

SCHMEISER CULTI PLOW

2-BAR



3-BAR HD



T. G. SCHMEISER Co., Inc.

OPERATION AND PARTS MANUAL

Version 2.0
August 2019

Read and understand the manual. This manual provides information and procedures to safely operate and maintain the CULTI PLOW.





CONTENTS

INTRODUCTION.....	4	Maintenance Schedule.....	18
Engineered for Long Life.....	4	STORAGE.....	19
Serial Number Information.....	4	Storage Preparation.....	19
Replacement Parts.....	4	Placing in storage.....	19
Warranty Information.....	4	Removing From Storage.....	19
Serial Number Location.....	4	PARTS SECTION.....	20
Factory Contact Information.....	4	Component Nomenclature.....	20
Dealer Contact Information.....	4	Ordering Parts.....	20
SPECIFICATIONS.....	5	Parts Drawings.....	20
SAFETY.....	6	2-Bar Culti Plow Assembly.....	20
Safety Alert Symbols.....	6	2-Bar Culti Plow Shank Assembly.....	21
Safety Icons Nomenclature.....	7	3-Bar Heavy Duty Culti Plow Assembly.....	22
Personal Protection/Important Information..	7	3-Bar Culti Plow Shank Assembly.....	23
Prohibited Actions.....	7	Gauge Leg Assembly (Optional).....	24
Hazard Avoidance.....	7	Culti Plow Shank Quantities	25
General Safety.....	8	NOTES.....	26
Assembly Safety.....	8	LIMITED WARRANTY STATEMENT.....	27
Operation Safety.....	9		
Tractor Requirements.....	9		
Tractor Safety Devices.....	10		
ROPS and Seat Belt.....	10		
Attaching to Tractor.....	10		
Maintenance Safety.....	10		
Bolt Torque Requirements.....	11		
Tire and Lug Torque Specifications.....	11		
Welding Repairs.....	11		
Storage Safety.....	11		
Disposal of Equipment at End of Useful Life.....	12		
Safety Marking and Lighting.....	13		
SAFETY SIGNS AND DECALS.....	14		
Safety Sign Placement.....	14		
Safety Signs and Decals.....	15		
ASSEMBLY AND OPERATION.....	16		
Initial Setup Checklist.....	16		
Implement Break-In.....	16		
Connecting to Tractor.....	16		
Detaching from Tractor.....	17		
MAINTENANCE.....	17		
Service Items.....	17		
Tires.....	17		
Ground Engaging Components.....	17		
Shanks and Points.....	17		

INTRODUCTION

This manual has been prepared to instruct the user in the safe and efficient operation of this implement. Read and understand the manual thoroughly and follow all instructions carefully.

Engineered for Long Life

Your Schmeiser Culti Plow is designed to provide many years of dependable service.

Our products are engineered to work in conjunction with other farm implements. This helps save time and money.

Serial Number Information

Record the serial number, model number, and date purchased in the space provided in the Serial Number Location section. Be sure to have this information whenever contacting the dealer to order parts or attachments for this implement.

Replacement Parts

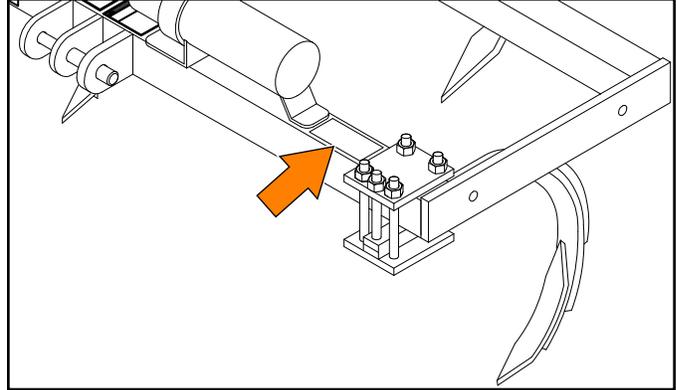
Should this implement require replacement parts, contact your local Schmeiser dealer. Always order genuine Schmeiser OEM replacement parts.

Warranty Information

It is important that the Warranty Card be completed and sent to Schmeiser. The warranty will not be valid until the information is on-file at Schmeiser. If information not contained in this manual is needed, contact your Schmeiser dealer.

Thank you for buying a Schmeiser _____

Serial Number Location



Serial No. _____

Model No. _____

Purchase Date _____

Dealer Name _____

Factory Contact Information

For questions not answered in this manual, if additional copies are required, or the manual is damaged, please contact your local dealer or:

T. G. Schmeiser Co., Inc.
P.O. Box 1392
Selma, CA 93662

Phone: (559) 268-8128
Fax: (559) 268-3279
E-mail: sales@tgschmeiser.com
Web: www.tgschmeiser.com

Additional copies of this manual can also be downloaded at www.tgschmeiser.com.

Dealer Contact Information

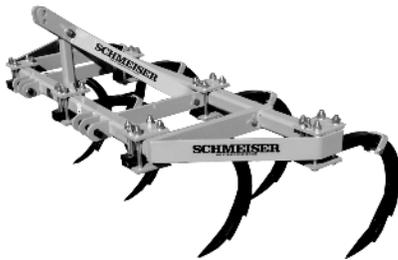
For replacement decals, questions, or to order parts, contact your dealer:



SPECIFICATIONS

Model	Overall Width	Number of Shanks	Weight	Required HP
4CP1, 4CP3	4'-6"	5	413 lbs, 508 lbs	60-80
5CP1, 5CP3	5'-2"	5	438 lbs, 533 lbs	60-80
6CP1, 6CP3	6'-2"	5	463 lbs, 558 lbs	60-80
7CP1, 7CP3	7'-2"	7	520 lbs, 647 lbs	85-115
8CP1, 8CP3	8'-2"	7	545 lbs, 672 lbs	85-115
HCP310	10'-7"	9	1575 lbs	110-145
HCP312	12'-7"	11	1811 lbs	135-175
HCP314	14'-7"	13	2047 lbs	155-210
HCP316	16'-7"	15	2283 lbs	180-240
HCP318	18'-7"	17	2519 lbs	205-275
HCP320	20'-7"	19	2755 lbs	230-305

2-Bar Models



CP1 Single Shank Culti Plow

CP3 Double Shank Culti Plow

3-Bar Models



HCP Heavy Duty Culti Plow

SAFETY

Carefully read and follow all safety precautions before operation. There are obvious and hidden potential hazards involved in the operation of this implement. Serious injury or death may occur unless care is taken to ensure the safety of both the operator and any other persons in the area. Avoid potential danger by taking extra time for thought and a more careful approach to the use of this implement.

Most work related accidents are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. As you assemble, operate, or maintain the unit, you must be alert to potential hazards. You should also have the necessary training, skills, and tools to perform any assembly or maintenance procedures.

Improper operation and maintenance of this unit could result in a dangerous situation that could cause injury or death. T.G. Schmeiser cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the product are, therefore, not all-inclusive. If a method of operation not specifically recommended by us is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the unit will not be damaged or be made unsafe by the methods that you choose.

The information, specifications, and illustrations in this manual are based on the information that was available at the time this material was written and are subject to change without notice.

Safety Alert Symbols



This is the safety alert symbol. It is used to alert you to potential personal injury hazards.

Obey all safety messages that follow this symbol to avoid possible injury or death.

This manual contains DANGERS, SAFETY INSTRUCTIONS, CAUTIONS, IMPORTANT NOTICES, and NOTES which must be followed to prevent the possibility of improper service, damage to the equipment, personal injury, or death. The following key words call the readers attention to potential hazards.

Hazards are identified by the "Safety Alert Symbol" and followed by a signal word such as "DANGER", "WARNING", or "CAUTION".

DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

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

NOTICE

Indicates that equipment or property damage can result if instructions are not followed.

SAFETY INSTRUCTIONS

Safety instructions (or equivalent) signs indicate specific safety-related instructions or procedures.

Note: Contains additional information important to a procedure.

Safety Icons Nomenclature

This manual and the equipment has numerous safety icons.

These safety icons provide important operating instructions which alert you to potential personal injury hazards.

Personal Protection/Important Information

 READ THE MANUAL

 THINK SAFETY

 MAINTENANCE PROCEDURE

 WEIGHT RATING

 EYE PROTECTION

 HAND PROTECTION

 HEAD PROTECTION

 HEARING PROTECTION

 INSPECT EQUIPMENT

 OEM PARTS ONLY

 PLACE IN NEUTRAL

 PROTECTIVE SHOES

 REMOVE KEY

 DAMAGED HAZARD LABEL

 SLOW VEHICLE PLACARD

 SET PARKING BRAKE

 STOP ENGINE

 SUPPORT STAND USAGE

 USE PROPER TOOLS

 VISUALLY INSPECT

 USE ROPS

 USE CORRECT PARTS

Prohibited Actions

 DO NOT ALTER OR MODIFY

 DO NOT LEAVE OUT TOOLS

 DO NOT WELD

 NO ALCOHOL

 NO CHILDREN

 NO DRUGS

 NO PASSENGERS

 NO RIDERS

 NO BYSTANDERS

Hazard Avoidance

 BLOCK WHEELS

 CRUSHING HAZARD (body)

 CRUSHING HAZARD (foot)

 CRUSH HAZARD (rolling over)

 DEFECTIVE OR BROKEN PART

 FALLING HAZARD

 MAINTAIN SAFE DISTANCE

 OVERTURN HAZARD

 PINCH POINT HAZARD

 SAFETY ALERT SYMBOL

 SHARP OBJECT HAZARD

 ZERO PRESSURE

 COMPRESSED AIR HAZARD

 CRUSH HAZARD

 CRUSH HAZARD

 HIGH PRESSURE FLUID HAZARD

 HOT SURFACE HAZARD

 HEAVY OBJECT HAZARD

GENERAL SAFETY



WARNING



Read and Understand Manual

To prevent personal injury or even death, be sure you read and understand all of the instructions in this manual and other related OEM equipment manuals! This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. Do not allow persons to operate or maintain this unit until they have read this manual and have developed a thorough understanding of the safety precautions and how it works.

This unit was designed for a specific application;

DO NOT modify or use this unit for any application other than that for which it was designed.

Units operated improperly or by untrained personnel can be dangerous!



Fall Hazard

Do not use this implement as a work platform. Do not stand on top of the unit at any time. Do not ride on the tractor or the implement or allow others to ride.



Crush Hazard (Rolling Over)

To prevent serious injury or death, before disconnecting, leaving the operator's seat, servicing, adjusting, repairing, or performing other work on the implement, ALWAYS:

1. Stop the tractor or towing vehicle.
2. Shut off the engine and remove the ignition key.
3. Set the brakes.
4. Make sure wheel cylinder transport lock is attached.
5. Relieve hydraulic fluid pressure.



Injury Hazard

Do not permit children to play on or around the unit.



Impaired Operator Hazard

Do not attempt to operate this unit under the influence of drugs or alcohol. Review the safety instructions with all users annually.



Pinch Point /Sharp Object Hazard

Do not place any body parts between moving and / or stationary parts. The weight of the implement will easily cause serious bodily injury.



To prevent injury, use a tractor equipped with a Roll Over Protective System (ROPS).



Visually Inspect

Visually inspect the unit for any loose bolts, worn parts, or cracked welds, and make necessary repairs before using the unit.

Personal Protection Equipment

When working around or operating this unit, wear appropriate personal protective equipment. This list includes but is not limited to:



- A hard hat
- Protective shoes with slip resistant soles
- Protective goggles, glasses, or face shield
- Heavy gloves and protective clothing
- Ear muffs or plugs



Use Properly Rated Tools

To prevent serious injury: Use sufficient tools, jacks, and hoists that have the capacity for the job.



NO PASSENGERS ALLOWED

Do not carry passengers anywhere on or in the tractor or implement.



Rolling Hazard

To prevent serious injury, lock the wheels when performing assembly, maintenance, repairs, or when preparing for storage.

ASSEMBLY SAFETY



WARNING



Crush Hazard

Use support blocks or safety stands rated to support the load when assembling the unit or performing maintenance. Never work under equipment supported by hydraulics. Hydraulics can drop equipment instantly if controls are actuated even when power to the hydraulics is shut off.



Trapped Air Hazard

When installing, replacing, or repairing hydraulic system cylinders or parts, make sure that the entire system is charged and free of air before resuming operations. Failure to bleed the system of all air can result in improper machine operation, causing severe injury.

Highway and Transport Operations

SAFETY INSTRUCTIONS



When transporting the implement on public roads, use approved accessory lighting, flags, or other necessary warning devices to protect operators of other vehicles on the highway during daytime and nighttime transport. Various safety lights and devices are available from your dealer.



When towing the unit on public roads, use flashing amber warning lights and a slow moving vehicle (SMV) identification emblem. Make sure the SMV placard is clearly visible to vehicles approaching from the rear.

Some localities prohibit the use of flashing amber lights. Local laws should be checked for all highway lighting and marking requirements.

Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc. Plan your route to avoid heavy traffic.

Be observant of bridge load restrictions. Do not cross bridges rated lower than the gross weight at which you are operating.



Loss of Control

A minimum of 20% of the combined tractor and equipment weight should be on the front wheels to ensure adequate stability during transport and operation. To avoid serious injury or death from a loss of control accident, maintain 20% weight on the front wheels. Add front end weight if necessary.

OPERATION SAFETY



WARNING



Crush Hazard (Rolling Over)

Do not clean, lubricate, or make adjustments while the unit is moving.



Never allow inexperienced or untrained personnel to operate the implement or tractor without supervision.



Enter And Exit Tractor

To avoid being run over, do not enter or exit tractor when it is moving. Avoid serious injury or death, from contact with rotating tires, by entering or exiting tractor only when it is completely stopped.



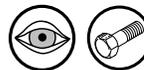
Safe Distance

Keep all bystanders, especially children, away from the tractor and implement during operation.

SAFETY INSTRUCTIONS



Periodically clear the unit of brush, twigs, or other materials to prevent buildup of dry, combustible materials.



Visually check all fasteners for tightness or damage before and after operation. Repair immediately if required.

Tractor Requirements



WARNING



Tractor Owner/Operator Manual

Always refer to the tractor Operator's Manual to ensure compatibility and maximum safety.

Be familiar with the location, settings, and function of the tractor controls before using this equipment.

SAFETY INSTRUCTIONS

Do not use a tractor of more than the recommended HP to prevent damaging implement components.

Tractor Safety Devices

If transporting or operating the tractor and implement near a public roadway, the tractor must be equipped with proper warning lighting and a Slow Moving Vehicle (SMV) emblem, which are clearly visible from the rear of the unit. Lights and a SMV emblem must be attached directly to the implement if the visibility of the tractor warning signals is obscured.

Never operate the tractor PTO with the PTO master shield missing or in the raised position.

ROPS and Seat Belt

The tractor must be equipped with a Roll Over Protective Structure (ROPS) (tractor cab or roll-bar) and seat belt to protect the operator from falling off the tractor, especially during a roll-over where the driver could be crushed and killed.

Only operate the tractor with the ROPS in the raised position and seat belt fastened.

WARNING



Rollover Hazard

To avoid serious injury or death from falling off tractor, equipment rollover, rollover, or crushing:

- 1) Use ROPS equipped tractor.
- 2) Keep ROPS locked in the UP position.
- 3) Only operate the equipment when seated in the tractor seat.
- 4) Always fasten seat belt when operating the tractor and Implement.

Connecting to Tractor

WARNING



Crush Hazard

Use care when attaching the unit to the tractor. Never place any part of your body under the tongue or hitch assembly. Do not allow anyone to stand between moving tractor and implement during hook-up operations.

MAINTENANCE SAFETY

WARNING



Use Properly Rated Tools

Use sufficient tools, jacks, and hoists that have the capacity for the job.



Crush Hazard

Use support blocks or safety stands rated to support the load when performing maintenance.

SAFETY INSTRUCTIONS

Follow all operating, maintenance, and safety instructions found in this manual.



Understand the service procedure before performing the work. Keep area clean and dry.



Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts.



Do not leave tools lying on the unit.



Do not modify unit or safety devices. Do not weld on the unit. Unauthorized modifications may impair its function and safety.

If equipment has been altered in any way from the original design, the manufacturer does not accept any liability for injury or warranty.



Never replace hex bolts with less than Grade 5 bolts unless otherwise specified. In locations where Grade 8 bolts are used, Grade 8 replacements are required.



Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore the unit to original specifications.

The manufacturer will not accept responsibility for damages as a result of the use of unapproved parts.

Bolt Torque Requirements

It is extremely important to apply and maintain proper torque on all bolts. Use a torque wrench to assure the proper amount of torque is being applied to the fastener.

Start all bolts or nuts by hand to prevent cross threading.

Torque figures indicated in the chart are used for non-greased or non-oiled threads unless otherwise specified. Therefore, do not grease or oil bolts or cap screws unless otherwise specified in this manual. When using locking elements, increase torque values by 5%.

The chart gives correct torque values for various bolts and cap screws. Tighten all bolts to the torques specified in the chart unless otherwise noted. Check tightness of bolts periodically, using the bolt torque chart as a guide. Always replace hardware with the same Grade bolt.

WARNING

Equipment Failure



The torque value for bolts and cap screws are identified by their head markings. Replacing higher "Grade" bolts (Grade 5) with lower Grade bolts will lead to equipment failure and can result in injury or death. Always use replacement bolts with the same Grade markings as the removed bolt.

Bolt Diameter	Bolt Torque Specifications			
	Grade 5		Grade 8	
	N·m	ft.lbs.	N·m	ft.lbs.
1/4"	12	9	17	12
5/16"	25	19	36	27
3/8"	45	33	63	45
7/16"	72	53	100	75
1/2"	110	80	155	115
9/16"	155	115	220	165
5/8"	215	158	305	220
3/4"	390	290	540	398
7/8"	570	420	880	650
1"	850	630	1320	970

Tire and Lug Torque Specifications

Tire Size	Ply Rating	Lug Size	Lug Torque (lb.ft.)
7.6 x 15	8 Ply	1/2"	80
9.5 x 15	8 Ply	1/2"	80
12.5 x 16	14 Ply	9/16"	70

Welding Repairs



Before performing any type of welding repair to the implement, contact T.G. Schmeiser Co., Inc. for approval. Repair welding must be done with care and with procedures that may be beyond the capabilities of the ordinary welder.

WARNING

Personal Injury Hazard



Repairs or modifications to the implement can result in serious injury or death should these repairs fail.

NOTICE

Anyone performing a welding repair should be certified in accordance to the American Welding Society (AWS) standards.

STORAGE SAFETY

WARNING



Hazard And Information Signs

Replace any missing or hard-to-read safety signs. Safety sign placement and part numbers can be found in the Nomenclature section of this manual.



Damaged Parts Hazard

Do not use this unit if it is in need of repair. If you believe the unit has a defect which could cause damage, injury, or death, you should immediately stop using the unit.

SAFETY INSTRUCTIONS



Store the implement in an area away from human activity.



Do not permit children to play on or around the stored unit at any time.



Block the wheels to prevent the implement from rolling.



When using compressed air to clean implement, wear safety glasses.

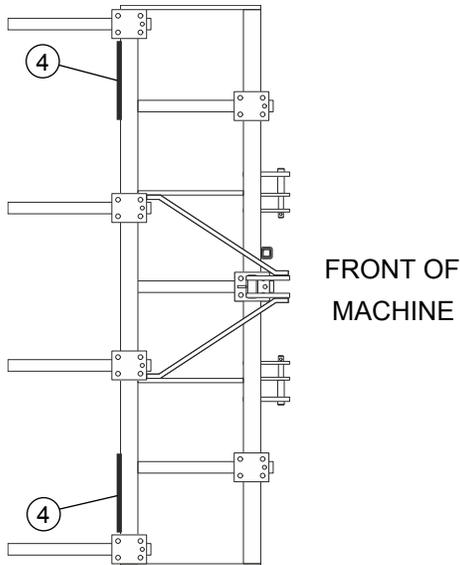


DISPOSAL OF EQUIPMENT AT END OF USEFUL LIFE

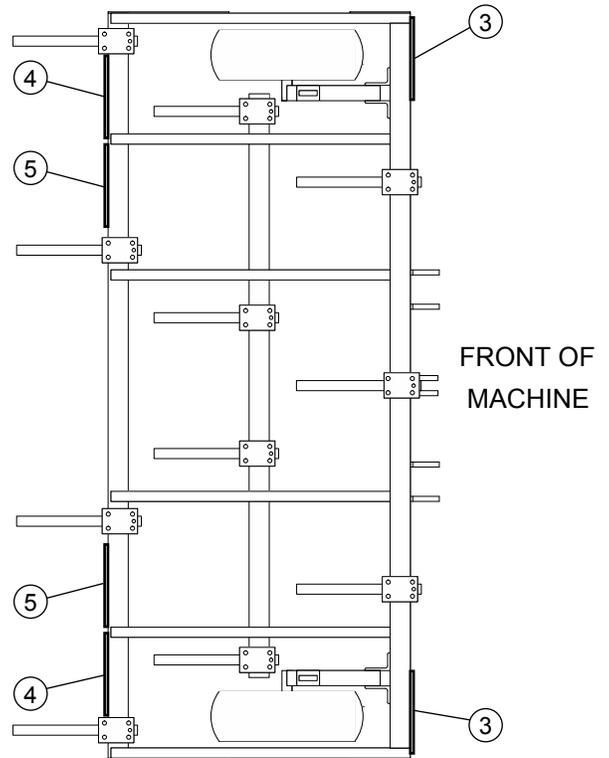
The T. G. Schmeiser implement has been designed for the specific purpose of conditioning the ground in agricultural applications. When this unit is no longer capable of doing its designed purpose, it should be dismantled and scrapped. Do not use any materials or components from this unit for any other purpose.

SAFETY LIGHTING AND MARKING

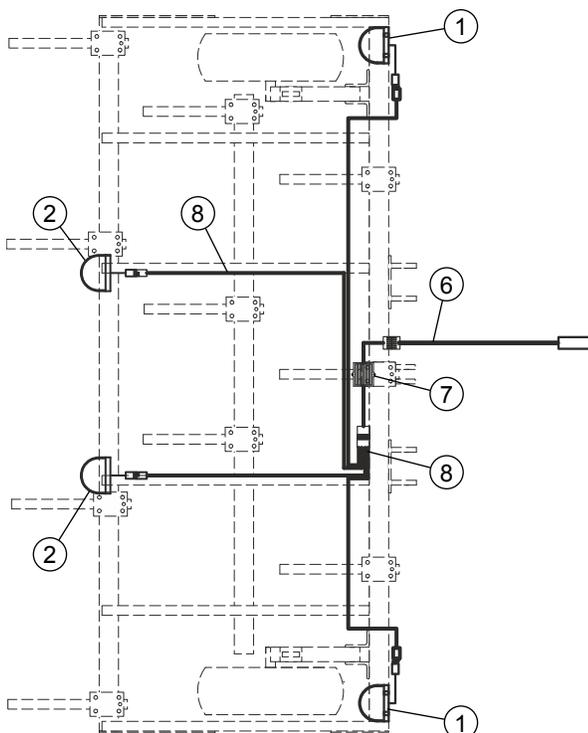
2-BAR CULTI PLOW



3-BAR HD CULTI PLOW



LIGHTING DIAGRAM (FOR 3-BAR HD CULTI-PLOWS)



##	Part Number	Description	Q'ty
1	GLT-LSDY	Lamp, Surface Mount Double Yellow	2
2	GLT-LSSR	Lamp, Surface Mount Single Red	2
3	D-2X9RY	Reflective Tape, Yellow	2
4	D-2X9RR	Reflective Tape, Red	2
5	D-2X9FL	Fluorescent Tape, Orange	2
6	GLT-HF07	Front Harness, 7 Ft. Long	1
7	GLT-FCM	Flasher Control Module	1
8	GLT-HW1024	Rear Wishbone Harness 10 Ft.-24 Ft.	1

SAFETY SIGNS AND DECALS

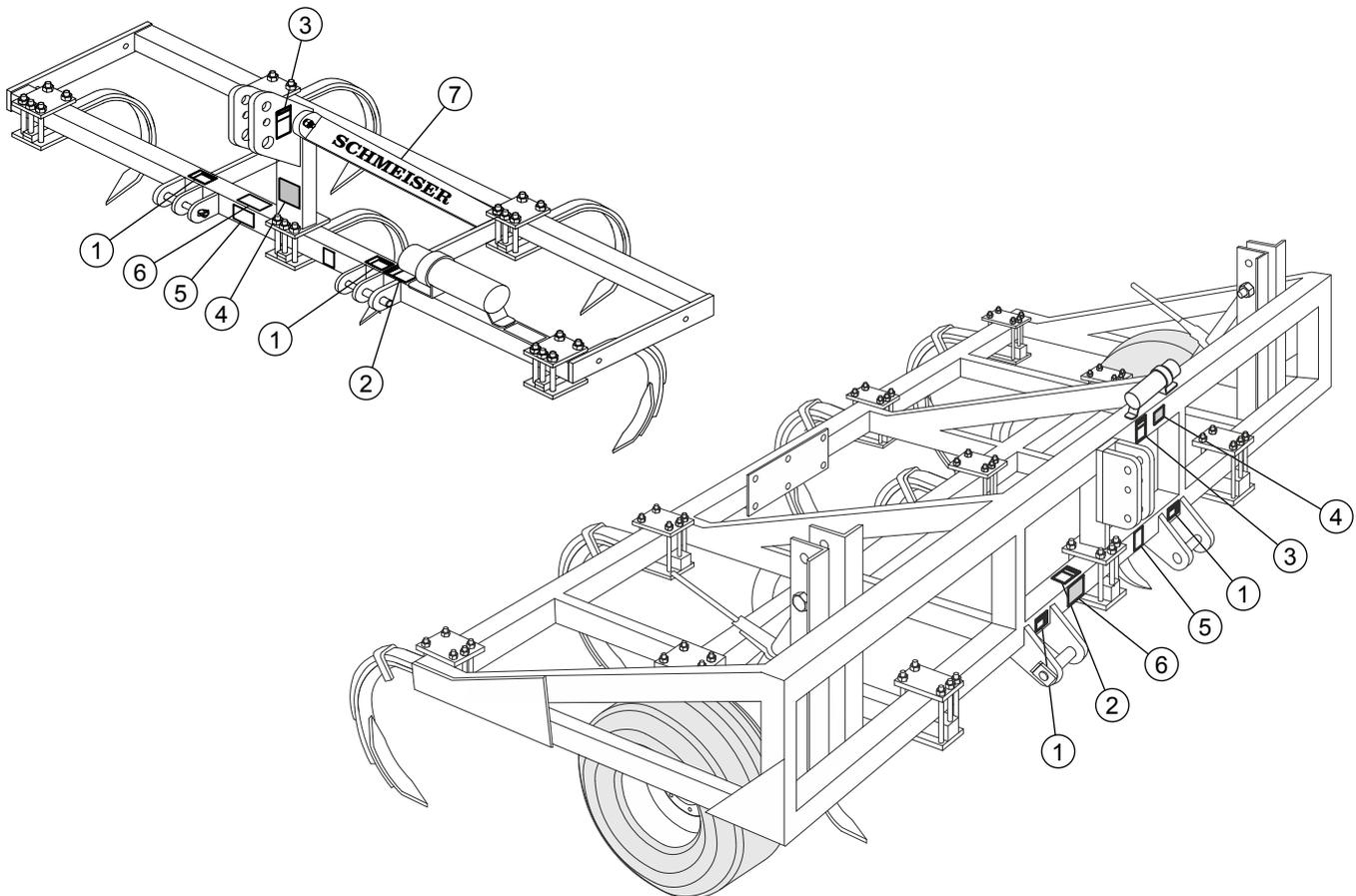
SAFETY INSTRUCTIONS

Follow all operating, maintenance, and safety Instructions found in this manual .

Replace all worn or damaged safety and instruction decals .

- It is the responsibility of the customer to know the marking requirements of the local highway authorities and to comply with the regulations.
- Keep safety signs clean and legible at all times. Replace safety signs that are missing or have become illegible.
- Do not paint over, remove, or deface any safety signs or instructional decals on your equipment. Observe all safety signs and follow the instructions on them.
- When parts that display a safety sign are replaced, the replacement part should display the same sign.
- Make sure the safety signs and other instructional decals are legible and attached to the unit before use.
- Safety signs are available from your Distributor, Dealer Parts Department, or the factory.
- Use care when washing or cleaning the unit not to remove or damage the labels.
- Locations for the labels and replacement part numbers are shown in this section.

SAFETY SIGN PLACEMENT



Safety Signs

Item	Part Number	Description	Qty.
1	D28X048PPT	Pinch Point	2
2	D48X038RTM	Read the Manual	1
3	D48X038CRR	Crush / Rollover Hazard	1
4	D48X48QR	Scan to Access Online Manual	1
5	—	FEMA	1
6	D32X048RBC	Made in the USA	1
7	D32X208TGS	Schmeiser (13")	4
	D-KIT-TP	TP Decal Kit (includes items 1, 2, and 3)	



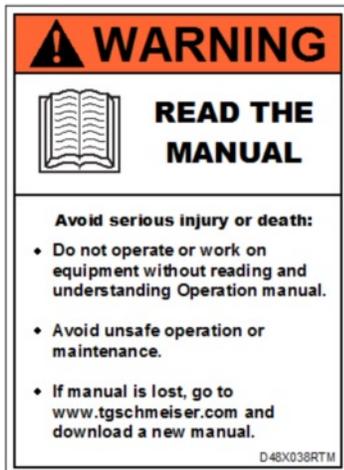
4.



1.



5.

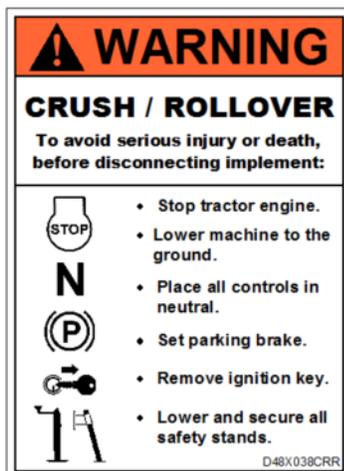


2.



6.

D32X048RBC



3.



7.

ASSEMBLY AND OPERATION



WARNING



Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.

Initial Setup Checklist

Efficient and safe operation of the implement requires that every user read and understand the operational instructions and all related safety instructions outlined in this manual.

This checklist is provided for the user/owner. It is important for both personal safety and to maintain the mechanical condition of the implement that this checklist is followed.

Initial Setup Checklist (prior to using for the first time)	
Location	Task
	Make sure the Implement is properly attached to the tractor. Refer to "Attaching to Tractor" on page 11.
	Make sure all hardware is properly installed and tightened. Refer to "Maintenance" on page 13.
	Check the condition of the shanks and points for wear.

Implement Break-In

Although there are no operational restrictions on the Implement when used for the first time, it is recommended that the following mechanical items be checked:

1. After 1/2 hour of operation:
 - a. Check all fasteners and tighten if necessary.
 - b. Make sure that the ring roller is in good condition.

2. After 10 hours of operation:
 - a. Go to the normal servicing and maintenance schedule, as defined in the Maintenance Section.

Connecting to the Tractor

Make sure the unit is resting on the ground with safety stand securely installed before attaching the unit to the tractor.

1. Remove the lynch pins and lift pins.
2. Board the tractor and start the engine. Position the tractor with the 3-point lift arms positioned at the same height and aligned with the Culti Plow hitch pin holes.

Note: Set the 3-point lift control to "Position Control" so that the lift arms maintain a constant height when attaching the Culti Plow. See the tractor Operator's Manual for correct settings when attaching 3-point equipment.

3. Turn off the tractor engine and dismount.
4. Insert the hitch pin through the lift arm and lug holes and install the lynch pin.
5. Walk around to the opposite side and repeat the procedure for the remaining lift arm and hitch pin.
6. Extend or retract the 3-point top link to align its end hole with the hole of the Culti Plow top link. Insert the top link hitch pin and insert the lynch pin into the hitch pin.
7. Return to the tractor and slowly raise the 3-point lift arms fully up and down to make sure the Culti Plow does not make contact with the tractor tire, draw bar, or any other equipment on the tractor.

NOTE: Move or remove the draw bar if it interferes with the implement.

8. Remove safety clip and securing pin on rear Safety Stand, raise Stand to storage position, and reinstall securing pin and safety clip.

Detaching From Tractor

1. Park the tractor, place the transmission in park or neutral, and apply the parking brake. Shut down the engine, relieve all hydraulic pressure, and remove the key before exiting the tractor.
2. Remove Culti Plow safety stand securing pin and lower the safety stand to in-use position. Lock in place with securing pin.
3. Lower the implement to the ground and make sure the safety stand makes full contact with the ground.
4. Extend or retract the tractor 3-point hitch top link to remove tension on the top link hitch pin. When the pin is loose and easy to rotate, remove the pin from the Culti Plow.
5. Disconnect the lift arms and drive the tractor away from the Culti Plow.

Ground Engaging Components

Shanks and Points

Visually inspect shanks and points for wear and damage. Replace any excessively worn or damaged items.



MAINTENANCE



WARNING



Understand Safety Procedures!

Read and understand all safety procedures described in this manual before performing any work on or around the implement.

Service Items

Tires (Optional) - 3-Bar Heavy Duty Culti Plow

Check tire pressure and set to tire manufacturer's recommended specifications. Inspect the tires for wear and/or damage. Make sure the wheel lugs are tightened to the proper torque.





Maintenance Schedule

The period recommended is based on normal operating conditions. Severe or unusual conditions may require more frequent service.

Copy this page to continue the record.

Hours and Served By																				
Maintenance																				
Before Each Use																				
Ensure that all fasteners are tight, and all pins are secured in place.																				
Inspect the frame for structural fractures.																				
Make sure all warning decals are in place and legible.																				
Check shanks and points for wear and damage. Replace if necessary.																				
Lubricate zerk fittings on turnbuckles with a good general purpose grease (Optional gauge wheels).																				
Every 50 Hours or Weekly																				
Perform the Daily Maintenance schedule.																				
Lubricate zerk fittings on turnbuckles with a good general purpose grease (Optional gauge wheels).																				
Check tire pressure and set to tire manufacturer's recommended specifications. Inspect the tires for wear and/or damage. Make sure the wheel lugs are tightened to the proper torque. Refer to "Tire and Lug Torque Specifications" on page 12 (Optional gauge wheels).																				
Every 1000 Hours or Annually																				
Perform the Daily Maintenance schedule.																				
Perform the Weekly Maintenance schedule.																				
Lubricate zerk fittings on the optional gauge wheel bearing hubs with a good quality wheel bearing grease. Fill each cavity just until resistance is felt. Do not force grease past the seals.																				
Remove debris and clean the entire implement with compressed air or a pressure washer.																				
Remove rust and apply a coat of paint to frame surfaces																				

STORAGE

Storage Preparation

After Culti Plow field work is completed for a season, perform the following maintenance procedures before storing the implement.

1. Check all bolted connections. Ensure that the fasteners are tight, and all retaining pins are secured in place with appropriate retaining clips.
2. Check the tire pressure and set to the tire manufacturer's recommended specification. Inspect the tires for wear and/or damage. Make sure the wheel lugs are properly tightened. Refer to "Tire and Lug Torque Specifications" on page 12 (Optional gauge wheels).
3. Inspect the frame for structure fractures and inspect the side wing pivot points for wear or damage.
4. Check all shanks and points for wear and damage. If any items are excessively worn or damaged, they must be replaced.
5. Make sure all the warning decals are in place and legible. Replace any worn decals as needed.
6. Remove debris and clean the entire implement with compressed air or low pressure water.

NOTICE

To help prevent damage, avoid spraying air, water, steam, or cleaning solvents directly at the bearings and seals.

7. Add grease to the fittings on the gauge wheel bearing hubs with a good quality wheel bearing grease. Fill each cavity just until resistance is felt. Do not force grease past the seals (Optional gauge wheels).
8. Apply a thin layer of grease or rust preventative to all exposed metal surfaces of the cylinder rods.
9. To help prevent corrosion, remove rust and apply a coat of paint to frame surfaces where paint has been worn off or damaged.

Placing in storage

1. Move the Culti Plow to a storage area with a firm and level base to prevent it from tipping or sinking into the ground. For best results, always store the Culti Plow in a dry, protected location. Leaving this implement unprotected will shorten the service life.

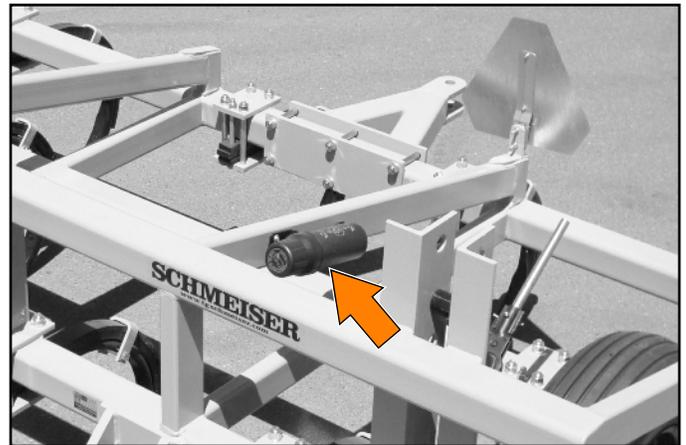
2. Lower safety stand (if equipped), secure it in place with locking pin, and unhitch the implement from the tractor. Refer to "Detaching From Tractor" on page 17.
3. Store the implement with the storage lockouts secured in place. Do not leave the tractor attached to the implement while in storage.

Removing From Storage

Each season, perform the following inspection and maintenance before using the unit.

1. Read the operator's manual to review all safety, operational, and maintenance procedures.

NOTE: Store the operator's manual in the document storage canister located on the main frame.



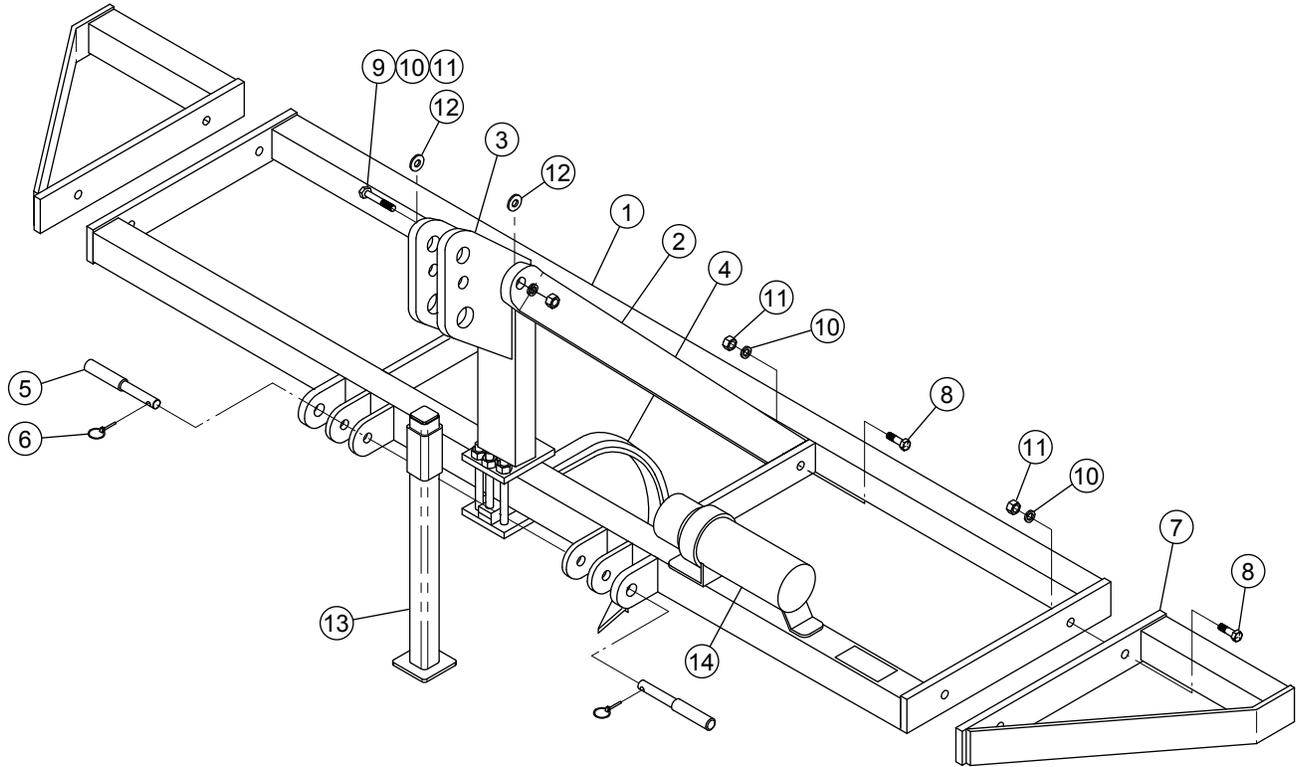
2. Perform any recommended maintenance that was not completed when the implement was put into storage.
3. Visually inspect the implement for wear or damage.
4. Check the tire pressure and set to the tire manufacturer's recommended specification. Inspect the tires for wear and/or damage (Optional gauge wheels).
6. Make sure all the warning decals are in place and legible. Replace any damaged or missing decals.
7. Hitch the implement to a tractor. Refer to "Connecting to Tractor" on page 16.

Ordering Parts

We manufacture a quality product that requires very little maintenance or repair. However, should a part break or become damaged, our knowledgeable staff can make sure you receive the part(s) to put your unit back into operation.

Parts Drawings

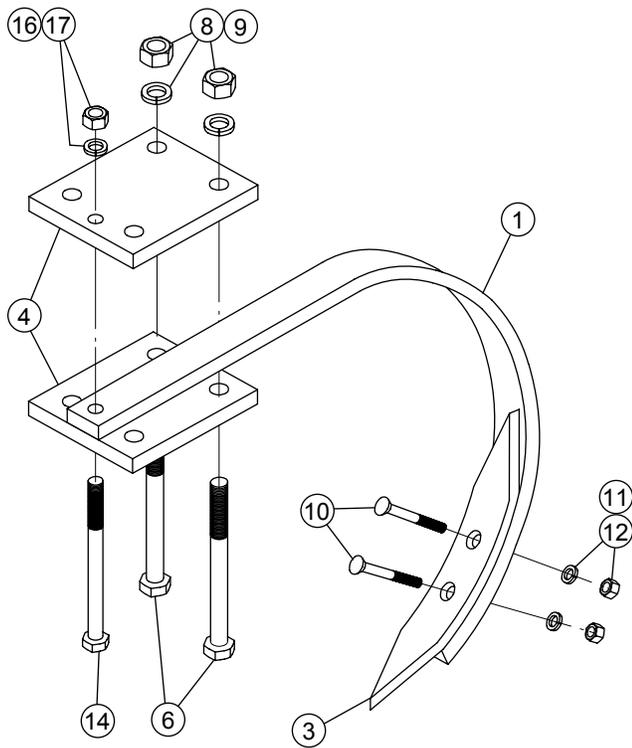
2-Bar Culti-Plow Assembly



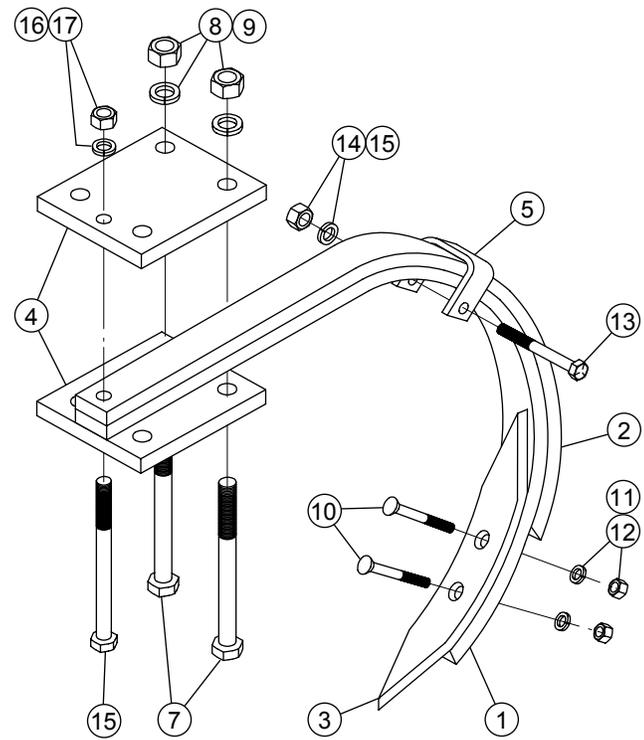
Item	Part Number	Description	Qty
1	SCP-00B000	3-Pt. Culti Plow Main Frame (specify size)	1
2	SCP-00A400	A-Frame Brace QH	2
3	SCP-00A300	3-Pt. Culti Plow A-Frame Mast QH	1
4	-----	Shank Assembly (see p. for details)	Varies
5	GPN-18CA12	CA 1 & 2 Pull Pin	2
6	GPN-040LYN	1/4" Lynch Pin	2
7	SCP-01EX00	1 Ft. Extension Frame (Optional)	2
8	CSNC512040	3/4" X 2-1/2" NC Gr.5 Cap Screw	2 or 6*
9	CSNC512104	3/4" X 6-1/2" NC Gr.5 Cap Screw	1
10	LWASHER-12	3/4" Lock Washer	3 or 7*
11	HXNUT-12NC	3/4" NC Hex Nut	3 or 7*
12	FWASHER-12	3/4" Flat Washer	2
13	SCP-00D200	Safety Stand	1
14	OMC-1	Owner Manual Canister	1

2-Bar Culti-Plow Shank Assembly

SINGLE SHANK (all CP1 models)



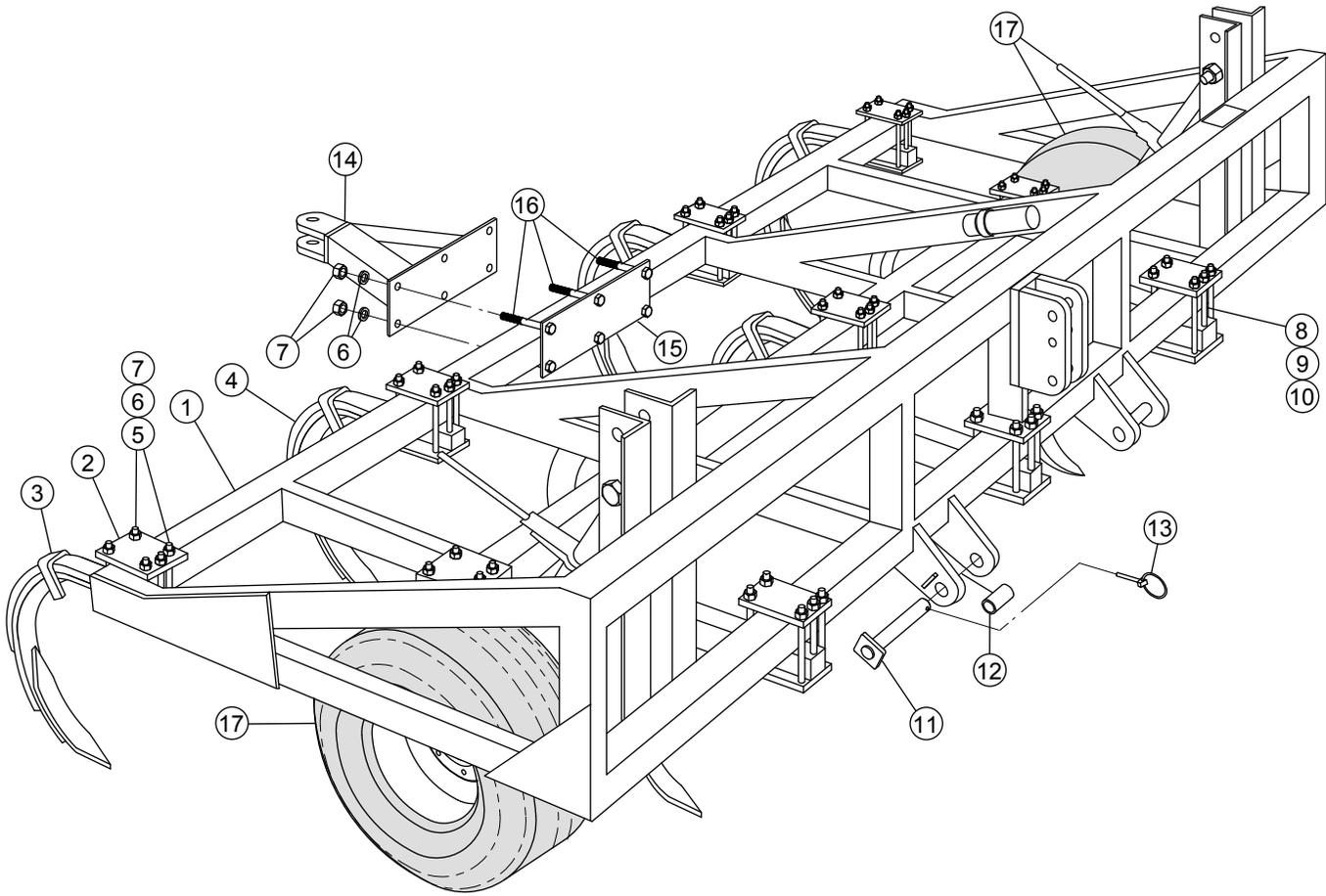
DOUBLE SHANK (all CP3 models)



Item	Part Number	Description	Q'ty / Shank Ass'y CP1	Q'ty / Shank Ass'y CP3
1	SCP0702	Shank, Chisel F-9	1	1
2	SCP0703	Shank, Chisel B-8	-	1
3	SCP0721	Chisel Point, Regular	1	1
4	SCP0603	Culti Plow Frame Clamp Plate	2	2
5	SCP0661-01	3-1/2" Tie Clamp Plate	-	1
6	CSNC512104	3/4" X 6-1/2" NC Gr.5 Cap Screw	4	-
7	CSNC512112	3/4" X 7" NC Gr.5 Cap Screw	-	4
8	LWASHER-12	3/4" Lock Washer	4	4
9	HXNUT-12NC	3/4" NC Hex Nut	4	4
10	PBNC-08040	1/2" X 2-1/2" NC Plow Bolt	2	2
11	LWASHER-08	1/2" Lock Washer	2	2
12	HXNUT-08NC	1/2" NC Hex Nut	2	2
13	CSNC510056	5/8" X 3-1/2" NC Gr.5 Cap Screw	-	1
14	CSNC510104	5/8" X 6-1/2" NC Gr.5 Cap Screw	1	-
15	CSNC510112	5/8" X 7" NC Gr.5 Cap Screw	-	1
16	LWASHER-10	5/8" Lock Washer	1	2
17	HXNUT-10NC	5/8" NC Hex Nut	1	2
	SCP0645	Culti Plow Shank Clamp Assembly (includes items 4, 6-8, 13-15)		
	SCP0661	3-1/2" Tie Clamp Assembly (includes items 5, 12, 14, 15)		

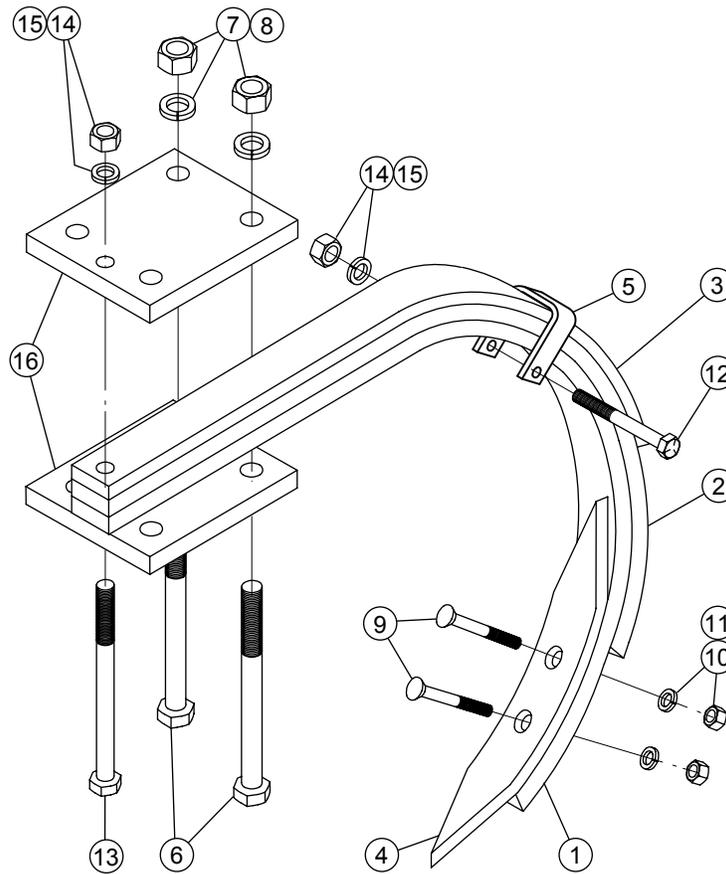
NOTE: See page 25 for all shank components quantities.

3-Bar Culti-Plow Assembly



Item	Part Number	Description	Qty
1	HCP-00P000	HD Culti Plow Main Frame (specify size)	1
2	SCP0604	HD Culti Plow Frame Clamp Plate	varies
3	SCP0661-01	3-1/2" Tie Clamp Plate	varies
4	-----	Triple Shank Assembly (see p. for details)	varies
5	CSNC512144	3/4" X 9" NC Gr.5 Cap Screw	varies
6	LWASHER-12	3/4" Lock Washer	varies
7	HXNUT-12NC	3/4" NC Hex Nut	varies
8	CSNC510144	5/8" X 9" NC Gr.5 Cap Screw	varies
9	LWASHER-10	5/8" Lock Washer	varies
10	HXNUT-10NC	5/8" NC Hex Nut	varies
11	HCP-00P500	HD Culti Plow Pull Pin	2
12	GBH-C23L01	CA 2-3 Lift Arm Bushing	2
13	GPN-040LYN	1/4" Lynch Pin	2
14	HCP-00P200	HD Culti Plow Trail Hitch (Optional)	1
15	HCP-00P206	HD Culti Plow Trail Hitch Clamp Plate	1
16	CSNC512096	3/4" X 6" NC Gr.5 Cap Screw	6
17	HCPGW	HD Culti Plow Gauge Wheel Assembly (Optional) - see p. for details.	1

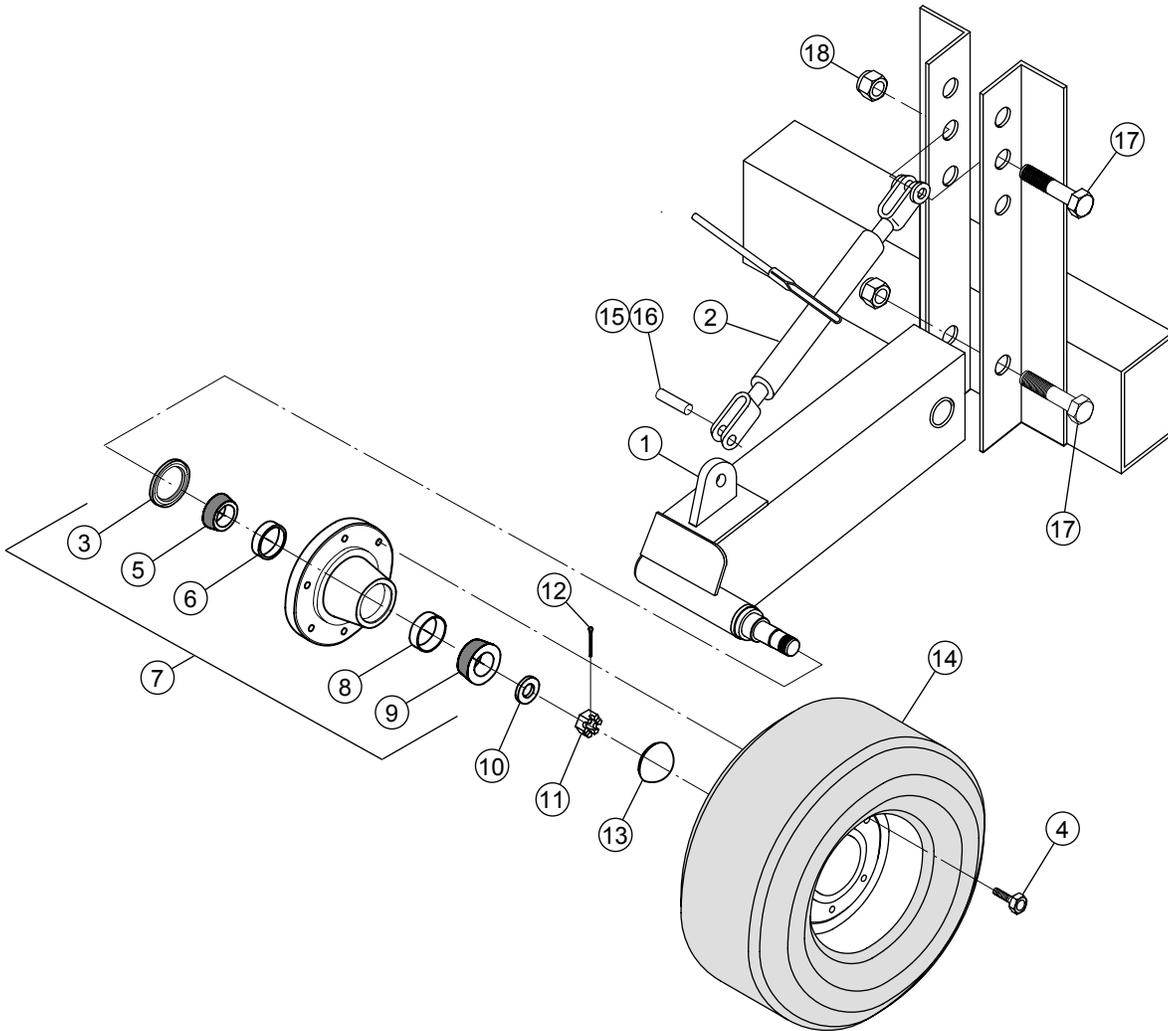
3-Bar Culti-Plow Shank Assembly (Triple Shank)



Item	Part Number	Description	Q'ty / Shank Ass'y
1	SCP0702	Shank, Chisel F-9	1
2	SCP0703	Shank, Chisel B-8	1
3	SCP0704	Shank, Chisel T-8	1
4	SCP0721	Chisel Point, Regular	1
5	SCP0663-01	4-1/2" Tie Clamp Plate	1
6	CSNC512144	3/4" X 9" NC Gr.5 Cap Screw	4
7	LWASHER-12	3/4" Lock Washer	4
8	HXNUT-12NC	3/4" NC Hex Nut	4
9	PBNC-08040	1/2" X 2-1/2" NC Plow Bolt	2
10	LWASHER-08	1/2" Lock Washer	2
11	HXNUT-08NC	1/2" NC Hex Nut	2
12	CSNC510064	5/8" X 4" NC Gr.5 Cap Screw	1
13	CSNC510144	5/8" X 9" NC Gr.5 Cap Screw	1
14	LWASHER-10	5/8" Lock Washer	2
15	HXNUT-10NC	5/8" NC Hex Nut	2
16	SCP0604	HD Culti Plow Frame Clamp Plate	2
	SCP0645	Culti Plow Shank Clamp Assembly (includes items 4, 6-8, 13-15)	
	SCP0661	3-1/2" Tie Clamp Assembly (includes items 5, 12, 14, 15)	

NOTE: See page 25 for all shank components quantities.

3-Bar Culti-Plow Gauge Leg Assembly (Optional)



Item	Part Number	Description	Qty
1	HCP-00P100L	Gauge Leg LH	1
	HCP-00P100R	Gauge Leg RH	1
2	HCP-00P300	HD Culti Plow Ratchet	2
3	GHB-6X6GSL	Grease Seal	2
4	WHB-08X016	1/2" X 1" UNF Wheel Bolts for 6 on 6 Std. Hub	12
5	GHB-6X6ICN	Inner Bearing Cone for 6 on 6 Std. Hub	2
6	GHB-6X6IRC	Inner Bearing Cup for 6 on 6 Std. Hub	2
7	GHB-6X6STD	Standard 6 on 6 Hub Assembly (includes items 3, 4, 5, 6, 8, 9, 13)	2
8	GHB-6X6ORC	Outer Bearing Cup for 6 on 6 Std. Hub	2
9	GHB-6X6OCN	Outer Bearing Cone for 6 on 6 Std. Hub	2
10	GSP-14SPWA	Spindle Washer	2
11	GSP-14CANT	Spindle Castle Nut	2
12	GPN-03X32C	3/16" X 2" Cotter Pin	2
13	GHB-6X6CAP	Hub Cap	2
14	GWT-951508	9.5 X 15 8 Ply Tire with Wheel Assembly	2
15	GPN-1656HC	1" X 3-1/2" Cylinder Pin	2
16	GPN-03CLIP	5/32" Hair Pin Clip	4
17	CSNC520088	1-1/4" X 5-1/2" NC Gr.5 Cap Screw	4
18	NYNUT-20NC	1-1/4" Nylon Lock Hex Nut	4



Culti Plow Shank Quantities

CP1

Ref.#	Part Number	Description	Qty.				
			4'	5'	6'	7'	8'
1.	SCP0702	Shank, Chisel F-9	5	5	5	7	7
2.	SCP0721	Chisel Point, Regular	5	5	5	7	7
3.	SCP0603	Culti Plow Frame Clamp Plate	9	9	9	13	13
4.	PBNC-08040	1/2" X 2-1/2" NC Plow Bolt	10	10	10	14	14
5.	LWASHER-08	1/2" Lock Washer	10	10	10	14	14
6.	HXNUT-08NC	1/2" NC Hex Nut	10	10	10	14	14

CP3

Ref.#	Part Number	Description	Qty.				
			4'	5'	6'	7'	8'
1.	SCP0702	Shank, Chisel F-9	5	5	5	7	7
2.	SCP0702	Shank, Chisel B-8	5	5	5	7	7
3.	SCP0721	Chisel Point, Regular	5	5	5	7	7
4.	SCP0603	Culti Plow Frame Clamp Plate	9	9	9	13	13
5.	SCP0661-01	3-1/2" Tie Clamp Plate	5	5	5	7	7
6.	PBNC-08040	1/2" X 2-1/2" NC Plow Bolt	10	10	10	14	14
7.	LWASHER-08	1/2" Lock Washer	10	10	10	14	14
8.	HXNUT-08NC	1/2" NC Hex Nut	10	10	10	14	14

HCP

Ref.#	Part Number	Description	Qty.					
			10'	12'	14'	16'	18'	20'
1.	SCP0702	Shank, Chisel F-9	9	11	13	15	17	19
2.	SCP0702	Shank, Chisel B-8	9	11	13	15	17	19
3.	SCP0704	Shank, Chisel T-8	9	11	13	15	17	19
4.	SCP0721	Chisel Point, Regular	9	11	13	15	17	19
5.	SCP0604	Culti Plow Frame Clamp Plate	17	21	25	29	33	37
6.	SCP0663-01	4-1/2" Tie Clamp Plate	9	11	13	15	17	19
7.	PBNC-08040	1/2" X 2-1/2" NC Plow Bolt	18	22	26	30	34	38
8.	LWASHER-08	1/2" Lock Washer	18	22	26	30	34	38
8.	HXNUT-08NC	1/2" NC Hex Nut	18	22	26	30	34	38

LIMITED WARRANTY STATEMENT

T.G. Schmeiser Co., Inc.

P.O. Box 1392 – Selma, CA 93662

Phone (559) 268-8128 Fax (559) 268-3279

T. G. Schmeiser Co., Inc. warrants each new Schmeiser® product to be free from defects in material and workmanship. This warranty is applicable only for the normal service life expectancy of the product or components, not to exceed twelve (12) consecutive months from the date of delivery of the new Schmeiser product to the original purchaser.

Genuine T. G. Schmeiser Co., Inc. replacement parts and components will be warranted for 90 days from date of purchase, or the remainder of the original equipment warranty period, whichever is longer.

Under no circumstances will it cover any merchandise or components thereof, which, in the opinion of the company, has been subjected to misuse, unauthorized modifications, alteration, an accident or if repairs have been made with parts other than those obtainable through T. G. Schmeiser Co., Inc.

The Company in no way warrants engines, batteries, cylinders, tires or other trade accessories since these items are warranted separately by their respective manufacturer. Expendable components such as points, shanks, blades, rings, bearings, teeth, and the like are excluded from this warranty.

Our obligation under this warranty shall be limited to repairing or replacing, free of charge to the original purchaser, any part that, in our judgment, shall show evidence of such defect, provided further that such part shall be returned within thirty (30) days from date of failure to T. G. Schmeiser Co., Inc., routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid.

This warranty shall not be interpreted to render T. G. Schmeiser Co., Inc. liable for injury or damages of any kind or nature to person or property. This warranty does not extend to the loss of crops, loss because of delay in harvesting, or any expense or loss incurred for labor, substitute machinery, rental or for any other reason.

Except as set forth above, T. G. Schmeiser Co., Inc. shall have no obligation or liability of any kind on account of any of its equipment and shall not be liable for special or consequential damages. T. G. Schmeiser Co., Inc. makes no other warranty, expressed or implied, and, specifically, T. G. Schmeiser Co., Inc. disclaims any implied warranty or merchantability or fitness for a particular purpose. Some states or provinces do not permit limitations or exclusions of implied warranties or incidental or consequential damages, so the limitations or exclusion in this warranty may not apply.

This warranty is subject to any existing conditions of supply, which may directly affect our ability to obtain materials or manufacture replacement parts.

T. G. Schmeiser Co., Inc. reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligation to owners of units previously sold.

No one is authorized to alter, modify or enlarge this warranty nor the exclusion, limitations and reservations.

**WARRANTY VOID IF NOT REGISTERED
WITHIN 30 DAYS OF PURCHASE DATE**



P.O. Box 1392
Selma, CA 93662
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