



PARTS & SERVICE MANUAL

MODEL 1500

Document: 1500 Parts Manual Rev. 2.3

Covers Serial Number Range:

754-AA15TKX4Y1-00754 THRU _____

SOLD & SERVICED BY



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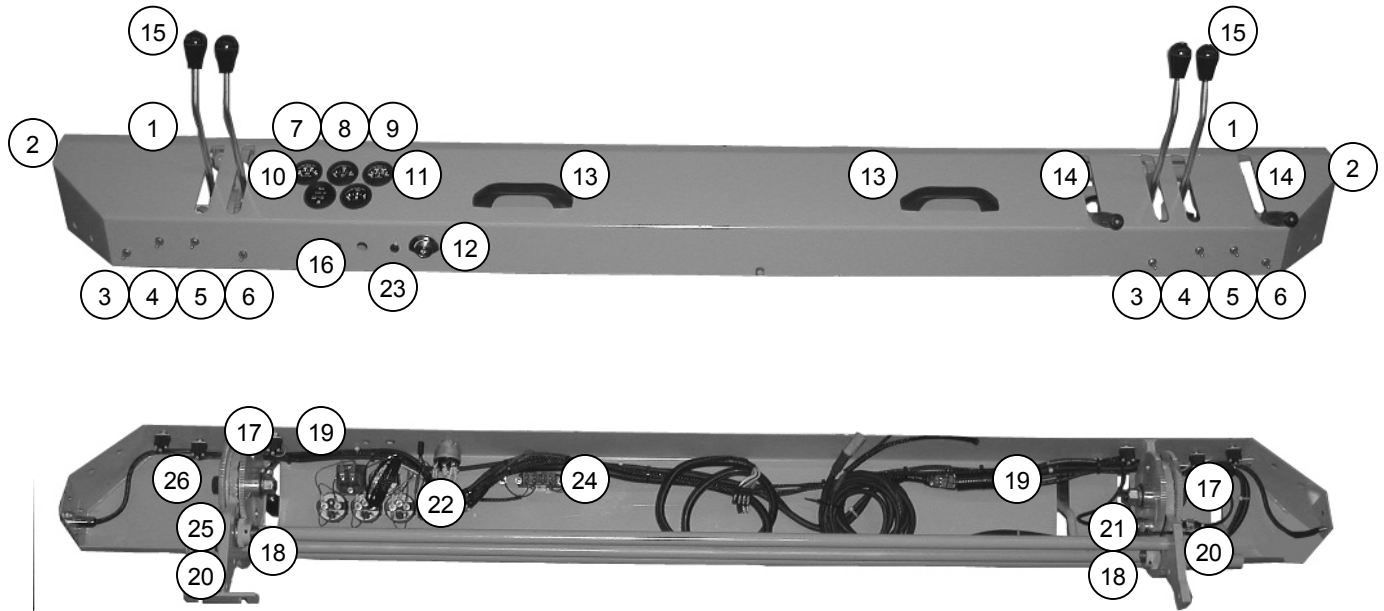
Serial Number Range: 754-AA15TKX4Y1-00754 thru _____

QUICK ORDER PAGE

Auger Hanger Assembly	092-0142
Auger Coupling Chain (x4)	015-0045
Auger Coupling Half (x4)	015-0154
Auger, Lower (LH)	092-0014
Auger, Lower (RH)	092-0013
Auger, Upper (LH)	092-0012
Auger, Upper (RH)	092-0011
Battery	020-0020
Cable, Steering (x2)	050-0341
Cable, Throttle	050-0347
Cap (Fuel Tank)	050-0522
Cap (Hydraulic Tank)	060-0069
Cap (Wash Down Tank)	050-0188
Conveyor Chain (x2)	093-0121
Conveyor Chain Bar (x24)	015-0258
Conveyor Chain Rivet (x48)	015-0259
Cut Off Plate (1'LH)	092-0206
Cut Off Plate (1'RH)	092-0207
Cut Off Plate (2'LH)	092-0210
Cut Off Plate (2'RH)	092-0211
Cut Off Plate (3'LH)	092-0212
Cut Off Plate (3'RH)	092-0213
Decal Kit	024-0036
Fan / Alternator Belt	010-0413
Filter, Engine Oil	021-0077
Filter, Fuel (In-Line)	021-0197
Filter, Fuel / Water Separator (Spin -On)	021-0072
Filter, Hydraulic Oil (High Pressure) (x2)	021-0192
Filter, Hydraulic Oil (Low Pressure)	021-0002
Key Switch	020-0156
Plastic, Front Hopper	093-100760
Plastic, Hopper Gate Bottom (x2)	093-100758
Push Roller Assembly (x2)	091-0006
Screed Burner Assembly (x2)	093-0217
Screed Lighting Torch Assembly	090-0231
Screed Plate ("H" Bottom)	092-0275
Seat	050-0017
Spare Key (Set)	020-0087
Spray Nozzle	050-0051
Sprocket, Drive (x2)	093-0325
Sprocket, Idler Assembly (x2)	091-0042
Track Roller (x4)	050-0163

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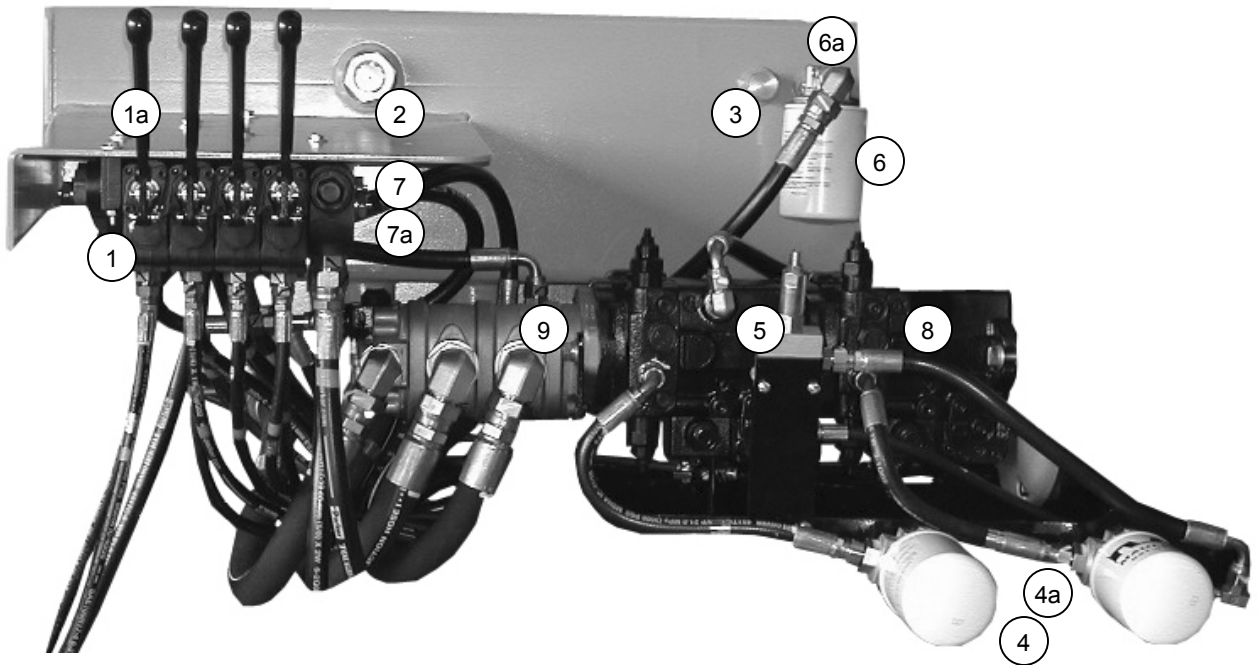
DASH ASSEMBLY



1. Steering Handle (x4).....	093-0318
2. Auto Auger Cord Assembly (x2).....	<i>See Hopper (Right)</i>
3. Left Auger Toggle Switch (x2)	020-0083
4. Left Conveyor Toggle Switch (x2)	020-0083
5. Right Conveyor Toggle Switch (x2)	020-0083
6. Right Auger Toggle Switch (x2).....	020-0083
7. Voltage Meter Gauge	020-0169
8. Oil Pressure Gauge	020-0171
9. Oil Temperature Gauge.....	020-0172
10. Hour Meter Gauge.....	020-0173
11. Fuel Meter Gauge.....	020-0170
12. Starter Switch	020-0156
13. Dash Safety Handle (x2)	050-0205
14. Rubber Handle Grip (x2)	050-0282
15. Steering Handle Knob (x4)	050-0388
16. Throttle Cable	<i>See Engine (Right)</i>
17. Aluminum Steering Gear (x4).....	093-100074
18. Fiber Composite Steering Gear (x4)	093-100075
19. Toggle Switch Harness (x2)	010-0271
20. Steering Rod Bearing (x4).....	018-0011
21. Neutral Switch (x2)	020-0002
22. Starter Electrical Harness (Starter Connection).....	010-0401
a. Starter Electrical Harness (Engine Connection) (<i>not shown</i>)	010-0249
23. Neutral Indicator Light	020-0140
24. Fuse Box.....	020-0407
25. Set Collar (x2).....	030-0447
26. Shoulder Bolt (x2).....	030-0473

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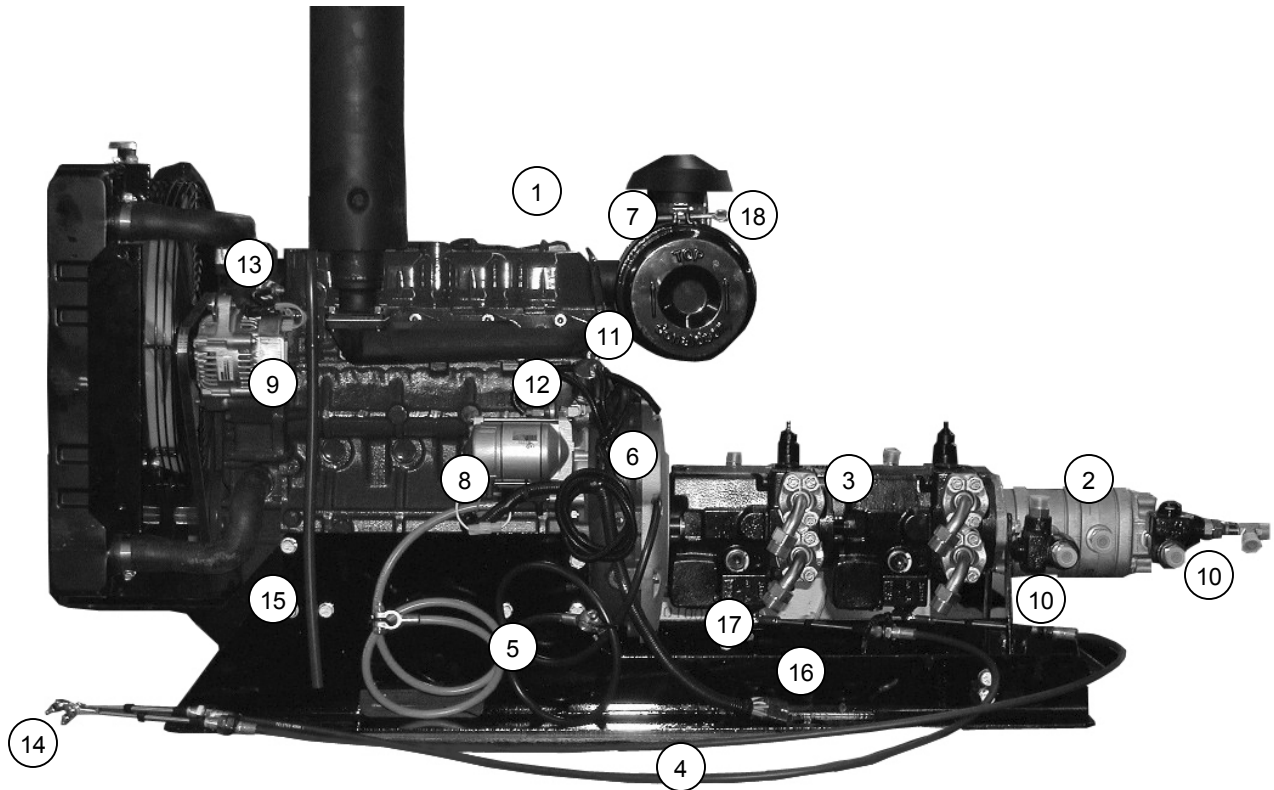
ENGINE COMPARTMENT



- | | |
|--|-------------------|
| 1. Valve Bank Assembly..... | 017-0091 |
| a. Valve Bank Handle | 017-0060 |
| 2. Hydraulic Tank Sight Window | 060-0066 |
| 3. SAE O-Ring Plug | 014-0733 |
| 4. High Pressure Hydraulic Oil Filter Head (x2)..... | 021-0192 |
| a. High Pressure Hydraulic Oil Filter Element (x2) | 021-0169 |
| 5. Track Tensioning Counterbalance Valve..... | 017-0164 |
| 6. Low Pressure Hydraulic Filter Head And Element Assembly | 021-0001 |
| a. Low Pressure Hydraulic Filter Element..... | 021-0002 |
| 7. Conveyor Motor Solenoid Valve (x2) <i>(mounted behind valve bank)</i> | 017-0008 |
| a. Conveyor Motor Solenoid Valve Coil (x4)..... | 017-0090A |
| 8. Main Pump | See Engine (Left) |
| 9. Auxiliary Pump | See Engine (Left) |

Serial Number Range: 754-AA15TKX4Y1-00754 thru _____

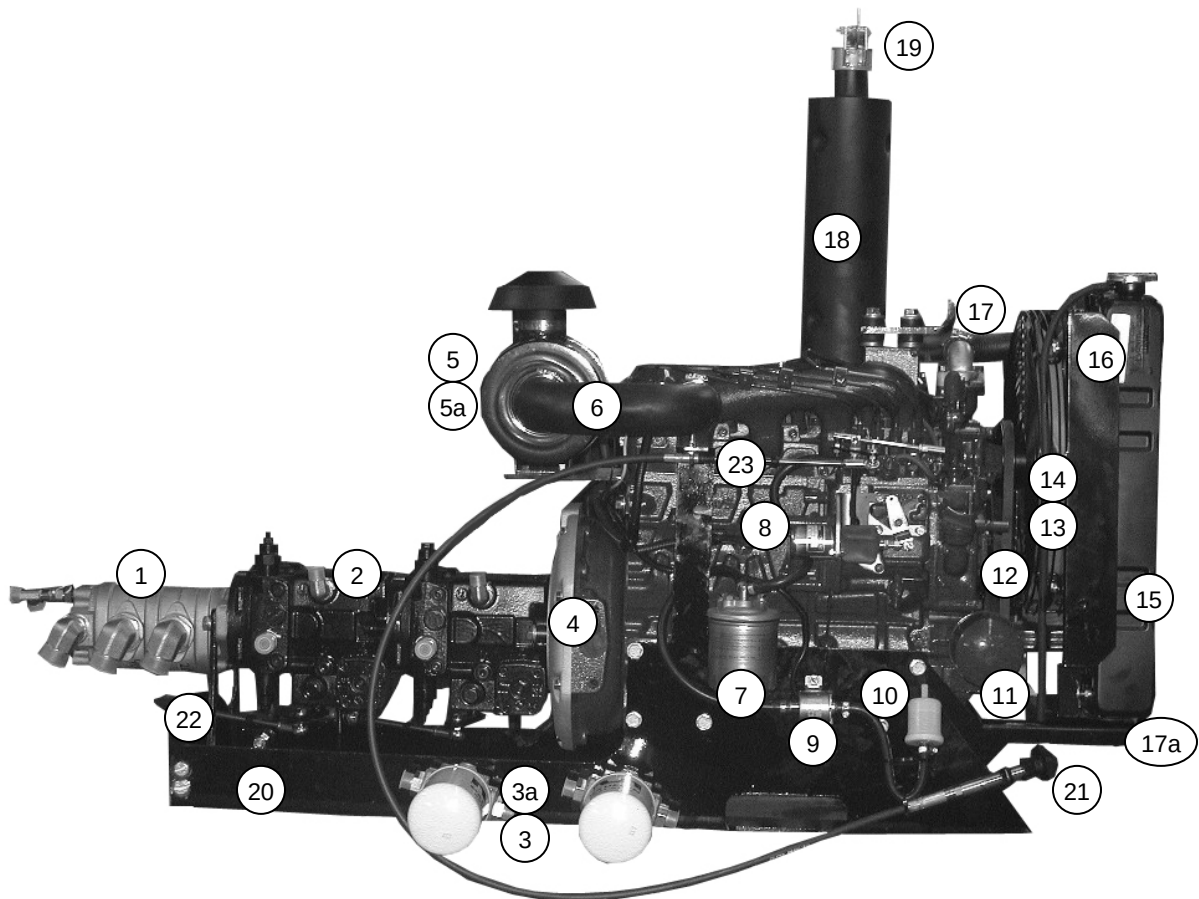
ENGINE ASSEMBLY – LEFT SIDE



1. Kubota V2203 Engine.....	010-0108
2. Auxiliary Pump.....	011-0156
3. Main Pump.....	011-0151
4. Steering Cable (x2).....	050-0341
5. Battery Cable (x2).....	See Battery Assy.
6. Flywheel Adaptor Kit.....	See Engine (Right)
7. Air Filter Assembly.....	See Engine (Right)
8. Starter	010-0296
9. Alternator	010-0345
10. Valve (x2).....	017-0137
11. Oil Pressure Sender	020-0304
12. Oil Pressure Switch	021-0168
13. Temperature Sender	020-0178
14. Steering Cable Ball Joint (with stud)	030-0237
15. Engine Mount (x8)	050-0003
16. Engine Leg (Left Side / Front)	093-100078
17. Steering Cable Ball Joint (without stud)	030-0430
18. Engine Stabilizing Mount.....	050-0057

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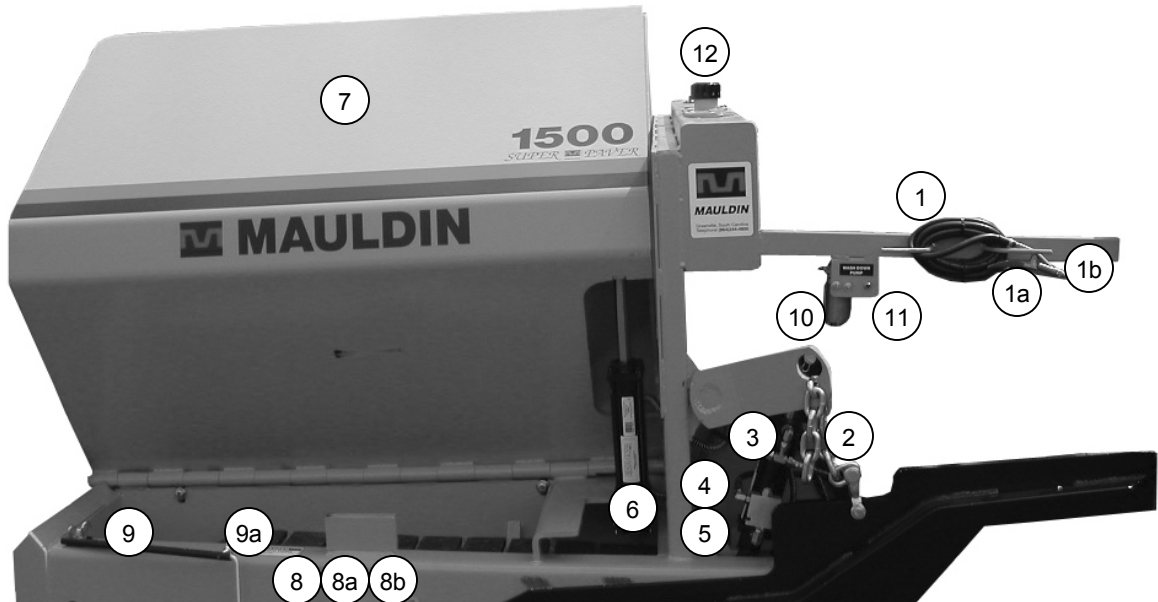
ENGINE ASSEMBLY – RIGHT SIDE



1. Auxiliary Gear Pump.....	See Engine(Left)
2. Main Pump	See Engine (Left)
3. Hydraulic Filter Head (x3)	See Engine Comp.
a. Hydraulic Filter Element (x3)	See Engine Comp.
4. Flywheel Adaptor / Pump Mount	050-0328
a. Hydraulic Pump Mount	050-0328A
b. Flywheel Adaptor Plate	050-0328B
5. Air Filter Assembly Kit.....	021-0084A
a. Air Filter Element.....	021-0084
6. Inlet Pipe.....	010-0430
7. Fuel Filter.....	021-0072
8. Fuel Shutdown Solenoid.....	010-0182
9. Fuel Pump	010-0438
10. Inline Fuel Filter	021-0197
11. Oil Filter	021-0077
12. Alternator / Fan Belt.....	010-0413
13. Fan Guard	010-0431
14. Fan	010-0265
15. Radiator	010-0310
16. Radiator Shroud.....	010-0432
17. Radiator Hose (Upper).....	010-0411
a. Radiator Hose (Lower)	010-0412
18. Muffler.....	010-0241
19. Muffler Rain Bonnet.....	010-0329
20. Engine Leg (Right Side / Back).....	093-100071
21. Throttle Cable	050-0347
22. Auxiliary Pump Support Bracket	093-100079
23. Throttle Cable Ball Joint.....	050-0120

Serial Number Range: 001-B-15TKX4Y1-01001 thru _____

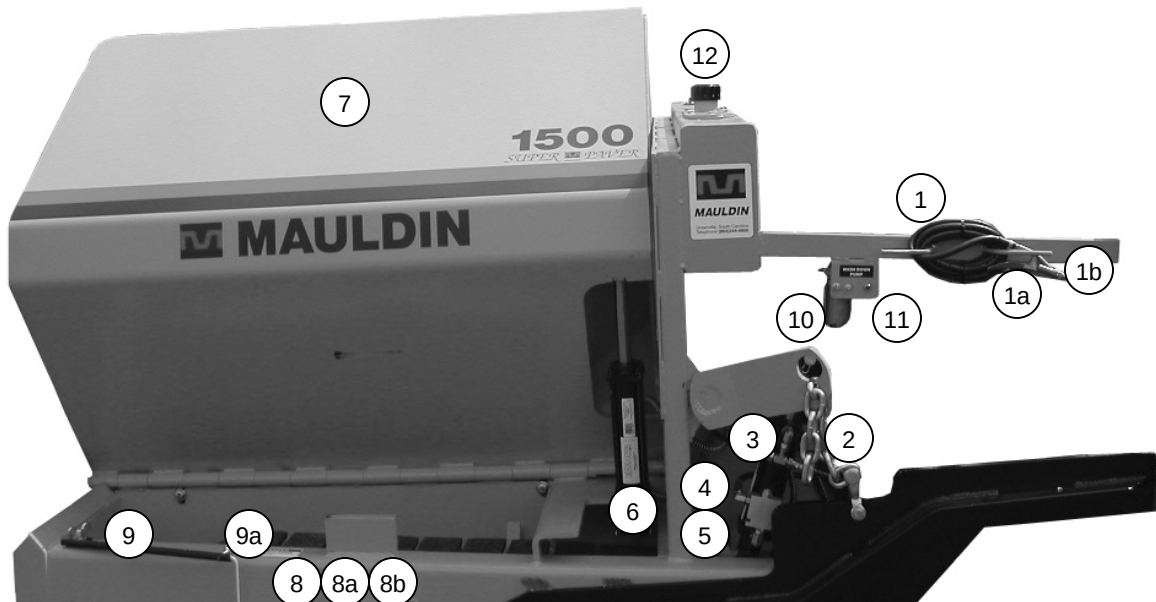
HOPPER ASSEMBLY – LEFT SIDE



1. Washdown Hose Assembly	050-0051A
a. Spray Nozzle	050-0051
b. Spray Nozzle Tip	050-0103
2. Screed Lift Chain Assembly	See Screed (Front)
3. Screed Lift Cylinder	012-0005
4. Screed Lift Cylinder Check Valve	017-0166
5. Screed Lift Cylinder Needle Valve	017-0186
6. Hopper Cylinder.....	012-0051
7. Hopper Assembly (LH)	092-100959
8. Tow Point Mounting Plate (Outer) (<i>not shown</i>).....	See Hopper (Right)
a. Tow Point Mounting Plate (Inner) (<i>not shown</i>).....	See Hopper (Right)
b. Tow Point Mounting Plate Spacer (<i>not shown</i>)	See Hopper (Right)
9. Sight Guide Assembly	093-0266
a. Sight Guide Rod	096-100880
10. Washdown Pump	011-0082
11. Washdown Pump Toggle Switch	020-0082
12. Hydraulic Tank Cap	060-0069

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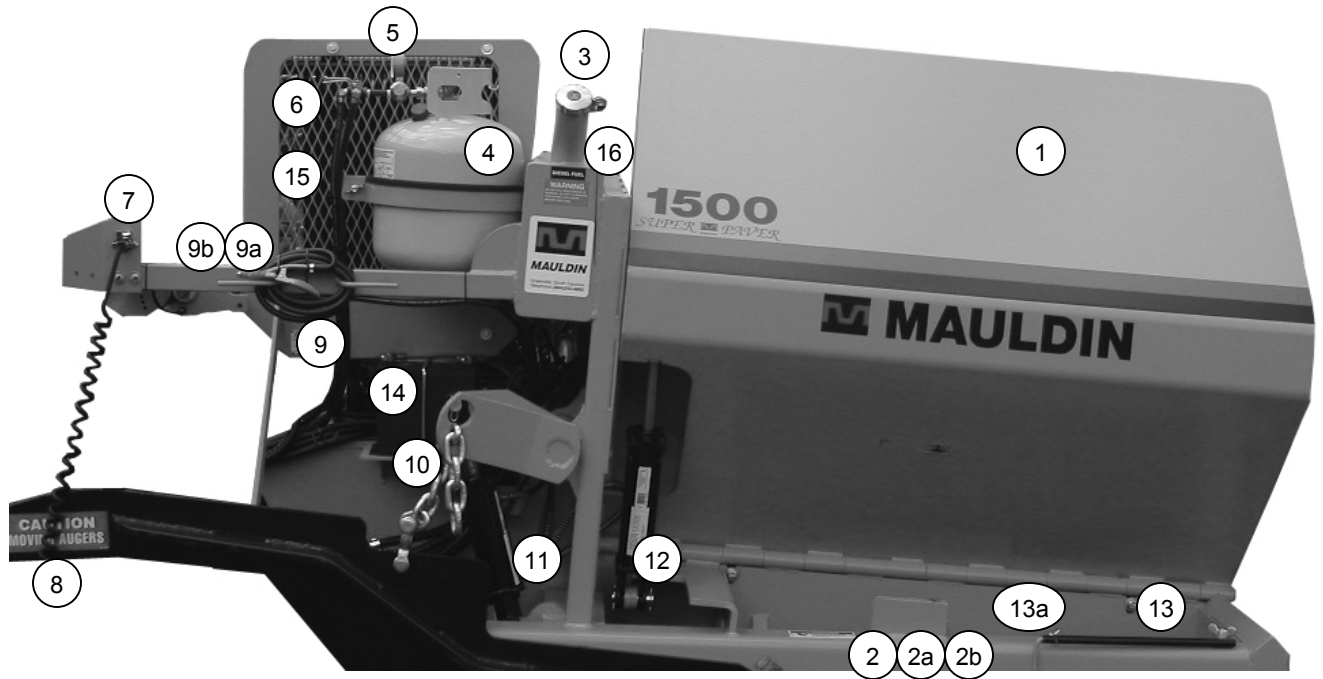
HOPPER ASSEMBLY – LEFT SIDE



1. Washdown Hose Assembly	050-0051A
a. Spray Nozzle	050-0051
b. Spray Nozzle Tip	050-0103
2. Screed Lift Chain Assembly	See Screed (Front)
3. Screed Lift Cylinder	012-0005
4. Screed Lift Cylinder Check Valve	017-0166
5. Screed Lift Cylinder Needle Valve	017-0186
6. Hopper Cylinder.....	012-0009
7. Hopper Assembly (LH)	092-100959
8. Tow Point Mounting Plate (Outer) (not shown).....	See Hopper (Right)
a. Tow Point Mounting Plate (Inner) (not shown).....	See Hopper (Right)
b. Tow Point Mounting Plate Spacer (not shown)	See Hopper (Right)
9. Sight Guide Assembly	093-0266
a. Sight Guide Rod	096-100880
10. Washdown Pump	011-0082
11. Washdown Pump Toggle Switch	020-0082
12. Hydraulic Tank Cap	060-0069

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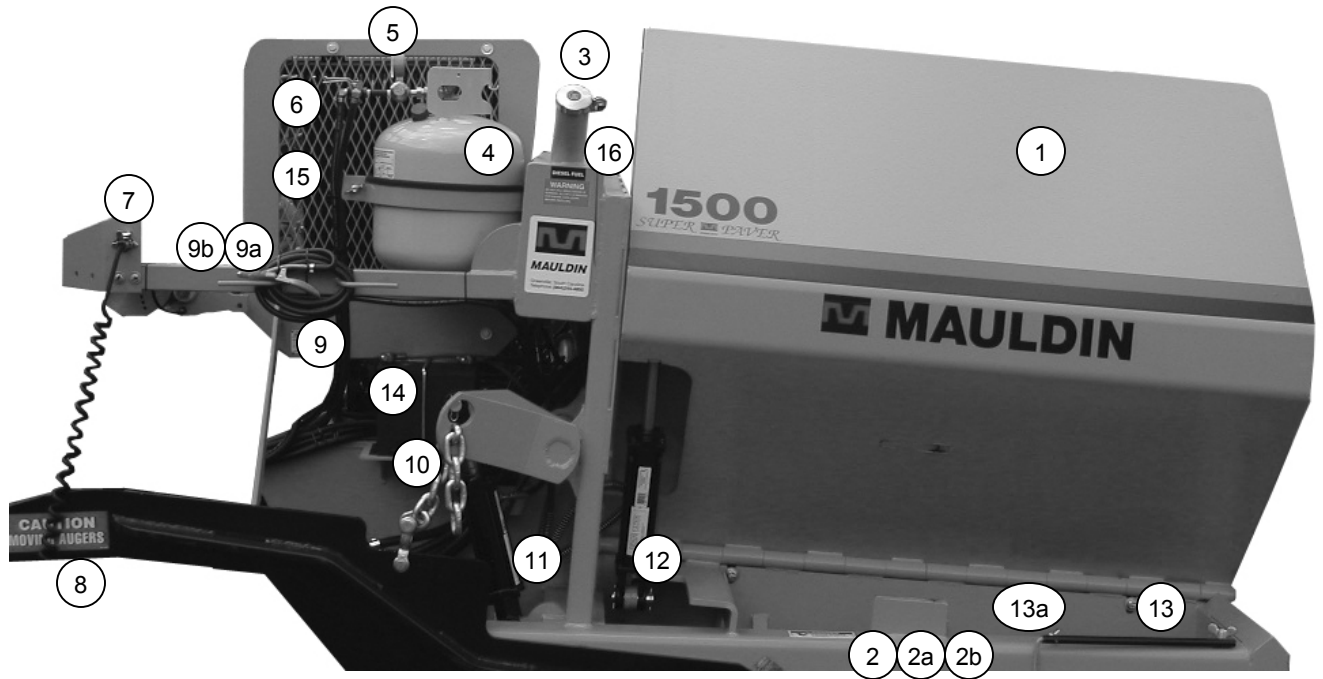
HOPPER ASSEMBLY – RIGHT SIDE



1. Hopper Assembly (RH)	092-100958
2. Tow Point Mounting Plate (Outer) <i>(not shown)</i>	093-100972
a. Tow Point Mounting Plate (Inner) <i>(not shown)</i>	093-100973
b. Tow Point Mounting Spacer Plate <i>(not shown)</i>	093-100978
3. Diesel Tank Fuel Cap	050-0522
4. Propane Tank	See Propane Assy.
5. Regulator (with gauge)	See Propane Assy.
6. Ball Valve (x2)	050-0154
7. Four Poll Connector Set (x2)	020-0315
8. Auto Auger Asphalt Level Detection Switch Assembly (x2) <i>(not shown)</i>	See Screed Front
9. Washdown Hose Assembly	See Hopper (Left)
a. Spray Nozzle	See Hopper (Left)
b. Spray Tip	See Hopper (Left)
10. Screed Lift Chain Assembly	See Screed (Front)
11. Screed Lift Cylinder	See Hopper (Left)
12. Hopper Cylinder	See Hopper (Left)
13. Sight Guide Assembly	See Hopper (Left)
a. Sight Guide Rod	See Hopper (Left)
14. Battery Assembly	See Battery Assy.
15. Oil Cooler	050-0181
16. Fuel Level Sending Unit <i>(not shown)</i>	020-0174

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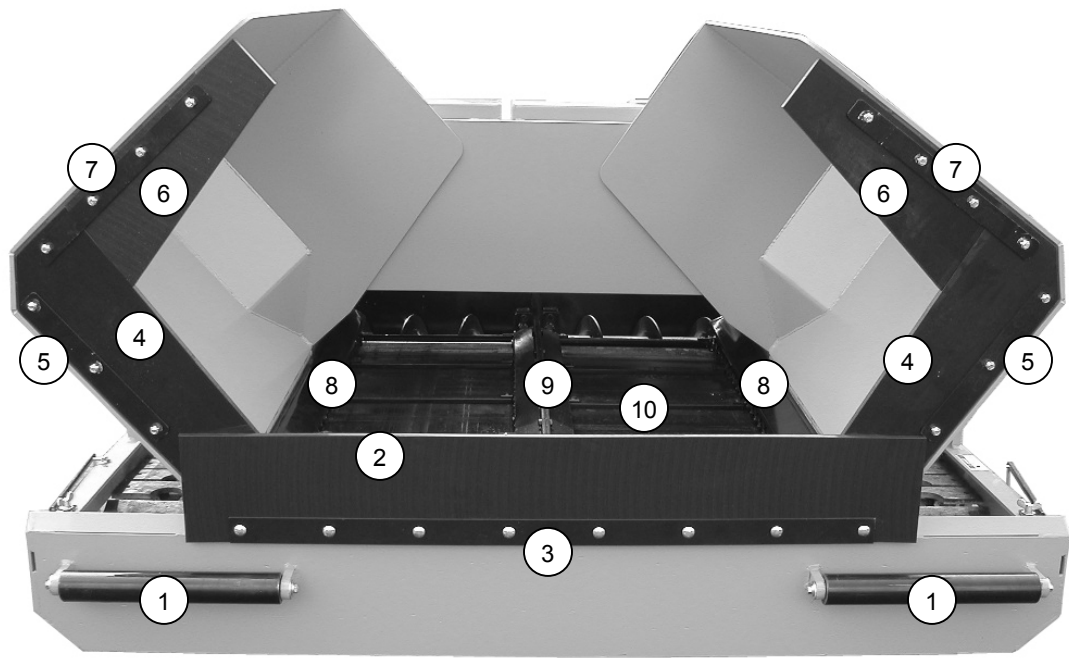
HOPPER ASSEMBLY – RIGHT SIDE



1. Hopper Assembly (RH)	092-100958
2. Tow Point Mounting Plate (Outer) <i>(not shown)</i>	093-100972
a. Tow Point Mounting Plate (Inner) <i>(not shown)</i>	093-100973
b. Tow Point Mounting Spacer Plate <i>(not shown)</i>	093-100978
3. Diesel Tank Fuel Cap	050-0522
4. Propane Tank	See Propane Assy.
5. Regulator (with gauge)	See Propane Assy.
6. Ball Valve (x2)	050-0154
7. Four Poll Connector Set (x2)	020-0315
8. Auto Auger Asphalt Level Detection Switch (x2) <i>(not shown)</i>	See Screed Front
9. Washdown Hose Assembly	See Hopper (Left)
a. Spray Nozzle	See Hopper (Left)
b. Spray Tip	See Hopper (Left)
10. Screed Lift Chain Assembly	See Screed (Front)
11. Screed Lift Cylinder	See Hopper (Left)
12. Hopper Cylinder	See Hopper (Left)
13. Sight Guide Assembly	See Hopper (Left)
a. Sight Guide Rod	See Hopper (Left)
14. Battery Assembly	See Battery Assy.
15. Oil Cooler	050-0181
16. Fuel Level Sending Unit <i>(not shown)</i>	020-0174

Serial Number Range: 001-B-15TKX4Y1-01001 thru _____

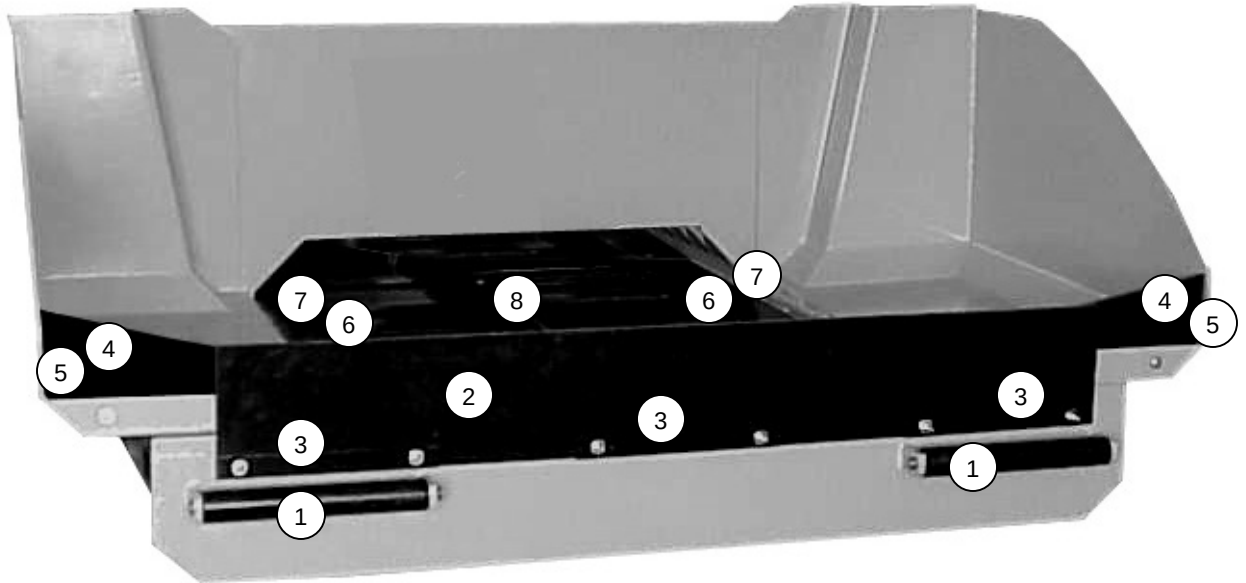
HOPPER ASSEMBLY - CENTER



1. Push Roller Assembly	091-0006
a. Push Roller 20" (not shown)	091-0006A
b. Push Roller Shaft 22" (not shown)	093-0038
2. Front Plastic	093-100760
3. Front Plastic Retainer	093-100754
4. Hopper Bottom Plastic.....	093-100758
5. Hopper Bottom Plastic Retainer	093-100752
6. Hopper Side Plastic	093-100756
7. Hopper Side Plastic Retainer	093-100750
8. Side Flight Chain Cover.....	092-100133
9. Center Flight Chain Cover (RH).....	092-100782
a. Center Flight Chain Cover (LH)	092-100783
10. Front Flight Chain Cover	092-100762

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HOPPER ASSEMBLY – CENTER

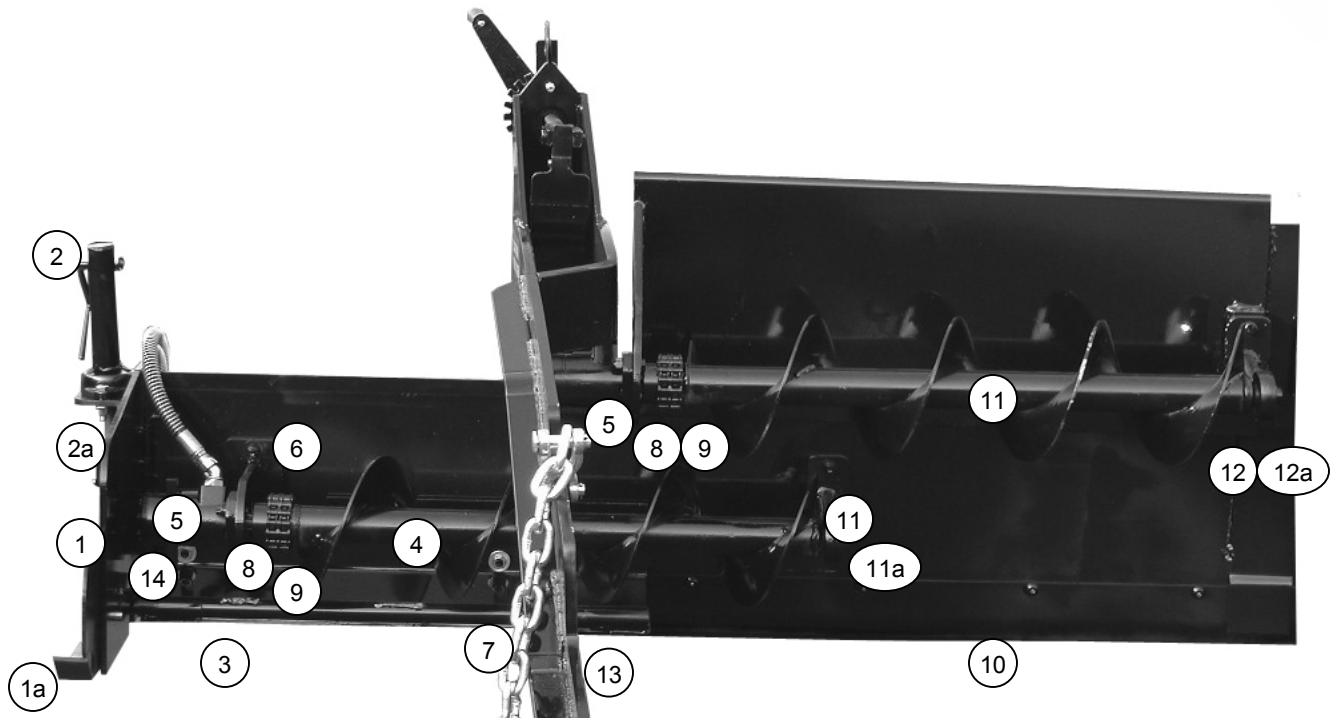


- | | |
|---|------------|
| 1. Push Roller Assembly | 091-0006 |
| a. Push Roller – 20" (<i>not shown</i>) | 091-0006A |
| b. Push Roller Shaft – 22" (<i>not shown</i>) | 093-0038 |
| 2. Front Plastic | 015-0244 |
| 3. Front Plastic Retainer (x3)..... | 093-100305 |
| Front Plastic Retainer (<i>if only 2</i>) | 093-100337 |
| 4. Hopper Bottom Plastic (x2) | 015-0180 |
| 5. Hopper Bottom Plastic Retainer (x2)..... | 093-0340 |
| 6. Front Flight Chain Cover (x2) | 092-100137 |
| 7. Side Flight Chain Cover (x2) | 092-100133 |
| 8. Center Flight Chain Cover (RH) | 092-100782 |
| Center Flight Chain Cover (LH)..... | 092-100783 |

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SCREED ASSEMBLY – FRONT

Right Side Shown

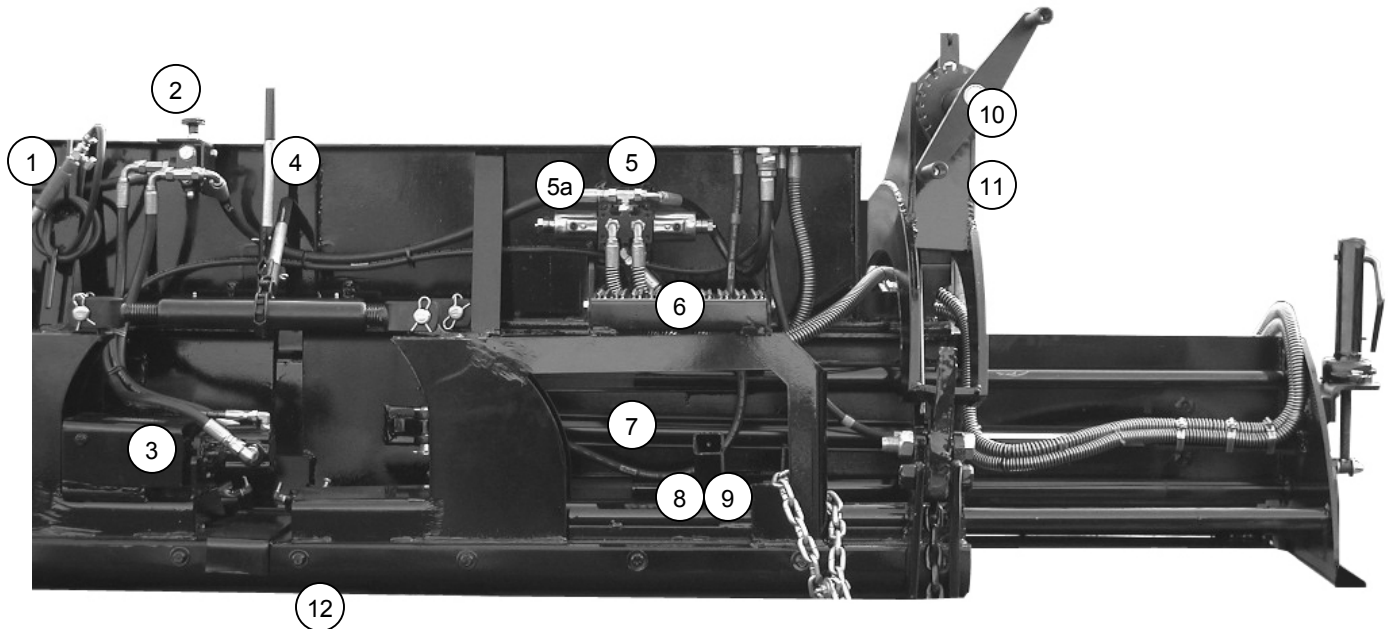


- | | |
|---|-------------------------|
| 1. End-Gate Assembly (RH)..... | 091-100591 |
| End-Gate Assembly (LH) (<i>not shown</i>) | 091-100639 |
| a. End-Gate Jointing Shoe (RH)..... | 092-0143 |
| End-Gate Jointing Shoe (LH) (<i>not shown</i>) | 092-0145 |
| 2. Extension Strike-Off Plate Adjusting Handle (x2)..... | 092-0295 |
| a. Extension Strike-Off Plate Adjusting Rod (x2) | 092-0296 |
| 3. Extension Strike-Off Plate (RH)..... | 092-0023A |
| Extension Strike-Off Plate (LH) (<i>not shown</i>) | 092-0024A |
| 4. Lower Auger (RH)..... | 092-0013 |
| Lower Auger (LH) (<i>not shown</i>) | 092-0014 |
| 5. Auger Motor (x4)..... | 013-0082 |
| 6. Auger Motor Support (RH) | 092-0141 |
| Auger Motor Support (LH) | 092-0141B |
| 7. Screed Lift Chain Assembly (x2) | 093-0338 |
| 8. Auger Motor Coupling Half (x4)..... | 015-0154 |
| 9. Auger Motor Coupling Chain (x4)..... | 015-0045 |
| 10. Main Screed Plate | 092-0275 |
| 11. Upper Auger (RH)..... | 092-0011 |
| Upper Auger (LH) (<i>not shown</i>) | 092-0012 |
| 12. Auger Hanger Support Assembly (x4)..... | 092-0142 |
| a. Auger Hanger Bearing (x4) | 018-0105 |
| 13. Screed Arm Assembly (RH) | 092-0162 |
| Screed Arm Assembly (LH) (<i>not shown</i>) | 092-0161 |
| 14. Auto Auger Asphalt Level Detection Switch Assembly (x2) (<i>not shown</i>)..... | 020-0357A |
| a. Auto Auger Asphalt Level Detection Switch (x2) (<i>not shown</i>)..... | 020-0357 |
| b. Auto Auger Cord Assembly (x2) (<i>not shown</i>)..... | 050-0304A |
| i. Detection Switch Strain Relief Connector (x2) (<i>not shown</i>)..... | 020-0303 |
| ii. Four Poll Connector Set (x2) (<i>not shown</i>)..... | <i>See Hopper Right</i> |

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SCREED ASSEMBLY – REAR

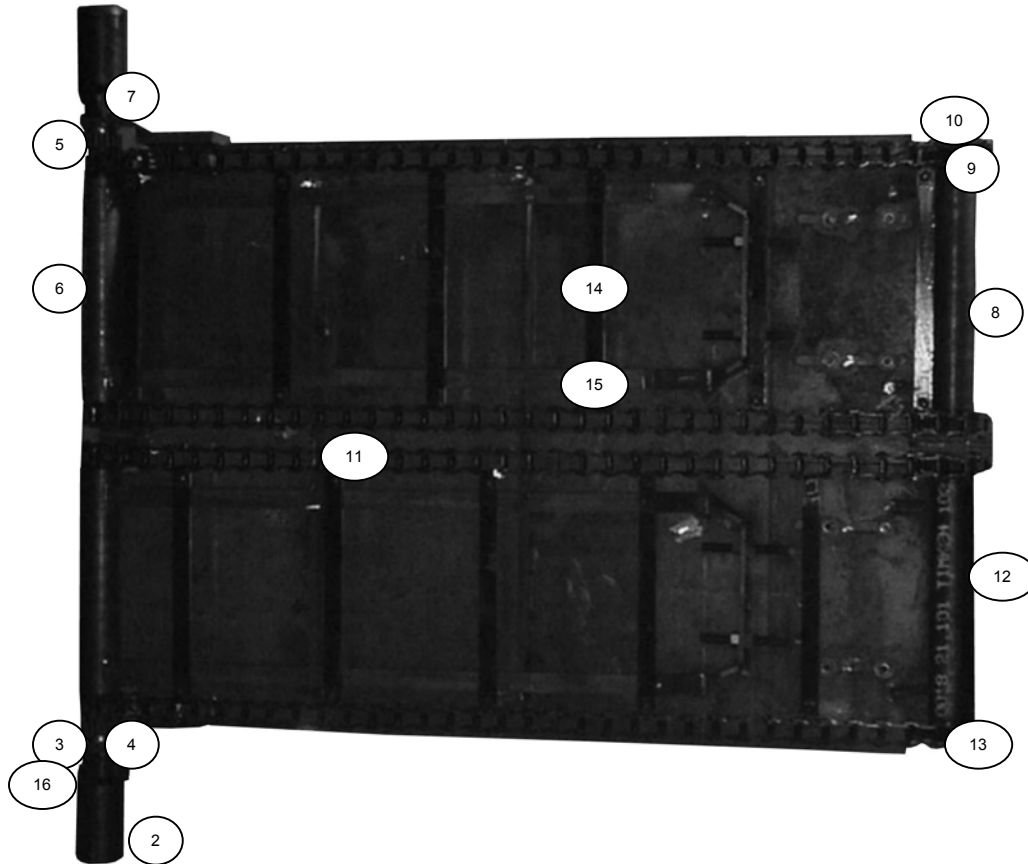
Right Side Shown



1. Screed Lighting Torch Assembly.....	See Propane Assy.
2. Vibrator Valve.....	017-1005
3. Vibrator Assembly	See Vibrator Assy.
4. Ratchet Jack (x2)	050-0147
5. Auger Motor Solenoid Valve (x2)	017-0008
a. Auger Motor Solenoid Valve Coil (x4).....	017-0090A
6. Upper Walkboard (x2)	092-0474A
7. Extension Cylinder (x2)	012-0004
8. Seat Stand (x2) <i>not shown</i>	092-0123
9. Seat (x2) <i>not shown</i>	050-0017
10. Screed Depth Adjustment Handle (x2).....	092-0045C
11. Screed Depth Adjustment Rod (x2) <i>not shown</i>	092-0046B
12. Main Walkboard Assembly <i>not shown</i>	050-0170

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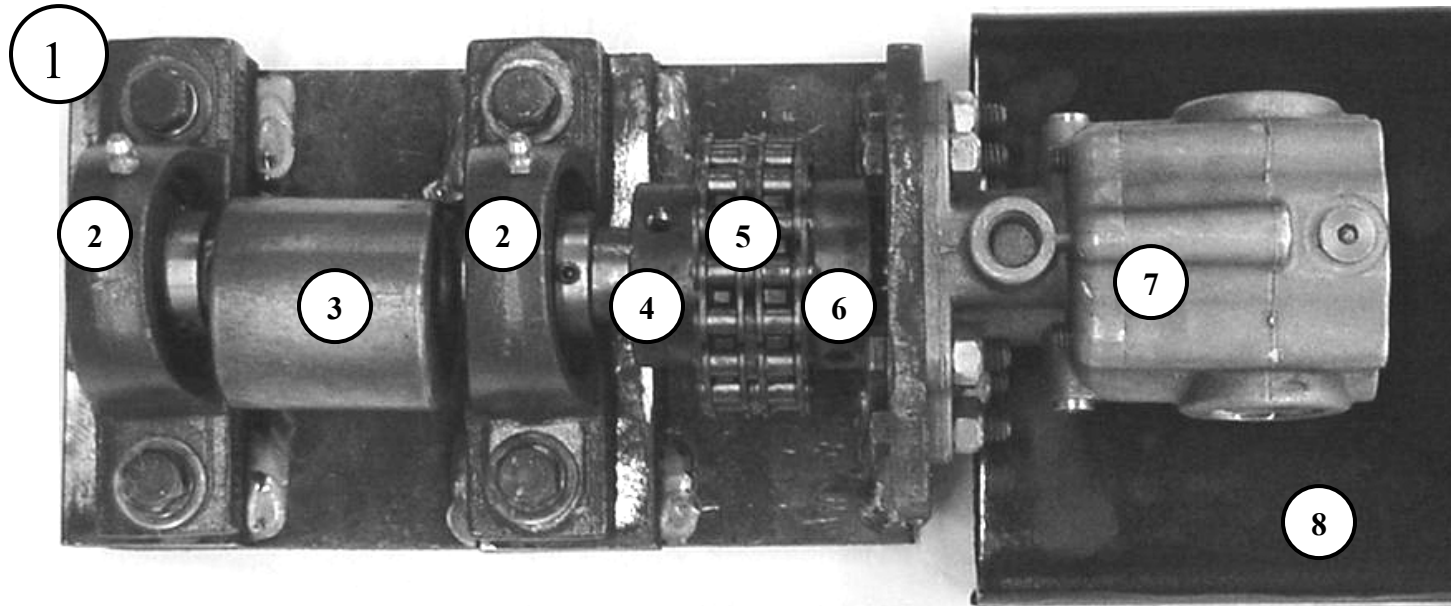
CONVEYOR ASSEMBLY



- | | |
|---|----------|
| 1. Conveyor Assembly | 090-0028 |
| 2. Motor (x2) | 013-0068 |
| 3. Motor Shaft Coupling Half (x2) | 015-0203 |
| 4. Drive Shaft Coupling Half (x2) (<i>welded to p/n 015-0204</i>) | 015-0202 |
| 5. Drive Shaft Key (x8) | 093-0335 |
| 6. Drive Shaft (x2) | 093-0332 |
| 7. Coupling Chain (x2) | 015-0046 |
| 8. Tube (x4) | 093-0334 |
| 9. Bearing (x8) | 018-0091 |
| 10. Spacer Cap (x6) | 093-0339 |
| 11. Conveyor Chain (x2) | 093-0121 |
| 12. Idler Shaft (x2) | 093-0333 |
| 13. Conveyor Chain Sprocket (x8) | 015-0204 |
| 14. Conveyor Chain Bar (x24) | 015-0258 |
| 15. Conveyor Chain Bar Rivet (x48) | 015-0259 |
| 16. Motor Shaft Coupling Key (x2) | 093-0331 |

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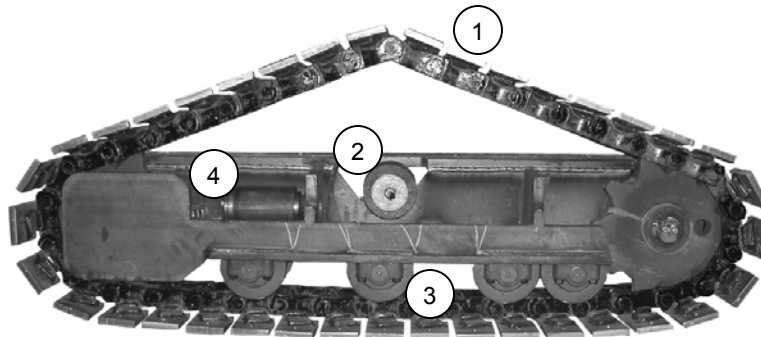
VIBRATOR ASSEMBLY



1. Vibrator Assembly Complete.....	090-0145
2. Pillow Block Bearing	018-0002
3. Vibrator Shaft.....	092-0074
4. Vibrator Shaft Coupling Half	015-0033
5. Coupling Chain	015-0044
6. Vibrator Motor Coupling Half.....	015-0119
7. Vibrator Motor	013-0055
8. Vibrator Assembly Cover	113-100640

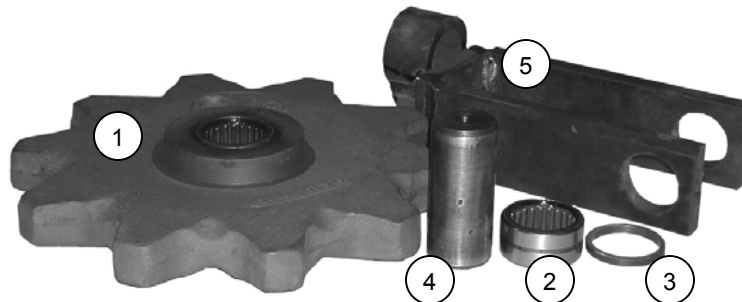
Serial Number Range: 754-AA15TKX4Y1-00754 thru _____

TRACK ASSEMBLY



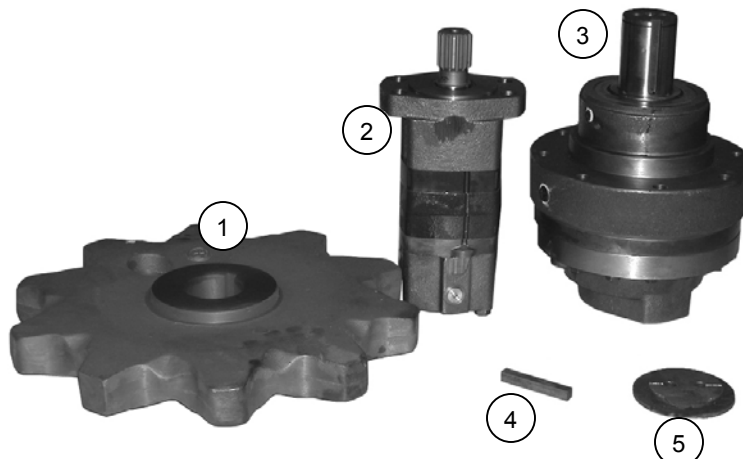
1. Track Chain Assembly 092-0173
 - a. Track Link (w/ Pad)..... 092-0118
 - b. Track Pad (Steel)..... 093-0025
 - c. Master Pin..... 015-0230
2. Idler Roller Assembly 091-0037
 - a. Idler Roller Shaft..... 092-0095
 - b. Grease Bolt..... 091-0005
 - c. Shaft Retainer..... 093-100213
3. Track Roller (x4)..... 050-0163
4. Track Tensioning Cylinder .. 012-0060

TRACK IDLER ASSEMBLY



1. Idler Sprocket Assembly 091-0042
2. Bearing (x2)..... 018-0097
3. Spacer 093-0027
4. Idler Shaft 093-0026
5. Idler Yoke 092-0176B

TRACK DRIVE ASSEMBLY



1. Drive Sprocket..... 093-0325
2. Drive Motor..... 013-0080
3. Planetary 016-0001
4. Planetary Shaft Key 093-0019
5. Spacer Cap 093-0028

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BATTERY ASSEMBLY



- 1. Battery 020-0020
- 2. Mounting Rubber 015-0212
- 3. Battery Cable (Positive) 020-0361
- 4. Battery Cable (Negative)..... 020-0318
- 5. Mounting Rod 093-0046

PROPANE ASSEMBLY

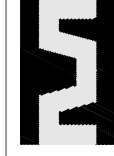


- 1. Propane Assembly 091-0058
- 2. Screed Burner (x2)..... 093-0217
- 3. Ball Valve (x2)..... 050-0154
- 4. Lighting Torch Assembly..... 090-0231
- 5. Regulator (w/ Gauge)..... 050-0049
- 6. Propane Tank 050-0039

NOTES:



Hydraulic And Electrical Schematics

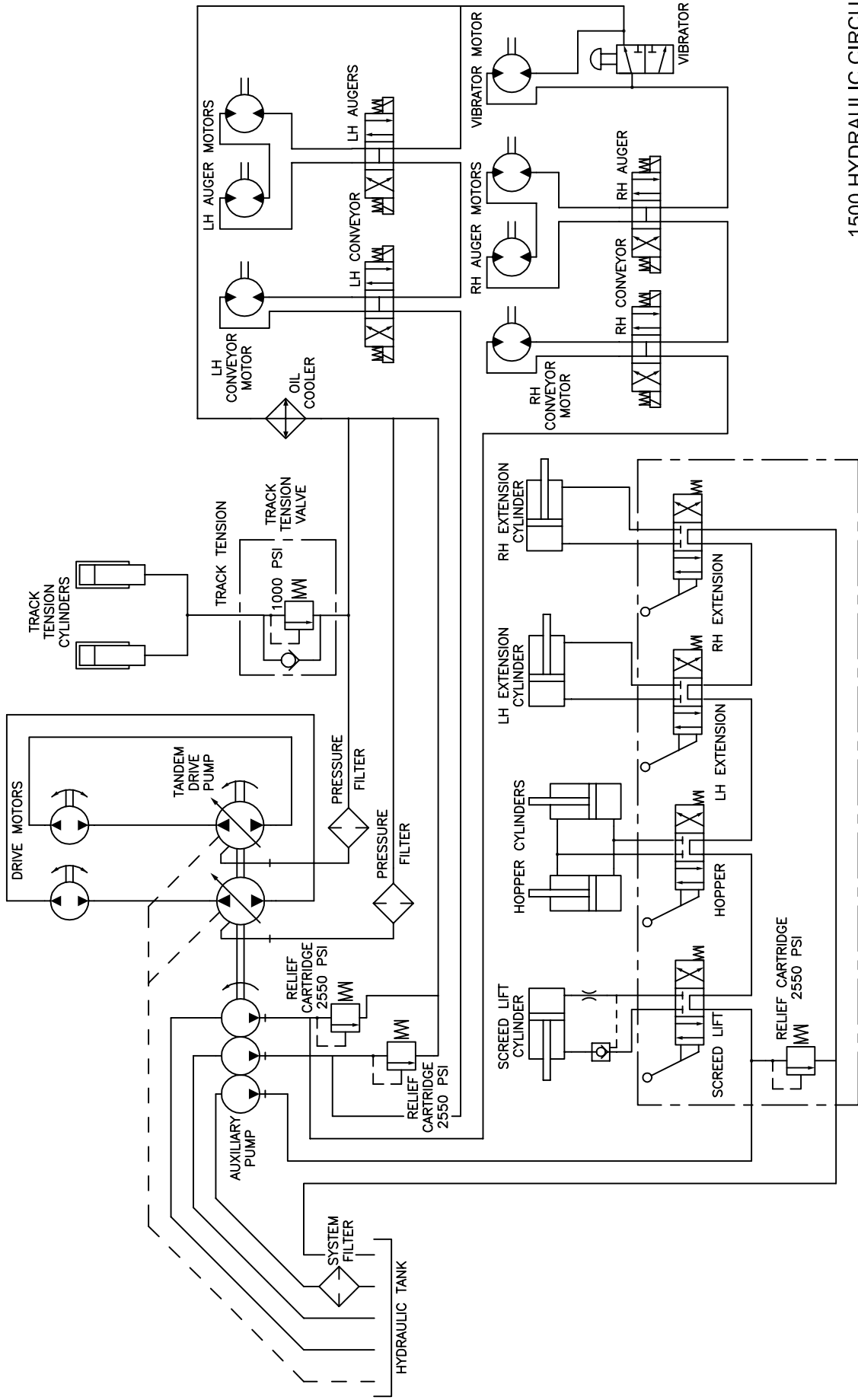


1500 Electrical Schematic

EL 1500 - 01

REVISION NO: 0
SHEET: 1 OF: 1

VENDOR No. :	NA	DRAWN:	DMC	6/21/02
VENDOR DATE:	NA	EFFECTIVE IN SN:		6/21/02
VENDOR TITLE:	NA	EFFECTIVE OUT SN:		
VENDOR CAD_FILE:	NA	CAD_FILE:	EL 1500 - 01.dwg	6/21/02



1500 HYDRAULIC CIRCUIT



MAULDIN®
PAVING PRODUCTS

DRAWN: DMC	04/25/02	TITLE: HYDRAULIC 1500	REVISION NO: 0
EFFECTIVE IN SN:		DRAWING NO:	
EFFECTIVE OUT SN:			
CAD_FILE: HY 1500 - 01.dwg	04/25/02	HY 1500 - 01	SHEET: 1 OF: 1