3) three large agitators (#22) in sequence on the 38-7/16" (#18) and 34-1/2" (#20) shafts and (6) large agitators (#22) on the 38-7/16" (#18) shaft for the upper agitator. **See pages 136-137.**

Note: For a single bottom agitator kit, you will only need to assemble the shafts with the small agitators.

Step 6. Starting with shaft #20 slide cast housing and steel bearing over shaft and drive 1/4" x 1-1/8" (#15) roll pin through bearing and shaft. Insert 5/32" x 1-1/2" (#17) cotter pin in #18 shaft and bend ends of key back over shaft, repeat this step for second agitator. **See pages 136-137.**

Step 7. Place the (3) three assembled shafts with small paddles in tank. For upper agitator, insert second agitator mounting plate (#25) between bearing and agitator mounting plates and bolt each together using 3/8" x 1-1/4" carriage bolts, lock washer, and hex nuts. **See pages 136-137.**

Note: For a single bottom agitator kit, assemble a bearing spacer plate (#24) between bearing and second agitator plate (#23).

Step 8. Kit contains 1-1/2" O.D. x 7/8" I.D. washers (#16). Add washers as needed to remove end play from agitator shaft. **See pages 136-137.**

Step 9. Bolt existing bearing and sprocket assembly (#A) (removed in step #1) to top end of agitator mounting plate (#7) using (2) existing 3/8" x 1-1/4" socket head screws (#18). Assemble collar (#8), bracket (#9), drive shaft stub (#10) and sprocket (#12) as shown, bolt above assembly to the bottom end of mounting plate (#7) using (2) 3/8" x 1-1/4" socket head screws (#18). **See pages 142-143.**

Step 10. Bolt completed assembly (step #9) to end of tank using existing 3/8" x 1-1/2" hex head machine bolt in top end, 3/8" x 1" (#20) hex head in bottom end along with wood block idler mount (#5). **See pages 142-143.**

Step 11. Bolt bearing and sprocket assembly (#16) with 24 tooth sprocket to upper agitator shaft using 3/8" x 1" (#20) hex head machine bolt in top slot and 3/8" x 1-1/2" (#19) hex head machine bolt in bottom hole with flat washers and hex nuts. **See pages 142-143.**

Note: Step #11 used only with a dual agitator.

Step 12. Loosen sprockets and bearings on 1" drive shaft (#30) and shift to the right to allow enough shaft to accommodate second drive sprocket. Align all respective sprockets and secure. **See pages 142-143.**

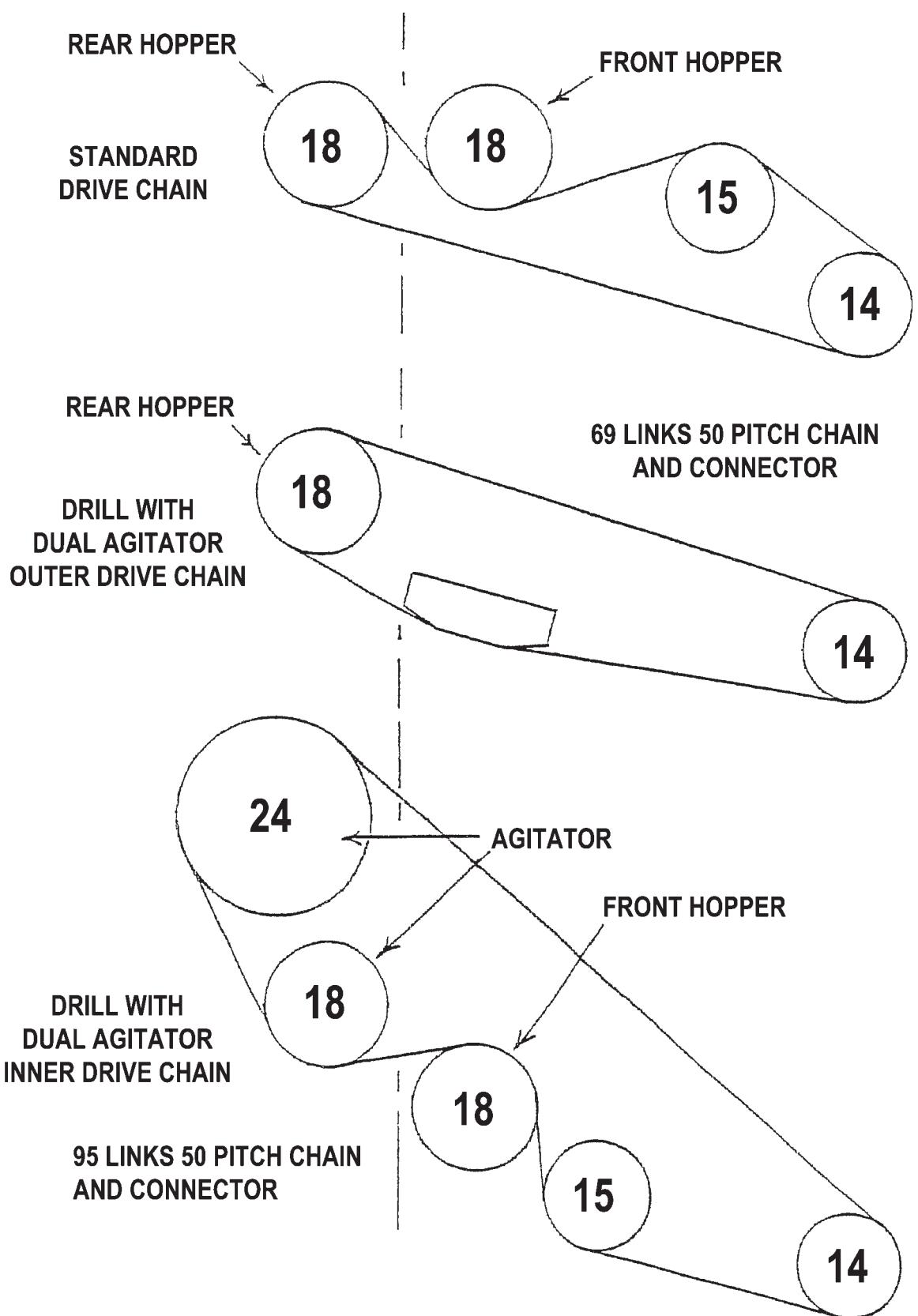
Step 13. Install both drive chains (#1 & #2). **See pages 142-143.**

Step 14. Install wood block idler (#4) using 3/8" x 2-1/2" (#21) hex head machine bolt. Adjust chain tension. **See pages 142-143.**

Step 15. Remove existing idler sprocket and spacer and install idler sprocket mount (#6) and existing idler sprocket using 1/2" x 1-1/2" hex head machine bolts. Adjust chain tension. **See pages 142-143.**

Step 16. Install existing shield (p.n. 8400243) for single agitator or new shield (p.n. 8400246) for double agitator using existing bolts. **See pages 142-143.**

Chain Routing (77C & 107C)



NATIVE GRASS KIT - SINGLE AGITATOR MASTER PARTS LIST (77C ONLY)

PART NUMBER	QTY	DESCRIPTION
8400732		AGGTR\KIT\BTTM\SINGLE\BD1307
1000029	1	SPKT\B\50\14\1\1/4KW
1000175	1	SPKT\B\50\18\1\1/4KW
1100227	1	CHAIN\50NP\CL
1100236	1	CHAIN\50NP\75
2000016	1	BLKWD\IDLER
3800098	3	FTGLUB\1/4MPXZRK\45D
4800003	1	BOLT\HEX\3/8X1
4800012	12	BOLT\CRG\3/8X1-1/4\NC
4800029	1	BOLT\HEX\3/8X2-1/2
4800034	1	BOLT\HEX\3/8X1-1/2
4800044	1	PIN\COT\5/32X1-1/2
4800082	2	BOLT\HEX\1/2X1-1/2
4800169	1	PIN\RLLD\1/4X1-1/8
4800230	3	SCR\CSK\ALN\3/8X1-1/2\NC
4900001	2	NUT\HEX\1/2\NC
4900002	18	NUT\HEX\3/8\NC
5000001	6	WASH\FLAT\3/8
5000004	3	WASH\FLAT\1/2
5000006	2	WASH\LOCK\1/2
5000019	18	WASH\LOCK\3/8
5000027	4	WASH\7/8ID\1-1/2OD\18GA
5000055	3	WASH\SPNDL\7/8
6200014	2	KEY\SQ\1/4X1-1/4
7500107	11	CLAMP\HOSE\1-1/4\WORM\SS\
7500108	3	HSG\CAST\BUSH\TANK\DRILL
7500109	1	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
7500562	2	SLV\SQ_HL\5/8X1-1/4\1-7/16L\PLAIN
8400070	1	BRG\1-1/4\W/BRKT\3-HL
8400256	12	AGTTR\SM\CTR\DRILL
8400396	8	PDDL\RBBR\1/4X1-1/4X2-3/4
8400397	8	PL\REIN\PADDLER\1-1/4SQ
8400423	1	SHFT\TANK\33-1/16\DRILL
8400438	1	SHFT\DRIVE\EXT\DRILL
8400573	1	SHFT\DR\TANK\1X38
8400708	1	SHFT\TANK\23-15/16\DRILL
8400710	1	SHFT\TANK\19"\DRILL
8400240	1	MNT\SPKT\IDLER\REAR\BD1307
8400241	1	MNT\SPKT\IDLER\FR\BD1307
8400259	3	BRKT\BRG\LOWER\DRILL
8400260	3	PL\SPCR\BRG\BD1307
8400267	4	AGGTR\FINGER\DRILL\BD1307

NATIVE GRASS KIT - DOUBLE AGITATOR MASTER PARTS LIST (77C ONLY)

PART NUMBER	QTY	DESCRIPTION
8400731		ATTACHNTV-GRASS\KIT\77
0501036	1	INSTR\KIT\77\NATIVE GRASS
1000029	1	SPKT\B\50\14\1\1/4KW
1000175	1	SPKT\B\50\18\1\1/4KW
1100226	1	CHAIN\50NP
1100227	3	CHAIN\50NP\CL
1100228	1	CHAIN\50NP\OL
1100237	1	CHAIN\50NP\95
2000016	1	BLK\WD\IDLER
3800082	4	FTG\LUB1/4NFXZRK\ADPT
3800098	3	FTG\LUB1/4MPXZRK\45D
4800003	2	BOLT\HEX\3/8X1
4800012	18	BOLT\CRG\3/8X1-1/4\NC
4800044	1	PIN\COT5/32X1-1/2
4800081	18	BOLT\HEX\5/16X1-1/2
4800142	2	BOLT\HEX\3/8X1-3/4
4800156	2	BOLT\HEX\3/8X3
4800169	3	PIN\RLLD\1/4X1-1/8
4800178	2	BOLT\HEX\1/2X1-3/4
4800230	2	SCR\CSKVALN\3/8X1-1/2\NC
4900001	2	NUT\HEX\1/2\INC
4900002	24	NUT\HEX\3/8\INC
4900003	18	NUT\HEX\5/16\INC
4900076	12	NUT\FLG\SERR\3/8\NC
5000001	10	WASH\FLAT\3/8
5000004	4	WASH\FLAT\1/2
5000006	2	WASH\LOCK\1/2
5000019	16	WASH\LOCK\3/8
5000022	18	WASH\LOCK\5/16
5000023	18	WASH\FLAT\5/16
5000027	12	WASH\7/8ID\1-1/2OD\18GA
5000055	6	WASH\SPNDL\7/8
6200014	2	KEY\SQ\1/4X1-1/4
7500107	11	CLAMP\HOSE\1-1/4\WORM\SS\
7500108	6	HSG\CAST\BUSH\TANK\DRILL
7500109	2	SLV\SQ_HL\5/8X1-7/16\W/5/16_THRU_HL
7500168	12	HOSE\2"\CONVOLUTED\2GRASS
7500169	24	CLAMP\SDHOSE\2\CP-34
7500359	12	FINISH CAPS FCR-20
7500562	4	SLV\SQ_HL\5/8X1-1/4\1-7/16L\PLAIN
8400070	1	BRG\1-1/4\W\BRKT\3-HL
8400239	1	PL\SEAL\W\SPKT\W\BRG\ASSY
8400240	1	MNT\SPKT\IDLER\REAR\77
8400241	1	MNT\SPKT\IDLER\FR\77
8400246	1	SHLD\AGTTR\Dual\77
8400249	1	CUP\SEED\SECT\L\CTR
8400250	1	CUP\SEED\SECT\R\CTR
8400256	12	AGTTR\SM\CTR\DRILL
8400257	12	AGTTR\LRG\CTR\DRILL
8400259	3	BRKT\BRG\LOWER\DRILL
8400261	3	BRKT\BRG\UPPER\77
8400267	4	AGGTR\FINGER\DRILL\77
8400396	8	PDDL\RBRR\1/4X1-1/4X2-3/4
8400397	8	PL\REIN\PADDLER\1-1/4SQ
8400423	2	SHFT\TANK\33-1/16\DRILL
8400438	1	SHFT\DRIVE\EXT\DRILL
8400677	1	NTV\GRASS\SHIP\KIT\77
8400690	12	TUBE\DROP\OVERSIZED
8400708	2	SHFT\TANK\23-15/16\DRILL
8400710	2	SHFT\TANK\19"\DRILL
8400738	1	SHFT\DRV\77\NTV_GR\1X23.5

NATIVE GRASS KIT - SINGLE AGITATOR MASTER PARTS LIST (107C ONLY)

PART NUMBER	QTY	DESCRIPTION
8400614		AGGTR\KIT\BTTM\SINGLE\107
1000029	1	SPKTB\50\14\1\1/4KW
1000175	1	SPKT\B\50\18\1\1/4KW
1100227	1	CHAIN\50NP\CL
1100282	1	CHAIN\50NP\69
2000016	1	BLKWD>IDLER
3800098	3	FTGLUB\1/4MPXZRK\45D
4800003	1	BOLT\HEX\3/8X1
4800012	12	BOLT\CRG\3/8X1-1/4\NC
4800029	1	BOLT\HEX\3/8X2-1/2
4800034	1	BOLT\HEX\3/8X1-1/2
4800044	1	PIN\COT\5/32X1-1/2
4800082	2	BOLT\HEX\1/2X1-1/2
4800169	1	PIN\RLLD\1/4X1-1/8
4800230	3	SCR\CSK\ALN\3/8X1-1/2\NC
4900001	2	NUT\HEX\1/2\NC
4900002	18	NUT\HEX\3/8\NC
5000001	6	WASH\FLAT\3/8
5000004	3	WASH\FLAT\1/2
5000006	2	WASH\LOCK\1/2
5000019	18	WASH\LOCK\3/8
5000027	4	WASH\7/8ID\1-1/2OD\18GA
5000055	3	WASH\SPNDL\7/8
6200014	2	KEY\ISQ\1/4X1-1/4
7500107	16	CLAMP\HOSE\1-1/4\WORM\SS\
7500108	3	HSG\CAST\BUSH\TANK\DRILL
7500109	1	SLV\ISQ_HL\5/8X1-7/16\W/5/16_THRU_HL
7500562	2	SLV\ISQ_HL\5/8X1-1/4\1-7/16L\PLAIN
8400070	1	BRG\1-1/4\W\BRKT\3-HL
8400240	1	MNT\SPKT\IDLER\REAR\BD1307
8400241	1	MNT\SPKT\IDLER\FR\BD1307
8400256	18	AGTR\SM\CTR\DRILL
8400259	3	BRKT\BRG\LOWER\DRILL
8400260	3	PL\SPCR\BRG\77
8400267	7	AGGTR\FINGER\DRILL\77
8400396	8	PDDL\RBBR\1/4X1-1/4X2-3/4
8400397	8	PL\REIN\PADDLER\1-1/4SQ
8400423	1	SHFT\TANK\33-1/16\DRILL
8400425	1	SHFT\TANK\34-1/2\DRILL
8400426	1	SHFT\TANK\38-7/16\DRILL
8400438	1	SHFT\DRIVE\EXT\DRILL
8400573	1	SHFT\DR\TANK\1X38

NATIVE GRASS KIT - DOUBLE AGITATOR MASTER PARTS LIST (107C ONLY)

PART NUMBER	QTY	DESCRIPTION
8400580		ATTACH\NTV-GRASS\KIT\107
1000029	1	SPKT\B\50\14\11\4KW
1000175	1	SPKT\B\50\18\1\1\4KW
1100226	1	CHAIN\50NP
1100227	3	CHAIN\50NP\CL
1100228	1	CHAIN\50NP\OL
1100237	1	CHAIN\50NP\95
2000016	1	BLK\WD\IDLER
3800082	3	FTG\LUB\1/4NFXZRK\ADPT
3800098	3	FTG\LUB\1/4MPXZRK\45D
4800003	2	BOLT\HEX\3/8X1
4800012	18	BOLT\CRG\3/8X1-1/4\NC
4800050	2	PIN\COT\3/16X1-1/4\NC
4800081	18	BOLT\HEX\5/16X1-1/2
4800142	2	BOLT\HEX\3/8X1-3/4
4800156	2	BOLT\HEX\3/8X3
4800169	3	PIN\RLLD\1/4X1-1/8
4800178	2	BOLT\HEX\1/2X1-3/4
4800230	2	SCR\CSK\ALN\3/8X1-1/2\NC
4900001	2	NUT\HEX\1/2\NC
4900002	12	NUT\HEX\3/8\NC
4900003	18	NUT\HEX\5/16\NC
4900076	12	NUT\FLG\SERR\3/8\NC
5000001	10	WASH\FLAT\3/8
5000004	4	WASH\FLAT\1/2
5000006	2	WASH\LOCK\1/2
5000019	16	WASH\LOCK\3/8
5000022	18	WASH\LOCK\5/16
5000023	18	WASH\FLAT\5/16
5000027	12	WASH\7/8ID\1-1/2OD\18GA
5000055	6	WASH\SPNDL\7/8
6200014	2	KEY\SQ\1/4X1-1/4
7500107	16	CLAMP\HOSE\1-1/4\WORM\MISS\HSG\CAST\BUSH\TANK\DRILL
7500108	6	SLV\ISQ_HL\5/8X1-7/16\W/5/16_THRU_HL
7500109	2	SLV\ISQ_HL\5/8X1-7/16\W/5/16_THRU_HL
7500168	18	HOSE\2"\CONVOLUTED\2GRASS
7500169	36	CLAMP\SDHOSE\2\CP-34
7500359	18	FINISH CAPS FCR-20
7500562	4	SLV\ISQ_HL\5/8X1-1/4\1-7/16\PLAIN
8400070	1	BRG\1-1/4\W\BRKT\3-HL
8400239	1	PL\SEAL\W\SPKT\W\BRG\ASSY
8400240	1	MNT\SPKT\IDLER\REAR
8400241	1	MNT\SPKT\IDLER\FR
8400246	1	SHLD\AGTTR\DUAL\107-DRILL
8400248	1	CUP\SEED\SECT\RH\CTR
8400249	1	CUP\SEED\SECT\RH\CTR
8400250	1	CUP\SEED\SECT\RH\CTR
8400251	1	CUP\SEED\SECT\RH\107>
8400256	18	AGTTR\SM\CTR\DRILL
8400257	17	AGTTR\LRG\CTR\DRILL
8400258	1	AGTTR\BRG\OFFSET\DRILL
8400259	3	BRKT\BRG\LOWER\DRILL
8400261	3	BRKT\BRG\UPPER\77
8400267	7	AGGTR\FINGER\DRILL
8400396	9	PDDL\RBBL\1/4X1-1/4X2-3/4
8400397	9	PL\REIN\PADDLER\1-1/4SQ
8400423	2	SHFT\TANK\33-1/16\DRILL
8400425	2	SHFT\TANK\34-1/2\DRILL
8400426	2	SHFT\TANK\38-7/16\DRILL
8400438	1	SHFT\DRIVE\EXT\DRILL
8400573	1	SHFT\DRIVE\EXT\DRILL
8400677	1	NTV\GRASS\SHIP\KIT\77
8400690	12	TUBE\DROP\OVERSIZED

NOTES



77C / 107C DRILL Documentation Comment Form

DuraTech Industries welcomes your comments and suggestions regarding the quality and usefulness of this manual. Your comments help us improve the documentation to better meet your needs.

- Did you find any errors?
- Is the information clearly presented?
- Does the manual give you all the information you need to operate the equipment safely and effectively?
- Are the diagrams and illustrations correct?
- Do you need more illustrations?
- What features do you like most about the manual? What features do you like least?

If you find errors or have specific suggestions, please note the topic, chapter and page number.

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