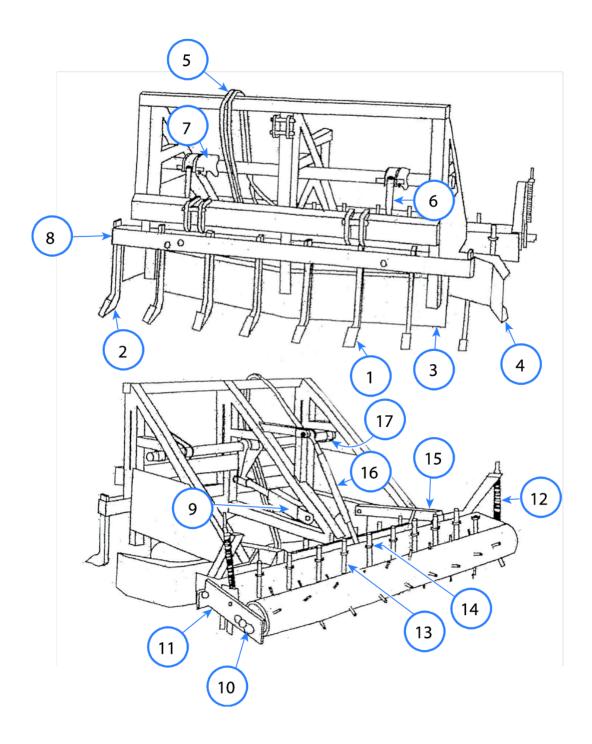
Lucas Metal Works

396281 West 3000 Rd. Ochelata, OK 74051 918-535-2726 / 866-689-8904 LucasMetalWorks.com

Ground Hog Schematic





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PARTS LISTING & OPERATING INSTRUCTIONS

PLEASE CALL FOR PRICING

1 RIPPER POINT, HARD-SURFACED* 2 RIPPER SHANKS RIPPER SHANK W/RIPPER POINT 3 FRONT BLADE 4 BACK BLADE 5 HYDRAULIC HOSE 6 RIPPER SHANK BAR ADJUSTERS 7 RIPPER SHANK BAR LEFT ARMS 8 RIPPER SHANK BAR LEFT ARMS 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER RATCHET JACK 17 BUSHINGS, SHANK BAR LIFTING SHAFT		
RIPPER SHANK W/RIPPER POINT 3 FRONT BLADE 4 BACK BLADE 5 HYDRAULIC HOSE 6 RIPPER SHANK BAR ADJUSTERS 7 RIPPER SHANK BAR LEFT ARMS 8 RIPPER SHANK BAR 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER RATCHET JACK		RIPPER POINT, HARD-SURFACED*
3 FRONT BLADE 4 BACK BLADE 5 HYDRAULIC HOSE 6 RIPPER SHANK BAR ADJUSTERS 7 RIPPER SHANK BAR LEFT ARMS 8 RIPPER SHANK BAR 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER RATCHET JACK	2	RIPPER SHANKS
4 BACK BLADE 5 HYDRAULIC HOSE 6 RIPPER SHANK BAR ADJUSTERS 7 RIPPER SHANK BAR LEFT ARMS 8 RIPPER SHANK BAR 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER RATCHET JACK		RIPPER SHANK W/RIPPER POINT
5 HYDRAULIC HOSE 6 RIPPER SHANK BAR ADJUSTERS 7 RIPPER SHANK BAR LEFT ARMS 8 RIPPER SHANK BAR 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER RATCHET JACK	3	FRONT BLADE
6 RIPPER SHANK BAR ADJUSTERS 7 RIPPER SHANK BAR LEFT ARMS 8 RIPPER SHANK BAR 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER RATCHET JACK	4	BACK BLADE
7 RIPPER SHANK BAR LEFT ARMS 8 RIPPER SHANK BAR 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER RATCHET JACK	5	HYDRAULIC HOSE
8 RIPPER SHANK BAR 9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	6	RIPPER SHANK BAR ADJUSTERS
9 HYDRAULIC CYLINDER 10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	7	RIPPER SHANK BAR LEFT ARMS
10 BEARINGS, ROLLER, 5', 6', 7', 8' MACHINE 10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	8	RIPPER SHANK BAR
10A BEARINGS, ROLLER, 9' MACHINE 10B BEARINGS, ROLLER, 10', 12' MACHINE 11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	9	HYDRAULIC CYLINDER
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11 ROLLER CONNECTION PLATE 5', 6', 7', 8' 11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	10A	BEARINGS, ROLLER, 9' MACHINE
11A ROLLER CONNECTING PLATE 9' 11B ROLLER CONNECTING PLATE 10', 12' 12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	10B	BEARINGS, ROLLER, 10', 12' MACHINE
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12 ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9' 12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	11A	ROLLER CONNECTING PLATE 9'
12A ROLLER SPRING ASSEMBLY 10', 12' 13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	11B	ROLLER CONNECTING PLATE 10', 12'
13 I-BEAM SPIKES 14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	12	ROLLER SPRING ASSEMBLY 5', 6', 7', 8', 9'
14 U-BOLTS 15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	12A	ROLLER SPRING ASSEMBLY 10', 12'
15 I-BEAM & ROLLER SUPPORT ARMS 16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	13	I-BEAM SPIKES
16 I-BEAM & ROLLER LIFT ARM 16A I-BEAM & ROLLER RATCHET JACK	14	U-BOLTS
16A I-BEAM & ROLLER RATCHET JACK	15	I-BEAM & ROLLER SUPPORT ARMS
	16	I-BEAM & ROLLER LIFT ARM
17 BUSHINGS, SHANK BAR LIFTING SHAFT	16A	I-BEAM & ROLLER RATCHET JACK
	17	BUSHINGS, SHANK BAR LIFTING SHAFT

OPERATING INSTRUCTIONS:

FOR PROPER GRADING, ADJUST THE TOP-LINK ON THE TRACTOR TO ALLOW THE BACK BLADE (#4) TO BE 1.5" LOWER THAN THE FRONT BLADE (#3) WHEN THE MACHINE IS SUSPENDED APPROXIMATELY 6" ABOVE THE GROUND.

WHEN WORKING THE ARENA, THE I-BEAM/ROLLER SUPPORT ARMS (#15) SHOULD BE RESTING ON THE BACK BLADE (#4).

NOTE: PARTS 10, 10A, 10B & 17 SHOULD BE GREASED EVERY 10 HOURS OF USE.

CAUTION: DO NOT OPERATE MACHINE WITHOUT RIPPER POINTS ON SHANKS.

^{*} HARD SURFACING ON RIPPER POINTS "APPROXIMATELY" DOUBLES THE RIPPER POINT LIFE.