

Parts & Service
Operators



Fairway Ultra 15
Model 12-750-A
SN FWR15-200

June 2015

Product Support: **Hwy 55 & Poplar Ave; Cameron WI 54822**
1-800-891-9435 productsupport@smithco.com

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Accessories

Reference

Thank you for purchasing a **Smithco** product.

Read this manual and all other manuals pertaining to the Fairway Ultra 15, FairWay Roller (FWR) carefully as they contain safety, operating, assembly and maintenance instructions. Failure to do so could result in personal injury or equipment damage.

Keep manuals in a safe place after operator and maintenance personnel have read them. Right and left sides are from the operator's seat, facing forward.

WARNING

Failure to follow cautious operating practices can result in serious injury to the operator or other persons. The owner must understand these instructions, and must allow only trained persons who understand these instructions to operate this vehicle.

All **Smithco** machines have a Serial Number and Model Number. Both numbers are needed when ordering parts.

For product and accessory information, help finding a dealer, or to register your product please contact us at www.Smithco.com.

Information needed when ordering replacement parts:

1. Model Number of machine
2. Serial Number of machine
3. Name and Part Number of part
4. Quantity of parts

For easy access record your Serial and Model numbers here.

| | | | |
|--|----------------------|----------------------|-----------|
| SMITHCO | | | CE |
| WAYNE, PENNSYLVANIA 19087 USA 610-688-4009 Fax 610-688-6069 | | | |
| SERIAL NO. | kW/hp | DATE OF MFG. | |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | |
| MODEL NO. | lb/kg Empty | lb/kg Full | |
| <input type="text"/> | <input type="text"/> | <input type="text"/> | |



SAFE PRACTICES

1. It is your responsibility to read this manual and all publications associated with this machine.
2. Never allow anyone to operate or service the machine or its attachments without proper training and instructions. Never allow minors to operate any equipment.
3. Learn the proper use of the machine, the location and purpose of all the controls before you operate the equipment. Working with unfamiliar equipment can lead to accidents.
4. Wear all the necessary Personal Protective Equipment (PPE) to protect our head, eyes, ears, hands and feet. Operate the machine only in daylight or in good artificial light.
5. Inspect the area where the equipment will be used. Beware of overhead obstructions and underground obstacles. Stay alert for hidden hazards.
6. Never operate equipment that is not in perfect working order or without decals, guards, shields, or other protective devices in place.
7. Never disconnect or bypass any switch.
8. Never use your hands to search for oil leaks. Hydraulic fluid under pressure can penetrate the skin and cause serious injury.
9. This machine demands your attention. To prevent loss of control or tipping of the vehicle:
 - A. Use extra caution in backing up the vehicle. Ensure area is clear.
 - B. Do not stop or start suddenly on any slope.
 - C. Reduce speed on slopes and in sharp turns. Use caution when changing directions on slopes.
 - D. Stay alert for holes in the terrain and other hidden hazards.
 - E. Operate equipment up and down slopes, never across the face.
 - F. Before unhitching, lower trailer jack.
10. Before leaving operator's position for any reason:
 - A. Disengage all drives.
 - B. Make sure all rollers are in the up position.
 - C. Shut engine off and remove the ignition key.
 - D. Turn main power switch to the off position.
11. Keep hands, feet and clothing away from moving parts. Wait for all movement to stop before you clean, adjust or service the machine.
12. Keep the area of operation clear of all bystanders.
13. Never carry passengers.
14. Use parts and materials supplied by **Smithco** only. Do not modify any function or part.
15. Avoid sharp turns. Watch the tires of the tractor while turning to make sure they do not contact the drawbar of the Fairway Roller .

These machines are intended for professional maintenance on golf courses, sports turf, and any other area maintained turf and related trails, paths and lots. No guaranty as to the suitability for any task is expressed or implied.



SPECIFICATIONS FOR FAIRWAY ULTRA 15

WEIGHTS AND DIMENSIONS

Folded Width x Length 78" (1,98 m) Folded Width x 147" (3.73 m) Overall Length
Effective Rolling Width 180" (4,57 m)
Overall Width 185" (4,70 m)

Water Capacity 150 Gallons (567,8 l)
Rolling Weight 3300 lbs (1496,8 kg) with 150 gallon ballast weight
Dry Weight 2100 lbs (952,5 kg)

Tongue Weight Empty 100 lbs (45,36 kg)
Tongue Weight Loaded 250 lbs (113 kg)

TIRES & WHEELS

Two 26.5 x 14.00 x 12 (18 psi (1.3bar))

ROLLING GROUND PRESSURE

7 psi (.48 bar) with 150 gallons of water
4.5 psi (.31 bar) dry weight

BATTERY (Not Included)

Deep Cycle type 24F-12 Volt
BCI Group Size 24F
Cold Cranking Amps 600 minimum
Ground Terminal Polarity Negative (-)
Maximum Length 10.25" (26 cm)
Maximum Width 6.88" (17 cm)
Maximum Height 10" (25 cm)

FLUID CAPACITY

Hydraulic Fluid(PN 9042) 2 Gal (7,57 liter) MileMaster 303 Tractor HYD Fluid or equivalent

TOW VEHICLE

Minimum drawbar power of 20 HP (15 kW)
Heavy Duty Vehicle with 4 wheel brakes
3500 lb (1587,57 kg) Towing Capacity
40 Amp Charge Capacity



SETUP

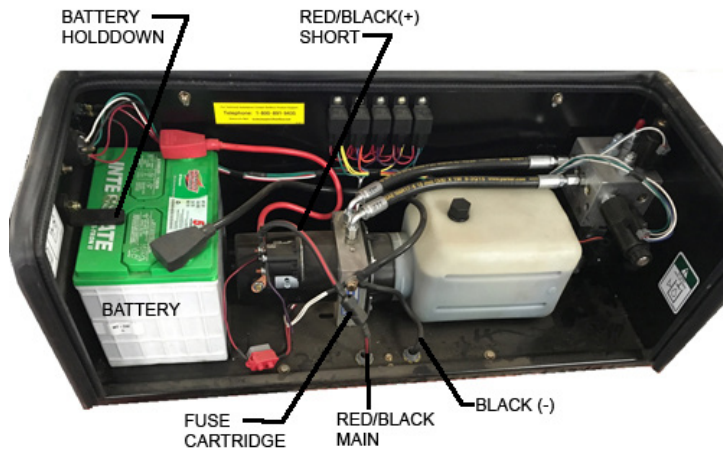


Battery not included.

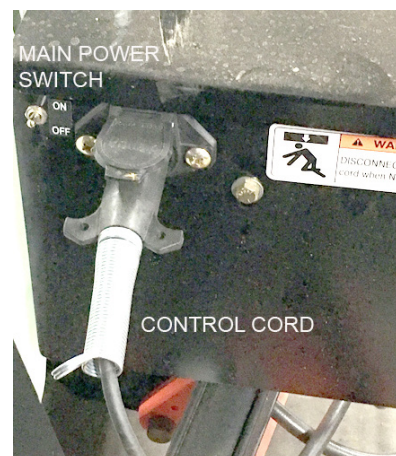
1. Install an Automotive type 24F-12 Volt battery into the Power Box and secure with the battery hold-down.
2. Fill the power unit with approximately 1.50 Gal (5.68 liter) MileMaster 303 Tractor HYD Fluid or equivalent.



3. Connect hitch to tow vehicle. Adjust hitch as necessary to level roller frame. Best performance is achieved with roller frame level or hitch slightly up.
4. Install charge cable to tow vehicle battery.
 - A. Route cable to battery on the tow vehicle. Avoid exhaust, heat and moving parts.
 - B. Connect **(-)black cable** to battery ground (-).
 - C. Connect **(+) red/black short cable** to battery positive(+).



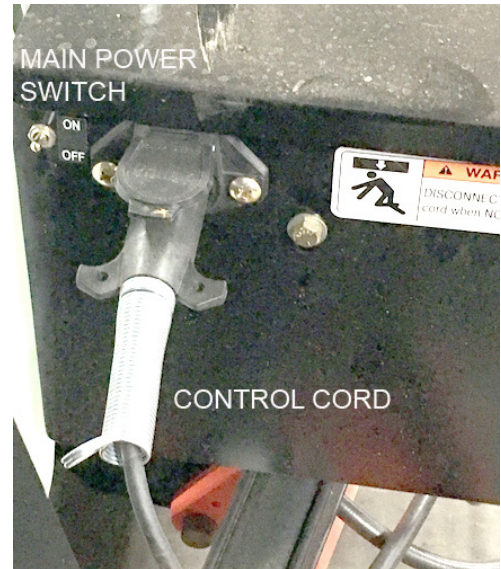
- D. Connect **(+) red/black short cable** to main cable through fuse cartridge.
 - E. Connect plugs at hitch, leaving enough cable slack for turning.
5. Fill water tank with water. Tank holds 150 gallons (567,8 l). **Tank must be full for proper operation.**
 6. Connect control cord. Turn main switch off and hand switch to center position to avoid unintentional operation.



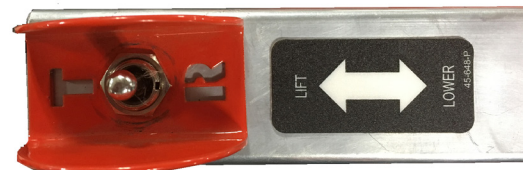
7. Test operation - Avoid operating on hard surface.

STAND CLEAR 10' DURING ALL OPERATION

A. Place main power switch in the "ON" position.



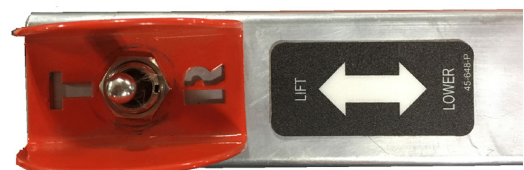
B. Place hand switch in "LOWER" position and allow the unit to cycle completely. Unit will switch off automatically when it reaches roll pressure.



C. Verify hitch position. Roller frame should be level or slightly 'nose up' while towing with rollers deployed. Adjust as necessary.



D. Place hand switch in "LIFT" position. Rollers will stop automatically in the full position up.



OPERATION

Hillside Operation

Do NOT stop or start suddenly on any slope. Be especially cautious when changing direction. Do NOT operate on slopes greater than 20°.

To Level Frame.

1. Connect hitch to tow vehicle
2. Adjust hitch as necessary to level roller frame.
3. Best performance is achieved with roller frame level or hitch slightly up.

To Transport Rollers MUST be in up position.

1. Raise roller for transport by placing hand control in "LIFT" position.
2. Tow at a safe speed.

To Roll Fairways.

1. Stop tow vehicle.
2. Place hand switch in the "LOWER" position.
3. Extend outboard rollers. Wait for full deployment before towing.
4. Tow and roll at a safe speed.

Flat/Level Fairways

1. Set hand switch to the "LOWER" position.
2. Pressure will be automatically maintained.
3. Allow unit to fully deploy before towing.

Contoured/ Undulating Fairways

1. Set hand switch to the "LOWER" position
2. Allow unit to fully deploy.
3. Place hand switch to center position before towing.



Before servicing or making adjustments to machine, stop engine on tow vehicle and remove key from ignition.



Use all procedures and parts prescribed by the manufacturer.

Before operating this machine, become familiar with all controls and functions of this unit and the tow vehicle. Also complete all maintenance requirements and read all safety warnings. By knowing both machines thoroughly, how it operates and by doing the prescribed maintenance steps, you can expect relatively trouble-free operation for years to come.

TOW VEHICLE

You will need a heavy duty vehicle with 4 wheel brakes.

Transport Frame Assembly requires a clevis hitch and a $\frac{3}{4}$ diameter by 4" pin with some type of lock. Tow vehicle must be capable of 250 lb tongue weight.

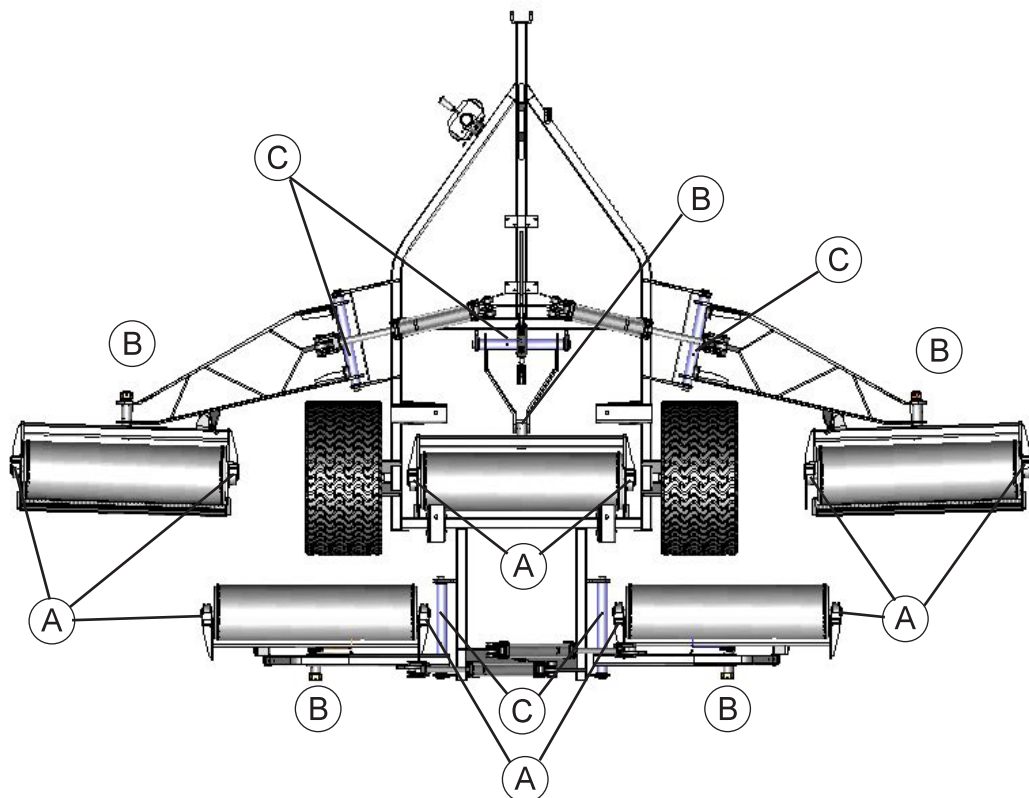
OPERATION SAFETY

1. Before operation check to see that rollers are rotating properly.
2. When not in use, make sure rollers are in the "UP" position. Turn main power switch to the off position.

LUBRICATION

Use No. 2 General Purpose Lithium Base Grease and lubricate after the first 10 hours of use then every 100 hours thereafter. The Fairway Ultra 15 has 20 grease fittings. When inserting grease, be careful not to ruin the seal, if this happens, replace the seal at once. Be sure to wipe grease fitting clean before injecting grease. Give only one or two pumps of grease at each lubrication.

- A. One on each pillow block. (10)
- B. One on each roller shaft housing. (5)
- C. One on right and left, front and rear wing. (5)



MAINTENANCE

WHEEL MOUNTING PROCEDURE

1. Set park brake on tow vehicle. Turn machine off and remove key.
2. Turn off main power switch on power box.
2. Block one of the other wheels.
3. Loosen nuts slightly on wheel to be removed.
4. Lift with floor jack until wheel is off the ground.
5. Remove nuts, remove wheel.
6. Place new wheel on hub lining up bolt holes.
7. Torque nuts to 64-74 ft/lb (87-100Nm) using a cross pattern. Retorque after first 10 hours and every 200 hours thereafter.

TIRE PRESSURE

Caution must be used when inflating a low tire to recommended pressure. Over inflating can cause tires to explode. Tires on the machine should be 18 psi (1.3 bar). Improper inflation will reduce tire life considerably.

DAILY CHECKLIST

1. Check engine oil level in tow vehicle. Add as needed. **DO NOT OVERFILL.**
2. Check Fairway Roller for loose or missing nuts, bolts, screws, etc., and tighten or replace as needed..
3. Check that all rollers are in good condition.
4. Grease roller and arms after the first 10 hours of operation and then every 100 hours thereafter..
5. Check hydraulic hoses for any leaks or loose connections.
6. Check tire pressure. 18 psi (1.3 bar)
7. Check electrical system for loose connections or frayed wiring, including battery cables. Replace any faulty equipment or tighten if loose.
8. Fill water tank.
9. Check fluid level in power unit. Use Universal Trans-Draulic Oil.

SERVICE INTERVALS

After First 10 hours:

Check rollers for wear.

Lubricate all grease fittings

After 50 hours:

Check wheel lug nuts torque to 64-74 ft/lb (87-100Nm).

Inspect tires - Check air pressure 18 psi (1.3 bar)

After 100 hours:

Lubricate all grease fittings.

After 125 hours:

Lubricate wheel bearings.

After 250 Hours:

Drain oil and fill power unit with approximately 1.50 gallons (5,7 l) Universal Trans-Draulic Oil.

Tire - Torque nuts to 64-74 ft/lb (87-100Nm) using a cross pattern.



BATTERY

Batteries normally produce explosive gases which can cause personal injury. Do not allow flames, sparks or any ignited object to come near the battery. When charging or working near battery, always shield your eyes and always provide proper ventilation.

Battery cable should be disconnected before using "Fast Charge".

Charge battery at 15 amps for 10 minutes or 7 amps for 30 minutes. Do not exceed the recommended charging rate. If electrolyte starts boiling over, decrease charging.

Always remove grounded (-) battery clamp first and replace it last. Avoid hazards by:

1. Filling batteries in well-ventilated areas.
2. Wear eye protection and rubber gloves.
3. Avoid breathing fumes when electrolyte is added.
4. Avoid spilling or dripping electrolyte.



Battery Electrolyte is an acidic solution and should be handled with care. If electrolyte is splashed on any part of your body, flush all contact areas immediately with liberal amounts of water. Get medical attention immediately.

STORAGE

1. Before storing clean machine thoroughly.
2. Check bolts and nuts, tighten as necessary.
3. Make all repairs that are needed and remove any debris.
4. Store in a clean and dry area.
5. Make sure rollers are in the "UP" position.
6. Turn main power switch to the off position.
7. Disconnect control cord to prevent unintended deployment.

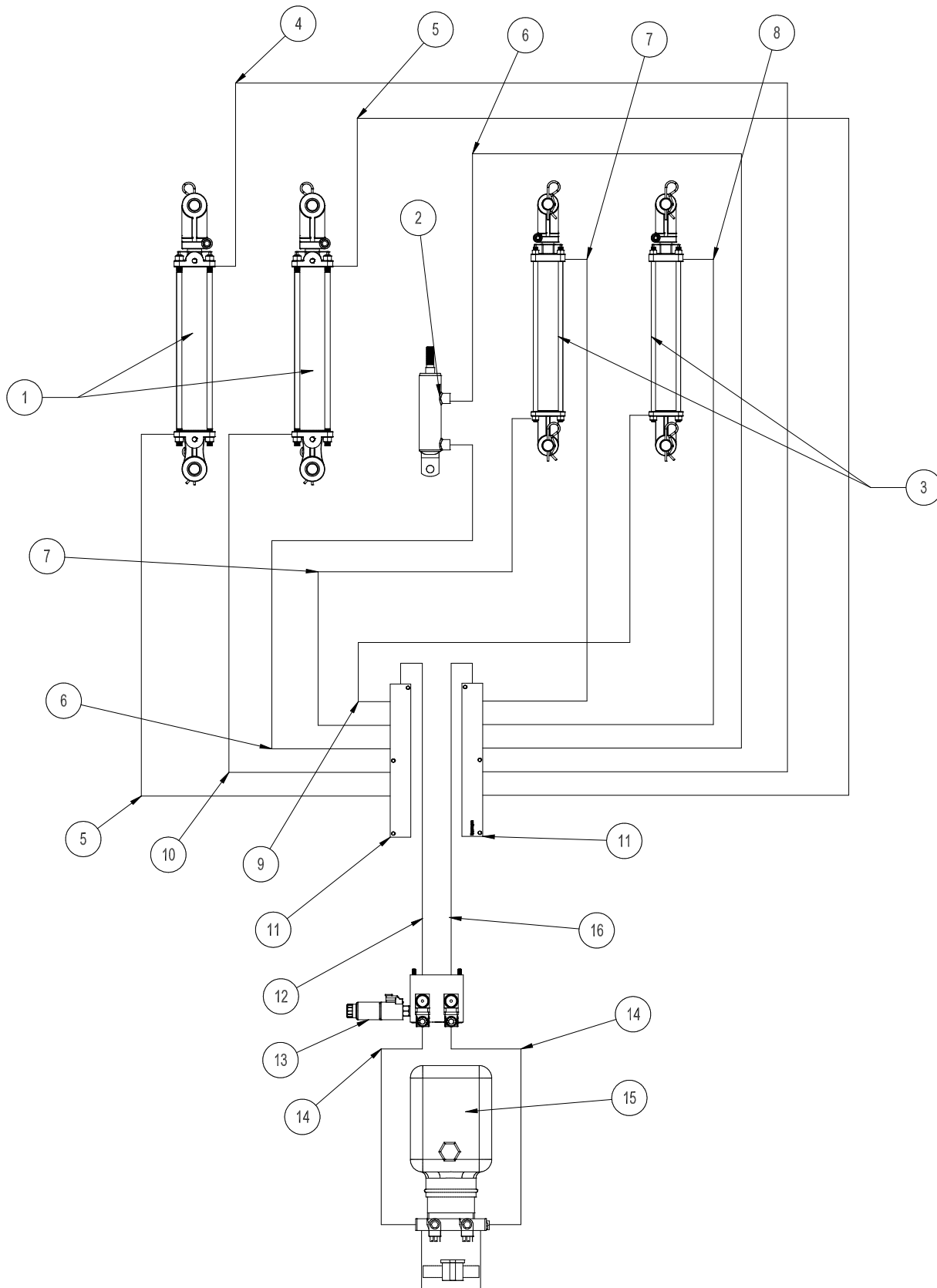
WIRING PARTS LIST

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|-----------|--|----------|
| 1 | 12-568 | Toggle Switch | 1 |
| | 12-792 | Switch Guard | 1 |
| | 12-578 | Round Magnet | 1 |
| | 9043 | Flag Connector | 3 |
| 2 | 12-569 | Wire Cable | 1 |
| 3 | 12-573 | Male Trailer Connector | 1 |
| 4 | 12-572 | Female Trailer Connector | 1 |
| 5 | 8975 | Circuit Breaker, 30 Amp | 1 |
| | 8977 | Circuit Breaker Boot | 1 |
| 6 | 30-042-06 | Relay | 5 |
| 7 | 12-585 | Power Unit | 1 |
| 8 | 18-445 | Cord Connector | 2 |
| 9 | 74-270 | Parallel Battery Cable | 116" |
| 10 | 74-271 | Power Connector | 2 |
| 11 | 74-273 | MIDI High AMP Fuse | 2 |
| | 12-566 | MIDI Fuse Holder | 2 |
| | 74-276 | #10 Ring Terminal | 4 |
| 12 | 74-270 | Parallel Battery Cable | 8" |
| | 74-272 | Standard Eyelet | 2 |
| 13 | 76-327 | Battery Cable, Black | 1 |
| 14 | | Automotive type 24F-12 Volt Battery (not included) | 1 |
| 15 | 22-055 | Battery Cable, Red | 1 |
| 16 | 74-270 | Parallel Battery Cable | 168" |
| 17 | 74-270 | Parallel Battery Cable | 8" |
| | 74-272 | Standard Eyelet | 2 |
| 18 | 12-003 | Toggle Switch | 1 |

NS 12-574 Wire Harness, Ultra 15' Roller

- A 12-600 Manifold Block
- B Float Valve (on Manifold Block)
- C 475 PSI Down Switch (on Manifold Block)
- D 1450 PSI Up Switch (on Manifold Block)
- E Directional Valve (on Manifold Block)

HYDRAULIC DIAGRAM



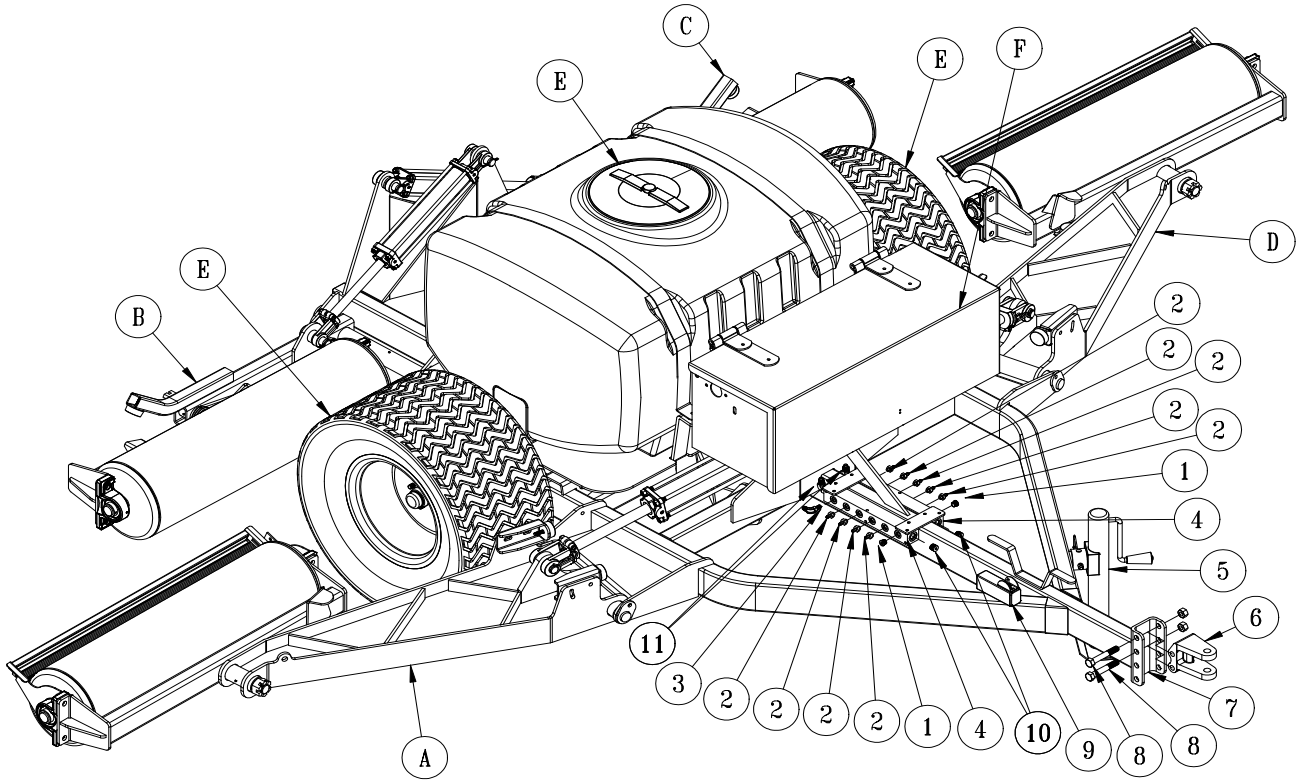
Diagrams

HYDRAULIC PARTS LIST

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|--------|---------------------------|----------|
| 1 | 12-514 | Front Hydraulic Cylinder | 2 |
| 2 | 12-519 | Center Hydraulic Cylinder | 1 |
| 3 | 12-571 | Rear Hydraulic Cylinder | 2 |
| 4 | 12-589 | Hydraulic Hose, 46" | 1 |
| 5 | 12-593 | Hydraulic Hose, 28" | 2 |
| 6 | 12-592 | Hydraulic Hose, 33" | 2 |
| 7 | 12-586 | Hydraulic Hose, 100" | 2 |
| 8 | 12-588 | Hydraulic Hose, 104.5" | 1 |
| 9 | 12-587 | Hydraulic Hose, 115" | 1 |
| 10 | 12-591 | Hydraulic Hose, 35.5" | 1 |
| 11 | 12-584 | Manifold | 2 |
| 12 | 12-598 | Hydraulic Hose, 31.5" | 1 |
| 13 | 12-600 | Manifold Block | 1 |
| 14 | 12-594 | Hydraulic Hose, 15" | 2 |
| 15 | 12-585 | Power Unit | 1 |
| 16 | 12-590 | Hydraulic Hose, 33.5" | 1 |

Diagrams

12-750 MAIN DRAWING



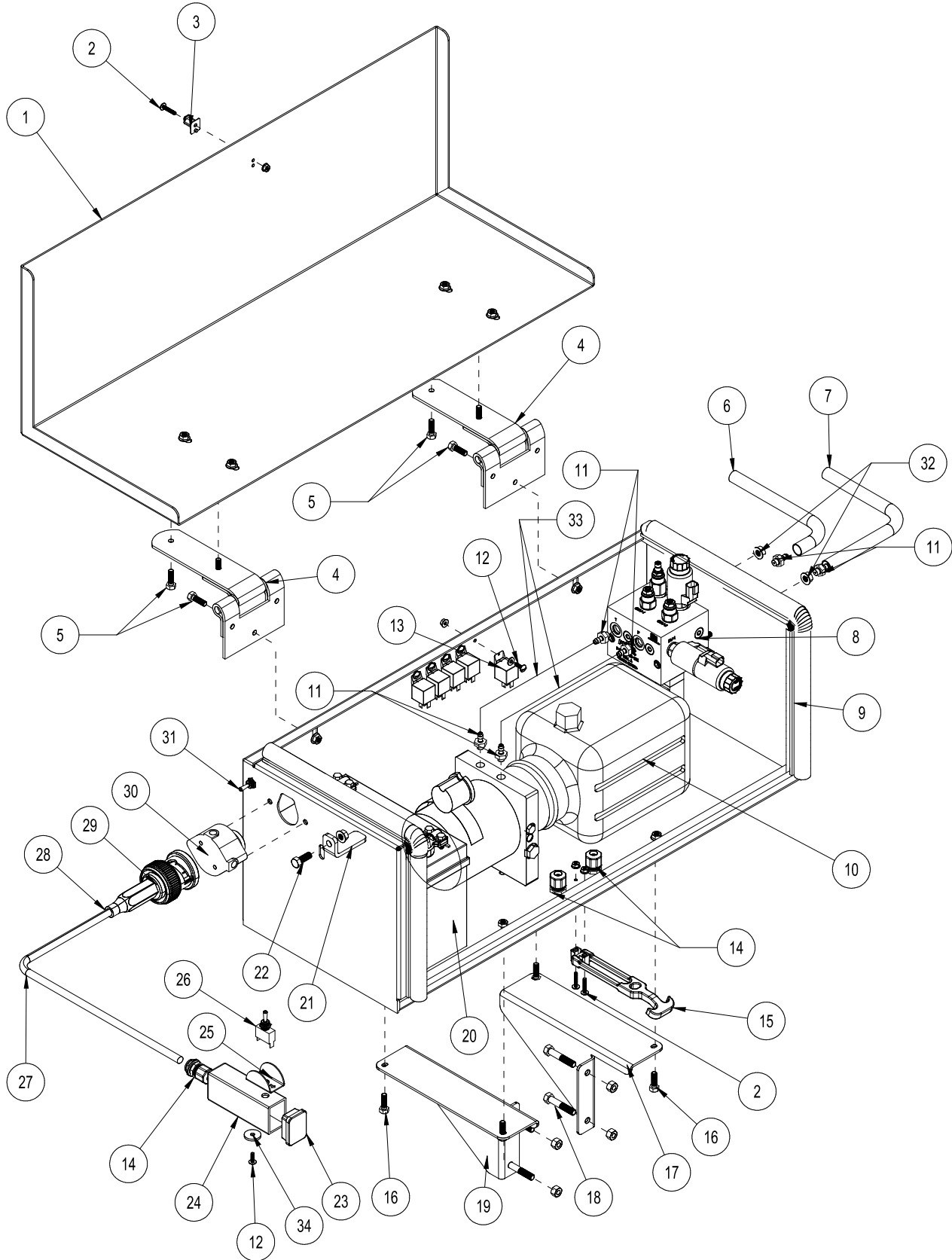
Parts

12-750 MAIN DRAWING

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|--------------|-------------------------------------|----------|
| 1 | 23-126 | Hollow Hex Plug, #6 | 2 |
| 2 | 18-169 | $\frac{3}{8}$ SAE Adapter | 9 |
| 3 | 18-168 | $\frac{3}{8}$ Straight Thread Elbow | 1 |
| 4 | 12-584 | Manifold | 2 |
| 5 | 78-240 | Trailer Jack | 1 |
| 6 | 78-244 | Adjustable $\frac{3}{4}$ " Clevis | 1 |
| 7 | 12-760 | Main Frame | 1 |
| 8 | HB-58-11-500 | Bolt, $\frac{5}{8}$ - 11 x 5 | 2 |
| | HNTL-58-11 | Lock Nut, $\frac{5}{8}$ -11 | 2 |
| 9 | 12-568 | Toggle Switch (Breakout on page 16) | 1 |
| | 12-792 | Switch Guard | 1 |
| 10 | 18-228 | Hollow Hex Plug, #8 | 2 |
| 11 | 18-185 | Elbow | 2 |

| | | |
|---|------------------------|---------|
| A | RH Front Outboard Wing | Page 18 |
| B | RH Rear Wing | Page 20 |
| C | LH Rear Wing | Page 24 |
| D | LH Front Outboard Wing | Page 22 |
| E | Tank and Rear Wheel | Page 28 |
| F | Power Box | Page 16 |

POWER BOX DRAWING

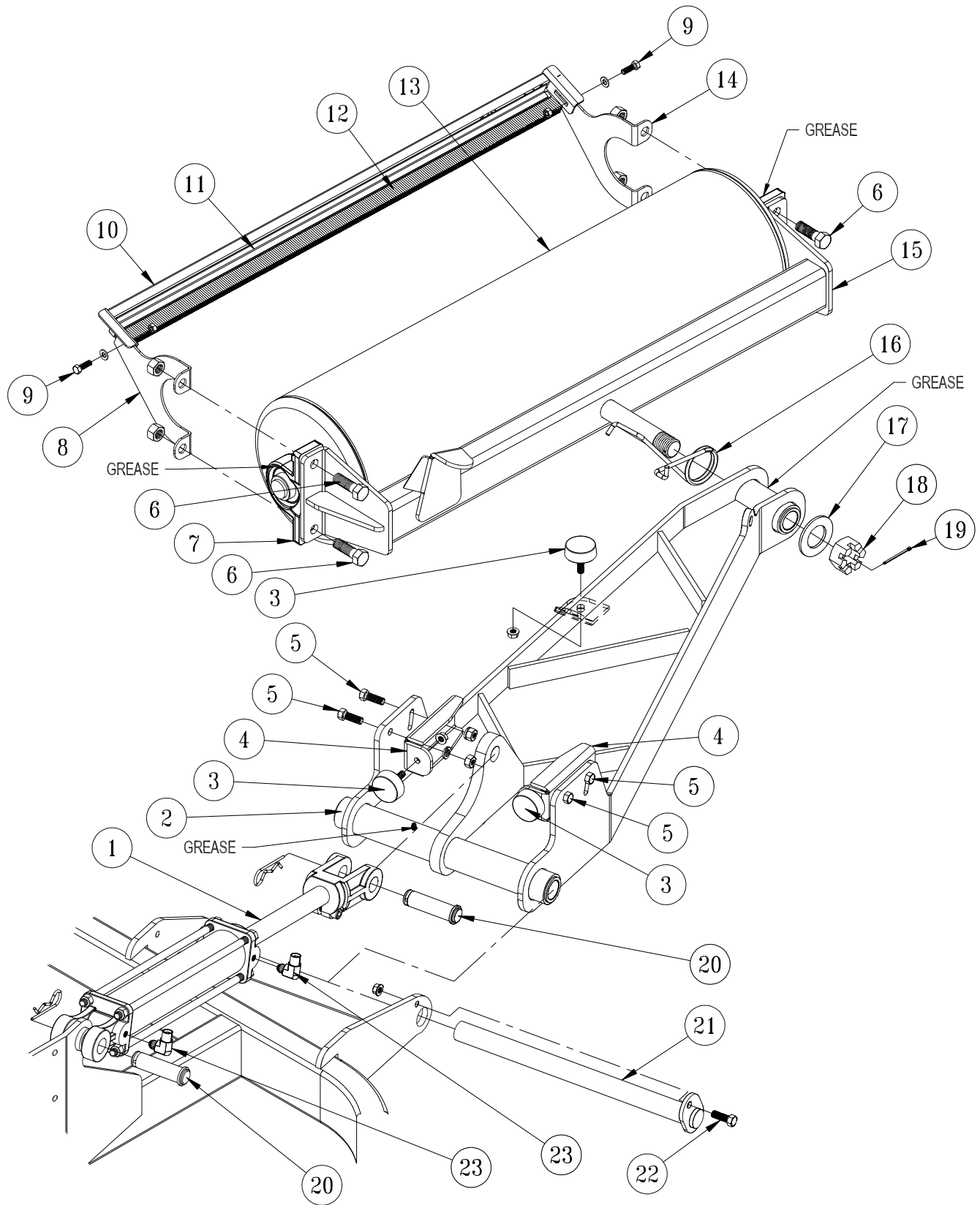


Parts

POWER BOX DRAWING

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|---------------|--|----------|
| 1 | 12-786 | Power Box Cover | 1 |
| 2 | HSM-10-32-100 | Machine Screw, #10-32 x 1 | 3 |
| | HNFL-10-32 | Flange Lock Nut, #10- 32 | 3 |
| 3* | 15-437-01 | Keeper | 1 |
| 4 | 74-231 | Hinge | 2 |
| 5 | HB-516-18-100 | Bolt, $\frac{5}{16}$ -18 x 1 | 6 |
| | HNFL-516-18 | Flange Lock Nut, $\frac{5}{16}$ - 18 | 6 |
| 6 | 12-598 | Hydraulic hose, 31.5" | 1 |
| 7 | 12-590 | Hydraulic Hose, 33.5" | 1 |
| 8 | 12-600 | Manifold Block | 1 |
| 9 | 12-778 | Power Box | 1 |
| | 8947-80 | Trim Seal, 80" | 1 |
| 10 | 12-585 | Power Unit | 1 |
| | 9042 | Hydraulic Fluid | 2 GAL |
| 11 | 18-169 | $\frac{3}{8}$ SAE Adapter | 6 |
| 12 | HSM-10-32-063 | Machine Screw, #10 -32 x $\frac{5}{8}$ | 6 |
| | HW-10 | Washer, #10 | 5 |
| | HNFL-10-32 | Flange Lock Nut, #10-32 | 6 |
| 13 | 30-042-06 | Relay | 5 |
| 14 | 18-445 | Cord Connector | 3 |
| 15* | 15-437-02 | Handle and Bracket | 1 |
| 16 | HB-14-20-075 | Bolt, $\frac{1}{4}$ - 20 x $\frac{3}{4}$ | 4 |
| | HW-14 | Washer, $\frac{1}{4}$ | 4 |
| | HNFL-14-2 | Flange Lock Nut, $\frac{1}{4}$ -20 | 4 |
| 17 | 12-771 | LH Power unit Mount | 1 |
| 18 | HB-38-16-200 | Bolt, $\frac{3}{8}$ - 16 x 2 | 4 |
| | HNTL-38-16 | Lock Nut, $\frac{3}{8}$ - 16 | 4 |
| 19 | 12-772 | RH Power Unit Mount | 1 |
| 20 | | Battery - Automotive type 24F-12 Volt (Not Included) | 1 |
| | 76-327 | Battery Cable, Negative | 1 |
| | 22-055 | Battery Cable, Positive | 1 |
| 21 | 74-234 | Battery Hold Down | 1 |
| 22 | HB-38-16-100 | Bolt, $\frac{3}{8}$ - 16 x 1 | 1 |
| | HNTL-38-16 | Lock Nut, $\frac{3}{8}$ - 16 | 1 |
| 23 | 12-575 | Rectangular Cap | 1 |
| 24 | 12-790 | Switch Handle | 1 |
| 25 | 12-792 | Switch Guard | 1 |
| 26 | 12-568 | Toggle Switch | 1 |
| 27 | 12-569 | 4-Wire Cable | 1 |
| 28 | 12-577 | Trailer Connector Guard | 1 |
| 29 | 12-573 | Male Trailer Connector | 1 |
| 30 | 12-572 | Female Trailer Connector | 1 |
| 31 | 12-003 | Toggle Switch | 1 |
| 32 | HNFL-38-16 | Flange Lock Nut, $\frac{3}{8}$ - 16 | 2 |
| 33 | 12-594 | Hydraulic Hose, 15" | 2 |
| 34 | 12-578 | Magnet | 1 |
| * | 15-437 | Latch, Complete | 1 |

LEFT FRONT OUTBOARD WING



Parts

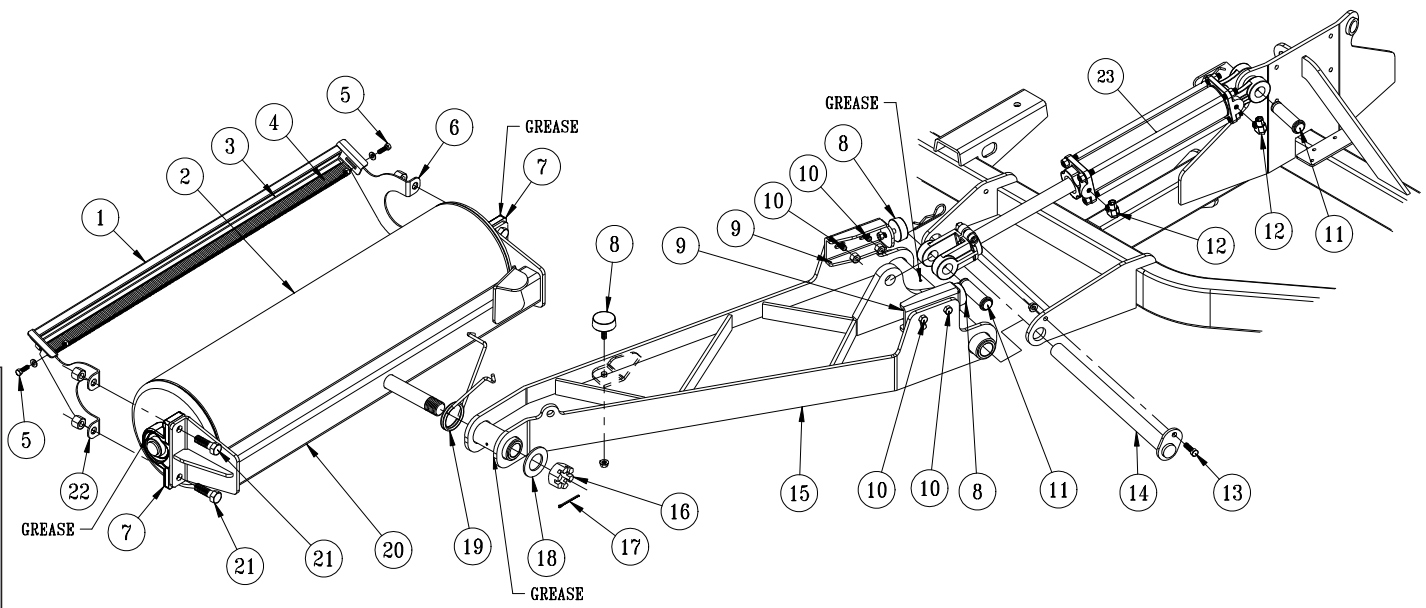
LEFT FRONT OUTBOARD WING

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|---------------|---|----------|
| 1 | 12-514 | Hydraulic Cylinder (* comes with clevis pins) | 1 |
| 2 | 12-784 | LH Outboard Wing | 1 |
| | 18-153 | Bushing | 4 |
| | HG-14-28-180 | Grease Fitting, 1/4 - 28 x 180° | 2 |
| 3 | 50-081 | Rubber Bumper | 3 |
| | HNFL-38-16 | Flange Lock Nut, 3/8- 16 | 3 |
| 4 | 12-791 | Outboard Wing Limit | 2 |
| 5 | HB-716-14-125 | Bolt, 7/16 -14 x 1 1/4 | 4 |
| | HWL-716 | Lock Washer, 7/16 | 4 |
| | HN-716-14 | Nut, 7/16 - 14 | 4 |
| 6 | HB-58-11-200 | Bolt, 5/8 -11 x 2 | 4 |
| | HNTL-58-11 | Lock Nut, 5/8 - 11 | 4 |
| 7 | 75-511 | Pillow Block | 2 |
| | HG-14-28-180 | Grease Fitting, 1/4 - 28 x 180° | 2 |
| 8 | 12-774 | RH Brush Mount | 1 |
| 9 | HB-516-18-100 | Bolt, 5/16 - 18 x 1 | 2 |
| | HW-516 | Washer, 5/16 | 2 |
| | HNFL-516-18 | Flange Lock Nut, 5/16 - 18 | 2 |
| 10 | 12-789 | Brush Mount | 1 |
| 11 | 12-798 | Strip Brush Holder | 1 |
| | HRS-316-025 | Rivet, 3/16 x 1/4 | 5 |
| 12 | 12-599 | Strip Brush | 1 |
| 13 | 12-788 | Roller | 1 |
| 14 | 12-773 | LH Brush Mount | 1 |
| 15 | 12-785 | LH Outboard Roller Mount | 1 |
| 16 | 12-796 | Torsion Spring, LH Front | 1 |
| 17 | HMB-114-14 | Machine Bushing, 1/4 x 14GA | 1 |
| 18 | HNA-114-12 | Axle Nut, 1 1/4 - 12 | 1 |
| 19 | HP-18-200 | Cotter Pin, 1/8 x 2 | 1 |
| 20* | HCP-100-325 | Clevis Pin, 1 x 3 1/4 | 2 |
| | HHP-.177 | Bridge Pin, .177 x 3 3/4 | 2 |
| 21 | 12-797 | Pivot Shaft | 1 |
| 22 | HB-38-16-100 | Bolt, 3/8 - 16 x 1 | 1 |
| | HNTL-38-16 | Lock Nut, 3/8 -16 | 1 |
| 23 | 23-167 | Male Elbow | 2 |

LEFT REAR WING

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|--------------|---|----------|
| 1 | HP-18-200 | Cotter Pin, 1/8 x 2 | 3 |
| 2* | HCP-100-325 | Clevis Pin, 1 x 3 1/4 | 2 |
| 3 | 23-167 | Male Elbow | 2 |
| 4 | 12-571 | Hydraulic Cylinder (* comes with clevis pins) | 1 |
| 5 | HB-38-16-100 | Bolt, 3/8 - 16 x 1 | 1 |
| | HNTL-38-16 | Lock Nut, 3/8 -16 | 1 |
| 6 | 12-797 | Pivot Shaft | 1 |
| 7 | 12-762 | Left Rear Wing | 1 |
| | 18-153 | Bushing | 4 |
| | HG-14-28-180 | Grease Fitting, 1/4 - 28 x 180° | 2 |
| 8 | HNA-114-12 | Axle Nut, 1 1/4 - 12 | 1 |
| 9 | 50-081 | Rubber Bumper | 1 |
| | HNFL-38-16 | Flange Lock Nut, 3/8- 16 | 1 |
| 10 | 12-765 | Spring Spacer | 2 |
| 11 | 12-794 | Torsion Spring, LH Rear | 1 |
| 12 | 12-766 | LH Rear Roller Frame | 1 |
| 13 | 12-775 | Brush Bracket | 1 |
| 14 | 12-798 | Strip Brush Holder | 1 |
| | HRS-316-025 | Rivet, 3/16 x 1/4 | 5 |
| 15 | HB-38-16-100 | Bolt, 3/8 - 16 x 1 | 4 |
| | HW-38 | Washer, 3/8 | 4 |
| 16 | 12-599 | Strip Brush | 1 |
| 17 | 75-511 | Pillow Block | 2 |
| | HG-14-28-180 | Grease Fitting, 1/4 - 28 x 180° | 2 |
| 18 | HB-58-11-200 | Bolt, 5/8 -11 x 2 | 4 |
| | HW-58 | Washer, 5/8 | 4 |
| | HNTL-58-11 | Lock Nut, 5/8 - 11 | 4 |
| 19 | 12-788 | Roller | 1 |

RIGHT FRONT OUTBOARD WING

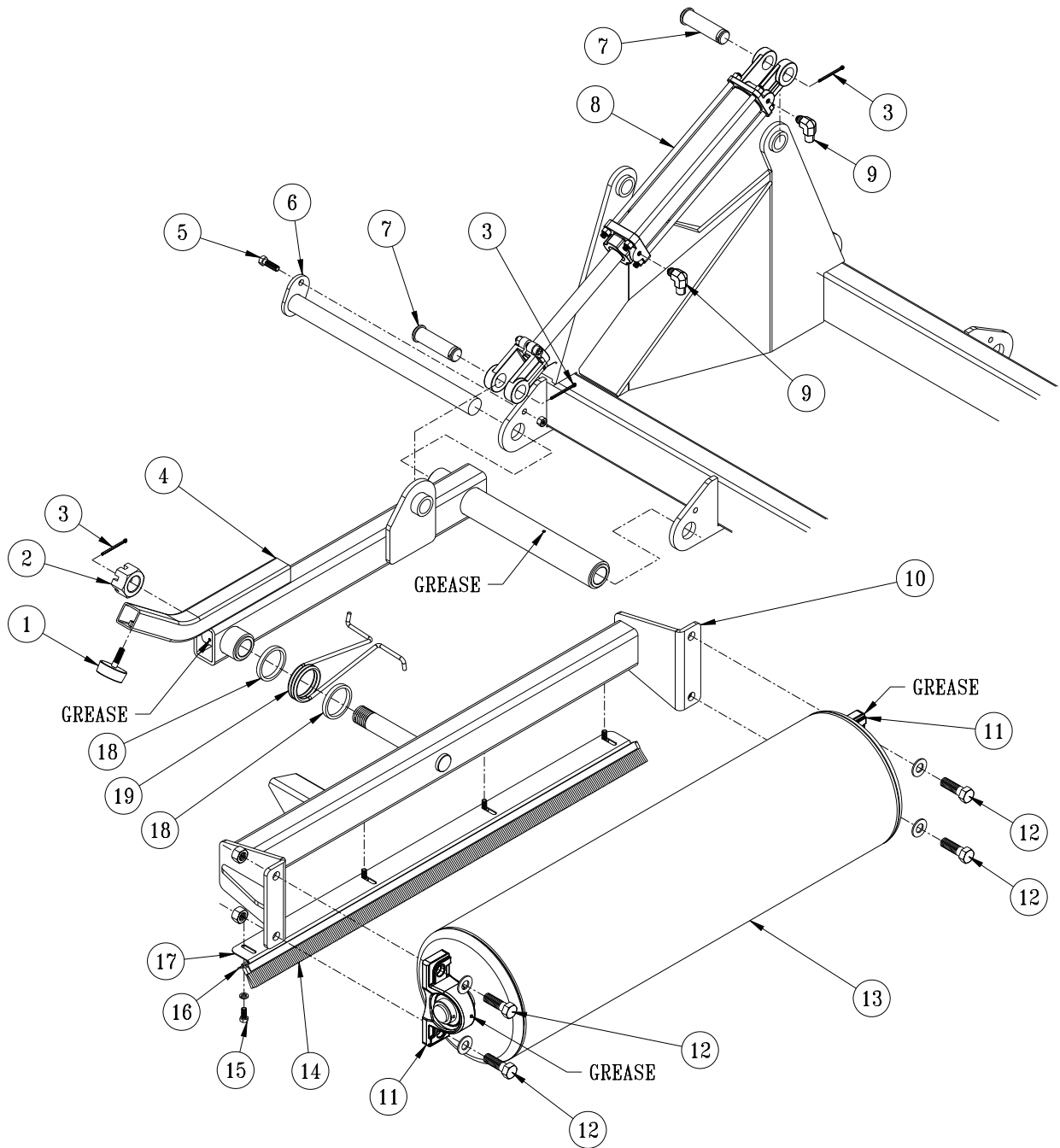


PARTS

RIGHT FRONT OUTBOARD WING

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|---------------|---|----------|
| 1 | 12-789 | Brush Mount | 1 |
| 2 | 12-788 | Roller | 1 |
| 3 | 12-798 | Strip Brush Holder | 1 |
| | HRS-316-025 | Rivet, $\frac{3}{16}$ x $\frac{1}{4}$ | 5 |
| 4 | 12-599 | Strip Brush | 1 |
| 5 | HB-516-18-100 | Bolt, $\frac{5}{16}$ - 18 x 1 | 2 |
| | HW-516 | Washer, $\frac{5}{16}$ | 2 |
| | HNFL-516-18 | Flange Lock Nut, $\frac{5}{16}$ - 18 | 2 |
| 6 | 12-773 | LH Brush Mount | 1 |
| 7 | 75-511 | Pillow Block | 2 |
| | HG-14-28-180 | Grease Fitting, $\frac{1}{4}$ - 28 x 180° | 2 |
| 8 | 50-081 | Rubber Bumper | 3 |
| | HNFL-38-16 | Flange Lock Nut, $\frac{3}{8}$ - 16 | 3 |
| 9 | 12-791 | Outboard Wing Limit | 2 |
| 10 | HB-716-14-125 | Bolt, $\frac{7}{16}$ -14 x $1\frac{1}{4}$ | 4 |
| | HWL-716 | Lock Washer, $\frac{7}{16}$ | 4 |
| | HN-716-14 | Nut, $\frac{7}{16}$ - 14 | 4 |
| 11* | HCP-100-325 | Clevis Pin, 1 x $3\frac{1}{4}$ | 2 |
| | HHP-.177 | Bridge Pin, .177 x $3\frac{3}{4}$ | 2 |
| 12 | 23-167 | Male Elbow | 2 |
| 13 | HB-38-16-100 | Bolt, $\frac{3}{8}$ - 16 x 1 | 1 |
| | HNTL-38-16 | Lock Nut, $\frac{3}{8}$ -16 | 1 |
| 14 | 12-797 | Pivot Shaft | 1 |
| 15 | 12-767 | RH Outboard Wing | 1 |
| | 18-153 | Bushig | 4 |
| | HG-14-28-180 | Grease Fitting, $\frac{1}{4}$ - 28 x 180° | 2 |
| 16 | HNA-114-12 | Axle Nut, $1\frac{1}{4}$ - 12 | 1 |
| 17 | HP-18-200 | Cotter Pin, $\frac{1}{8}$ x 2 | 1 |
| 18 | HMB-114-14 | Machine Bushing, $1\frac{1}{4}$ x 14GA | 1 |
| 19 | 12-795 | Torsion Spring, RH Front | 1 |
| 20 | 12-776 | RH Outboard Roller Mount | 1 |
| 21 | HB-58-11-200 | Bolt, $\frac{5}{8}$ -11 x 2 | 4 |
| | HNTL-58-11 | Lock Nut, $\frac{5}{8}$ - 11 | 4 |
| 22 | 12-774 | RH Brush Mount | 1 |
| 23 | 12-514 | Hydraulic Cylinder (* comes with clevis pins) | 1 |

RIGHT REAR WING



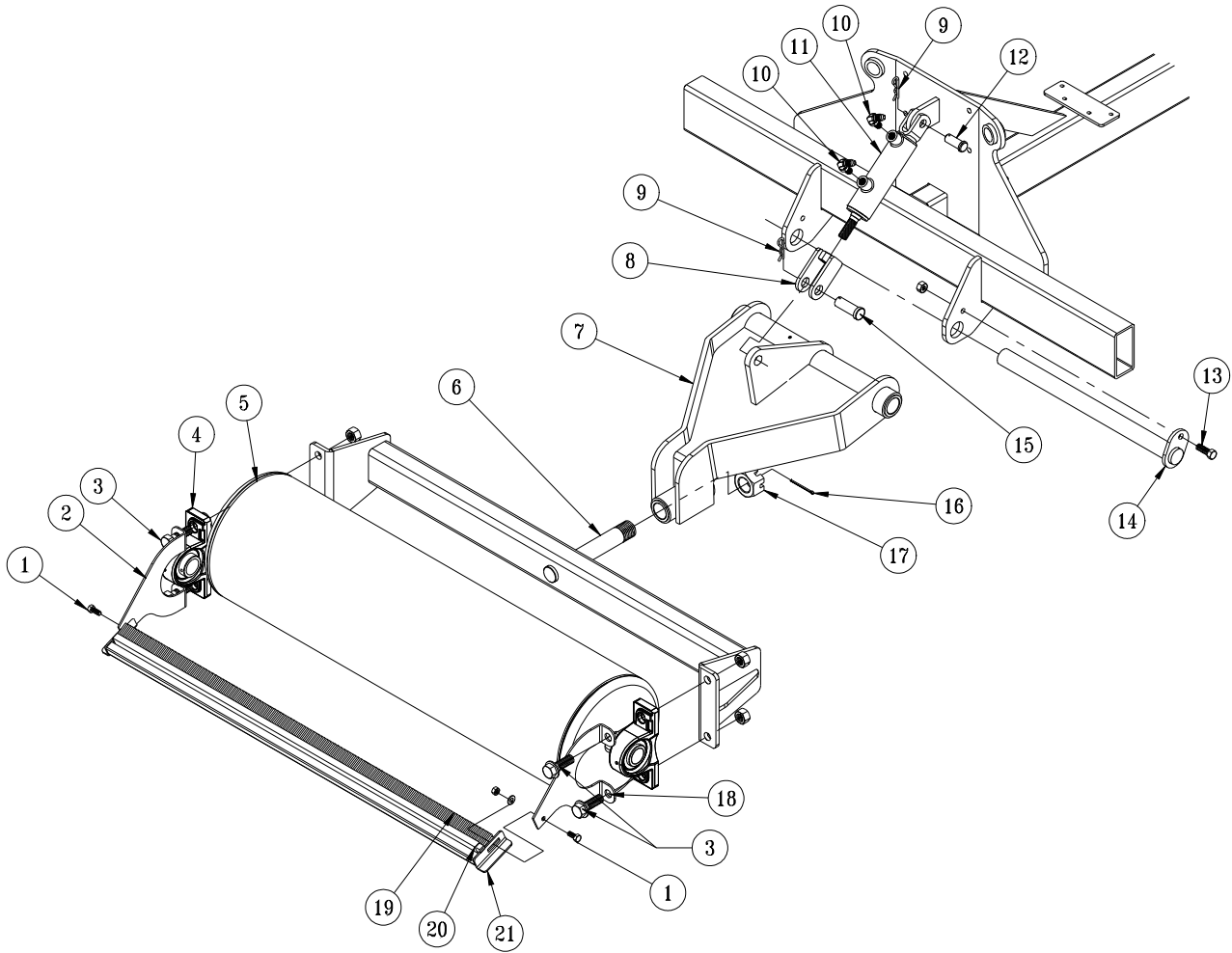
Parts

RIGHT REAR WING

| REF# | PART# | DESCRIPTION | QUANTITY |
|-------------|--------------|---|-----------------|
| 1 | 50-081 | Rubber Bumper | 1 |
| | HNFL-38-16 | Flange Lock Nut, $\frac{3}{8}$ - 16 | 1 |
| 2 | HNA-114-12 | Axle Nut, $1\frac{1}{4}$ - 12 | 1 |
| 3 | HP-18-200 | Cotter Pin, $\frac{1}{8}$ x 2 | 3 |
| 4 | 12-763 | Right Rear Wing | 1 |
| | 18-153 | Bushing | 4 |
| | HG-14-28-180 | Grease Fitting, $\frac{1}{4}$ - 28 x 180° | 2 |
| 5 | HB-38-16-100 | Bolt, $\frac{3}{8}$ - 16 x 1 | 1 |
| | HNTL-38-16 | Lock Nut, $\frac{3}{8}$ -16 | 1 |
| 6 | 12-797 | Pivot Shaft | 1 |
| 7* | HCP-100-325 | Clevis Pin, 1 x $3\frac{1}{4}$ | 2 |
| 8 | 12-571 | Hydraulic Cylinder (* comes with clevis pins) | 1 |
| 9 | 23-167 | Male Elbow | 2 |
| 10 | 12-777 | RH Rear Roller Frame | 1 |
| 11 | 75-511 | Pillow Block | 2 |
| | HG-14-28-180 | Grease Fitting, $\frac{1}{4}$ - 28 x 180° | 2 |
| 12 | HB-58-11-200 | Bolt, $\frac{5}{8}$ -11 x 2 | 4 |
| | HW-58 | Washer, $\frac{5}{8}$ | 4 |
| | HNTL-58-11 | Lock Nut, $\frac{5}{8}$ - 11 | 4 |
| 13 | 12-788 | Roller | 1 |
| 14 | 12-599 | Strip Brush | 1 |
| 15 | HB-38-16-100 | Bolt, $\frac{3}{8}$ - 16 x 1 | 4 |
| | HW-38 | Washer, $\frac{3}{8}$ | 4 |
| 16 | 12-798 | Strip Brush Holder | 1 |
| | HRS-316-025 | Rivet, $\frac{3}{16}$ x $\frac{1}{4}$ | 5 |
| 17 | 12-775 | Brush Bracket | 1 |
| 18 | 12-765 | Spring Spacer | 2 |
| 19 | 12-793 | Torsion Spring, Right Rear | 1 |

CENTER ROLLER

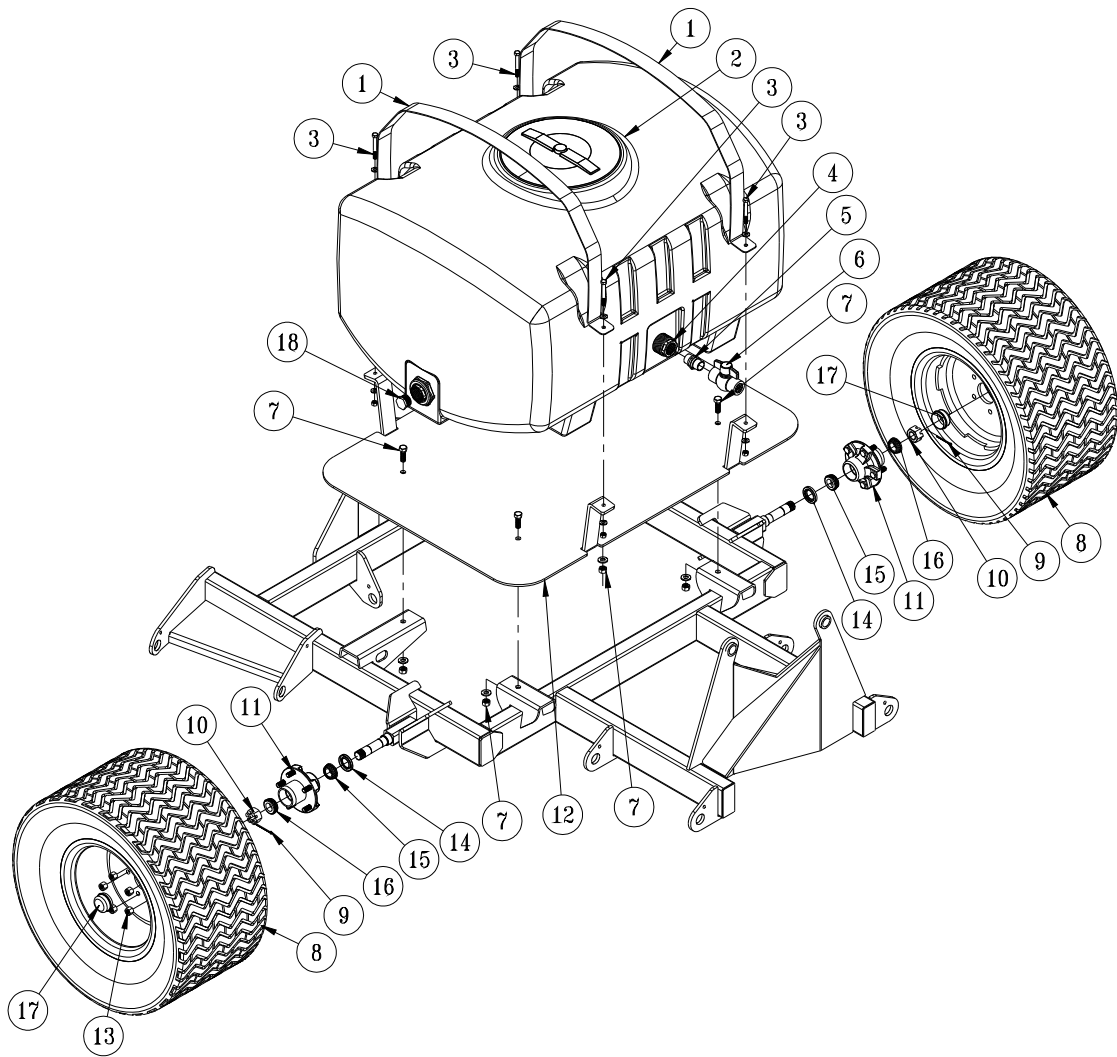
PARTS



CENTER ROLLER

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|---------------|---|----------|
| 1 | HB-516-18-100 | Bolt, $\frac{5}{16}$ - 18 x 1 | 2 |
| | HW-516 | Washer, $\frac{5}{16}$ | 2 |
| | HNFL-516-18 | Flange Lock Nut, $\frac{5}{16}$ - 18 | 2 |
| 2 | 12-774 | RH Brush Mount | 1 |
| 3 | HB-58-11-200 | Bolt, $\frac{5}{8}$ - 11 x 2 | 4 |
| | HNTL-58-11 | Lock Nut, $\frac{5}{8}$ - 11 | 4 |
| 4 | 75-511 | Pillow Block | 2 |
| | HG-14-28-180 | Grease Fitting, $\frac{1}{4}$ - 28 x 180° | 2 |
| 5 | 12-788 | Roller | 1 |
| 6 | 12-787 | Center Roller Mount | 1 |
| 7 | 12-761 | Center Lift | 1 |
| | 18-153 | Bushing | 4 |
| | HG-14-28-180 | Grease Fitting, $\frac{1}{4}$ - 28 x 180° | 2 |
| 8 | 12-783 | Cylinder Extension | 1 |
| 9 | HHP-18 | Bridge Pin, $\frac{1}{8}$ | 2 |
| 10 | 18-168 | $\frac{3}{8}$ - 90° Elbow | 2 |
| 11 | 12-519 | Hydraulic Cylinder | 1 |
| 12 | HCP-34-200 | Clevis Pin, $\frac{5}{8}$ x 1-1/2 | 1 |
| 13 | HB-38-16-100 | Bolt, $\frac{3}{8}$ - 16 x 1 | 1 |
| | HNTL-38-16 | Lock Nut, $\frac{3}{8}$ - 16 | 1 |
| 14 | 12-797 | Pivot Shaft | 1 |
| 15 | HCP-34-200 | Clevis Pin, $\frac{3}{4}$ x 2 | 1 |
| 16 | HP-18-200 | Cotter Pin, $\frac{1}{8}$ x 2 | 1 |
| 17 | HNA-114-12 | Axle Nut, 1 $\frac{1}{4}$ - 12 | 1 |
| 18 | 12-773 | LH Brush Mount | 1 |
| 19 | 12-599 | Strip Brush | 1 |
| 20 | 12-798 | Strip Brush Holder | 1 |
| | HRS-316-025 | Rivet, $\frac{3}{16}$ x $\frac{1}{4}$ | 5 |
| 21 | 12-789 | Brush Mount | 1 |

TANK AND REAR WHEELS

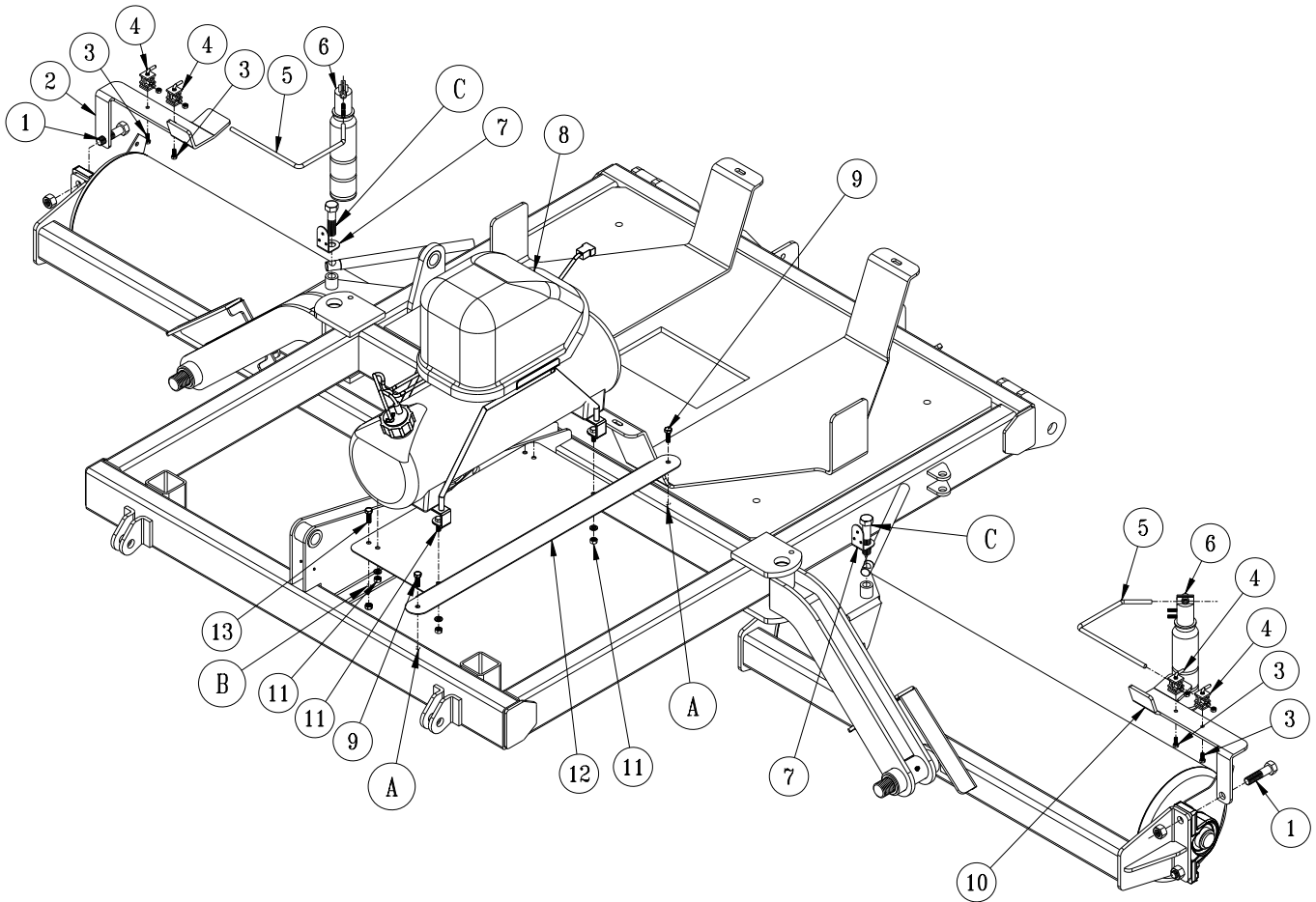


Parts

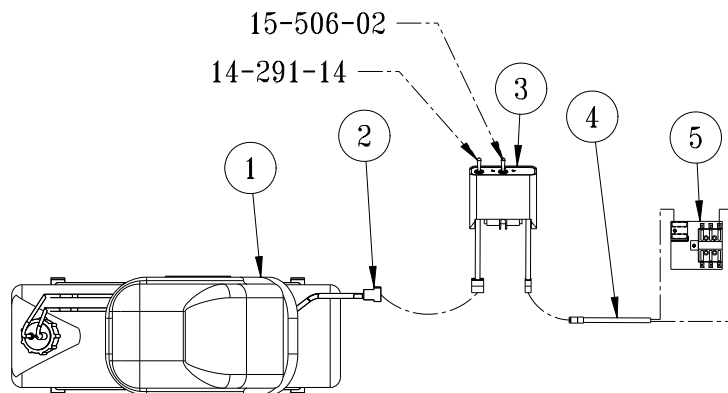
TANK AND REAR WHEELS

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|--------------|---|----------|
| 1 | 12-770 | Tank Strap | 2 |
| 2 | 12-576 | 150 Gallon Tank | 1 |
| 3 | HB-38-16-225 | Bolt, $\frac{3}{8}$ -16 x 2 $\frac{1}{4}$ | 4 |
| | HW-38 | Washer, $\frac{3}{8}$ | 4 |
| | HNTL-38-16 | Lock Nut, $\frac{3}{8}$ -16 | 4 |
| 4 | 16-945 | 1" Double Thread Fitting | 1 |
| 5 | 16-851 | 1" Nylon Close Nipple | 1 |
| 6 | 18-448 | 1" PVC Ball Valve | 1 |
| 7 | HB-12-13-150 | Bolt, $\frac{1}{2}$ -13 x 1 $\frac{1}{2}$ | 4 |
| | HW-12 | Washer, $\frac{1}{2}$ | 4 |
| | HNTL-12-13 | Lock Nut, $\frac{1}{2}$ -13 | 4 |
| 8 | 72-042 | Tire and Wheel | 2 |
| | 33-072-01 | Tire, 26.5 x 14.00 x 12 | 2 |
| | 72-042-02 | Wheel, 12 x 10.5 | 2 |
| 9 | HP-18-200 | Cotter Pin, $\frac{1}{8}$ x 2 | 2 |
| 10 | HNAR-100-14 | Axle Nut, 1 - 14 | 2 |
| 11 | 33-073 | Hub Assembly, 3500# (includes * items) | 2 |
| 12 | 12-764 | Tank Base | 1 |
| 13* | HNL-12-20 | Lug Nut, $\frac{1}{2}$ - 20 | 10 |
| 14* | 33-073-01 | Seal | 2 |
| 15* | 78-118 | Inner Bearing | 2 |
| 16* | 78-119 | Outer Bearing | 2 |
| 17* | 33-073-02 | Dust Cap | 2 |
| * | 15-505-02 | Intake Exhaust Valve Sub Assembly | |
| † | 15-505-04 | Intake Piston Sub Assembly | |

12-751 FOAM MARKER KIT



FOAM MARKER WIRING DRAWING



12-751 FOAM MARKER KIT

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|---------------|---|----------|
| 1 | HB-58-11-250 | Hex Bolt, $\frac{5}{8}$ -11 x 2 $\frac{1}{2}$ | 2 |
| 2 | 12-580 | RH Nozzle Mount | 1 |
| 3 | HBM-6-1-16 | Metric Hex Bolt, 6-1 x 16 | 4 |
| | HNM-6-1 | Metric Hex Nut, 6-1 | 4 |
| 4 | 16-987 | Foam Nozzle Mounting Kit | 2 |
| 5 | 12-579 | Nozzle Mount Rod | 2 |
| 6 | 15-511 | Foam Nozzle | 2 |
| 7 | 12-583 | Hose Mount Bracket | 2 |
| 8 | 14-291 | Foamer | 1 |
| | 14-291-04 | Tank Bracket | 2 |
| | 14-284-02 | Cap Assembly | 1 |
| | | Blue Tube | 1 |
| | | Clear Tube | 1 |
| | 14-291-03 | Compressor Only | 1 |
| | 14-291-01 | Black Cover | 1 |
| | 14-291-02 | Foamer Tank | 1 |
| | 14-291-05 | Double Switch Box | 1 |
| | 15-506-01 | Fuse (F10A 250) | 1 |
| | 15-506-02 | Switch | 1 |
| 9 | HB-516-18-100 | Hex Bolt, $\frac{5}{16}$ - 18 x 1 | 2 |
| 10 | 12-581 | LH Nozzle Mount | 1 |
| 11 | HB-516-18-100 | Hex Bolt, $\frac{5}{16}$ - 18 x 1 | 4 |
| | HN-516-18 | Hex Nut, $\frac{5}{16}$ - 18 | 4 |
| | HWL-516 | Lock Washer, $\frac{5}{16}$ | 4 |
| 12 | 12-582 | Tank Mount | 1 |
| 13 | HB-516-18-100 | Hex Bolt, $\frac{5}{16}$ - 18 x 1 | 2 |
| | HN-516-18 | Hex Nut, $\frac{5}{16}$ - 18 | 2 |

FOAM MARKER WIRING PARTS LIST

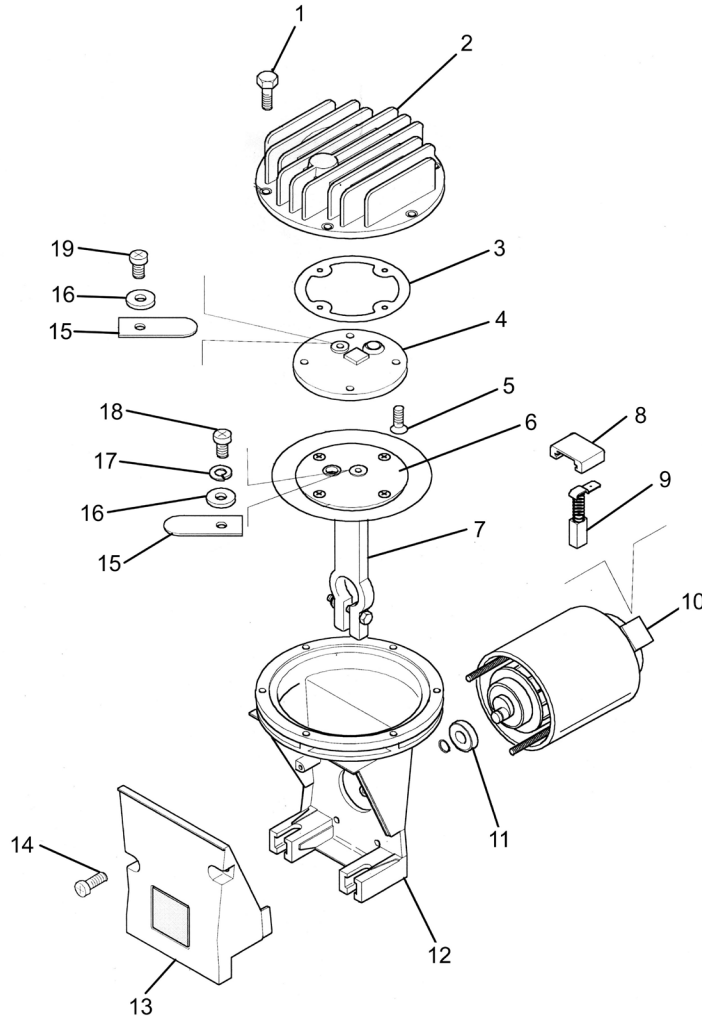
| REF# | PART# | DESCRIPTION | QUANTITY |
|------|-----------|------------------------------|----------|
| 1 | 14-291-03 | Compressor | 1 |
| 2 | 15-504-04 | Wiring Harness | 1 |
| 3 | 14-291-05 | Switch Box | 1 |
| | 33-508 | Auto Blade Type Fuse 15 amp | 1 |
| | 15-506-02 | Switch - middle | 1 |
| | 14-291-14 | Switch - outside | 1 |
| 4 | 15-509 | Power Cable | 1 |
| 5 | 33-271 | Fuse Block (part of machine) | 1 |
| | 33-508 | Auto Blade Type Fuse 15 amp | 1 |

14-291 FOAM MARKER RAWING



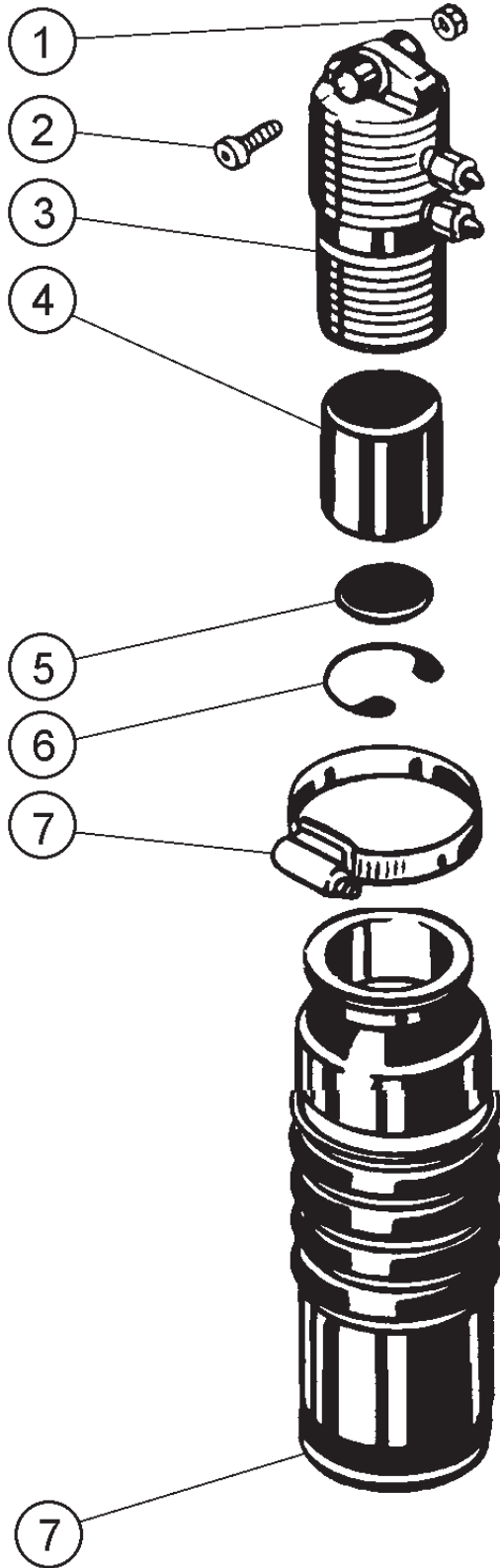
| REF# | PART# | DESCRIPTION | QUANTITY |
|------|-----------|--------------------------|----------|
| 1 | 15-507 | Foamer Tubing | 2 |
| 2 | 14-291-02 | Tank | 1 |
| 3 | 14-291-01 | Black Cover | 1 |
| | 14-291-03 | Compressor | 1 |
| 4 | 14-284-02 | Cap Assembly | 1 |
| 5 | 14-291-04 | Tank Bracket | 1 |
| 6 | 14-291-05 | Switch Box | 1 |
| 7 | 15-511 | Foam Nozzle | 1 |
| 8 | 15-510-01 | Nozzle Mounting Rod | 1 |
| 9 | 16-987 | Foam Nozzle Mounting Kit | 1 |

15-505 MOTOR SUB ASSEMBLY DRAWING



| REF# | PART# | DESCRIPTION | QUANTITY |
|------|-----------|-----------------------------------|----------|
| 1† | | Bolt | 6 |
| 2 | | Head | 1 |
| 3 | 15-505-01 | Exhaust Manifold Gasket | 1 |
| 4 | | Exhaust Manifold | 1 |
| 5† | | Manifold Screw | 8 |
| 6† | 15-505-03 | Diaphragm | 1 |
| 7† | | Piston | 1 |
| 8 | | Brush Retainer | 2 |
| 9 | 15-505-06 | Brush | 2 |
| 10 | 15-505-07 | 12 Volt Electric Motor | 1 |
| 11 | 15-505-05 | Stainless Steel Bearing | 1 |
| 12 | | Block | 1 |
| 13 | | Cover | 1 |
| 14 | | Cover Screw | 2 |
| 15* | | Exhaust Reed Valve | 1 |
| 16*† | | Washer | 2 |
| 17*† | | Split Lockwasher | 1 |
| 18*† | | Intake Valve Screw | 1 |
| 19* | | Exhaust Valve Screw | 1 |
| * | 15-505-02 | Intake Exhaust Valve Sub Assembly | |
| † | 15-505-04 | Intake Piston Sub Assembly | |

15-511 FOAM NOZZLE SUB ASSEMBLY DRAWING



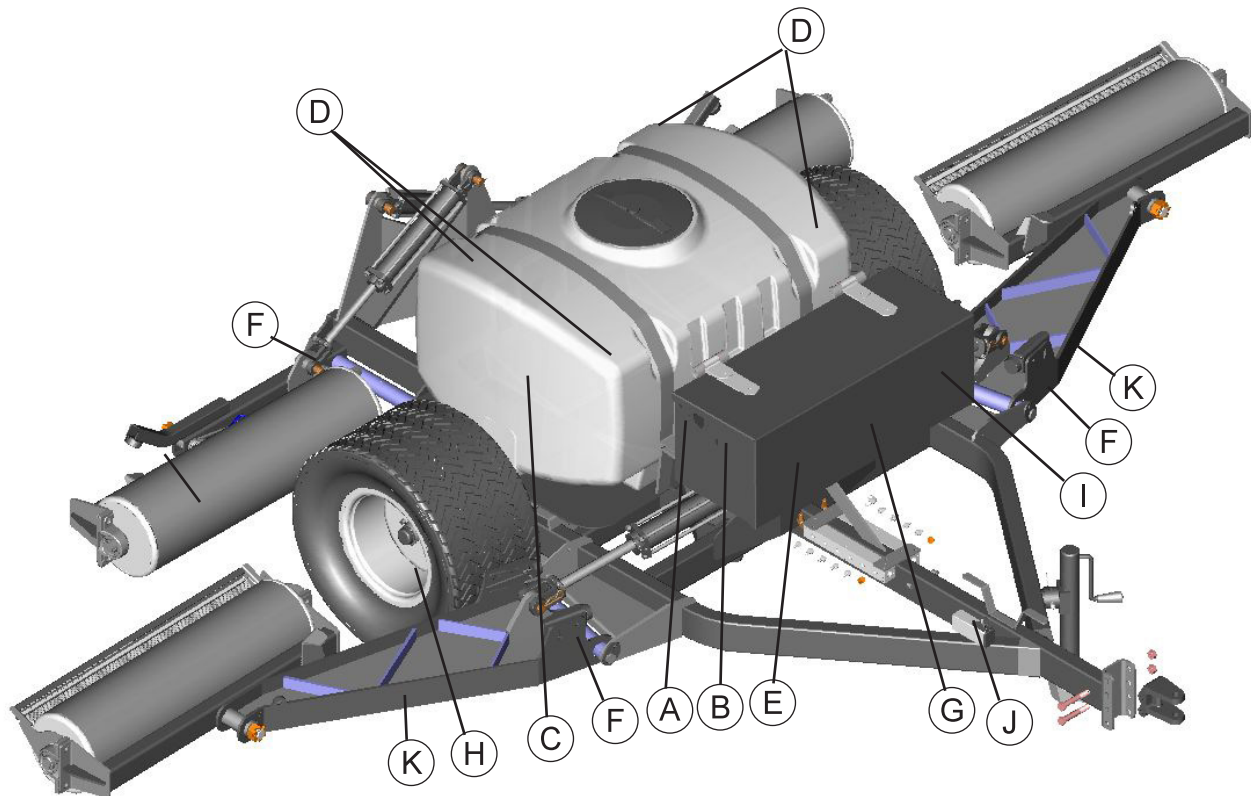
15-511 FOAM NOZZLE SUB ASSEMBLY PARTS LIST

| REF# | PART# | DESCRIPTION | QUANTITY |
|------|-----------|------------------------------------|----------|
| 1† | | Nut | 1 |
| 2† | | Screw | 1 |
| 3† | | Foam Nozzle Inlet Body | 1 |
| | 15-510-01 | Nozzle Mounting Rods | 2 |
| 4*† | 15-511-02 | Foam Sponge | 1 |
| 5*† | | Stainless Steel Screen | 1 |
| 6*† | 15-511-04 | Stainless Steel Snap Ring | 1 |
| 7 | | Drop Tube | 1 |
| † | 15-511-01 | Foam Nozzle Inlet Sub Assembly | |
| * | 15-511-06 | Foam Kit (includes 2 each * items) | |

DECAL LIST

This is a list of decals located on the Ultra 15 Fairway Roller. Part number, description and location will help in reordering decals.

| | | | |
|---|--------|----------------------------|---|
| A | 12-779 | Decal, On/Off | 1 |
| B | 12-780 | Decal, Warning | 1 |
| C | 12-781 | Decal, Fairway Ultra 15 | 2 |
| D | 12-799 | Decal, Warning Stay Back | 4 |
| E | 25-277 | Decal, Battery Warning | 1 |
| F | 25-286 | Decal, Pinch Points | 4 |
| G | 25-374 | Decal, Smithco 12" | 1 |
| H | 25-355 | Decal, Tire Pressure 18PSI | 2 |
| I | 27-093 | Decal, Hydraulic Fluid | 1 |
| J | 45-648 | Decal, Lift/Lower | 1 |
| K | 76-307 | Decal, Tower Warning | 2 |



QUICK REFERENCE

Battery Automotive type 24F-12 Volt (**Smithco Part #33-216**)
Hydraulic Fluid 2 Gal (7,57liter) MileMaster 303 Tractor HYD Fluid (Smithco Part# 9042)

CYLINDERS

12-519 Hydraulic Cylinder
15-519-01 Seal Kit

12-514 Hydraulic Cylinder
12-514-01 Seal Kit

12-571 Hydraulic Cylinder
12-571-01 Seal Kit

EC Declaration of Incorporation

In accordance with EN ISO 17050-1:2004

We

Smithco Inc.
34 West Avenue
Wayne, PA USA
19087-3311

In accordance with the following Directive:

2006/42/EC

The Machinery Directive

hereby declare that for the partly completed machinery identified as :

Equipment Ultra 10 FairWay Roller
Model number 12-500 / 12-501
Serial Number FWR057 - FWR500

the following EHSRs have been complied with:

| | |
|-------------------------|--|
| B71.4:2012 | Commercial Turf Equip. Safety Specifications |
| IOS 4254-1:2013 | Ag Machinery General Requirements |
| BS EN 349: 1993+A1:2008 | Safety of Machinery Crushing hazards |
| BS ISO 5675:2008 | Ag Tractors: Quick Action Hydraulic Couplers |

and the technical documentation is compiled in accordance with Annex VII(B) of the Directive.

We undertake to transmit, in response to a reasoned request by the appropriate national authorities, relevant information on the partly completed machinery identified above. The method of transmission shall be electronically

The machinery is incomplete and must not be put into service until the machinery into which it is to be incorporated has been declared in conformity with the provisions of the Directive.

The technical documentation for the machinery is available from:

2006/42/EC Annex II 1A: 10
Dawn Bryngelson
Technical Documentation Advisor
Smithco West Inc.
200 West Poplar Avenue
Cameron, WI 54822 USA
15-Mar-18

2006/42/EC Annex II 1A: 2
John Moore
Sales, Director, Owner
Moore Turf Care
Thieplatz 4
49583 Lienen Germany
23-Sep-19

Document ref. No. 12500/501-2018-1

The Smithco Commercial Products Two-Year Limited Warranty

Smithco, Inc. (Smithco) warrants your 2016 or newer Smithco Commercial Product (“Product”) purchased after October 1, 2016 to be free from defects in materials or workmanship for the period of time listed below. Where a warrantable condition exists, Smithco will repair the Product at no cost to you including diagnosis, labor (at the Smithco standard labor rate, subject to the Smithco flat rate schedule), and parts.

Warranty Duration is:

- (1) Two years, 1500 operational hours* from the date of delivery to the original purchaser or Five years from the date of original manufacturer of the product, whichever occurs first. (*Products equipped with hour meter).
- (2) Products used in rental situations are covered for 90 days from date of delivery to original user/renter.

Owner Responsibilities:

As the Product owner, you are responsible for required maintenance and adjustments stated in your Owner’s Manual. Failure to perform required maintenance and adjustments can be grounds for disallowing a warranty claim. **You are particularly responsible to train all present and future operators of this product on the safe operation of this product at your location.**

Instructions for Obtaining Warranty Service:

You are responsible for notifying the Authorized Smithco Products Distributor from whom you purchased the Product as soon as you believe a warrantable condition exists and not later than 30 days from discovery of the condition.

If you need help locating an Authorized Smithco Distributor, or if you have questions regarding your warranty rights or responsibilities, you may contact us at:

Smithco Product Support Department
200 West Poplar Ave.
Cameron, Wisconsin 54822
Telephone: 800-891-9435 E-Mail: ProductSupport@Smithco.com

Maintenance Parts:

Parts scheduled for replacement as required maintenance (“Maintenance Parts”), are warranted for the period of time up to the scheduled replacement time for that part.

Items/Conditions Not Covered:

Not all product failures or malfunctions that occur during the warranty period are defects in materials or workmanship. The items/conditions listed below are not covered by this warranty:



Product failures which result from the use of non-Smithco replacement parts, or from installation and use of add-on, modified, or unapproved accessories are not covered.



Product failures which result from failure to perform required maintenance and/or adjustments are not covered.



Product failures that result from operating the Product in an abusive, negligent or reckless manner are not covered.



This warranty does not apply to parts subject to consumption through use, unless found to be defective. Examples of parts which are consumed, or used up, during normal Product operation include, but are not limited to: blades, tines, teeth, scarifiers, rakes, plates, wear plates, castor wheels, tires, batteries, filters, belts, nozzles, etc.



This warranty does not apply to failures caused by outside influence. Items considered to be outside influence include, but are not limited to, weather, storage practices, contamination, use of unapproved coolants, lubricants, additives, or chemicals, etc.



This warranty does not apply to normal “wear and tear” items. Normal “Wear and Tear” includes, but is not limited to, damage to seats due to wear or abrasion, worn painted surfaces, scratched decals or windows, etc.



Smithco may require the return of failed parts or components in order to determine the validity of any warranty claim.



Smithco will not be obligated to replace components of other manufacturers if inspection by the original component manufacturer indicates that failure was due to normal wear and tear, expected consumption through use or improper care or service.

Other Legal Disclaimers:

The above remedy for product defects through repair or replacement by an authorized Smithco distributor or dealer is the purchaser’s sole remedy for any defect. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

THERE ARE NO OTHER EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH ABOVE. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE DURATION OF THE LIMITED WARRANTIES CONTAINED HEREIN.

Some states may not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

THE SMITHCO COMPANY IS NOT LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH THE USE OF THE PRODUCT, INCLUDING ANY COST OR EXPENSE OF PROVIDING A SUBSTITUTE PRODUCT OR SERVICE DURING PERIODS OF MALFUNCTION OR NON-USE.

Some states may not allow the exclusion of indirect, incidental or consequential damages, so the above exclusion may not apply to you.

Smithco neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale or use of this product.

