TECHNICAL MANUAL

OPERATOR'S MANUAL SPREADER, AGGREGATE; TOWED: FORCE FEED; PNEUMATIC TIRES; 8-FT WIDTH (BURCH CORP. MDL FF-8) FSN 3895-130-3633

This copy is a reprint which includes current pages from Changes 1

HEADQUARTERS, DEPARTMENT OF THE ARMY 17 MAY 1971

WARNING

Operator should exercise caution when using the platform to prevent lowering truck material flow gate on foot.

Do not attempt to insert block-off plates while roller is turning.

Stand clear of the spreader tow hitch while the towing vehicle is backing for a hookup. Make certain towing vehicle is stopped and the shifter level is in neutral before making adjustments or removing foreign material from the hopper.

DEATH

or severe injury may result if above precautions are not observed.

TM 5-3895-330-10 C 1

CHANGE

NO. 1

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C.,., 21 September 1973

Operator's Manual SPREADER, AGGREGATE; TOWED: FORCE FEED PNEUMATIC TIRES; 8-FT WIDTH (BURCH CORP. MDL FF-8) FSN 3895-130-3633

TM 5-3895-330-10 dated 17 May 1971 is changed as follows: *Page ii*. Delete Appendix "B. BASIC ISSUE ITEMS LIST -----B-1" Page B-1. Delete "Appendix B. Basic Issue Items."

By Order of the Secretary of the Army:

CREIGHTON W. ABRAMS General, Untied Stated Army Chief of Staff

Official:

VERNE L. BOWERS Major General, United States Army The Adjutant General

Distribution:

To be distributed in accordance with DA Form 12-25B, (qty rqr block no. 454) Operator maintenance requirements for Spreaders, Aggregate.

TECHNICAL MANUAL

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C., 17 May 1971

No. 5-3895-330-10

OPERATOR'S MANUAL

SPREADER, AGGREGATE; TOWED; FORCE FEED; PNEUMATIC TIRES; 8-FT WIDTH (BURCH CORP. MDL FF-8) FSN 3895-130-3633

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*This manual supersedes portions of TM 5-3895-330-15, 6 November 1969.

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CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1. Purpose and Scope

This manual is for your use in operating and maintaining the aggregate spreader.

1-2. Maintenance Forms and Records

Maintenance forms and records that you are required to use are explained in TM 38-750.

1-3. Recommending Improvements

You can improve this manual by recommending improvements using DA Form 2028 (Recommended Changes to Publications) or a letter, and mail direct to Commanding General, U. S. Army Mobility Equipment Command ATTN: AMSME-MPP, 4300 Goodfellow Boulevard, St. Louis, Mo., 63120. A reply will be furnished direct to you.

Section II. DESCRIPTION AND DATA

1-4. Description

The Aggregate Spreader, (fig. 1-1 and 1-2) is towed by a Military M-51, 5-ton dump truck. The spreader is a selfcontained unit capable of spreading material in widths from four to eight feet by use of 12 inch block off plates. The spreader can operate in both forward and reverse directions at speeds up to 5 miles per hour. The components of the spreader are a receiving hopper, with an operator's platform; a clutch controlled feed roll with drive mechanism; and adjustable discharge gate and control mechanism; rubber tired support and traction wheels; a coupling and truck hitch; and a removable transport assembly. If you need a detailed description of any component of the aggregate spreader ask your supervisor to see TM 5-3895-330-24.

1-5. Tabulated Data

Overall length	114 in.
Overall height	47 in.
Overall width	55 in.
Shipping weight	



Figure 1-1. Force feed aggregate spreader (left three-quarter view).



Figure 1-2. Force feed spreader (right three-quarter view).

CHAPTER 2

OPERATING INSTRUCTIONS

Section I. OPERATING PROCEDURES

WARNING

If equipment fails to operate, refer to troubleshooting procedures in chapter 3.

2-1. Operating Procedures

a. Back the truck to the spreader. Extend the balancing handles and hold the spreader in a level position. By operating the spreader hitch adjusting crank, (fig. 1-1) raise or lower the spreader hitch to meet the tow hitch on the truck. The spreader will hitch and lock when the truck is backed into it.

WARNING

Stand clear of the spreader tow hitch while the towing vehicle is backing for a hookup. Make certain towing vehicle is stopped and the shifter level is in neutral before making adjustments or removing foreign material from the hopper.

CAUTION

Be sure both latches lock on the shaft of the towing hitch.

Operator should exercise caution when using the platform to prevent lowering truck material flow gate on foot.

The truck tailgate must clear the spreader so as to permit a smooth flow of material.

Do not attempt to insert block-off plates while roller is turning.

b. Adjust gate adjusting lever (fig. 1-2) for the desired flow (para 2-2). To operate the spreader in a forward motion push the clutch control lever from NEUTRAL to IN position (toward the center of the spreader) while it is stopped. To operate the spreader in a backward motion, stop the spreader and pull the clutch from neutral to OUT position (away from the center of the spreader).

c. The normal operating speed of the spreader is approximately 3- or 4- miles per hour. This speed will vary with the type of material being spread, the thickness



ME 3895-330-10/2-1 (1)

- 1. SET INDICATOR FOR REQUIRED DEPTH OF SPREAD.
- 2. ENGAGE CLUTCH FOR FORWARD OR REVERSE OPERATION.
- 3. TRAVEL FORWARD OR REVERSE AND AGGREGATE WILL PASS OVER THE ROLLER ONTO THE GROUND.
- 4. SET GATE ADJUSTING SCREWS INDIVIDUALLY TO ACQUIRE A TAPERED SPREAD OF MATERIAL.

Figure 2-1. Normal operation of spreader (sheet I of 2).





Figure 2-1. Normal operation of spreader (sheet 2 of 2).

of the spread, and the condition of the area being covered. Once started, a steady speed must be maintained in order to assure an even flow of aggregate. Normal operation of the spreader is illustrated in figure 2-1.

d. When moving from one job to another in a short move, proceed as follows. Leave the spreader hitched to the truck and raise the dump body about one third; then fasten a chain to each top corner of the tailgate and to the hopper. When the dump body is lowered, the spreader will clear the ground sufficiently to allow travel (fig. 2-2).

2-2. Operating Controls

a. *General*. This section locates, describes, and states the purpose of the controls of the aggregate spreader.

NOTE

All references to right and left will be as viewed from the operators platform.

b. Clutch Control Lever. The clutch control lever assembly is located on the left-hard side of the spreader. It is used to engage or disengage the agitator and feed roll assemblies (fig. 1-1 and 1-2).

CAUTION

Do not spread sand with this aggregate spreader.



ME 3895-330-10/2-2 Figure 2-2. Raised short haul position.

c. Gate Adjusting Lever. The gate adjusting lever is located on the left-hand side of the spreader and

raises or lowers the gate assembly. The maximum gate opening is 5 inches (fig. 1-1 and 1-2).

d. Spreader Hitch Adjusting Crank. The adjusting crank assembly raises or lowers the coupler hitch assembly by means of a screw and pantograph LINK ARRANGEMENT. The adjusting crank is located on the left-hand side of spreader (fig. 1-1 and 1-2).

CAUTION

To prevent jamming of the universal joint against the hopper support braces, do not operate the spreader hitch adjusting crank past the lowest spreader operating position.

e. Gate Adjusting Screw. There are two gate adjusting screws located directly in front of operator's platform. These adjusting screws are used for finer adjustments of the gate assembly than the gate adjustment lever can provide. These screws can be adjusted individually to acquire a tapered spread of material (fig. 1-2).

i. Block-Off Plates. The block-off plates are formed pieces of metal and when placed into the hopper, restrict the flow of material into the feed roll.

(1) *Inspection.* Inspect the block-off plates for damage such as bends or cracks.

(2) Replacement. Replace the block-off plates if damage is enough to restrict proper operation. Spreader must be empty to replace plates.

Section II. OPERATION UNDER UNUSUAL CONDITIONS

2-3. Operation in Salt Water Areas

The deterioration and corrosion of exposed metal is greatly accelerated in salt water areas. If the spreader has been operated in or around salt water, clean it thoroughly and lubricate frequently. See TM 5-3895-330-24 for lubrication instructions. Paint all exposed surfaces. Coat exposed parts of polished steel or other ferrous metals with rustproofing, or cover with a light coat of oil or grease.

2-4. Operation in Extreme Cold

Operating the aggregate spreader in extreme cold temperature presents special lubrication problems since lubricants that are too heavy will make the equipment difficult to operate. This will cause rapid wear on moving parts.

2-8

CHAPTER 3

MAINTENANCE INSTRUCTIONS

Section I. LUBRICATION

3-1

LUBRICATION INSTRUCTIONS

Reference: C9100-IL

Intervals are based on normal hours of operations. Adjust to compensate for abnormal operations and severe conditions during inactive periods, sufficient lubrication must be performed for adequate.

Clean Parts with SOLVENT, dry-cleaning, or with OIL, fuel Diesel. Dry before lubricating. Lubricate points indicated by dotted arrow shafts on both sides of equipment.



ME 3895-330-10/3-1

Figure 3-1. Lubrication instructions .

INTERVAL LUBRICANT



ME 3895-330-10/3-2

Figure 3-2. Lubrication instructions-Continued.

NOTES:

1. **OIL CAN POINTS**. Every 10 service hours, lubricate all control lever pivots, exposed threads and feedgate pivots with OE 10.

2. **LUBRICANTS**. The following is a list of lubricants with the military symbols and applicable specification numbers.

OE MIL - L - 2104 GO MIL - L - 2105 GAA MIL - L - 10924

3. AGITATOR ROLLER BEARINGS. When agitator is in place check roller bearing grease fittings for damage after each load of aggregate is spread.

ME 3895 - 330 - 10/3 - 3

Figure 3-3. Lubrication instructions-Continued.

Section II. PREVENTIVE MAINTENANCE CHECKS AND SERVICES

To insure that the aggregate spreader is ready for operation at all times, it must be inspected systematically so that defects may be discovered and corrected before they result in serious damage or failure. The preventive maintenance checks and services to be performed are listed in table 3-1. Defects discovered during operation of the unit Will be noted for future correction to be made as soon as operation has ceased.

B-Before Operation			DDuring Operations	A-After Operation
Interval and			Items to be inspect	ed
	Sequence No.		Procedure	
B	D	A		
			Lubrication	
1			Check the aggre	gate spreader for
			sians of impr	oper or inadequate
			lubrication.	• •
			Tires	
2			Inspect the other defects	tires for cracks or s.
3			Traction whe Transport Whee Check the tran assembly for bends.	els (65 psi) els Assembly nsport wheels r cracks, breaks, or

Table 3-1. Preventive Maintenance Checks and Services

Stop operation immediately if a deficiency is noted during operation which would damage the equipment if operation was continued. All deficiencies and shortcomings will be recorded together with the corrective action taken on DA Form 2024 (Equipment Maintenance and Inspection Worksheets) at the earliest possible opportunity.

Section III. TROUBLESHOOTING

This section contains troubleshooting information for locating and correcting most of the operating troubles which may develop in the aggregate spreader. Each malfunction for an individual component, unit, or system is followed by a list of tests or inspections which will help you to determine probable causes and corrective actions for you to take. You should perform the tests/inspections and corrective actions in the order listed. This manual cannot list all possible malfunctions that may occur, or all tests or inspections and corrective actions. If a malfunction is not listed (except when malfunction and cause are obvious), or is not listed corrective actions, notify corrected by vour supervisor.

3-6

MALFUNCTION TEST OR INSPECTION CORRECTIVE ACTION

DISCHARGE GATE DOES NOT OPEN.

Foreign matter holding discharge gate. Clean out discharge gate opening.

APPENDIX A

REFERENCES

TM 38-750

The Army Maintenance Management System

LO 5-3895-330-12

Lubrication Order

APPENDIX B

BASIC ISSUE ITEMS

Federal Stock No.	Name	Quantity furnished with equipment
7510-889-3494	BINDER, LOOSELEAF	1
7520-559-9618	CASE, OPERATIONAL MAINTENANCE PUBLICATION	1
	ARMY TECHNICAL MANUAL TM 5-3895-330-10	1

By Order of the Secretary of the Army:

W. C. WESTMORELAND, General, United States Army, Chief of Staff.

Official:

VERNE L. ROWERS, Major General, United States Army, The Adjutant General.

Distribution:

To be distributed in accordance with DA Form 12-25, Section II, (qty rqr block no. 454) Operator maintenance requirements for Spreaders, Aggregate.

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THE METRIC SYSTEM AND EQUIVALENTS

'NEAR MEASURE

. Centimeter = 10 Millimeters = 0.01 Meters = 0.3937 Inches

- 1 Meter = 100 Centimeters = 1000 Millimeters = 39.37 Inches
- 1 Kilometer = 1000 Meters = 0.621 Miles

VEIGHTS

Gram = 0.001 Kilograms = 1000 Milligrams = 0.035 Ounces 1 Kilogram = 1000 Grams = 2.2 lb.

1 Metric Ton = 1000 Kilograms = 1 Megagram = 1.1 Short Tons

LIQUID MEASURE

1 Milliliter = 0.001 Liters = 0.0338 Fluid Ounces

1 Liter = 1000 Milliliters = 33.82 Fluid Ounces

APPROXIMATE CONVERSION FACTORS

TO CHANGE	το	MULTIPLY BY
Inches	Centimeters	2.540
Feet	Meters	0.305
Yards	Meters	0.914
Miles	Kilometers	1.609
Square Inches	Square Centimeters	6.451
Square Feet	Square Meters	0.093
Square Yards	Square Meters	0.836
Square Miles	Square Kilometers	2.590
Acres	Square Hectometers	0 405
Cubic Feet.	Cubic Meters	0.028
Cubic Yards	Cubic Meters	0.765
Fluid Ounces	Milliliters	29 573
ats	Liters	0 473
arts	Liters	0.946
allons	Liters	3 785
	Grame	28 340
Pounde	Kilomana	0 454
Short Tone	Metric Tong	0.907
Pound-Feet	Newton Motors	1 356
Pounde por Square Inch	Vilopageola	6 905
Miles per Square men	Kilomatana non Litan	0.405
Miles per Ganon	Kilometers per Liter	0.425
Miles per nour	Kilometers per Hour	1.609
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SQUARE MEASURE

1 Sq. Centimeter = 100 Sq. Millimeters = 0.155 Sq. Inches

- 1 Sq. Meter = 10,000 Sq. Centimeters = 10.76 Sq. Feet
- 1 Sq. Kilometer = 1,000,000 Sq. Meters = 0.386 Sq. Miles

CUBIC MEASURE

1 Cu. Centimeter = 1000 Cu. Millimeters = 0.06 Cu. Inches 1 Cu. Meter = 1,000,000 Cu. Centimeters = 35.31 Cu. Feet

TEMPERATURE

 $5/9(^{\circ}F - 32) = ^{\circ}C$

212° Fahrenheit is evuivalent to 100° Celsius

90° Fahrenheit is equivalent to 32.2° Celsius

32° Fahrenheit is equivalent to 0° Celsius

 $9/5C^{\circ} + 32 = {}^{\circ}F$



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