

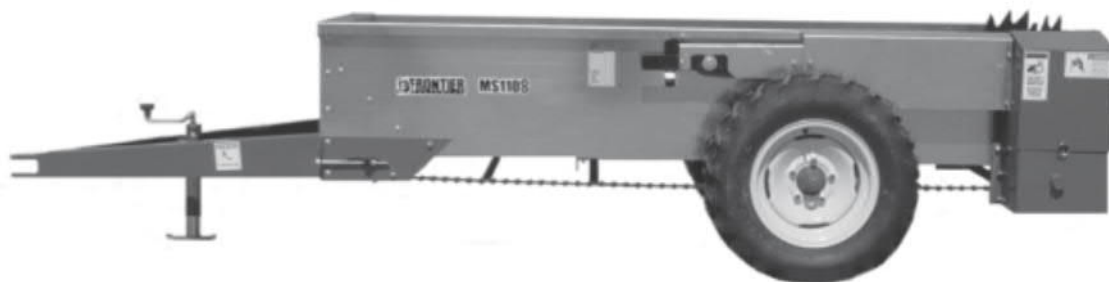
# OPERATOR'S MANUAL

## MANURE SPREADER

MS1102G

MS1105G

MS1108G



HSMFG9-1-11 REV. 5

5HPOMSP1

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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**

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**AFTER COMPLETION, DEALER SHOULD REMOVE AND RETAIN FOR RECORDS**

**FRONTIER  
DEALER PRE-DELIVERY CHECK LIST**

After the Manure Spreader 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 points to inspect. Check off each item as you have made the proper adjustments and found the item operating satisfactorily.

- All Shields and Guards are in place and fastened.
- All grease fittings have been lubricated.
- See lubrication guide in this manual.
- All mechanisms are operating trouble free.
- All roller chains are at proper tension.
- Apron chains are adjusted properly.
- All bolts and fasteners are tight.
- All decals are in place and legible.

_____	_____
(Dealer's Name)	Model Number
_____	_____
(Signature of Pre-Delivery Inspector)	Serial Number
_____	_____
	(Inspection Date)

**DEALER DELIVERY 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 Manure Spreader is delivered.

Check off each item as you explain it to the customer.

This delivery check list, when properly filled out and signed assures the customer that the Pre-delivery service was satisfactorily performed.

- Explain to the customer that the pre-delivery inspection was made.
- Explain to the customer all the safety precautions they must exercise 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 _____	Dealer's Name _____
	By _____
	_____
	Signature of Original Buyer

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# FRONTIER MODEL MS1102 GROUND DRIVEN MANURE SPREADER

Your Frontier spreader 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

	<u>MS1102</u>
Top of Flare Width . . . . .	.28-1/2"
Inside Width . . . . .	22"
Inside Length . . . . .	72"
Inside Depth . . . . .	17"
Overall Length . . . . .	9'-1"
Overall Loading Height (Top of Flare) . . . . .	30"
Overall Width w/Standard Tires . . . . .	42"
Standard Tire Size . . . . .	.6-12 Traction
Spindle Size . . . . .	1-1/4" Diameter
of Beater . . . . .	.20"
Number of Paddles . . . . .	.8
Main Apron Chain . . . . .	.55 Detachable
Capacity - Cu. Ft. Struck Level . . . . .	13.6
Heaped (Old Rating) Bu. . . . .	25 Bu.
Apron Drive . . . . .	Adjustable Ratchet Drive
Weight w/Tires . . . . .	350 Lbs.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**Note:**

Determine right and left side of spreader by viewing it from the rear. If instructions or parts lists call for hardened bolts see page 7 to identify.

# FRONTIER MODEL MS1105/MS1108 GROUND DRIVEN MANURE SPREADER

Your Frontier spreader 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

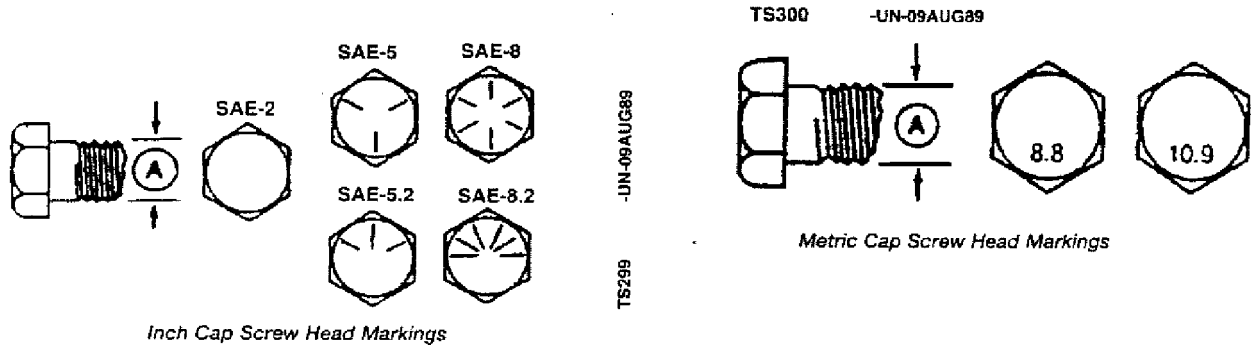
	<u>MS1105</u>	<u>MS1108</u>
Inside Width.....	36"	48"
Inside Length.....	.97"	.97"
Inside Depth.....	17.5"	17.5"
Overall Width w/7.60 x 15 Tires.....	58"	71"
Overall Length.....	13'-5"	13'-5"
Overall Height w/7.60 x 15 Tires.....	35"	35"
Diameter of Beater.....	17.5"	17.5"
Ratcher Drive.....	Two Speed.....	Two Speed
Weight w/7.60 x 15 Tires.....	790 Lbs.....	975 Lbs.
Capacity - Cu. Ft. Struck Level.....	35.....	47
Heaped (Old Rating) Bu.....	50 Bu.....	80 Bu.
Reat Pan.....	Optional.....	Optional
Swing Away Jack.....	Standard.....	Standard

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

**Note:**

Determine right and left side of spreader by viewing it from the rear. If instructions or parts lists call for hardened bolts see page 7 to identify.

# CAP SCREW TORQUE VALUES



Inch Cap Screw Head Markings

Metric Cap Screw Head Markings

## INCH CAP SCREW TORQUE VALUES

Bolt Diameter (A)	Wrench Size	Cap Screw Grade					
		SAE 2		SAE 5		SAE 8	
		N-m	lb.-ft	N-m	lb.-ft	N-m	lb.-ft
1/4"	7/16"	7	(5)	11	(8)	16	(12)
5/16"	1/2"	14	(10)	23	(17)	33	(24)
3/8"	9/16"	24	(18)	41	(30)	54	(40)
7/16"	5/8"	41	(30)	68	(50)	95	(70)
1/2"	3/4"	61	(45)	102	(75)	142	(105)
9/16"	13/16"	88	(65)	142	(105)	203	(150)
5/8"	15/16"	122	(90)	197	(145)	278	(205)
3/4"	1-1/8"	217	(160)	353	(260)	495	(365)
7/8"	1-5/16"	224	(165)	563	(415)	800	(590)
1"	1-1/2"	332	(245)	848	(625)	1193	(880)
1-1/4"	1-7/8"	665	(490)	1492	(1100)	2393	(1765)

## METRIC CAP SCREW TORQUE VALUES

Bolt Diameter (A)	Wrench Size	Markings on Cap Screw Heads			
		8.8		10.9	
		N-m	lb.-ft	N-m	lb.-ft
5 mm	8 mm	6	(4.5)	9	(6.5)
6 mm	10 mm	10	(7.5)	15	(11)
8 mm	13 mm	25	(18)	35	(26)
10 mm	16 mm	50	(37)	75	(55)
12 mm	18 mm	85	(63)	130	(97)
16 mm	24 mm	215	(159)	315	(232)
20 mm	30 mm	435	(321)	620	(457)
24 mm	36 mm	750	(553)	1070	(789)
30 mm	46 mm	1495	(1103)	2130	(1571)



**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.

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