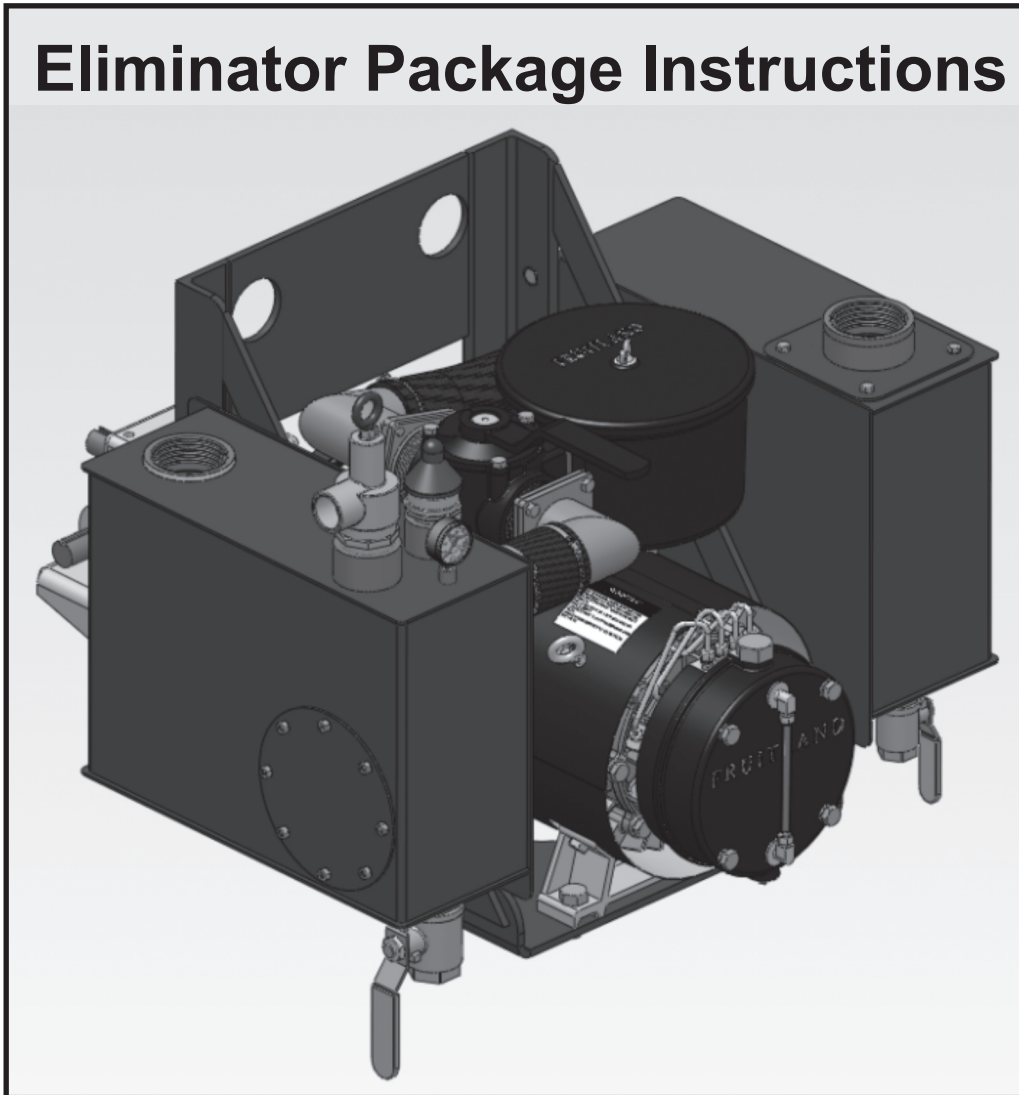




Eliminator Package Instructions



324 LEASIDE AVE., STONEY CREEK, ONTARIO, CANADA L8E 2N7
Tel.: 1-800-663-9003, 905-662-6552, Fax: 905-662-5412
www.fruitlandmanufacturing.com

Installation:

Depending on the truck and truck frame it may be necessary, and is recommended, to connect the eliminator frame mount to the frame rail on the opposite side of the truck for stability. Grade 8 mounting bolts of appropriate size are recommended. No welding to the truck frame is permitted.

When connecting the hose from the primary shut off on the vacuum tank to the secondary shut off on the eliminator package, or from the secondary shut off on the vacuum tank to the inlet side of the vacuum pump, make sure that proper hose clamps are used to ensure that the hose will not come off, or leak, when pump is put on pressure mode.

If connecting a threaded hose barb to the diverter valve housing of a **Fruitland Pump**, ensure that the barb does not screw into the diverter housing too far contacting the diverter vane, causing an impedance of the diverter vane to open and close properly.

Depending on the rotation of the truck PTO it may be necessary to remove the angle gearbox from the mounting plate and turn upside down to change its rotation. The pump rotation on a 370 or 500 LUF pump is counter clockwise, if looking directly at the end of the pump drive rotor shaft. There is an arrow on the pump shroud indicating direction.

On initial start up the new system, the vacuum and pressure relief valves supplied on the Eliminator secondary shut off are not pre-set, and must be adjusted to application requirements. Check tank manufacturers specifications, or contact **Fruitland** for recommended starting settings.

The PTO of the truck should be checked and set to ensure that the vacuum pump is never allowed to run over the maximum allowed RPM of the vacuum pump. (1400 RPM on **Fruitland** 370 and 500 pumps) Severe pump damages will occur with over speeding of the pump.

Maintenance:

Periodic maintenance of an Eliminator system and pump is required. The time frame of the maintenance is dictated by the system application. Read the pump operation manual supplied with the package.

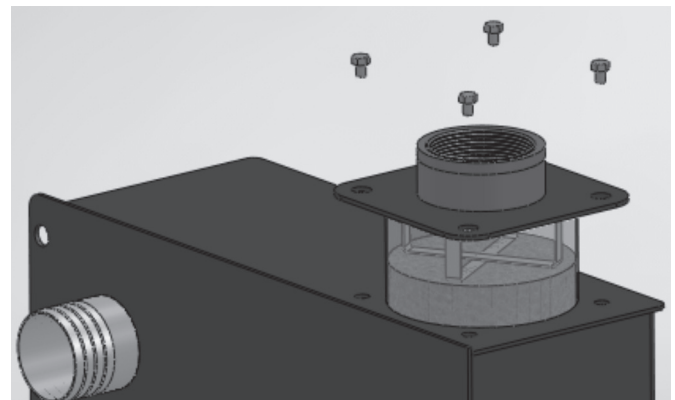
Secondary:

If the operator is continually draining product from the secondary shut off, a check of the primary shut off float ball and seat should be done to ensure they are working properly and not damaged.

If product is getting past the primary and secondary shut off on the Eliminator Package into the vacuum pump, the float ball and seat of the secondary shut off on the package also has to be checked. Certain chemicals can adversely affect the float seat material, and may have to be updated to a different material if being affected. If product is getting past both the primary and secondary shut off's and the float balls and seats are not damaged, foaming of product being pumped may be an issue. Certain pumping procedures should be implemented to help. Call for recommendations.

Muffler:

If product has past both shut off's and has passed through the vacuum pump into the oil catch muffler, a complete cleaning of the system, including pump flush is required. The **Fruitland Eliminator** oil catch muffler contains a mist filter pad that can be plugged with contamination. Removal of the mist pad by removing the 4 bolts and cover is required. The filter pad is replaceable, but can usually be cleaned with solvents.



OPTIONS:

A: ITEM 6 & 5
ANGLE DRIVE GEAR BOX

OR

B: ITEM 12
HYDRAULIC MOTOR BRACKET

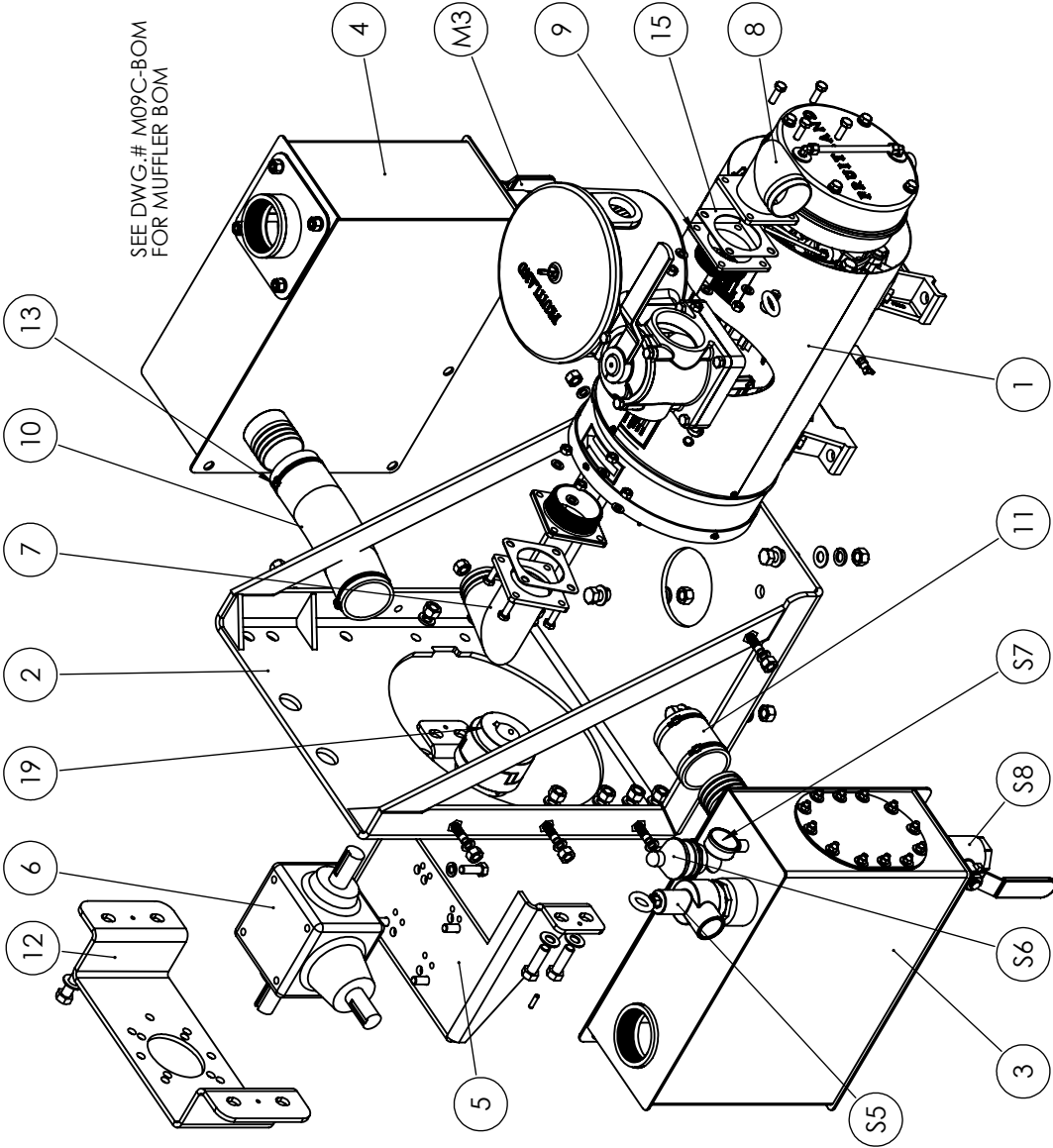
NOTES:

1. DRIVE COUPLINGS TO BE CUSTOMER SPECIFIED.
2. ALL FASTENERS TO BE SUPPLIED.

WEIGHT AS SHOWN: 817 LBS

REV 1 DCR# 368, NOTES AND COMPONENTS ADDED, 04/03/10 KA
REV 2 DCR# 410, 05/02/11 KA
REV 3 DCR# 477, ADDED TITLE BLOCK AND UPDATED PART #'S, 25/01/13 FH

ITEM #	PART #	DESCRIPTION	QTY.	PRICE
1	500LUF	Vacuum Pump	1	
2	RF500-SC	Pedestal Frame	1	
3	RF500-S09R1C	Secondary Shut-Off (See Parts Below)	1	
4	RF500-M09C	Muffler (See Parts Below)	1	
5	ADM09C	Angle Drive Mount	1	
6	RF500-GB400	Right Angle Gear Box	1	
7	FAM09C	Flange Muffler Side	1	
8	FAS09C	Flange Secondary Shut-Off Side	1	
9	FA-3NPT-M	3" NPT Flange For Diverter	2	
10	FAM09-03	Ø3" Rubber Hose	1	
11	FAS09-03	Ø3" Rubber Hose For Secondary	1	
12	HDM09C	Hydraulic Motor Mount	1	
13	FAM09-04	Super Clamp SCS 86-91	4	
15	RF500-57	Pump Flange Gasket	2	
19		Customer To Specify Coupling Size	1	
Secondary Shut-Off Parts				
	S091-A-04	5" Stainless Steel Ball (Internal)	1	
	S09-A-12	Rubber Seat For Ball (Internal)	1	
	S091-A-13	Rubber Gasket For Ball Cover (Internal)	1	
	S09-A-20	3"-5" Hose Clamp For Ball Seat (Internal)	1	
S5	PRV-2"	Pressure Relief Valve 2" NPT	1	
S6	VB	Vacuum Relief Valve 1-1/2" NPT	1	
S7	PVG-2.5	Compound Gauge 2.5" 30"VAC-30PSI	1	
S8	S09-A-14	1 1/2" Ball Valve	1	
Muffler Parts				
	M09-07	Exhaust Plate Gasket (Internal)	1	
	M09-F1	Filter Mesh - Washable Filter Cartridge (Internal)	1	
M3	M09-A-07	1" NPT Ball Valve	1	

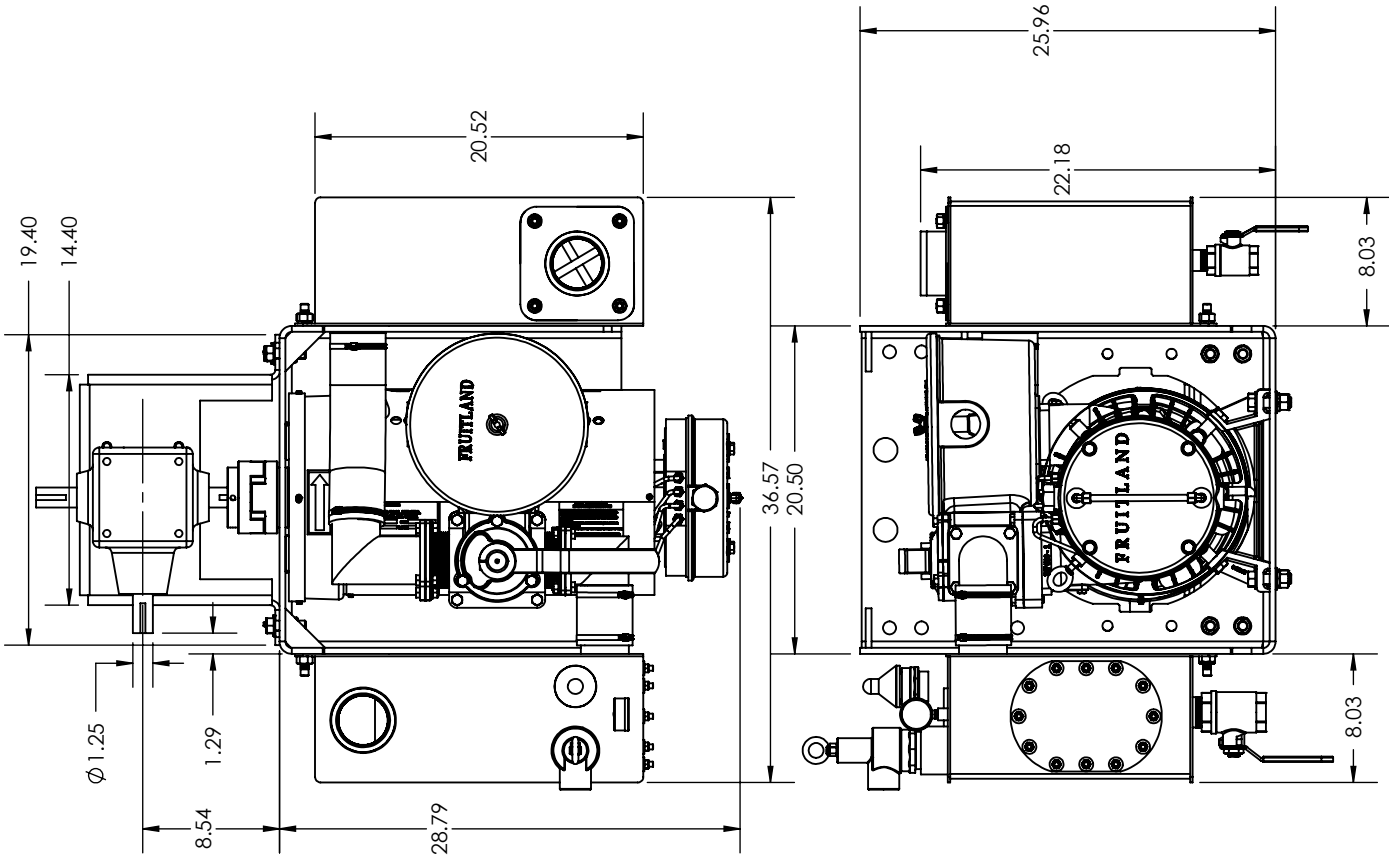


SEE DWG. # S091C-BOM
FOR SECONDARY BOM

CUSTOMER COPY

		324 Leaside Avenue Stouffville, Ontario CANADA M1S 2N7 Phone: (905) 662-6552 Fax: (905) 662-9875	
NAME	DATE	TITLE:	
K.A.	13/03/09	ELIMINATOR ALL OPTIONS	
CHECKED	W.D.	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	
	22/02/13	TOLERANCES: FRACTIONAL OR .XX = ±.015 .XX = ±.010 .XXX = ±.005	
REV	DWG. NO.	MATERIAL	
3	ELIM-BOM	--	

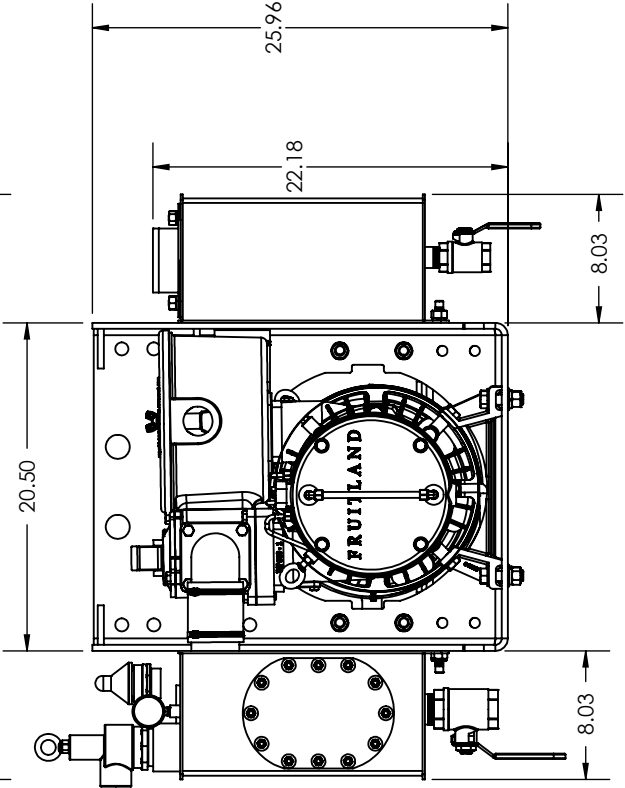
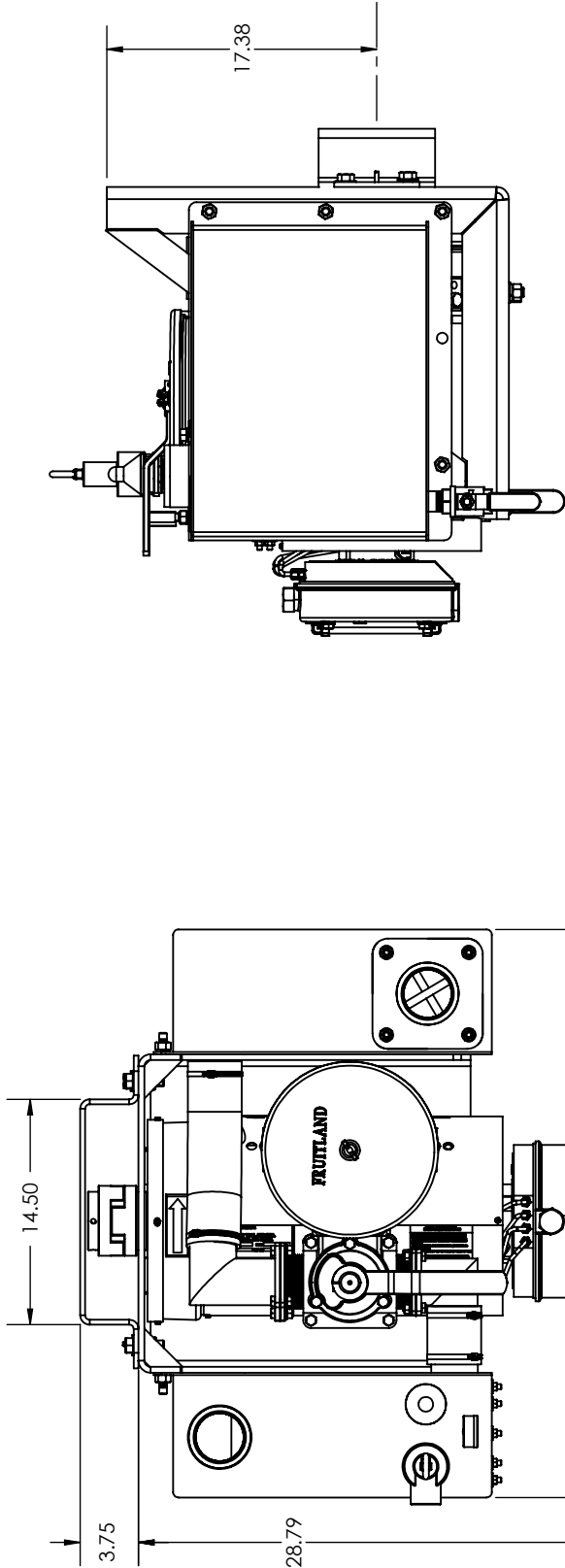
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PART#: ELIM A-SM DIMENSIONS

NOTE: SHOWN WITH RF500LUF PUMP
OTHER OPTIONS AVAILABLE

DRAWING IS FOR DIMENSIONAL
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INCLUDE ALL COMPONENTS SHOWN

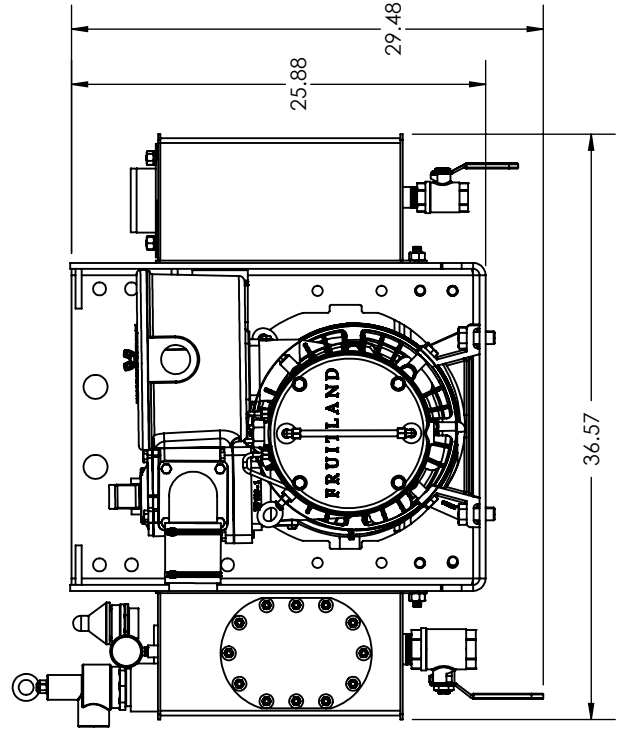
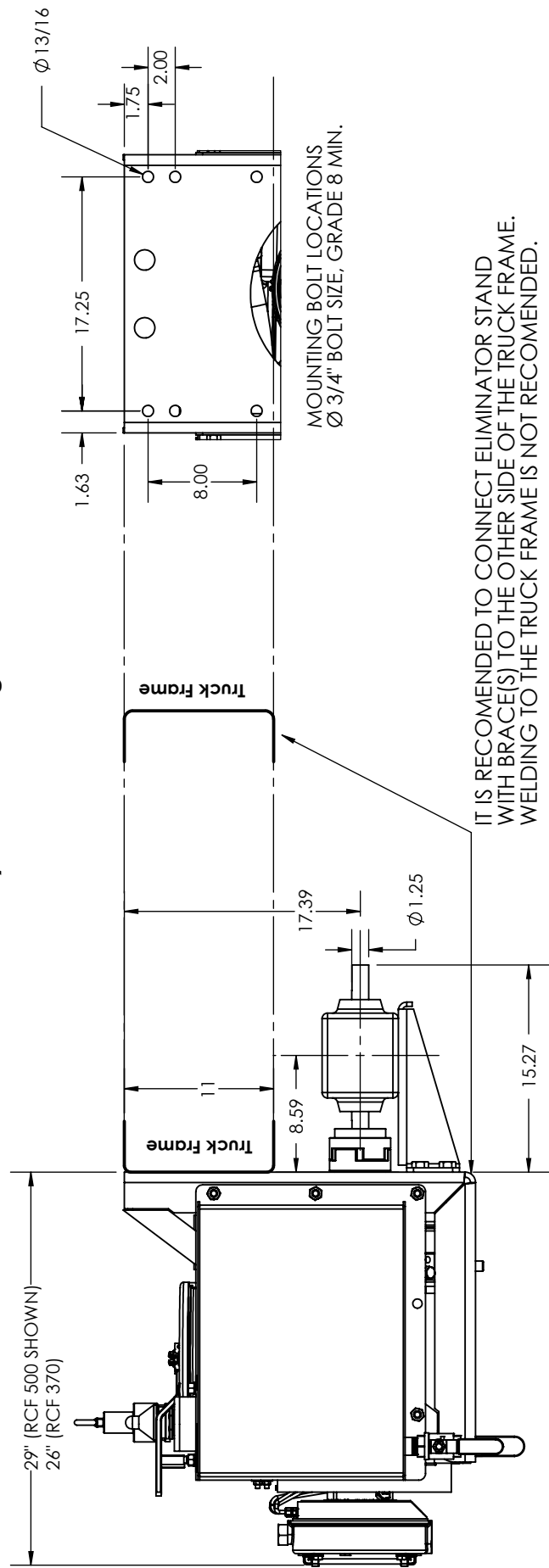


PART # ELIM H-SM DIMENSIONS

NOTE: SHOWN WITH RF500LUF PUMP
OTHER OPTIONS AVAILABLE

DRAWING IS FOR DIMENSIONAL
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INCLUDE ALL COMPONENTS SHOWN

Truck Mounting Instructions for
Eliminator System with Angle Drive



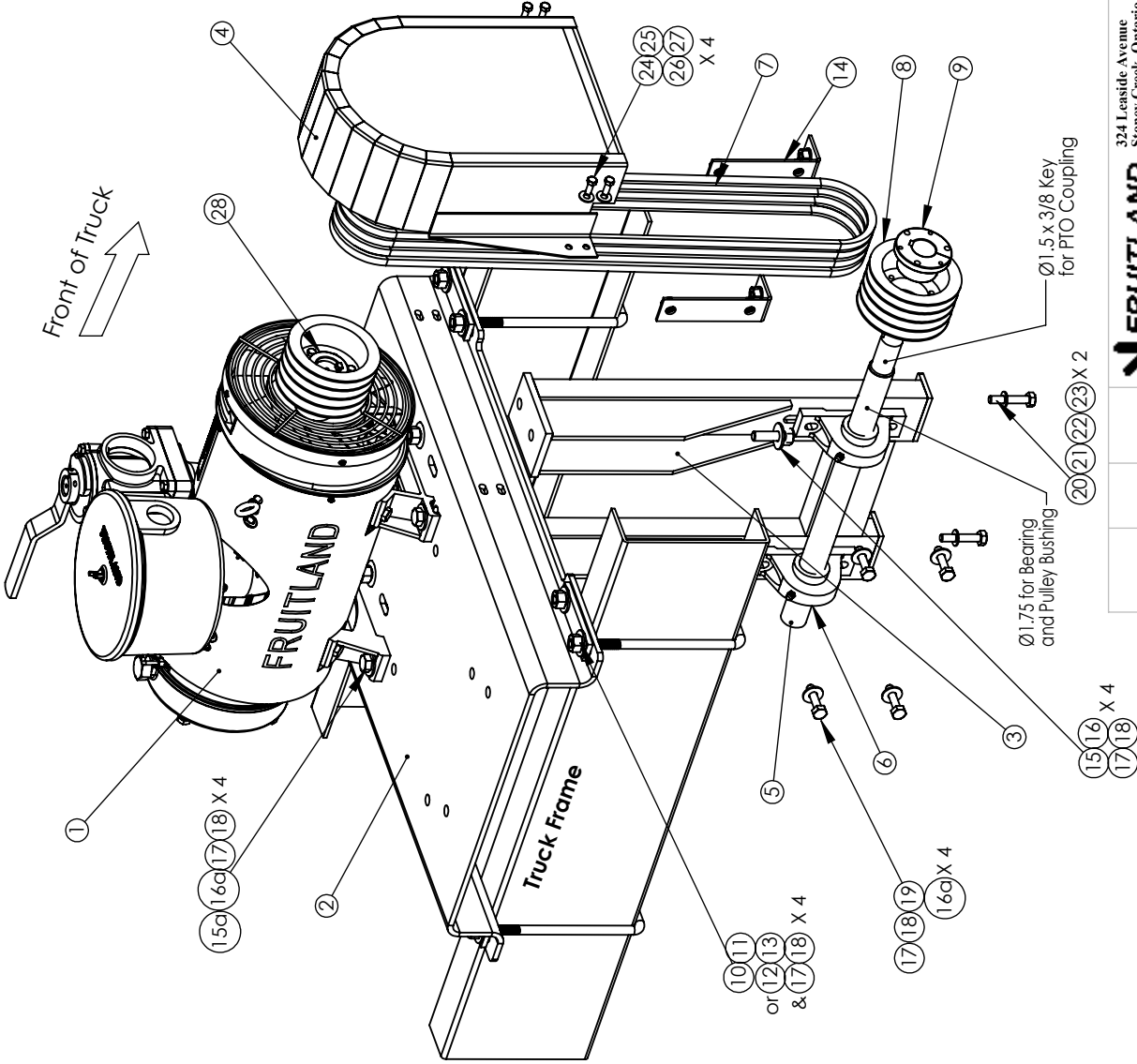
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FRUITLAND Manufacturing		324 Lakeside Avenue Stoney Creek, Ontario CANADA L3R 2N7 Phone: (905) 662-6552 Fax: (905) 662-9875	
NAME	DATE	TITLE:	
K.A.	1/3/2012	Eliminator Package Installation	
CREATED	CHECKED	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES	DWG. NO.
		FRACTIONAL OR .XX = ±.015 XXX = ±.005	REV
MATERIAL	--		ELIM-INST
		SCALE: 1:12	WEIGHT:--
			SHEET 1 OF 2

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ELIMINATOR PACKAGE **Top Frame Mount Belt Drive System II** **With RCF 500 LUF Pump** (Sold with Regular or Mack truck installation kit)

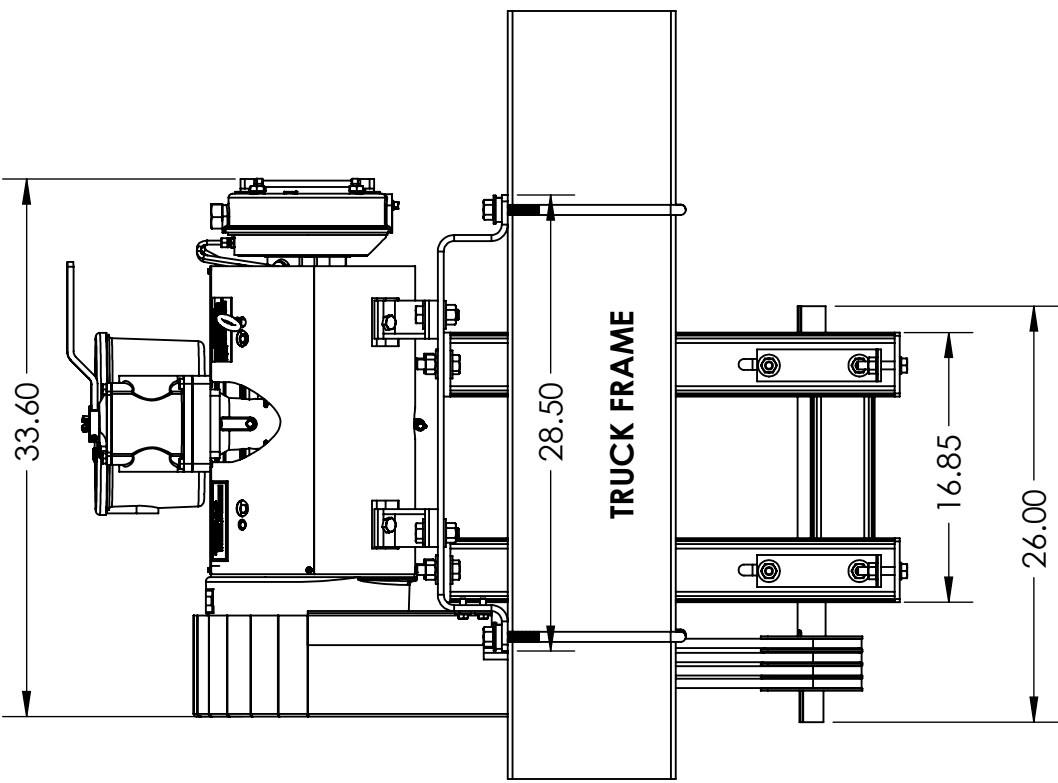
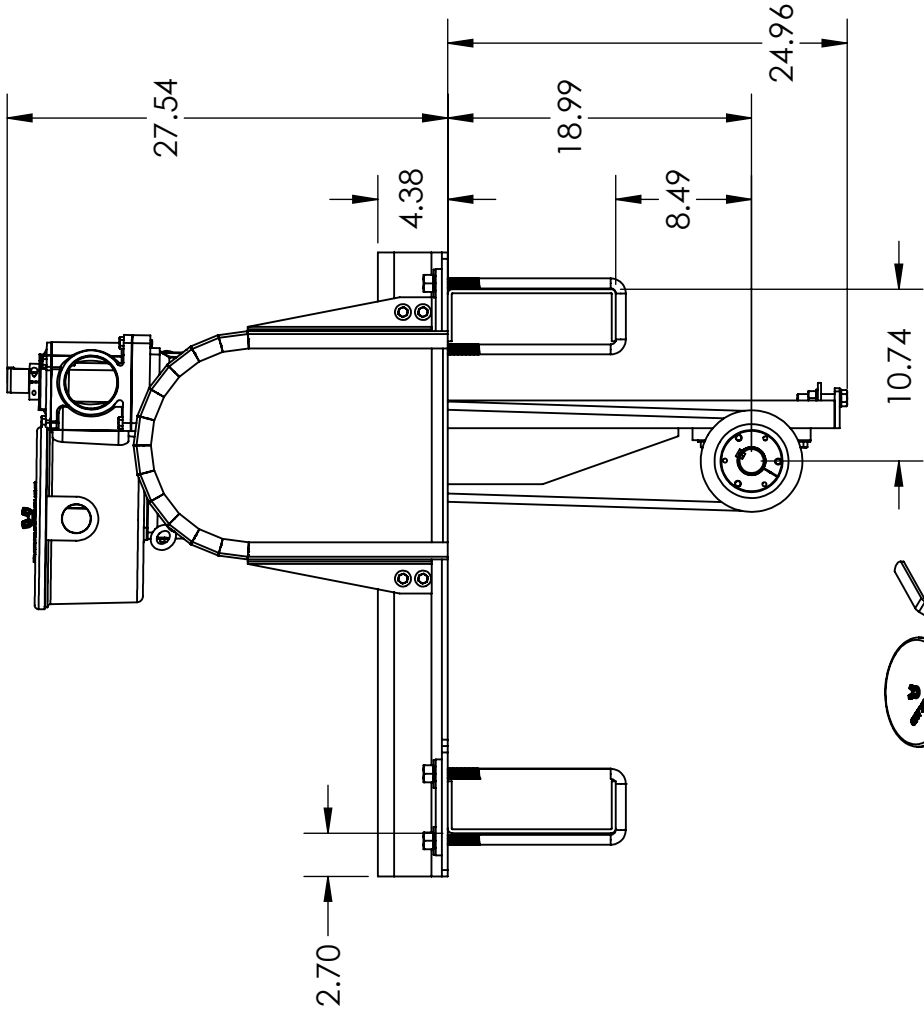
Assembly Parts				
#	Part Number	Description	Qty.	Price
1	500-LUF	Vacuum Pump (SOLD SEPERATELY)	1	
2	TFM-11-01	Top Frame Mount Base	1	
3	TFM-11-02V2	Top Mount Shaft Bracket Ver. 2	1	
4	TFM-11-BG	Top Mount Belt Guard	1	
5	TFM-11-08	Jack Shaft, Ø 1 3/4", 3/8" keyway	1	
6	TFM-11-A1	1 3/4" Pillow Block Bearings w collar	2	
7	TFM-11-A2	B78 (or BX78) V Belt	4	
8	RF-500-38	4 Groove, 6" Sheave	2	
9	SK1.75	1-3/4"Ø SK BUSHING	1	
14	TFM-11-07	Shaft Adjustment Bracket	2	
15	5/8"x2" HEX HEAD	5/8" NC 2" Long Zinc Plated Hex Head Bolts	4	
15a	5/8"x2-1/4" HEX HEAD	5/8" NC 2.25" Long Zinc Plated Hex Head Bolts	4	
16	5/8" F/W-USS	5/8" Zinc Plated Flat Washer, Large	4	
16a	5/8" F/W-SAE	5/8" Zinc Plated Flat Washer, Small	8	
17	5/8" L/W	5/8" Lockwasher	12	
18	5/8" Nut	5/8" Zinc Plated NC Hex Nuts	12	
19	5/8"x2-1/2" HEX HEAD	5/8" NC 2.5" Long Zinc Plated Hex Head Bolts	4	
20	1/2"x 3-1/4" Hex HEAD	1/2" NC 3.25" Long Zinc Plated Hex Head Bolts	2	
21	1/2" Flat Washer	1/2" Zinc Plated Flat Washer	4	
22	1/2" L/W	1/2" Lockwasher	2	
23	1/2" Nut	1/2" Zinc Plated NC Hex Nuts	2	
24	RF500-67A	10mm Hex Head Bolt M10 X 35mm	4	
25	RF500-308	10mm Plain Washer	8	
26	RF500-137A	10mm Hex Nut	4	
27	RF120-94A	10mm Lock Washer	4	
28	SK 42	Taper Bushing 42mm	1	
Part # TFM-11R, Regular Installation Kit				
10	TFM-11-A3	3-1/2" U Bolt, Ø5/8-11 NC	4	
11	TFM-11-09	Tie Bar Plates for 3-1/2" U Bolts	4	
16	5/8" F/W-USS	5/8" Zinc Plated Flat Washer, Large	8	
17	5/8" L/W	5/8" Lockwasher	8	
18	5/8" Nut	5/8" Zinc Plated NC Hex Nuts	8	
Part # TFM-11M, Mack Truck Installation Kit				
12	TFM-11-A4	4-3/16" U Bolt Ø5/8-11 NC for Mack Only	4	
13	TFM-11-A5	Tie Bar Plates for 4-3/16" U Bolts Mack Only	4	
16	5/8" F/W-USS	5/8" Zinc Plated Flat Washer, Large	8	
17	5/8" L/W	5/8" Lockwasher	8	
18	5/8" Nut	5/8" Zinc Plated NC Hex Nuts	8	



FRUITLAND Manufacturing 324 Lakeside Avenue Stoney Creek, Ontario, CANADA L3R 2N7 Phone: (905) 662-6552 Fax: (905) 662-5412		NAME	DATE
CREATED	S.P.	06/13/2013	
CHECKED			
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL OR .XX = ±.015 .XX = ±.010 .XXX = ±.005		TITLE:	
MATERIAL		TOP FRAME MOUNT BELT DRIVE II	
REV		DWG. NO.	
SCALE: 1:12		TFM-13-BOM	
WEIGHT:--		REV	
		0	

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PART # ELIM-TB

NOTE: SHOWN WITH RF500LUF PUMP
OTHER OPTIONS AVAILABLE

DRAWING IS FOR DIMENSIONAL
REFERENCE ONLY AND MAY NOT
INCLUDE ALL COMPONENTS SHOWN

Pump:

The Stainless Steel screen filter on the pump should be checked and cleaned on a regular basis. If continually being plugged with debris, a pump flush should be performed on a regular basis, as some contamination will be pushed through the filter into the pump. Vane wear checks should be performed more frequently also, as any contamination getting past the filter accelerates vane and housing wear.

A frequent check of the condition of the drive coupling between the vacuum pump and the angle gear box or hydraulic motor, should be done. The continuous starting and stopping of the pump places a large strain on the rubber element, and should be changed before metal to metal contact.

If the complete coupling or rubber insert needs to be replaced between the angle gearbox or hydraulic motor, make sure that the rubber insert has clearance between the two coupling halves. Approximately .1". As the vacuum pump runs, and temperatures within the pump rise, the rotor in the pump expands with heat. Clearance within the coupler allows the rotor to stay centered within the pump housing. Failure to supply sufficient clearance within the coupler may force the rotor to contact the housing and cap as the pump heats up. Severe pump damage is possible. If further clarification is required please contact **Fruitland**.

Warranty

Every **Fruitland Vacuum Pump** is covered by a two year parts and labor warranty for failure caused by defective parts or workmanship.

Every Fruitland Eliminator package is covered by a 90 day warranty on defective parts, or workmanship.

