

**SPECIAL
10" X 12' AUGER**

MADE EXCLUSIVELY FOR

BURROWS ENTERPRISES



USED WITH

**ROTO GRIND
GRAIN GRINDERS**

**Owner / Operator Manual
& Parts Book**

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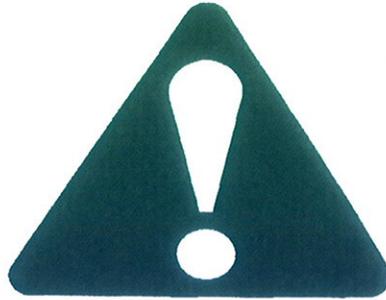
**THE SYMBOL SHOWN BELOW IS USED TO
CALL YOUR ATTENTION TO
INSTRUCTIONS CONCERNING YOUR
PERSONAL SAFETY**



BE ALERT !

Your Safety Is Involved

SAFETY ALERT SYMBOL



Why is SAFETY so important to you?

3 Big Reasons

Accidents Can Be Avoided

Accidents Disable And Kill

Accidents Are Costly

This safety alert symbol appears in this manual and on decals. It is used to draw your attention to the possibility of personal injury or loss of life. We **urge** you to follow all safety instructions. Be alert to safety issues at **all** times!

In addition you will see the use of **signal words** with the safety messages. The appropriate signal word for each message has been selected using the following guide-lines:



DANGER: Indicates an immediate hazardous situation which, if not avoided, will result in death or serious injury.



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.

IMPORTANT: Indicates that equipment or property damage could result if instructions are not followed.

NOTE: Gives helpful information.

Read and understand this manual before operating. It is the owner's responsibility to be certain anyone operating this product reads this manual, and other applicable manuals, to become familiar with this equipment and all safety precautions. Failure to do so could result in serious personal injury or equipment damage. If you have any questions, consult your dealer.

SAFETY

YOU are responsible for the safe operation and maintenance of the Sheyenne Auger Component to your Mixer Grinder. YOU must ensure that you and anyone else who is going to operate, maintain or work around the Auger be familiar with the operating and maintenance procedures and related Safety information contained in this manual. This manual will take you step-by-step through your working day and alerts you to all good safety practices that should be adhered to while operating the Auger.

Remember, YOU are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that EVERYONE operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

* Auger owners must give operating instructions to operators or employees before allowing them to operate the Auger, and at least annually thereafter per OSHA (Occupational Safety and Health Administration) regulation 1928.57.

* The most important safety device on this equipment is a safe operator. It is the operators responsibility to read and understand All Safety \ and Operating instructions in the manual and to follow them. All accidents can be avoided.

* A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.

- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.

GENERAL SAFETY

1. Read and understand the Operator's Manual before operating, maintaining or adjusting the Auger.



2. Only trained competent persons shall operate the Auger. An untrained operator is not qualified to operate this machine.

3. Have a first-aid kit available for use should the need arise and know how to use it.



4. Do not allow children, spectators or bystanders within hazard area of machine.

5. Wear appropriate protective gear. This list includes but is not limited to:

- A hard hat,
- Protective shoes with slip resistant soles
- Protective goggles
- Heavy gloves
- Hearing protection
- Respirator or filter mask



6. Stop the engine, place all controls in neutral, set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing, or unplugging.

7. Review safety related items annually with all personnel who will be operating or maintaining the Auger.

8. Have another person nearby who can shut down the auger in case of an accident. It is good practice to always work with a second person around augers.

MAINTENANCE SAFETY

1. Review the Operator's Manual and all safety items before working with, maintaining or operating the Auger.

2. Stop the engine, place all controls in neutral set park brake, remove ignition key and wait for all moving parts to stop before servicing, adjusting, repairing or unplugging.

3. Follow good shop practices:

-Keep service area clean and dry.

-Be sure electrical outlets and tools are properly grounded.

-Use adequate light for the job at hand.



4. Before applying pressure to a hydraulic system, make sure all components are tight and that hoses and couplings are in good condition.

5. Relieve pressure from hydraulic circuit before servicing or disconnecting from tractor.

6. Keep hands, feet, hair and clothing away from all moving and/or rotating parts.

7. Clear the area of bystanders, especially children, when carrying out any maintenance and repairs or making adjustments,

8. Place stands or blocks under the frame before working beneath the machine.

9. Before resuming work, install and secure all guards when maintenance work is completed.

10. Keep decals clean. Replace any decal that is damaged or not clearly visible.

Think SAFETY !

Work Safely !

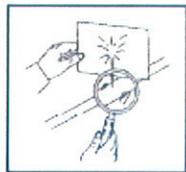
HYDRAULIC SAFETY

1. Always place all tractor hydraulic controls in neutral before disconnecting from tractor or working on hydraulic system.
2. Make sure that all components in the hydraulic system are kept in good condition and are clean.
3. Replace any worn, cut, abraded, flattened or crimped hoses.
4. Do not attempt any makeshift repairs to the hydraulic fittings or hoses by using tape, clamps or cements. The hydraulic system operates under extremely high-pressure. Such repairs will fail suddenly and create a hazardous and unsafe condition.

5. Wear proper hand and eye protection when searching for high-pressure hydraulic leak.



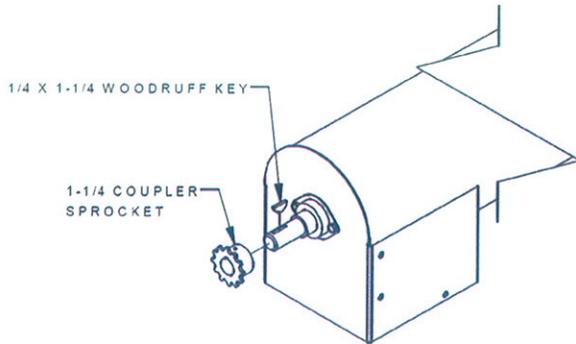
Use a piece of wood or cardboard as a backstop instead of hands to isolate and identify a leak.



6. If injured by a concentrated high-pressure stream of hydraulic oil, seek medical attention **immediately**. Serious infection or toxic reaction can develop from hydraulic fluid piercing the skin surface.

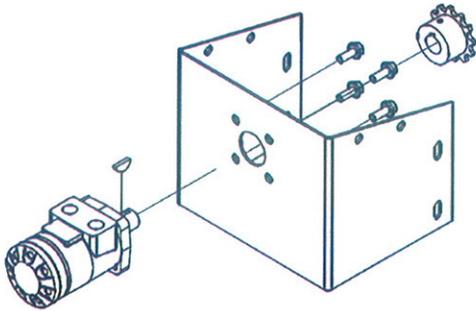
HYDRAULIC MOTOR MOUNT ASSEMBLY INSTRUCTIONS

STEP 1



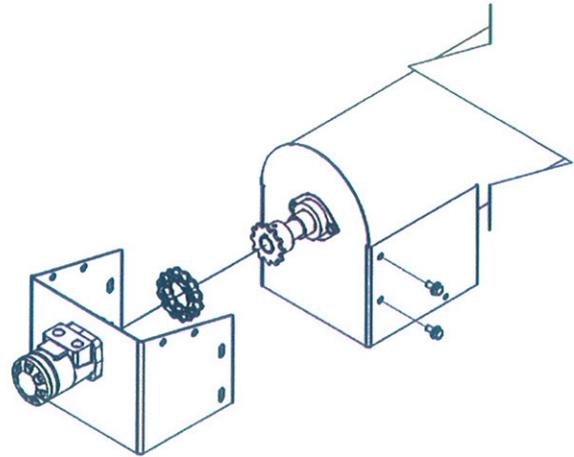
Install the 1/4X 1-1/4 woodruff key and 1-1/4" coupler sprocket on the end of the auger shaft. Secure sprocket to shaft with set screw supplied with sprocket.

STEP 2



Use four 3/8 x 1 serrated flange bolts to mount the hydraulic motor to mount bracket. Install and secure coupler sprocket on the motor shaft using the key supplied with the motor and set screw supplied with sprocket.

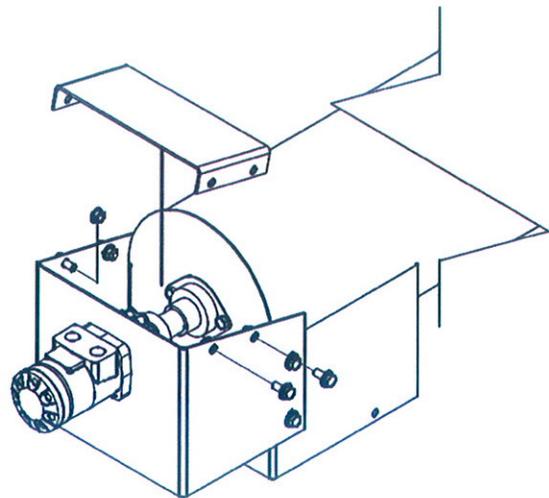
STEP 3



Attach the hydraulic motor and bracket assembly to auger head assembly using four 3/8 x 3/4 serrated flange bolts and nuts. Install coupler chain.

IMPORTANT: Do not tighten the bracket mounting bolts until after coupler chain is connected. Make sure the motor shaft and the auger shaft are aligned axially. Tighten the four mounting bolts.

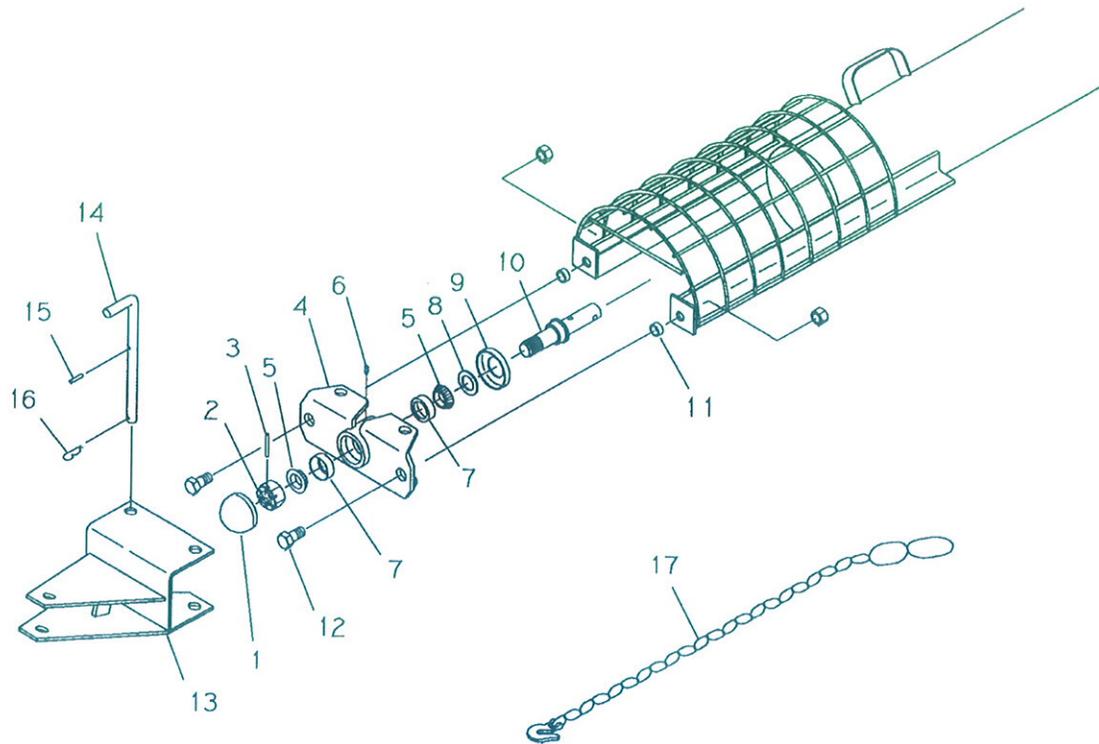
STEP 4



Assemble the top brace for the motor mount bracket using four 3/8 x 3/4 serrated flange bolts and nuts.

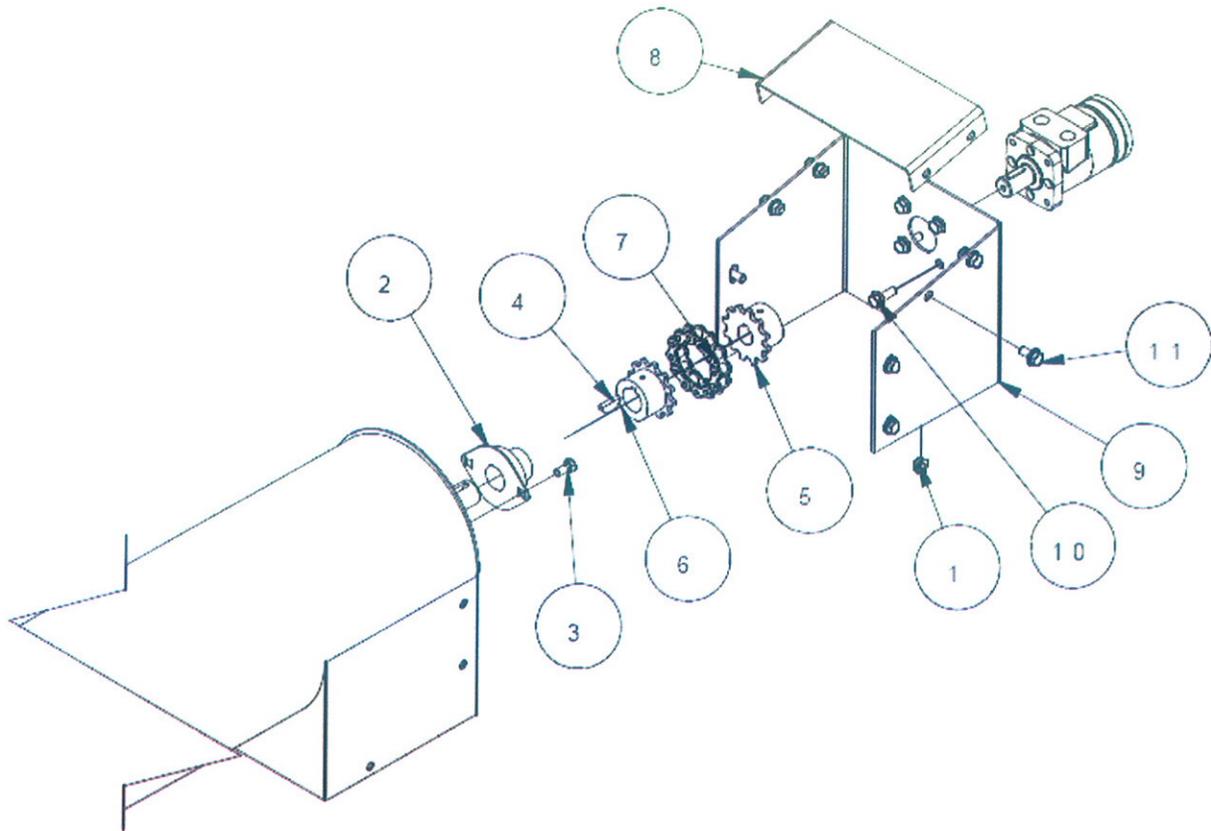
PARTS

SECTION



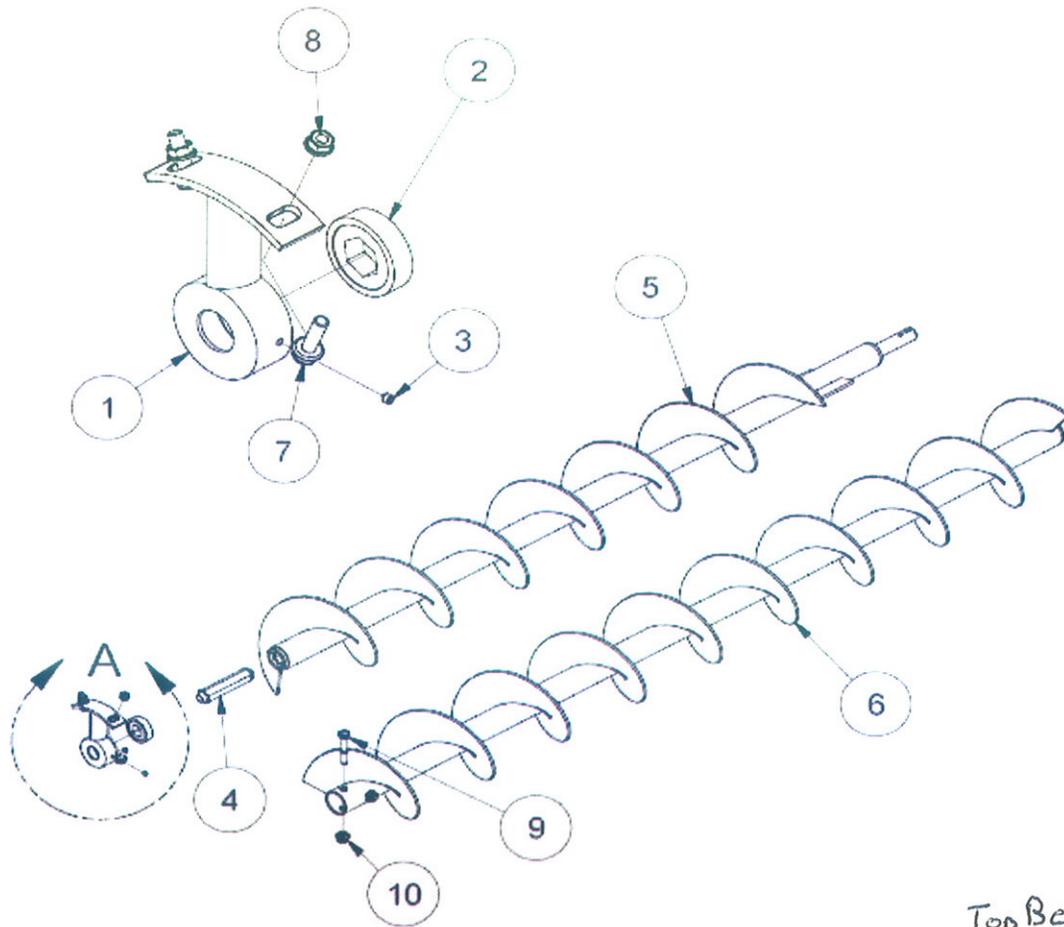
INTAKE END COMPONENTS

ITEM	PART NO.	DESCRIPTION	QTY
1	905-09009	Dust Cap	1
2	900-06066	1-1/4" Slotted Hex Nut	1
3	900-29182	1/4" x 2" Roll Pin	1
4	100-2-1916	Hitch Mount Weldment (8" auger)	1
	100-2-1917	Hitch Mount Weldment (10" auger)	1
5	901-01015	Bearing Cone	2
6	905-15024	Zerk, 1/4"-28 UNF	1
7	901-01016	Bearing Cup	2
8	901-09203	Seal	1
9	100-3-3492	Cap	1
10	100-3-3848	Shaft, (8" GS15) 1-1/4" diameter	1
	100-3-3486	Shaft, (10" GS15, 8" GS20) 1-3/4" diameter	1
	100-3-3487	Shaft, (10"GS20)	1
11	100-3-3898	Spacer	2
12	900-01403	3/4" NC x 2" Hex Bolt	2
13	100-2-1911	Hitch Weldment	1
14	100-3-3500	Hitch Pin	2
15	900-29176	1/4" x 1-1/4" Roll Pin	2
16	900-25005	5/32" Hair Pin Cotter	2
17	905-07111	Tow Chain, 6000 Lb.	1
	100-2-2587	Hitch Mount Assembly, (8" GS15) (Ref. 1-10)	1
	100-2-2588	Hitch Mount Assembly, (10" GS15) (Ref. 1-10)	1
	100-2-1912	Hitch Mount Assembly, (8" GS20) (Ref. 1-10)	1
	100-2-1913	Hitch Mount Assembly, (10" GS20) (Ref. 1-10)	1
	100-2-1910	Pin Assembly (Ref. 14,15)	2



HYDRAULIC DRIVE COMPONENTS

Parts List			
Item	Part Number	Description	Qty
1	900-06139	3/8 NC Serrated Flange Nut	12
2	901-01101	1-1/4 Economount Bearing	1
3	900-01105	3/8 NC X 3/4 Grade 5 Hex Bolt	2
4	900-27033	1/4 X 1-1/4 Woodruff Key # 810	1
5	903-05044	Coupler Sprocket, 1" 6012	1
6	903-05043	Coupler Sprocket 1-1/4" 6012	1
7	903-03147	Coupler Chain, Double 60-2 X 12	1
8	100-3-2325	Brace	1
9	100-3-2331	Motor Mount Bracket	1
10	900-03438	3/8 NC X 1" Serrated Flange Bolt, Grade 5	4
11	900-03436	3/8 NC D 3/4 Serrated Flange Bolt , Grade 5	8



Top Bearing
#901-01101

HELICOID COMPONENTS (BURROWS SPEC)

Parts List			
Item	Part Number	Description	Qty
1	100-2-2833	Hanger Bearing, Welded Assembly	1
2	901-01121	1-1/8" Hex Bearing	1
3	900-17193	1/4 X 5/16 Socket Set Screw Cone Point	2
4	100-3-2396	Hex Shaft 1-1/8"	1
5	100-2-2912	Top Helicoid	1
6	100-2-2916	Bottom Helicoid	1
7	900-03439	3/8 NC X 1-1/4 Serrated Flange Bolt, Grade 5	2
8	900-06139	3/8 NC Serrated Flange Nut	2
9	900-01237	1/2 NC X 3 Hex Bolt, Grade 5	2
10	900-06143	1/2 NC Serrated Flange Nut	1
"A"	100-2-1311	Hanger Bearing Assembly	1

BURROWS

100-3-4120
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