OPERATOR'S MANUAL

GRINDER MIXER

GX1117





HSMFG0409 5HPOMGX1

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WARRANTY:

Warranty coverage is provided by John Deere according to the terms of the Agricultural/Commercial & Consumer Equipment Warranty Statement. Carefully read the warranty statement on the back of your original purchase order for details on coverage and limitations of this warranty.

NOTES

(Remove Dealer File CopyAt Perforation)

AFTER COMPLETION, DEALER SHOULD REMOVE AND RETAIN FOR RECORDS

FRONTIER DEALER PRE-DELIVERY CHECK LIST

After the Grinder Mixer has been completely set-up, check to be certain it is in correct running order before delivering to the customer. The following is a list of point s to inspect. Check of f each item as you have made the proper adjustment s and found the item operating satisfactorily.

l 	Grinder Mixer was not damaged in shipment. Check for dents and loose or missing parts.
 	Report damage immediatey to H&S Manufacturing Co. Inc.
	All bolts and fasteners are tight.
	Mixer has been correctly assembled according to instructions in this manual. Wheel nuts
	and all other fasteners are tightly secured.
 	All grease fittings have been lubricated. The transmission and cyclonic reservoir are filled
_ 	to proper levels. See <u>Lubrication Chapter</u> of this manual for details.
	Hydraulic pump, motors, hoses and fittings are properly attached.
! <u> </u>	Guards and shields are secure.
<u> </u>	Screens fit properly into mill and the mill cover closes and latches tightly .
 	Wheels are properly mounted.
	Tires are inflated to 80 PSI (563 kp s).
	Belts are properly adjusted.
	Rear Drive Chain tension is properly adjusted. See <u>Adjustment Chapter</u> of this manual.
 	Discharge auger door operates smoothly .
 	Decals are in place and legible.
	Lights and wiring functioning properly if applicable.
attach the PT	Mixer onto a proper horsepower 540 RPM or 1000 RPM (If so equipped) tractor and O. Connect the scale (If so equipped) Plug transport light cord into tractor. Run the rand make sure all components operate properly.
	PTO guard turns freely .
	Hydraulic system does not leak under pressure.
! <u> </u>	Electronic Scale (If equipped) operates properly
	ImImplement and all components are functioning properly.

(Remove Dealer File CopyAt Perforation)

AFTER COMPLETION, DEALER SHOULD REMOVE AND RETAIN FOR RECORDS FRONTIER DEALER PRE-DELIVERY CHECK LIST (Continued)

Swinging Intake Auger (SIA) (If so Equipped)

	Guards, shields and attaching hardware are in place	and properly secured.							
	SIA lifing, locking and supporting mechanisms function	tion correctly . Counter balance spring							
	and brake are properly adjusted. See Adjustment C	<u>hapter</u> of this manual.							
	Transport lock mechanism engages and disengages	correctly . Safety locking clip is							
	attached to the transport bracket.								
	Hydraulic motor and speed control levers operate pro	pperly during operation.							
	Decals are in place and legible.								
		Serial Number							
	(Dealer's Name)	Model Number							
(S	ignature of Pre-Delivery Inspector)	(Inspection Date)							
	DEALER <u>DELIVERY</u> CHECK	LIST							
This check list that follows is an important reminder of valuable information that should be passed on to the customer at the time this Grinder Mixer is delivered.									
Check	off each item as you explain it to the customer .								
	elivery check list, when properly filled out and signed a ry service was satisfactorily performed.	ssures the customer that the Pre-							
	Explain to the customer that the pre-delivery inspecti	on was made.							
	Explain to the customer all the safety precautions they must excercise when operating this unit.								
	Explain recommended loads for different types of materials.								
	Explain to customer that regular lubrication is required for proper operation and long life of								
machine. Show customer the lubrication section of Operators Manual.									
	Give the customer Operators Manual and make sure he reads and understands all operating								
	and service instructions.								
	Record Serial Number on page 23 of this Manual.								
Date Delivered	d Dealer's Nam	ne							
Signature of C	Driginal Buyer B	у							

FRONTIER MODEL GX1117 GRINDER MIXER

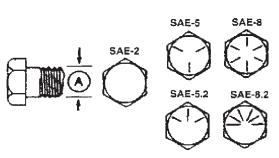
Your Frontier Grinder Mixer has been manufactured of the finest quality materials and components. The performance you get from your machine is largely dependent upon how well you read and understand this manual and apply this knowledge. There is a right and a wrong way to do everything. Please do not assume that you know how to operate and maintain your spreader before reading this manual carefully . Keep this manual available for ready reference.

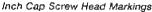
SPECIFICATIONS

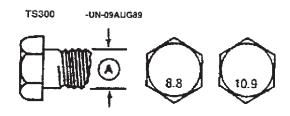
	GM1117
Mixing Tank Capacity - (Bushel)	135
Mixing Tank Capacity - (Cubic Ft.)	
Mixing Tank Diameter	
Mixing Auger Diameter	
Mixing Tank Ladder	Standard - Front Mount Over Mill
Mixing Tank Windows	
Overall Height	·
Overall Width	
Overall Width	
Overall Length	
Ground Clearance	11-1/2"
Supplement Hopper	23"W x 18"L - 35" Above Ground
Feeder	Gravity Hopper or Feed Auger
P.T.O. Drive	
H.P. Requirement	
Tires	
Jack	
Weight w/o Auger Feeder	
Weight w/Auger Feeder	
Auger Feeder	
Auger Feeder Length	84"
Auger Feeder Auger Diameter	
Infeed Hopper	
Drive	
Mill	
Hammermill Width	21"
Cylinder Diameter	
Grinder Drive	
Grinder Hammers	
Grinder Screen Area.	·
Throat Magnets	
Speed	
Discharge Conveyor	2700 TAT IVI
Unloading Auger Tube Diameter	8"
Unloading Auger Length	
Unloading Auger Rotation	
Unloading Auger Reach Standard	
Hydraulic Drive System	19 @ 33
Pump Pressure	3 200 091
Oil Flow	
Hydraulic Reservoir	
Oil Filter	
*Determine right and left side of grinder mixer by viewin	g it from the rear . If instructions or p arts lists call for
hardened bolts see page 6 to identify.	

CAP SCREW TORQUE VALUES

-UN-09AUG89







Metric Cap Screw Head Markings

INCH CAP SCREW TORQUE VALUES

METRIC CAP SCREW TORQUE VALUES

Cap Screw Grade									Markings on Cap Screw Hea-				
Bolt			SAE 2	SA	\E 5	S	AE 8	Bolt			8.8	•	10.9
Diame	eter Wren	ch						Diameter	Wrench				
(A)	Size	N-m	lbft	N-m	lbft	N-m	lb-ft	(A)	Size	N-m	lbft	N-m	lbft
1/4"	7/16"	7	(5)	11	(8)	16	(12)	5 mm	8 mm	6	(4.5)	9	(6.5)
5/16"	1/2"	14	(10)	23	(17)	33	(24)	6 mm	10 mm	10	(7.5)	15	(11)
3/8"	9/16"	24	(18)	41	(30)	54	(40)	8 mm	13 mm	25	(18)	35	(26)
7/16"	5/8"	41	(30)	68	(50)	95	(70)	10 mm	16 mm	50	(37)	75	(55)
1/2"	3/4"	61	(45)	102	(75)	142	(105)	12 mm	18 mm	85	(63)	130	(97)
9/16"	13/16"	88	(65)	142	(105)	203	(150)	16 mm	24 mm	215	(159)	315	(232)
5/8"	15/16"	122	(90)	197	(145)	278	(205)	20 mm	30 mm	435	(321)	620	(457)
3/4"	1-1/8"	217	(160)	353	(260)	495	(365)	24 mm	36 mm	750	(553)	1070	(789)
7/8"	1-5/16"	224	(165)	563	(415)	800	(590)	30 mm	46 mm	1495	(1103)	2130	(1571)
1"	1-1/2"	332	(245)	848	(625)	1193	(880)						
1-1/4"	1.7/8"	685	(490)	1/102	(1100)	2203	(1765)						



CAUTION: Use only metric tools on metric hardware. Other tools may not fit properly. They may slip and cause injury.

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

Shear bolts are designed to fail under predetermined loads. Always replace shear bolts with identical grade. Fasteners should be replaced with the same or higher grade. If higher grade fasteners are used, these should only be tightened to the strength of the original.

Make sure fastener threads are clean and you properly start thread engagement. This will prevent them from failing when tightening.

Tighten plastic insert or crimped steel-type lock nuts to approximately 50 percent of amount shown in chart. Tighten toothed or serrated-type lock nuts to full torque value.



BE ALERT!

YOUR SAFETY IS INVOLVED.

THIS SYMBOL IS USED THROUGHOUT THIS BOOK WHENEVER YOUR PERSONAL SAFETY IS INVOLVED. TAKE TIME TO BE CAREFUL. REMEMBER: THE CAREFUL OPERATOR IS THE BEST OPERATOR. MOST ACCIDENTS ARE CAUSED BY HUMAN ERROR. CERTAIN PRECAUTIONS MUST BE OBSERVED TO PREVENT THE POSSIBILITY OF INJURY OR DAMAGE.

TRACTORS

This operator's manual uses the term "Tractor" when identifying the power or the towing source.



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