CAUTION
PLEASE CONTACT CURRY SUPPLY COMPANY BEFORE ATTEMPTING ANY CHANGES TO THE ELECTRICAL SYSTEMS. DOING SO MAY CAUSE EQUIPMENT DAMAGE OR VOID WARRANTY.

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NOTE:
1. THIS CIRCUIT IS SPECIFICALLY FOR KENWORTH OR PETERBILTS WITH MX ENGINES

2. THROTTLE RELAY HAS A INTERNAL DIODE BETWEEN 86 AND 85

TITLE: THROTTLE CIRCUIT FOR AIR PTO VAC TRUCK PETER/KEN		DATE 11/20/23
SIZE A3	DRAWING NO. 2187-1031	REV 0
SCALE: NTS	DRAWN BY: JS	SHEET 1 OF 1

Challenger Series
VACUUM PUMPS & BLOWERS
NATVAC.COM | 800-253-5500

NVE
National Vacuum Equipment
Part of Atlas Copco Group

607 PRO FD
HEAVY DUTY VACUUM PUMP

MAXIMUM AIRFLOW - CFM
380 CFM
*MAXIMUM VACUUM
29" H
*OPERATING RANGE
1250 RPM
HP @ FULL VACUUM
25
HP REQUIRED @ 20 PSI
28
PORTING SIZE
3"
SHAFT SIZE (3/8" KEY)
1.5"
APPROXIMATE WEIGHT
390 LBS

SCAN FOR PRODUCT LITERATURE

PRODUCT SERIAL NUMBERS BEFORE **72810**

REFER TO MANIFOLD DIAGRAM ON LEFT

REFERENCE 320-081 DRAWING FOR KIT PARTS BREAKOUT

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
12	1	120-041-367	CHECK VALVE 3"
13	1	120-042-367	RETAINER RING CHECK VALVE 3"
16	1	120-046-367	SPRING CHECK VALVE
51	1	120-314-001	FILTER ELEMENT 607/866
52	1	120-320-003	HOUSING FILTER 607 W/ RELIEF BOSS

DECAL LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
400	2	120-100-005	DECAL 607 PRO CHALLENGER HEAVY DUTY
401	1	120-100-012	DECAL CLEAN FILTER REGULARY YELLOW
402	1	120-101-003	DECAL CW ROTATION ARROW
403	1	120-103-367	DECAL, IMPORTANT, MAX OPERATING TEMP

FASTENER LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
300	1	BHCS - 1/4-20 UNC X 0.50	BHCS - 1/4-20 UNC X 0.50
301	1	FW - 1/4 USS	FLAT WASHER - 1/4 USS
302	2	HHCS - 3/8-16 UNC X 1.75	HEX HEAD CAP SCREW - 3/8-16 UNC X 1.75
303	4	HHCS - 5/16-18 UNC X 1.00	HEX HEAD CAP SCREW - 5/16-18 UNC X 1.00
304	2	LW - 3/8	LOCK WASHER, 3/8
305	2	PLUG - 1/4 NPT SH	SOCKET HEAD PLUG - 1/4 NPT
306	2	PLUG - 1/8 NPT SH	SOCKET HEAD PLUG - 1/8 NPT
307	6	RVT 3/32 D X 1/4L SS	BLIND RIVET, 3/32 DIA X 1/4 GRIP, SS
308	5	SFHCS - 1/2-13 UNC X 0.75	SERRATED FLANGE HEX HEAD SCREW - 1/2-13 UNC X 0.75
309	1	SFHCS - 3/8-16 UNC X 0.75	SERRATED FLANGE HEX HEAD SCREW - 3/8-16 UNC X 0.75
310	8	SFHCS - 3/8-16 UNC X 1.75	SERRATED FLANGE HEX HEAD SCREW - 3/8-16 UNC X 1.75
311	6	SFHCS - 3/8-16 UNC X 2.25	SERRATED FLANGE HEX HEAD SCREW - 3/8-16 UNC X 2.25
312	22	SFHCS - 5/16-18 UNC X 1.00	SERRATED FLANGE HEX HEAD SCREW - 5/16-18 UNC X 1.00
313	6	SHCS - 1/4-20 UNC X 0.75	SOCKET HEAD CAP SCREW - 1/4-20 UNC X 0.75
314	1	SHCS - 5_16-24 UNF X 1.25	SHCS - 5/16-24 UNF X 1.25
315	4	SS - 5/16-18 UNC X 2.00	HEXAGON SOCKET SET SCREW - 5/16-18 UNC X 2.00 SS
316	16	TAPSCR - 1_4-14 X 0.75	HEX HEAD SELF TAPPING SCREW 1/4-14
317	8	SFHCS - 3/8-16 UNC X 0.75	SERRATED FLANGE HEX HEAD SCREW - 3/8-16 UNC X 0.75
318	8	SFHCS - 5/16-18 UNC X 1.00	SERRATED FLANGE HEX HEAD SCREW - 5/16-18 UNC X 1.00

PARTS LIST

ITEM	QTY	PART NUMBER	DESCRIPTION
2	1	120-001-016	HOUSING 607 MANIFOLD INTAKE CHECK
3	1	120-003-002	ENDPLATE 607 CW
4	1	120-003-003	ENDPLATE 607 CCW
5	2	120-004-367	GASKET ENDPLATE 607
6	1	120-005-367	ROTOR 607
7	1	120-006	KEY 3/8" X 3/8" X 2"
8	7	120-007-367	VANE 607
9	2	120-009-367	SEAL SLEEVE 607
10	4	120-018-367	SEAL 60 X 72 X 8 VITON SGL LIP
11	2	120-019-367	ROLLER BEARING
12	2	120-039-367	GASKET 607 INTAKE/EXHAUST
13	1	120-041-006	C.V. SEAT - 607 & B500
14	1	120-041-012	C.V. POPPIT, SPRING ASSIST - 607 & B500
15	1	120-041-013	C.V. RETAINER, SPRING ASSIST - 607 & B500
16	1	120-045	SPRING 4-WAY FTR VALVE
17	2	120-045-001	SPRING WAVE WIRE 3.50" DIA
18	1	120-045-012	607 INTAKE CHECK VALVE SPRING
19	2	120-053	SEAL 40 X 52 X 7 VITON
20	1	120-054-001	BEARING COVER 607
21	1	120-054-002	BEARING COVER 607 OIL PUMP
22	2	120-055-367	GASKET, FRONT BEARING COVER
23	1	120-058	PLUG BRASS HEX HEAD 1/8" NPT
24	1	120-060-005	GRIP 3/8" HANDLE W/ LOGO
25	1	120-060-007	HANDLE, 607 & B500
26	1	120-062-002	PLUG 4-WAY FOR 3/8" HANDLE
27	2	120-064-002	O-RING, 2-214 VITON
28	1	120-064-003	O-RING, 2-240 VITON
29	1	120-064-030	O-RING SQUARE VITON 436
30	1	120-064-035	O-RING 2-266 VITON
31	1	120-065-002	TOWER 3" 607
32	1	120-070-004	SHROUD LOWER 607
33	1	120-071-004	SHROUD UPPER 607
34	1	120-072-004	SHROUD SERVICE PANEL 607
35	1	120-074-001	FAN SHROUD 607
36	1	120-076	KEY 3/8" X 3/8" X 1"
37	1	120-077-004	SHROUD SUPPORT PLATE 607
38	1	120-079-008	GUARD NVE OIL PUMP 607/887 W/ TAG MOUNT
39	1	120-083-002	FAN ASSY 607 CW
40	1	120-102	VALVE, DRAIN 1/8" NPT
41	1	120-105-607	NAME PLATE SS 607
42	1	120-107-001	SERIAL TAG SS
43	1	120-220	THERMOMETER, 50- 400 DEG, 2" FACE
44	1	120-310-003	COVER FLTR MACHINED 607 & B500
45	4	120-312-002	KNOB, 5/16-18UNC
46	1	120-314-006z	INTAKE FILTER 607/B500 (PURCHASED)
47	1	120-320-006	HOUSING FILTER B500 & 607
48	1	123-000-004	OIL PUMP 4 PORT NVE
49	8	123-013-001	WASHER 3/8" SEALING VITON
50	4	123-408-014	BANJO BOLT 1/8" BSPP
51	3	190-014-359	GREASE FITTING, 1/4-28 UNF
52	1	320-083-011	CAP OIL PUMP FEED LINE FITTING
53	1	320-407-005	OIL LINE -3 SST FEMALE JIC TO BANJO 6.75"
54	1	320-407-006	OIL LINE -3 SST 90 DEG JIC TO BANJO 17.5"
55	1	320-407-008	OIL LINE -3 SST 90 DEG JIC TO BANJO 24.00"
56	1	320-407-035	OIL LINE -3 SST 45 DEG JIC TO BANJO 29.75"
57	2	320-408-016	FITTING STR -3 MJIC X 1/8 MNPT
58	2	320-408-017	FITTING ELBOW -3 MJIC X 1/8 MNPT
59	1	320-409-003	P-CLIP, OIL LINE 1/4" X 5/16
60	1	320-LF8	DRIVE TAB
61	1	320-R31	GASKET OIL PUMP
62	1	412-020-001	WASHER, CUP 4-WAY
63	2	120-063-367	FLANGE 4-WAY 3" NPT
64	2	120-064-001	O-RING, 2-154 VITON
65	1	120-073-E	E-COAT FAN GUARD, 367, 460, 466 & 506
66	1	320-081	REMOTE OIL TANK KIT

ITEM #	PART #	DESCRIPTION	QTY.	
1	500LUF	500LUF Vacuum Pump	1	
2	RF500-SC	Pedastal Frame	1	
3	RF500-M09C	M09 Muffler Assembly	1	
5	ADM09C	Angle Drive Mount	1	
6	RF500-GB400	Right Angle Gear Box	1	
8	FAS09C	Flange - Secondary Shut-Off Side	1	
9	FA-3NPT-M	3" NPT Flange for Diverter	2	
10	FAM09-03	Rubber Hose - Ø3" x 13" Long - Muffler Side	1	
13	HCM-091-001	Super Clamp - SCS 86-91	4	
14	F190C-1250	F190 Coupling C/W 42mm Bore Flange - 1/4" Key & Insert	1	
15	RF500-57	Gasket - Pump Flange	2	
27	VB	Vacuum Relief Valve - 1-1/2" NPT	2	
		Hex Bolts		
F1	HBM-100-350	Hex Bolt - M10 x 1.5mm x 35mm Long - Z.P.	4	1
F2	HBI-600-170	Hex Bolt - 5/8"-11 NC x 1-3/4" Long - Z.P.	4	
F3	5/8"X2-1/4" HEX HEAD	Hex Bolt - 5/8"-11 NC x 2-1/4" Long - Z.P.	4	
F4	HBI-500-005	Hex Bolt - 1/2"-13 NC x 1-3/8" Long - Z.P.	4	1
		Hex Nuts		
F5	RF500-137A	Hex Nut - M10 x 1.5mm - Z.P.	4	
F6	HNI-500-201	Nylock Hex Nut - 1/2"-13 NC - Z.P.	4	1
F7	5/8" NYLOCK NUTS	Nylock Hex Nut - 5/8"-11 NC - Z.P.	8	
		Washers - Flat & Lock		
F8	5/8" F/W-SAE	Flat Washer, SAE (Small) - 5/8" - Z.P.	8	
F9	5/8" F/W-USS	Flat Washer, USS (Large) - 5/8" - Z.P.	4	
F10	RF120-94A	Lock Washer (Split) - M10	4	
F11	1/2" L/W	Lock Washer (Split) - 1/2" - Z.P.	4	
F12	M10-FW	Flat Washer - M10 - Z.P.	4	1
F13	1/2" F/W-SAE	Flat Washer, SAE (Small) - 1/2" - Z.P.	4	
		Split Pins		
F14	1/4" X 1" LG SPLIT PIN	Split Pin - 1/4" x 1" Long	2	

PART # ELIM A-M500LUF

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

WEIGHT AS SHOWN: 718 LBS

DCR #1008, REV. 1: UPDATED HARDWARE IN BOM (ITEMS F1,F2,F4,F6,F7,F11,F12,F13), 02/22/2023, I.P.

PROPRIETARY AND CONFIDENTIAL

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	NAME	DATE
CREATED	S.B.	28/01/13
CHECKED	W.D.	22/02/13

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL OR .X = ±.015
.XX = ±.010
.XXX = ±.005

MATERIAL --

FRUITLAND
324 Leaside Avenue
Stoney Creek, Ontario,
CANADA L8E 2N7
Phone: (905) 662-6552
Fax: (905) 662 9875

TITLE: ELIM A-M500LUF BOM

DWG. NO. ELIM A-M500LUF REV 1

SCALE: 1:12 WEIGHT:-- SHEET 1 OF 1

NOTE: SHOWN WITH 500LUF PUMP
OTHER OPTIONS AVAILABLE

PART # ELIM A-SM500LUF

PROPRIETARY AND CONFIDENTIAL

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324 Leaside Avenue
Stoney Creek, Ontario,
CANADA L8E 2N7
Phone: (905) 662-6552
Fax: (905) 662 9875

TITLE: ELIM A-M500LUF DIMS

DWG. NO. ELIM A-M500LUF

REV 1

SCALE: 1:12 | WEIGHT:-- | SHEET 2 OF 2

DCR #1008, REV. 1: UPDATED HARDWARE IN BOM (ITEMS F1,F2,F4,F6,F7,F11,F12,F13), 02/22/2023, I.P.

6 5 4 3 2 1

HYDRAULIC MOTOR SPECIFICATIONS								
ITEM #	HYDRAULIC MOTOR PART #	DISP. (IN³)	MAX PRESSURE	MAX RPM	MOUNTING FACE	SHAFT DIA.	KEY SIZE	PORT SIZE (INLET / OUTLET)
A	P500-HM	5.70	3000 PSI	3000	SAE B - 4 BOLT	1.25"	5/16"	1-1/2" NPT
B	P500-HMBOS	5.70	3000 PSI	3000	SAE B - 4 BOLT	1.25"	5/16"	-20 ORB
C	P500-HMBOS-C	5.70	3000 PSI	3000	SAE C - 4 BOLT	1.25"	5/16"	-20 ORB

NOTES:
1. ALL FASTENERS TO BE SUPPLIED
2. SEE INDIVIDUAL PACKAGE DRAWINGS FOR COMPLETE BOM & DIMS
3. ELBOW FLANGES & HOSE LENGTHS DEPEND ON PACKAGE STYLE
4. FOR HYD. PACKAGES, SPECIFY COUPLING SIZE
5. HARDWARE QUANTITIES DEPEND ON PACKAGE CONFIGURATION
6. LH & RH CONFIGURATIONS OF MUFFLERS & SECONDARY AVAILABLE

FRUITLAND ELIMINATOR A & H PACKAGE FOR 500LUF PUMPS - COMPLETE PACKAGE OPTIONS

HARDWARE LIST		
ITEM #	PART #	DESCRIPTION
F1	HBI-620-252	HEX BOLT - 5/8"-11 NC x 2-1/2" LG. - Y.Z.P
F3	HBI-500-132	HEX BOLT - 1/2"-13 NC x 1-3/8" LG. - Y.Z.P.
F4	HBI-500-152	HEX BOLT - 1/2"-13 NC x 1-1/2" LG. - Y.Z.P.
F5	HBI-500-172	HEX BOLT - 1/2"-13 NC x 1-3/4" LG. - Y.Z.P.
F6	HBI-310-102	HEX BOLT - 5/16"-18 NC x 1" LG. - Y.Z.P.
F7	HBM-100-351	HEX BOLT - M10 x 35mm LG. - Z.P.
W1	HWI-620-32	FLAT WASHER, SAE (SMALL) - 5/8" - Y.Z.P.
W2	HWI-620-42	FLAT WASHER, USS (LARGE) - 5/8" - Y.Z.P.
W3	HWI-500-32	FLAT WASHER, SAE (SMALL) - 1/2" - Y.Z.P.
W4	HWI-310-02	FLAT WASHER - 5/16" - Y.Z.P.
W5	HWM-100-01	FLAT WASHER - M10 - Z.P.
L1	HWM-100-21	LOCK WASHER - M10 - Z.P.
L2	HWI-500-22	LOCK WASHER - 1/2" - Y.Z.P.
N1	HNI-620-N2	NYLOCK NUT - 5/8"-11 NC - Y.Z.P.
N2	HNI-500-N2	NYLOCK NUT - 1/2"-13 NC - Y.Z.P.
N3	HNI-500-H2	HEX NUT - 1/2"-13 NC - Y.Z.P.
N4	HNI-310-N2	NYLOCK NUT - 5/16"-18 NC - Y.Z.P.
N5	HNM-100-H1	HEX NUT - M10 x 1.5mm - Z.P.
P1	HPI-25R-100	SPLIT PIN - 1/4" x 1" LONG

ITEM #	PART #	DESCRIPTION	QTY.
1	500LUF	500LUF VACUUM PUMP (CCW)	1
2	RF500-SM	PEDESTAL FRAME	1
3	RF500-S09L	S09 SECONDARY SHUT-OFF ASSEMBLY	1
4	RF500-M09R	M09 MUFFLER ASSEMBLY	1
4A	M09-EXM	M09 MUFFLER EXTENSION ASSEMBLY - 3" NPT	1
5	M02	M02 MUFFLER ASSEMBLY	1
6	TFMJ-870-02	M02 MUFFLER MOUNTING BRACKET	1
7	ADM24	ANGLE DRIVE MOUNT	1
8	RF500-GB400	RIGHT ANGLE GEAR BOX	1
9	HDM24	HYDRAULIC MOTOR MOUNT	1
10A	F190C-1250	F190 COUPLING C/W 42mm & 1.25" BORE FLANGES, 1/4" KEY, & INSERT	1
10H	F190C-1255	F190 COUPLING C/W 42mm & 1.25" BORE FLANGES, 5/16" KEY, & INSERT	1
11A	RF500-3NPT	3IN DIVERTER TUBE FOR 500 ELIMS	1
12	FAM09	ELBOW FLANGE - 3" - MUFFLER SIDE	2
13	RF500-57	GASKET - DIVERTER FLANGE	3
14	FA-3NPT-M	DIVERTER FLANGE - 3" NPT	3
15	HCM-080-091	HOSE CLAMP 3" - M8 (86-91mm) - MIKALOR	6
16	FAS24-03-02	RUBBER HOSE - Ø3" x 2" LONG (TO S09)	1
17	FAM09-03-13	RUBBER HOSE - Ø3" x 13" LONG (TO M09)	1
18	FAM09-03-19	RUBBER HOSE - Ø3" x 18.75" LONG (TO M02)	1
19	FVB-152-BR	BALL VALVE - 1-1/2" NPT	1
20	FVB-102-BR	BALL VALVE - 1" NPT	2
21	FPE-100-91-CS	STREET ELBOW (MxF) - 1" NPT	1
22	PRV-2	PRESSURE RELIEF VALVE - 2" NPT	1
23	VB	VACUUM RELIEF VALVE - 1-1/2" NPT	1
24	FGC-021-PV	COMPOUND PRES-VAC. GAUGE - 1/4" NPT	1

PROPRIETARY AND CONFIDENTIAL

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324 Leaside Avenue
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Phone: (905) 662-6552
Fax: (905) 662 9875

TITLE: ELIMINATOR A & H 500 PACKAGES - COMPLETE PACKAGE OPTIONS

DWG. NO. ELIM A-H-500LUF

REV 2

SCALE: 1:10 WEIGHT:-- SHEET 1 OF 2

ELIM A-SM500LUF COMPLETE ASSEMBLY

ELIMINATOR A PACKAGE WITH 500LUF PUMP,
RIGHT ANGLE GEAR BOX & MOUNT,
M09 MUFFLER & SECONDARY SHUT-OFF.

ELIM H-SM500LUF COMPLETE ASSEMBLY

ELIMINATOR H PACKAGE WITH 500LUF PUMP,
HYDRAULIC MOTOR & MOUNT,
M09 MUFFLER & SECONDARY SHUT-OFF.

NOTE:
SHOWN WITH 500LUF PUMP
OTHER OPTIONS AVAILABLE.
ALSO, AVAILABLE OPTIONS WITH M02 MUFFLER.

FRUITLAND ELIMINATOR A & H PACKAGE
FOR 500LUF PUMPS -
COMPLETE PACKAGE OPTIONS - DIMENSIONS

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MATERIAL --

FRUITLAND
324 Leaside Avenue
Stoney Creek, Ontario,
CANADA L8E 2N7
Phone: (905) 662-6552
Fax: (905) 662 9875

TITLE: ELIMINATOR A & H 500 PACKAGES - COMPLETE PACKAGE OPTIONS DIMENSIONING

DWG. NO. ELIM A-H-500LUF-DIM REV 2

SCALE: 1:12 WEIGHT:-- SHEET 2 OF 2

2.1
2.4
2.5
2.2
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12
6

Item	Code	Description	Qty
1	11063	Bolt - M8 x 25	4
2.1	21076	Thermometer	1
2.2	27463	Tee - 1/2"	1
2.3	30254	Nipple - 1/2" x 2”	1
2.4	27101	Hose Insert - 1/2"	2
2.5	27010	Elbow - 1/2"	1
2.6	27301	Plug - 1/2"	1
3	500806	Rivet - 2.5 x 6	2
4	501015	Seal - 35 x 47 x 7	2
5	501506	Plug	1
6	501677	O-Ring - 9 1/4” x 1/8”	2
7	501686	Bolt - M12 x35	7
8	501965	Bolt - M12 x 80	10
9	501966	Bolt - M10 x 35	16
10	503054	Cable Tie	2
11	503261	Dowel Pin - 8 x 40	4
12	503416	Plug - 1/4”	1
13	542011	Shim - End Cover .002”	*
14	542012	Shim - End Cover .002”	*
15	568232	Gasket - Side Plate	1
16	568805	Gasket - Manifold	1
17	568884	Gasket - Valve	1
18	569023	Vacuum Relief Valve	1
19	569946	Oil Pump Fitting	4
20	569538	Bolt - M10 x 25	1
21	569663	Bolt - 1/2” x 1”	4
22	569666	Roll Pin - 4 x 40	1
23	569724	Indicator Washer	1

Item	Code	Description	Qty
24	569849	Bolt - M8 x 60	2
25	569859	Oil Pump Supply Fitting	1
26	569926	Shim - Oil Pump	*
27	569949	Fitting – Oil Line	4
28	569961	Pump Model Tag	1
29	577711	Bolt - M6 x 16	2
30	600293	Oil Line	*
31	968026	Check Valve Flap	2
32	968231	Side Plate	1
33	968846	Manifold	1
34	968918	Vane Pack	1
35	968959	Cylinder	1
36	968971	End Cover	2
37	569636	Oil Pump	1
38.1	969792	Valve Body	1
38.2	969774	Spool	1
38.3	568044	Gasket – Valve Cap	1
38.4	569867	Wave Washer	1
38.5	969776	Valve Cap	1
38.6	501015	Seal - 35 x 47 x 7	1
38.7	11063	Bolt - M8 x 25	4
38.8	503416	Plug - 1/4”	1
39	969827	Handle	1
40	969828	Oil Pump Cap	1
41	969829	Oil Pump Coupler	1
42	969931	Oil Pump Mount	1
43	969984	Rotor Assembly	1

*Notes: * Quantities Vary*