

Aluminum "Feltmaster"



INSTRUCTION MANUAL



Roofmaster Products Company

750 Monterey Pass Road Monterey Park, CA 91754-3668



TOLL FREE: (800) 372-6409 CA • (800) 421-6174 Nat'l • Website: roofmaster.com • E-mail: roofmaster@roofmaster.com

LOS ANGELES, CALIFORNIA

Tel: (323) 261-5122 • Fax: (323) 261-8799

HAYWARD, CALIFORNIA

Tel: (510) 429-1160 • Fax: (510) 429-1704

PACIFIC NORTHWEST

Tel: (800) 442-7562 • Fax: (800) 409-7663

LAS VEGAS, NEVADA

Tel: (800) 421-6174 • Fax: (800) 409-7663

NORTHEAST

Tel: (800) 421-6174 • Fax: (800) 409-7663

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Tel: (888) 321-3847 • Fax: (800) 409-7663

WARRANTY CARD

NAME _____

Roofmaster Products Company

Date of Purchase _____

Los Angeles (323) 261-5122

Northern California (510) 429-1160

Pacific NW (800) 442-7562

Serial No. _____

Southeast (888) 321-3847

MODEL:

Universal 514000

Universal 514006

Metric 514001

Metric 514023

Universal 514020

Insulated

Metric 514021

Insulated NFL

NFL

Universal 514022

NFL

Insulated NFL

ASSEMBLY

Handles

Attach aluminum handles (#2, #3) and lever assemblies (#8, #9) to the sides of your Feltmaster using the steel handle clamps (#2a) provided. Use a 1/2" wrench to tighten each bolt snugly. (On lever, tighten snugly, then back off handle 1/2 turn).

Brake Linkage

The brake linkage (#11) connects the left hand brake lever with the swing up roller bar. Remove the nuts and washers from the left hand brake lever and the swing up roller arm (#10), being sure to keep the spacers in place. Using the longest square tubular linkage, find the end that has bolted aluminum pads and attach this end to the swing up roller arm. Varying thickness of aluminum pads can be used to obtain the desired braking action. Connect the other end of the tubular linkage to the brake lever.

Once in place tighten both nut and washer combinations with 1/2" wrench, then back off each nut 1/2 turn.

Note: Make sure that the 1/2" spacers (#28) are on the machine side of the brake linkage.

Swing Up Roller Bar & Brake Control Spring

A large spring (#18) is used to engage and disengage the brake and roller bar. When engaged the roller bar acts to protect the material from wind lift and allows the machine to move freely. When disengaged, the lever swings the roller bar up to allow easy threading of material while applying a stopping brake to the wheels. To attach the spring, put the short end of the spring into the eyelet that is welded to the frame and connect the other end to the lug at the base of the brake control lever.

Test by moving lever forward to lock roller in down position with brake off. Move lever back to lock roller in up position with brake on.

Caution: The spring is heavy duty. We recommend using locking pliers to pull the spring to its connection with the lug on the brake lever. If the brake lever is in the up position, the spring will be easier to attach.

Valve Linkage

Connect the remaining square tubular link (#12) to the right side control lever. Remember to put washers on both sides of each through bolt. Tighten, then back off 1/2 turn.

Test by moving lever forward to close all valve holes. Then move lever back to fully open all valve holes.

THE ROOFMASTER ALUMINUM FELTMASTER

Your new Roofmaster Feltmaster is a backward moving (pull-type) machine designed to apply rolled roofing felts and hot bitumen simultaneously. Your Feltmaster (P/N 514000 or 514020) is set up to accommodate **36” wide** materials and can be converted to metric rolls by making a few simple adjustments covered in depth on page 5. Your Feltmaster (P/N 514001 or 514021) is set to accommodate **metric** rolls only.

Read and understand Operating Instructions and safety procedures

Before you set up your Feltmaster please read manual and safety procedures thoroughly, making sure that each member of your feltlaying crew knows how to safely operate this piece of equipment.

Before Operation

SAFETY FIRST

The Roofmaster Aluminum Feltmaster will save you hours of work when applying roofing felts and hot asphalt. Designed as a pull type machine, it is essential that the feltlayer operator **always** work with a spotter or tailman and within a perimeter marked by a warning system not less than **10 feet** from the edge of the roof, open spaces in the deck, or skylights.

Warning: Serious injury or death can result from improper use of this equipment.

Warning: Do not operate the Feltmaster without a spotter or tailman.

Warning: According to OSHA regulation 1926.502(f) (ii), a perimeter warning system must be established **10 feet** from the edge of any flat roof that is undergoing construction or repair.

Before you fill the Feltmaster vat from a hot asphalt tanker, kettle or hot lugger be sure:

1. The vat is free of any moisture.
2. The valve is in the forward closed position.
3. The brake lever is set.
4. The tires are inflated.
5. Both lids are open.
6. You and your crew are wearing protective clothing:
 - a. Long sleeve shirt
 - b. Proper shoes
 - c. Gloves with a tight wrist band
 - d. Hard hat with a face shield or eye protection

When Filling Your Feltmaster:

1. Fill the Feltmaster only after it has been safely placed on the roof. **NEVER** lift a filled feltmaster to the roof.
2. Do not fill above screens.
3. Never fill the Feltmaster with material that is hotter than the manufacturer's recommended flash point.
4. Never tilt hot carriers when filling the Feltmaster.

Before Starting to Apply Felt:

1. Close and latch both lids.
2. Look behind you to insure an unobstructed path.
3. Have your spotter in position.
4. Be sure all safety warning equipment is in its proper position

 **CAUTION**

**Do Not Operate
Without A Spotter**

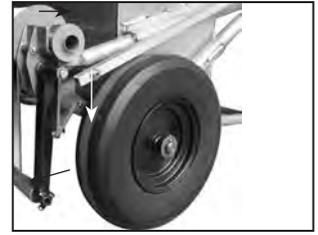
- Use Feltmaster on Flat Decks Only.
- Close and Latch Both Lids Before Starting
- Do Not Walk on Hot Bitumen
- Spotter or Tailman Must Warn Feltmaster Operator of all Obstacles in His Path
Skylights, Openings, Roof Edge, and Other Hazards
- Read All Safety & Operating Instructions

 **WARNING**

- Use Feltmaster on Flat Deck Only.
- Do Not Operate Within **10 Feet** of Roof Edge.

TO OPERATE

1. Felts are to be threaded on to the top paper roller (#26) regardless if Feltmaster is full or empty of asphalt. Remove top paper roller, thread felt on and carefully place the felt and paper roller into the narrowing spacers (#59 & #60). Thread the loose end of the felt behind the roll (next to the Feltmaster vat) and under the flip-up roller assembly.
2. Set the alignment gauges (#24) on the ply line to insure a straight pull across the roof.
3. To begin asphalt flow pull back on the valve control lever (#9). To stop asphalt flow push forward on the valve control lever. Your machine is set on the maximum valve opening at the factory. To adjust the flow, manually adjust the stop bolt (#9a) located on the Valve Lever in or out.
4. The Feltmaster operator should open the valve lever just enough to insure a uniform flow across the width of the felt. While moving, the operator may need to adjust the valve further open as the vat empties. Once the ribbons of asphalt flowing from the valve are thin enough not to flow together, the operator should push the valve closed and stop the machine so it can be refilled and to prevent voids (holidays) in the asphalt flow.
5. Feltmaster applications are for two workers. A tailman or broom man should be in place to hold down the felt at the beginning of the run and should press the felt into the hot asphalt using a Roofmaster Follow Tool (P/N 510000; 36" or P/N 510001; Metric). **SEE OPTIONS and UPGRADES on page 8.**
6. **Third wheel adjustment and service:** Your Feltmaster is designed with a quick release T- bolt (#58) to simplify service on the third wheel axle. You may wish to purchase a Carefree tire upgrade (P/N 514010) which will eliminate any possibility of flat tires. **SEE OPTIONS and UPGRADES on page 8.**



The third wheel should be adjusted so it does not roll on the ply line. Using a 3/16 (P/N 510160) hex tool, loosen clamps (#35), slide the wheel to desired position and tighten clamps.

Follow material manufacturers instructions and do not walk on freshly laid felts.

Note:

- a. Roofmaster's Aluminum Feltmaster can also be used to flood coat. To do so, just remove the felt roll.
- b. Keep the lids **closed** and **latched at all times** during transport.





DO NOT OPERATE!
THE FELTLAYER ON ROOFTOPS WITHOUT A SPOTTER OR TAILMAN.

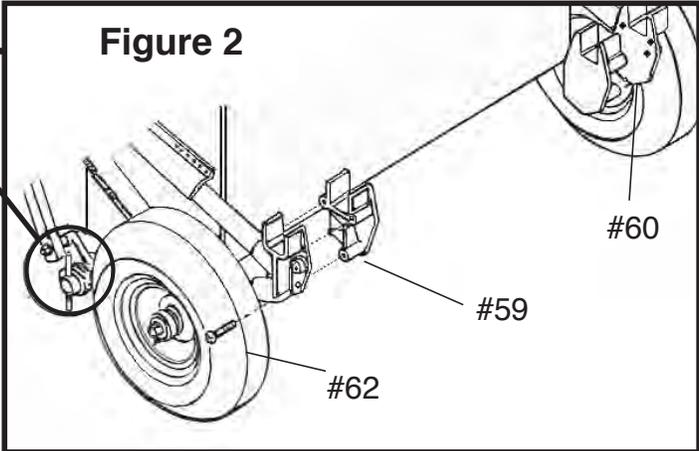
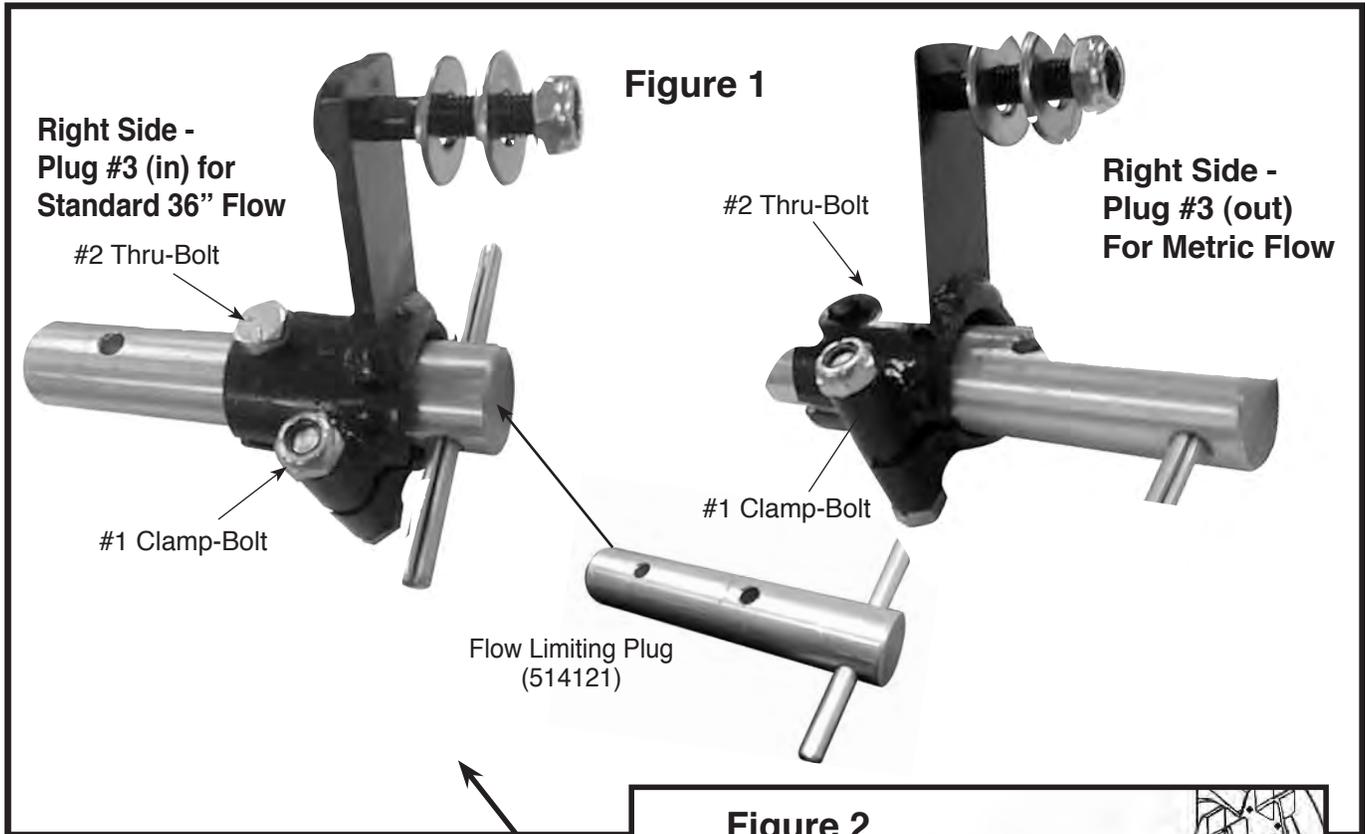
DO NOT OPERATE!
THE FELTLAYER ON ROOFTOPS WITHOUT ERECTING A WARNING LINE AROUND THE COMPLETE ROOF EDGE OR OPENINGS IN THE ROOF DECK

DO NOT OPERATE!
THE FELTLAYER OUTSIDE THE WARNING LINE OR WITHIN 10 FT. OF ANY ROOF EDGE, OPENINGS OR VERTICAL DROP.*

*Above safety precautions refer to OSHA Section 1926.00

ADJUSTMENT FOR METRIC WIDTH ROLLS: (Universal Models Only)

Warning: Do not attempt to change valve functions on the Aluminum Feltmaster (P/N 514000) that has hot asphalt inside.



Your Feltmaster (514000) or (514020) is preset at the factory for a 36" asphalt flow.

To apply **Metric** width rolls follow these instructions.

Danger: The Feltmaster must be empty before attempting to adjust flow limiting plugs.

A. Adjusting flow limiting plugs: On Right (Valve Control Side)

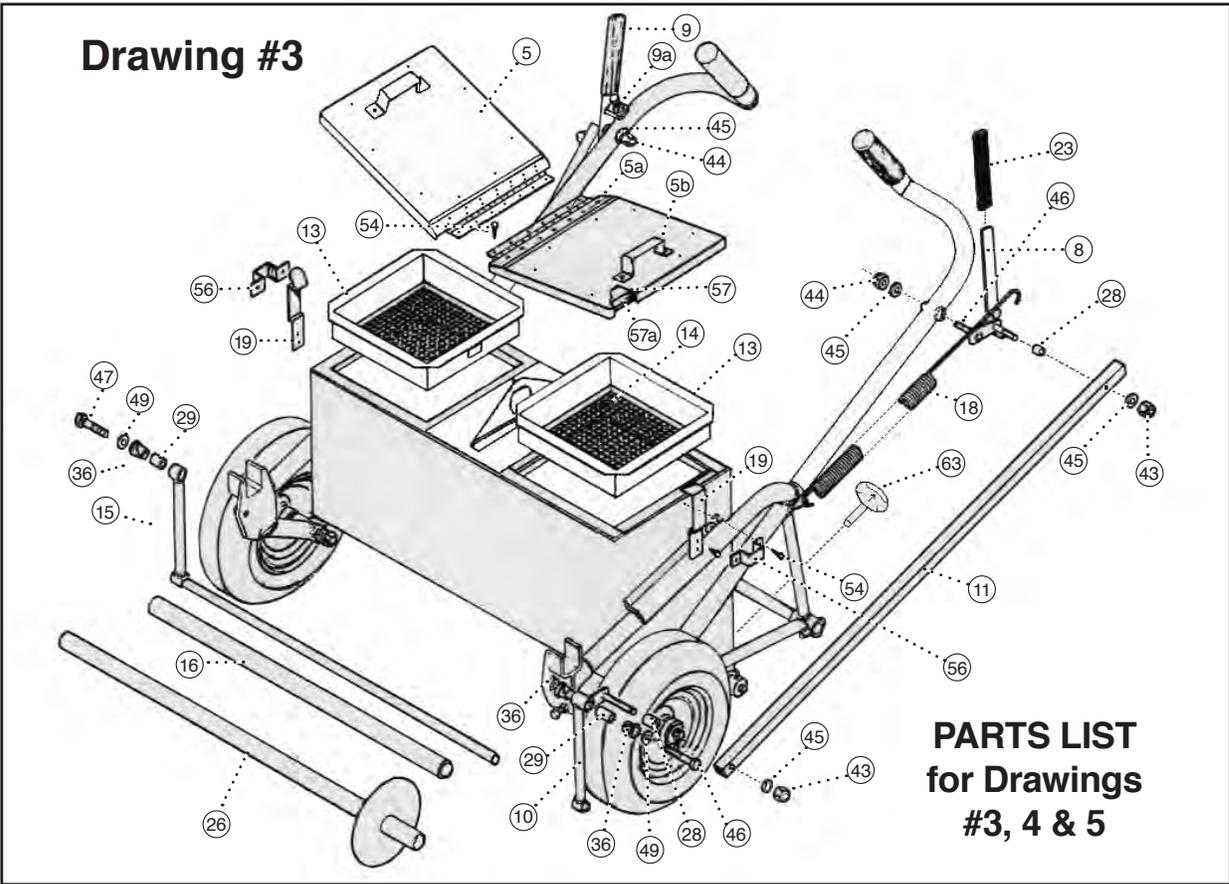
1. Loosen clamp bolt #1 (121154) and nut (121010).
2. Remove thru-bolt #2 (121154) and nut (121010).
3. Slide the plug out 1 3/4", allowing flow through outer 2 holes.
4. Re-align and reinstall thru-bolt (#2).
5. Tighten clamp bolt.
6. Repeat the operation on the left side except that Clamp bolt is omitted on left side of the Feltmaster.

Note: After the machine has had asphalt in it, it may be necessary to lightly heat the plug in order to move it in and out.

B. Remove narrowing spacers (#59 & #60) from the front of machine (Figure 2).

With the narrowing spacers gone, your Feltmaster will accommodate metric rolls.

Drawing #3

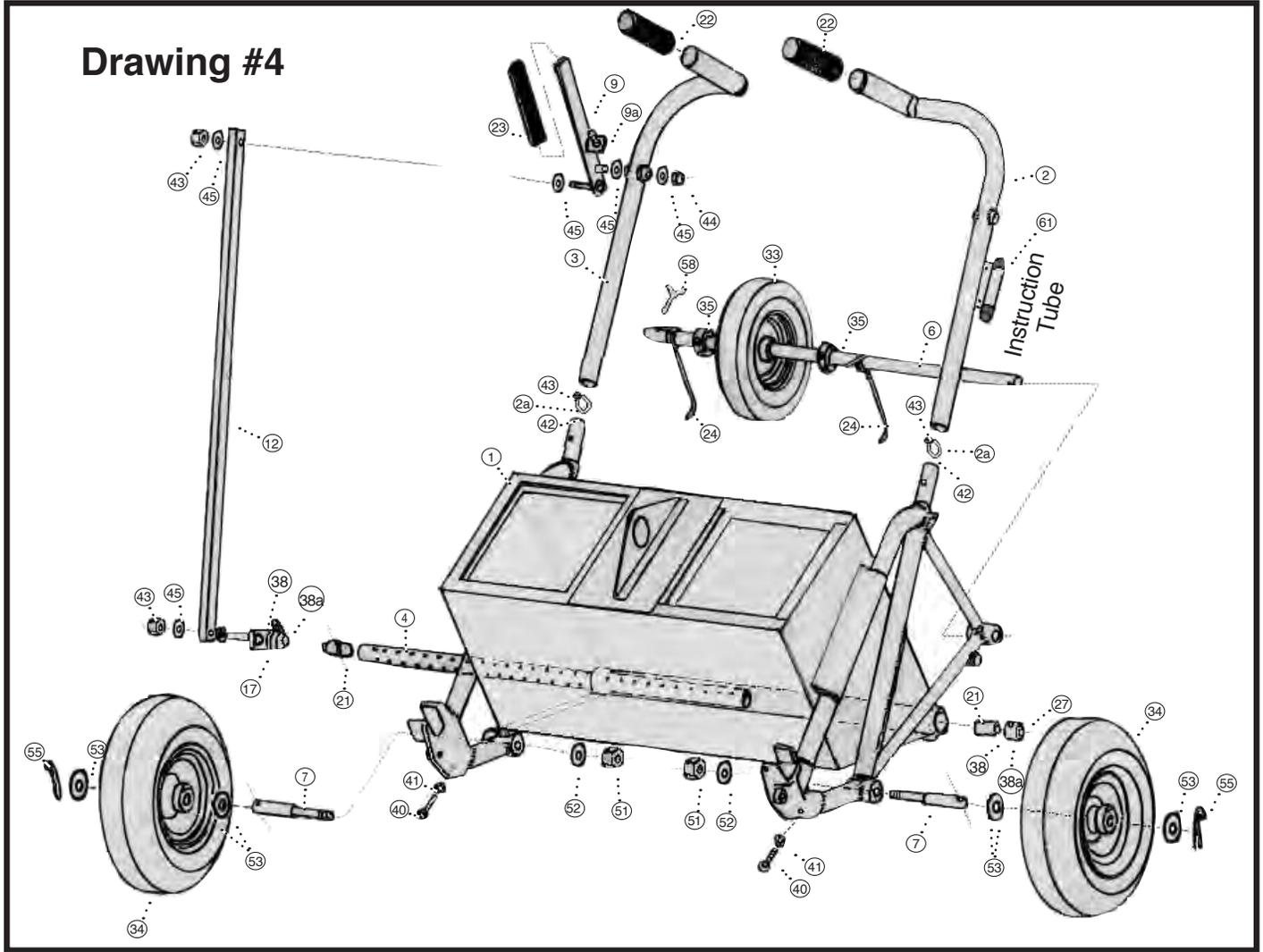


PARTS LIST for Drawings #3, 4 & 5

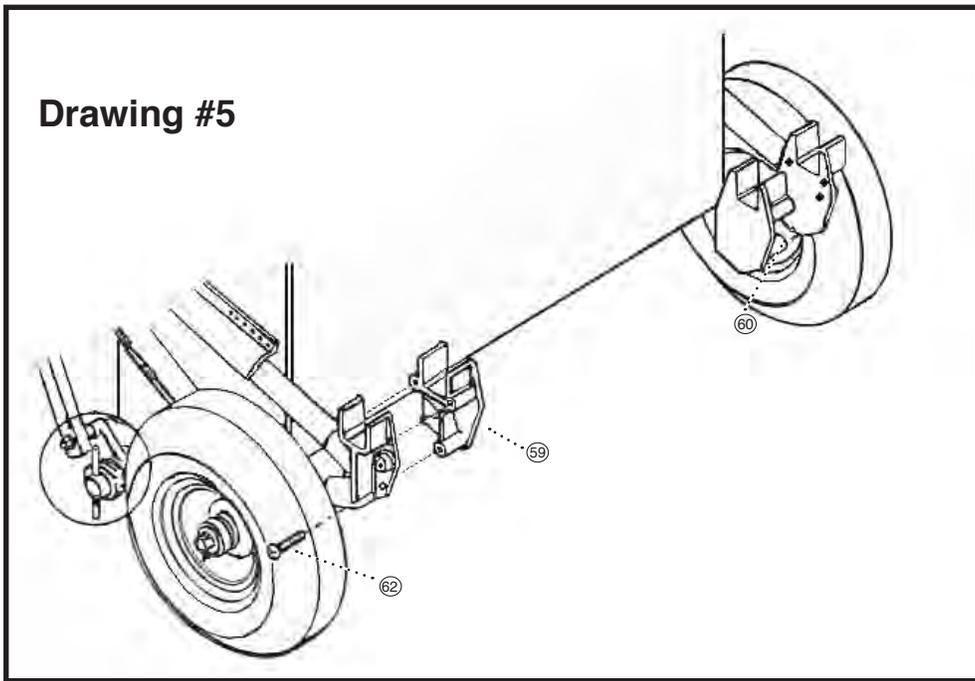
No.	Code	Description	Qty.	No.	Code	Description	Qty.
1	514200	Vat & Frame Assembly	1	34	510134	Tire & Wheel 4.00/ x8,1" Brg.	2
2	514102	Handle Assembly (left) w/clamps	1	515630	400x8 Non Flat Lite Tire (Option)	2	
2a	514101	Handle Clamp w/ Bolt & Nut	2	35	514135	1" Split Collar (3rd Wheel)	2
3	514103	Handle Assembly (right) w/clamps	1	36*	514136	Nylon Bushing	4
4	514140	Valve Core	1	38	121154	Bolt 1/4-28 x 1 1/2	3
5	514105	Lid Assembly (w/handle & hinges)	2	38a	121010	Lock Nut 1/4-28	3
5a	514104	Hinge Only	2	40	121100	Tap Bolt 1/4-20 x 1"	2
5b	514206	Lid Handle	2	41	121001	Nut 1/4-20	2
6	514106	Third Wheel Axle	1	42	122204	Bolt 5/16-24 x 2- Grade 5	2
7	514107	1" Stub Axle	2	43	122010	Nut 5/16-24 Nylock	6
8	514108	Brake Lever	1	44	122000	Nut 5/16-18 Nylock	2
9	514109	Valve Lever	1	45	122003	Flat Washer 5/16	10
9a	122100	Stop Bolt 5/16	1	46*	123375	Bolt 3/8-16x 3 3/4 - Grade 5	1
10*	514110	Swing Up Arm - Left side	1	47*	123275	Bolt 3/8-16 x 2 3/4 - Grade 5	1
11	514111	Brake Link	1	49*	123004	Flat Washer, 3/8	2
12	514112	Valve Link	1	51	126010	Nut, 5/8-18 Nylock, Thin	2
13	514113	Filter Assy (includes Screen)	2	52	126004	Flat Washer 5/8"	2
14	514114	Filter Screen Only	2	53	129004	Flat Washer 1"	4
15*	514115	Swing-Up Arm and Axle - Rt. s	1	54	120107	Screw #10 x 5/8 TEK	10
16*	514116	Swing-Up Roller (w/ bearings)	1	55	120515	Cotter Pin 5/32 x 1.5	2
17	514117	Valve Actuating Arm Assy.	1	56	514120	Latch Guard	2
18	514118	Extension Spring	1	57	514156	Lid Gasket Material (3.5' per Lid)	
19	514119	Latch	2	57a	514209	Lid Gasket Frame	2
21	514121	Valve Plug w/ Roll Pin	2	58	514158	"T" Bolt for Axle	1
	514221	Valve Plug w/ Roll Pin (for metric)	2	59	514207	Right Narrowing Spacer (Universal Feltmaster only)	1
22	51000F	Handle Grip	2	60	514208	Left Narrowing Spacer (Universal Feltmaster only)	1
23	514123	Lever Cover	2	61	514328	1.5 x 1 Cap (INS Tube)	2
24	514124	Alignment Gauge	2	62	121106	Phil-Pan Head Screw 1/4-20x3/4	6
26	514126	Top Paper Roller	1	63	231751	2-1/2" Thermometer	
	514226	Top Paper Roller (for metric)	1	514004	Insulation Kit (Option)	1	
27	514127	Retaining Collar	2	514100	Swing Up Roller Kit Assembly		
28	514128	1/2" Brake Bushing	6				
29*	514129	1" Long Bushing	5				
33	510133	Tire & Wheel 4.10/3.5x6,1 " Brg.	1				
	510233	4.10x350 Non Flat Lite Tire (Option)					

NOTE: Items identified with an asterisk (*) are included in P/N 514100 (Swing Up Roller Kit Assembly)

Drawing #4



Drawing #5



At the End of the Day (or at any period of time when the machine is not used).

1. Drain the vat completely. Close the valve control lever and let **cool** for at least **10 minutes**.
2. Pour some kerosene or diesel into the vat. Open and close the valve so that the kerosene or diesel is trapped in the valve and enough is left in the vat to cover the valve completely.
NOTE: ROOFMASTER **does not** recommend thawing the control valve with an **open flame**. Excessive heat can cause warping and distortion of the valve and may void any said warranty.
3. Put some kerosene or diesel on the hinges and latches. Leave the lids ajar.
4. Remove excess debris from the filter screens.

Maintenance - Lids, Latches & Seals

It may be necessary to wipe the latches and lids off with diesel, kerosene or Dissolve™ the Safety Solvent Cleaner, (P/N **384100**) to avoid asphalt buildup and insure a proper seal. Replace damaged latches (**#19**) and lids (**#5**) to insure continued safe operation.

NOTE: DO NOT USE A KNIFE OR A RAZOR BLADE TO REMOVE DRIED ASPHALT FROM THE LID GASKET.

Vat Vent

There is an air vent on the top of the Feltmaster to dissipate pressure. It is necessary to keep this vent clear and open.

Lubrication

Grease the wheels regularly for longer bearing life and easy operation.

Cleaning

The Feltmaster should be completely cleaned annually. Scrape off the buildup of carbon and bitumen while the machine is still hot. Use care not to damage the inside of the vat. **Be sure to wear protective clothing including gloves and face/eye shield.**

Options and Upgrades

NFL tires are lightweight, "flatproof" tires eliminating all necessary flat tire repair. In Drawing #3, item no. 33, can be replaced with NFL P/N **510233**. Item **#34**, can be replaced with NFL P/N **515630**.

To Upgrade all three (3) tires with NFL tires, order P/N **514020**. (Initial purchase only)

Follow Tools are available in four (4) models: 36" - **510000**, Metric - **510001**, Angle Tool 36" - **510002** and Angle Tool - Metric - **51003**.

Oiler System - 510095

WARRANTY

Products manufactured by ROOFMASTER Products Co. are to be delivered to the user free of defects in material and workmanship. Should any failure of this product occur within 90 days from the delivery date, ROOFMASTER Products Co. shall, upon verification that products have been stored, installed, maintained and used in accordance with manufacturers recommendations, correct such defects by suitable repair or replacement. Specifically excluded are failures caused by misuse, neglect, abuse, faulty repairs by others, alterations or modification. This is the only warranty on any ROOFMASTER equipment. No other writing or description shall be construed as a warranty.

Roofmaster Products Co. is not liable for any incidental or consequential damages in connection with this product.

A Roofmaster **Warranty Card** has been enclosed with these Safety & Assembly Instructions. It must be filled out and returned to Roofmaster to validate the warranty within **10 days** of purchase. If one is not enclosed, please call Roofmaster **800-372-6409** (in California) or **800-421-6174** (National) and one will be sent to you immediately. Thank you for purchasing this product.