Operators Manual & Parts Lists

Varimount 350 PTO Compressor

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1. Introduction

1.1 Thank you

Thank you for purchasing a Varimount PTO Compressor. We appreciate having you as a customer and wish you many years of safe use of your machine. We hope you are satisfied with our product.

1.2 Safety Aspects

This manual is an important part of your machine and should remain with the machine when you buy it.

Please read all the information carefully in this operating manual before using your Varimount PTO Compressor to avoid injury and machine damage. This manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information.

The operator is solely responsible for the safe use and maintenance of the machine. The machine must only be operated by a competent and skilled person.

1.3 Intended use

The Varimount PTO Compressor unit serves exclusively to compress atmospheric air. The compressor unit may only be used for compressing gases or other media after written approval from Applied Concepts Ltd. and will not be held responsible for any loss or damage caused due to a misuse of the machine.

1.4 Register Your Product and Warranty Online

To register your product through the Internet, simply scan the Varimount QR code which can be found underneath the lid of the tool box or go to www.ptocompressors.com/register. Completing the information, either online or with the product warranty card, will ensure the customer that their product receives all post sales service and important product information.

This machine is warranted for 12 months. No warranty is given where the machine is being used as a hire machine. Warranty is against faulty workmanship or parts.

Warranty covers parts only. All parts must be returned to the manufacturer. No warranty can be considered unless parts are returned. All replacement parts will be supplied on a chargeable basis until warranty has been accepted.

1.5 Tractor Requirements

The Varimount PTO Compressor unit can be attached to the front or rear of your tractor, you're in total control of your air power.

It is the operator's responsibility to ensure that the tractor is suitable for the machine. Always consult your tractor's manual for any further information required.

The Varimount PTO Compressor unit is designed to be attached by means of an A-Frame(3 point linkage connection) adapter that is mounted on the tractors lower and upper linkage arms (for specific requirement Please contact us). The position of the machine can be adjusted by using the tractors hydraulic lift.

ATTACHING THE MACHINE TO THE TRACTOR WILL INFLUENCE THE STABILITY AND MANOEUVRABILITY OF THE TRACTOR. PLEASE CONSULT YOUR TRACTOR MANUAL FOR LIMITATIONS ON WEIGHT AND TOWING ABILITY OF THE TRACTOR.

2. Safety

2.1 Safety Hazards associated with operating a PTO Driven Air Compressor

Shear Hazard

Shear hazards are created when the edges of two objects move toward or next to each other closely enough to cut relatively soft material. This can include the parts of the machine under hydraulic control when operating from transport to compressing position.

Crush Hazard

Bystanders can be injured when PTO compressor machine is lowered and raised position. PTO Compressor machine weighs approximately 1325 KG and have crush points around the base frame & main body areas. All persons are at risk if they place their hands or feet under the machine when it is raised from the ground or being mounted to the tractor.

Rotating Components Hazard

All persons are at risk if they place their hands or feet inside the machine especially when machine guarding is raised during servicing or maintenance when the components are in motion.

Pinch Hazard

Pinch points are created when two objects move together, with at least one of them moving in a circle. This hazard is common in power transmission devices such as Belt & Chain Drives, Gear Drives & Rollers. Ensure all guarding is present.

Free-wheeling parts Hazard

The heavier a revolving part is, the longer it will continue to rotate after power is shut off. This characteristic is called 'free-wheeling.' Drive shafts and Chain and Gear drives etc., will continue to move after power is shut off--often for several minutes. Injuries occur

- When operators shut off equipment, and attempt to clean or adjust a machine before components have completely stopped moving
- PTO shaft chain shears but the primary PTO shaft is stationary. Operator awareness is the key to safety around freewheeling parts.

Noise Hazard

Please note that the machine is normally used outdoors and that the position of the operator is seated in the driving seat of the tractor. It is advisable to consult the prescriptions listed in tractor operator and maintenance manuals.

Hydraulic Hazard (If applicable)

Hydraulic systems store considerable energy,. Careless servicing, adjustment, or replacement of parts can result in serious injury. High pressure blasts of hydraulic oil can injure eyes or other body parts. The following precautions are crucial:

• Make certain the hydraulic pump is turned off.

• Lower attached equipment to the ground.

• Confirm that load pressure is off the system.

A pinhole leak in an hydraulic hose is a serious hazard. A leak may not be visible, and the only sign may be a few drops of fluid. Never inspect hydraulic hoses with your hands, because a fine jet of hydraulic fluid can pierce the skin.

Slips trips and falls Hazard

Slips and falls often result from:

• Slippery footing on the ground

• Cluttered steps and work platforms. The potential for slips and falls can be greatly reduced by using good judgement and practicing good housekeeping on and around equipment

Wrap Hazard

Any exposed, rotating machine component is a potential wrap point. Injuries usually occur when loose clothing or long hair catch on and wrap around rotating parts such as PTO shafts or Drive shafts, Belt & Chain Drives on the machine. Ensure all machine guarding is present.

2.2 Operating Safely

Users should become thoroughly familiar with the contents of this manual before using, servicing and mounting the implement to the tractor and all other pertinent operations. Never wear jewellery, loose clothing such as ties, scarves, belts, unbuttoned jackets or dungarees with open zips which could become caught up in moving parts.

Always wear approved garments complying with accident prevention provisions such as non-slip shoes, ear muffs, goggles and gauntlets. Wear a jacket with reflecting stickers if the implement is used near public highways.

Consult your retailer, the Labour Health Service or your nearest equivalent authority for the information about the current safety provisions and specific regulations with in order to ensure personal safety

ALWAYS DISENGAGE PTO, SWITCH OFF THE TRACTOR ENGINE AND ENGAGE THE PARKING BRAKE BEFORE MAKING ADJUSTMENT TO THE MACHINE.

2.3 Workstation

The operator must remain seated while working the machine. Always ensure the PTO has been turned of and the parking brake applied before leaving cab. The operator must always apply the parking brake, and turn off the engine before leaving machine car-

rying out maintenance .

NEVER OPERATE THE HYDRAULICS WITH THE TRACTOR SWITCHED OFF

2.4 Regulations for use of the transmission

The transmission to the gearboxes is protected throughout the machine by both PTO shafts and bolt down covers. All machine guarding should be kept efficient and in good condition. If the condition is poor, the machine guarding should be renewed before the implement is used.

UNLESS IT IS CORRECTLY PROTECTED THE TRANSMISSION COULD CAUSE DEATH SINCE IT CAN CATCH ON PARTS OF THE BODY OR CLOTHING

Ensure retaining chains are correctly anchored on all PTO shafts, preventing them from turning. Ensure drive line can turn easily within the shield. Keep spline grooves clean and greased so that PTO shaft can connect easily. Besides being described in this manual, the method by which the PTO shaft is connected to the tractor must be checked out with the instructions in the tractor manufacturer's manual.

2.5 PTO Shaft Safety

MAX PTO INPUT 1000 R.P.M. Contact your nearest dealer or a specialised retail outlet if the PTO must be replaced with a longer one, since this must belong to the same power category and possess the same characteristics. An unsuitable PTO could easily break.

The tractor PTO shaft length may be altered to suit the individual tractor model. When the machine is in operation, the PTO shaft should have a minimum 1/3 engagement as shown in the diagrams. After the compressor unit has been hitched to the tractor, it should be checked in various positions that the drive line is the correct length. If the PTO is too short and tends to slip out of place, it must be replaced with a longer one.

If the PTO shaft is too long, it should be shortened in the following way:

• Set the machine at a minimum distance from the tractor, then brake the tractor and switch off the engine.

• Separate the two halves of the PTO. Insert the female part into the tractor PTO and the male part into the machine PTO, checking that the position is correct by means of the fixing pins.

• Line up the two halves of the PTO together, keeping them parallel.

• Using a felt tip pen, match mark the place where the two halves must be shortened as shown.

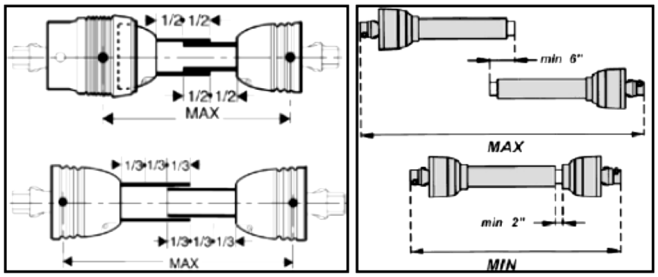
• First cut shield "1" and use part "2" as a reference to cut the splined shaft.

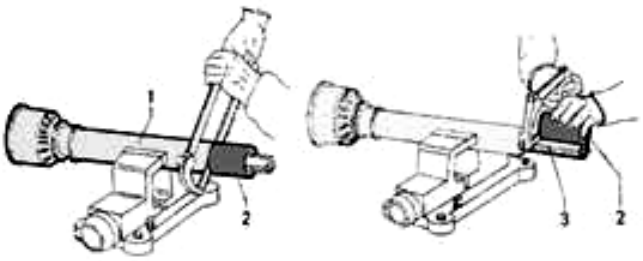
• Proceed in the same way for the second half.

• Trim and chamfer the two cut ends of the PTO and clean off all swarf and shavings.

• Grease the two profiles and join the two halves of the PTO together.

• Mount the PTO shaft and check that its length is correct as before.





2.6 Driving Safely on Public Roads

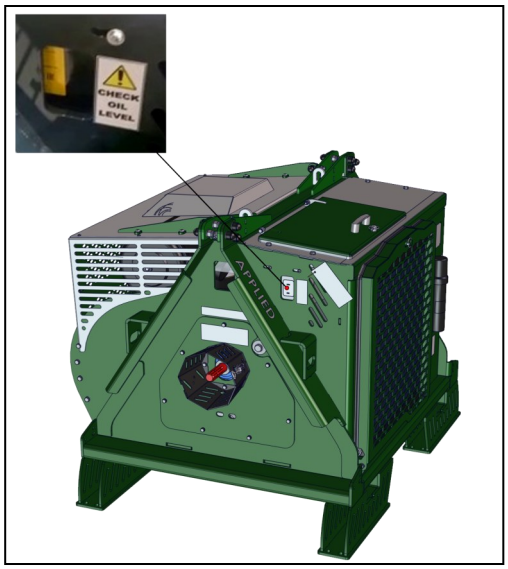
Check the local Highway Code regulations before driving the tractor on public highways with a towed implement. Check the reflectors, hazard flashers and/or projecting load indicators are installed when required and efficient. These indicators must be installed correctly and easily seen by the drivers of other vehicles.

Bystanders must not be allowed to lean against or climb onto the machine during transport or while working. Do not allow bystanders to ride on the machine.

2.7 Inspections before Use

ALWAYS DISENGAGE PTO, SWITCH OFF TRACTOR ENGINE AND ENGAGE THE PARKING BRAKE BEFORE MAKING ADJUSTMENT TO THE MACHINE.

1. Check oil levels.



2. Grease the PTO shaft universal joints, drive shaft bearing and carrying arm pivots.
3. Check tightness of all nuts, bolts and retaining screws after the first and second hours of work.
4. Ensure machine safety guards and covers are in place at all times where fitted.

ALWAYS ENSURE THE PTO SHAFT YOKE ENDS ARE LOCKED ONTO THE SPLINED SHAFTS ON BOTH THE TRACTOR AND THE IM PLEMENT. AN UNLOCKED SHAFT COULD SLIP OUT OF POSITION, CAUSING NOTABLE MECHANICAL DAMAGE AND SERIOUS INJURY TO BOTH OPERATOR AND BYSTANDERS.

2.8 Starting Regulations

Always check that any imminently dangerous conditions have been eliminated before using the machine. Ensure all machine guarding is present & the operator is fully aware of the operations of the machine

Always ensure the pins lock the PTO shaft yoke ends onto the spline shafts on both the tractor and the implement. An unlocked shaft could slip out of position, causing notable mechanical damage and serious injury to both operator and bystanders.

3. Product Identification

3.1 Machine Nameplate/ Serial Numbers

If you need to contact APPLIED or your APPLIED dealer for information on servicing or spare parts, always provide the product model and serial numbers which is found in the machine nameplate.

Model No:	
Serial No:	
Date of Purchase:	
Dealer Name:	
Dealer Telephone:	

We suggest that you record your machine details below:

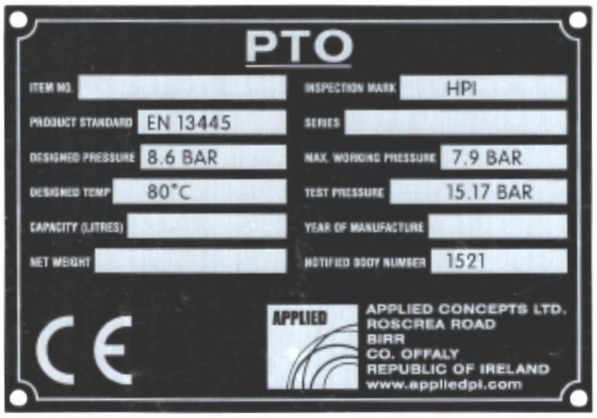
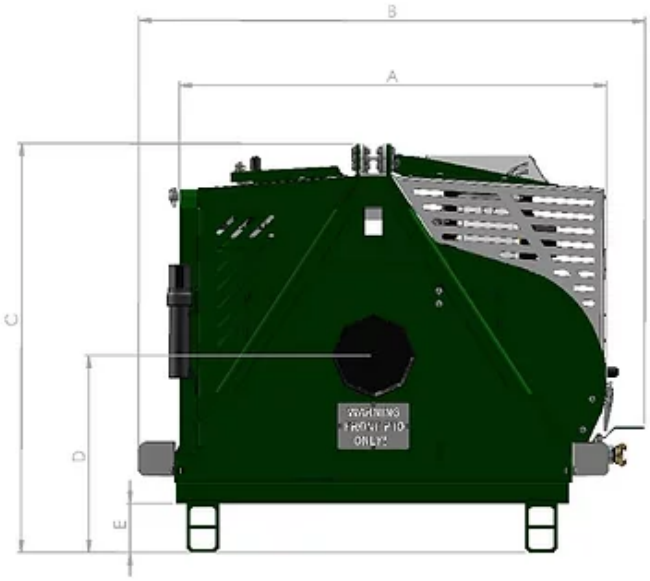
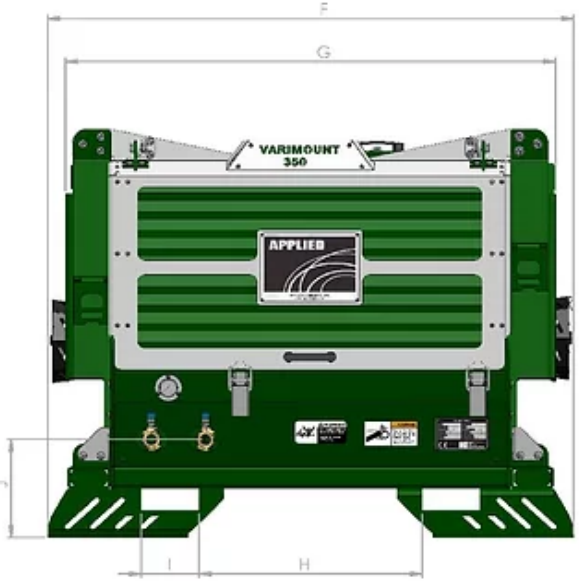


Figure 3.1 MACHINE NAMEPLATE

APPLIED VARIMOUNT 350 PTO COMPRESSOR – DIMENSION SPECIFICATION

VOLUME FLOW: 5.0 – 10.2 m3/min **OPERATING PRESSURE**: 10 Bar





DIMENSION SPECIFICATION			
A	1186 mm	**H**	620 mm
B	1405 mm	**I**	160 mm
C	1177 mm	**J**	311 mm
D	587 mm		
E	175 mm	**Weight**	1320 KG
F	1460 mm	**Ground Clearance**	175 mm
G	1362 mm		

All dimensions and weights are variable within 1.5%. Applied reserves the right to change specifications without prior notice.

3.3 Machine Safety Labels

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety-alert symbol. DANGER identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol.

Crush Hazard Sticker

Bonnet Caution Sticker

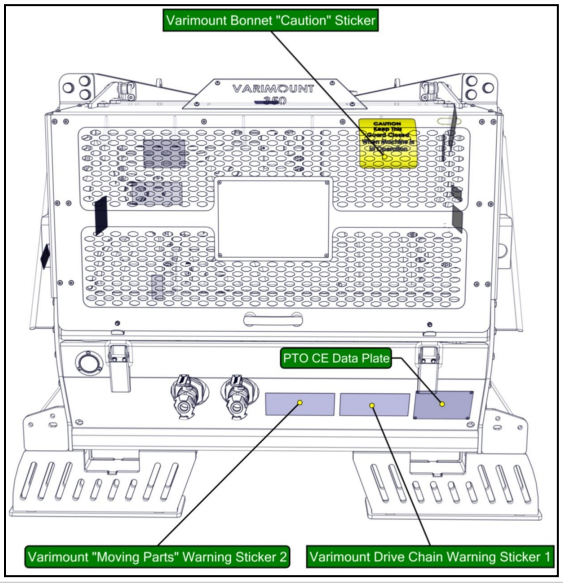
Front PTO Warning Sticker

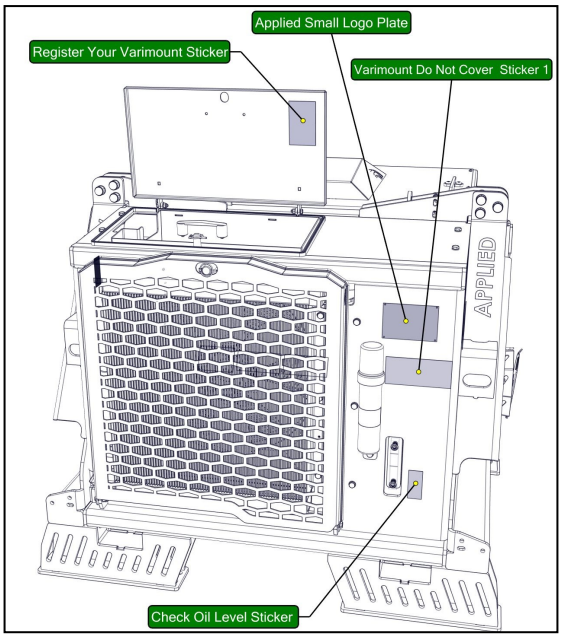
Rear PTO Warning Sticker

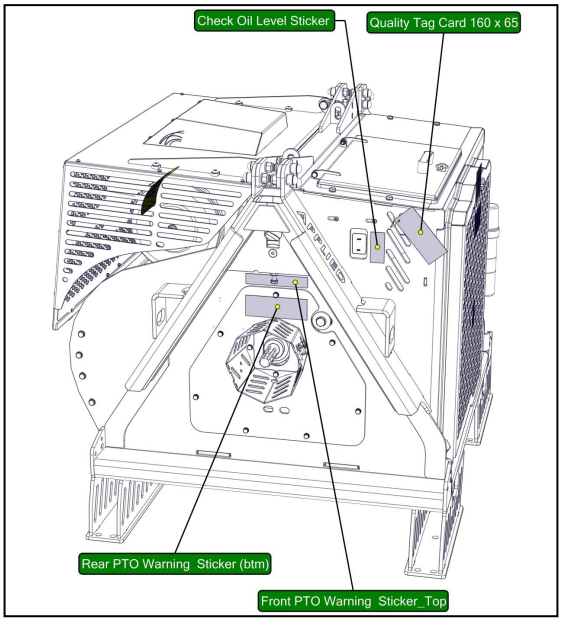
Do Not Cover Sticker

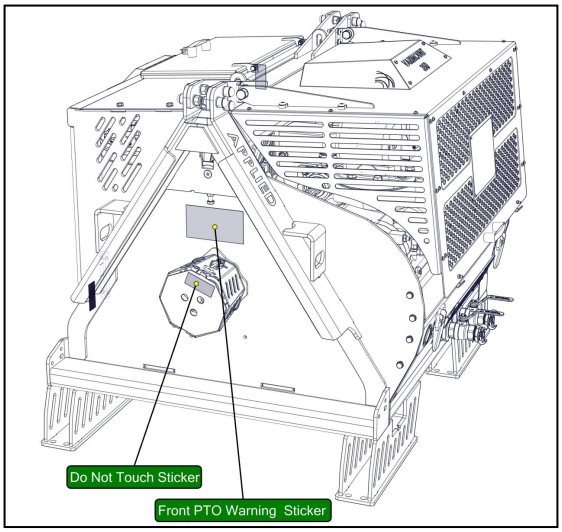
Check Oil Level Sticker

Register Product Sticker



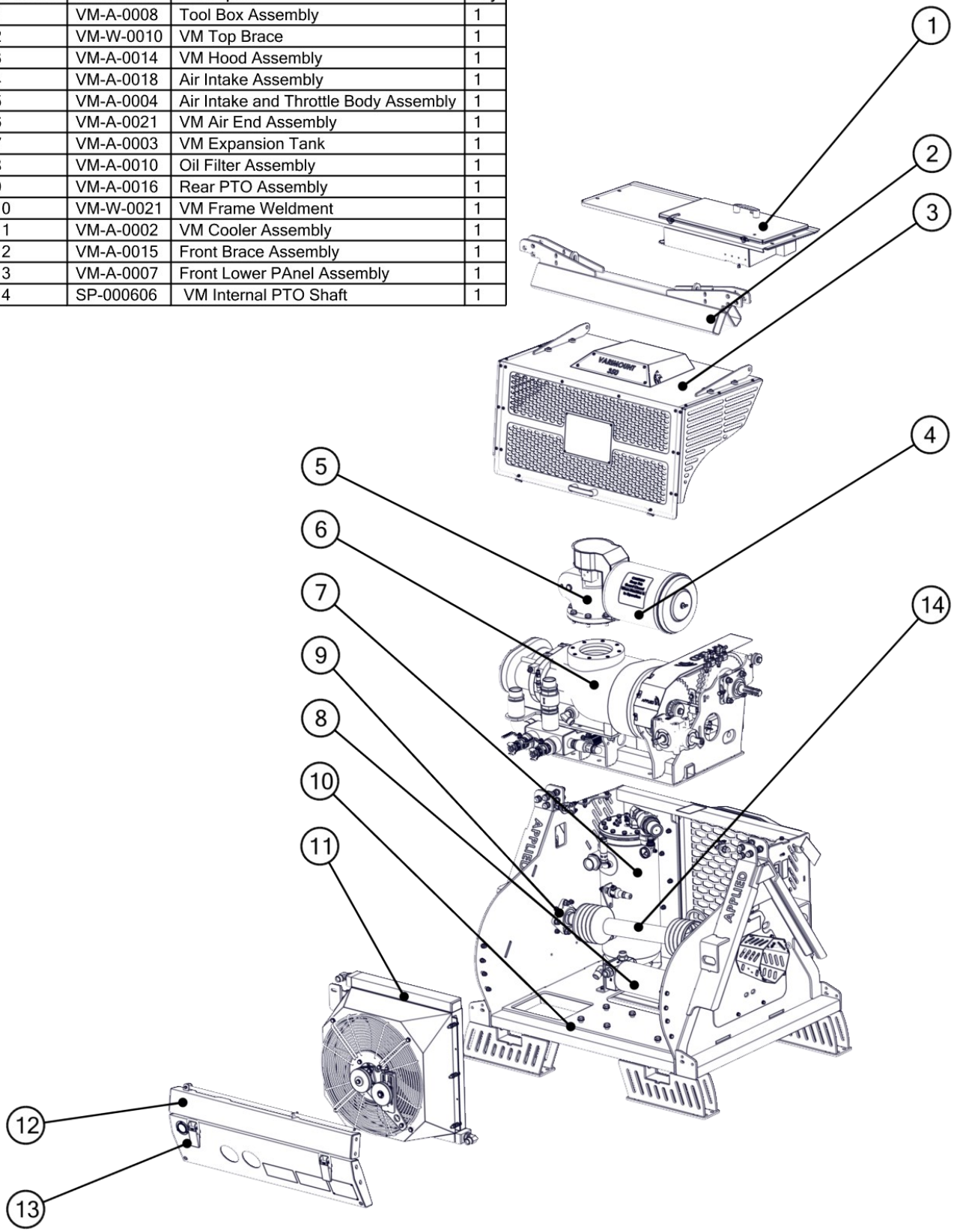






3.4 Key to Main Parts

ITEM NO	PART NO	Description	Qty
1	VM-A-0008	Tool Box Assembly	1
2	VM-W-0010	VM Top Brace	1
3	VM-A-0014	VM Hood Assembly	1
4	VM-A-0018	Air Intake Assembly	1
5	VM-A-0004	Air Intake and Throttle Body Assembly	1
6	VM-A-0021	VM Air End Assembly	1
7	VM-A-0003	VM Expansion Tank	1
8	VM-A-0010	Oil Filter Assembly	1
9	VM-A-0016	Rear PTO Assembly	1
10	VM-W-0021	VM Frame Weldment	1
11	VM-A-0002	VM Cooler Assembly	1
12	VM-A-0015	Front Brace Assembly	1
13	VM-A-0007	Front Lower PAnel Assembly	1
14	SP-000606	VM Internal PTO Shaft	1



3.5 PTO Shaft Rotation

WHEN MOUNTING THE VARIMOUNT ALWAYS CHECK AND ENSURE THE TRACTORS PTO SHAFT ROTATION MATCHES WITH THE VARIMOUNT.

4.Operating the Machine

4.1 Attaching machine to the Tractor

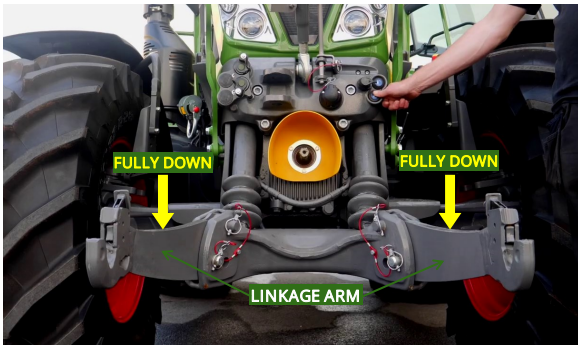
We take customer safety very seriously. Here we will outline some key steps to ensure operator safety. Firstly, you need to familiarize yourself with the Safe Stop procedure.

- ENSURE HANDBRAKE IS APPLIED.
- ENSURE ALL CONTROLS AND EQUIPMENT ARE LEFT SAFE.
- STOP THE ENGINE REMOVE THE KEYS.

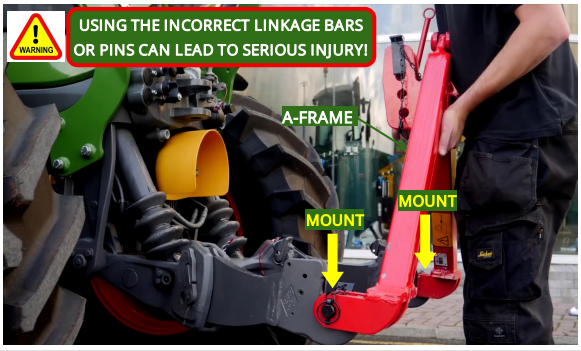
BEFORE STARTING YOU SHOULD FAMILIARIZE YOURSELF WITH THE NECESSARY SAFETY CHECKS.

These steps are very important to follow for attaching the Varimount PTO Compressor machine to the tractor:

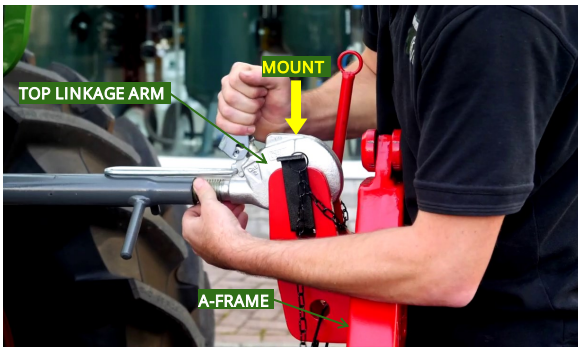
1. Do not use a tractor unless it is properly maintained and safe. Familiarize yourself with the tractors operational manual and you need to be a competent driver before you can operate machinery.
2. With the tractor running lower either the front or rear linkage arms depending on your mounting position to fully down.



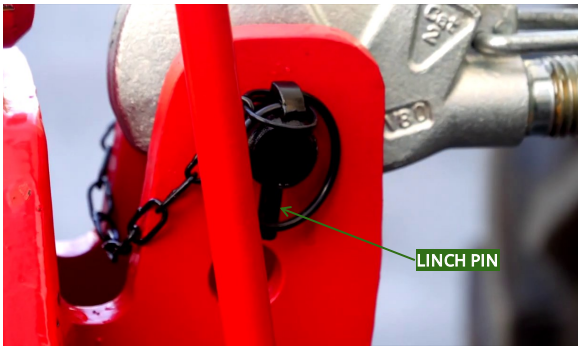
3. Mount the quick hitch A-frame onto the lowered linkage arms using the correct size category linkage bars and pins.



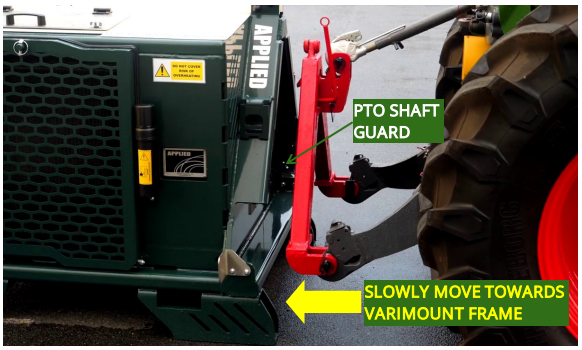
4. Connect the top linkage arm to the quick hitch A-frame and ensure the A-Frame is vertical by adjusting the top link arm.



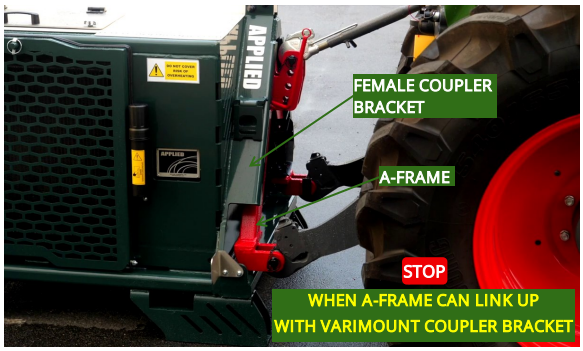
5. Always use Linch pins to insure the pins are locked into position before mounting the Varimount compressor onto your tractor.



6. Using a slow speed move the tractor towards the end of th Varimount unit taking care not to hit the PTO shaft guard.

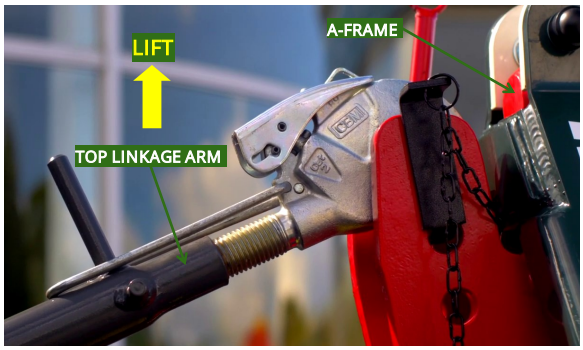


7. Stop when the quick hitch A-frame is in far enough to link up to the female coupler bracket on the Varimount and ensure the A-frame is parallel to the Varimount's frame.

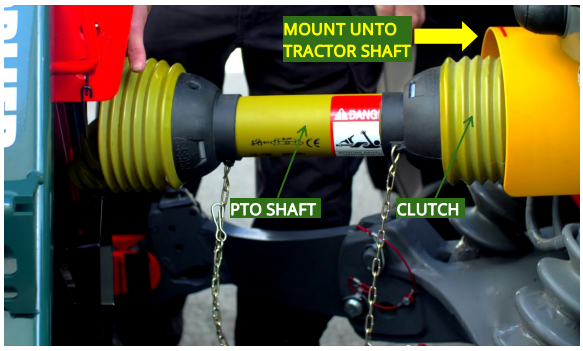


8. Using the controls lift the linkage arms until the A-Frame is completely inside the female coupler and the locking hook is fixed into place. Always visually check the lock is in the correct position.

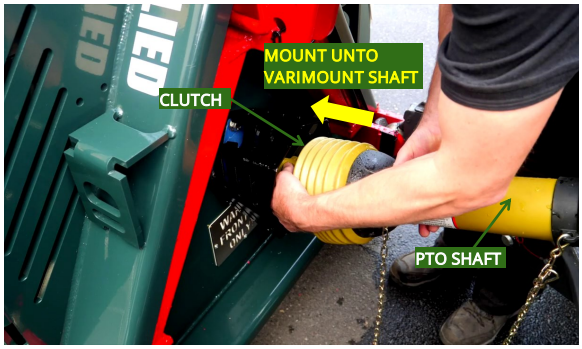
WARNING IF USING EXTERNAL CONTROLS NEVER STAND BETWEEN THE TRACTOR AND THE MACHINERY. TAKE EXTRA CARE AND NEVER RUSH.



9. Always use an overrunning clutch PTO shaft between the tractor and the Varimount. Ensuring the clutch is on the tractor side, mount the PTO shaft onto the tractor shaft ensuring the shaft is in fully position and clicked in.



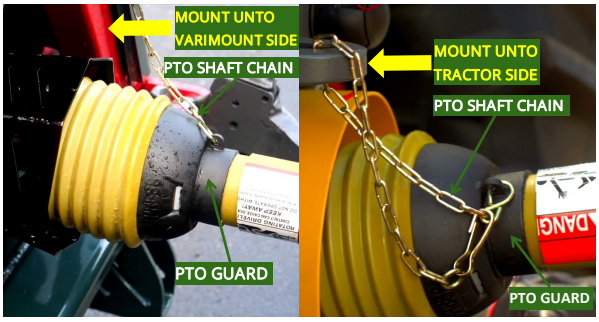
10.Then mount the other end onto the Varimount PTO shaft ensuring it is fully in position.



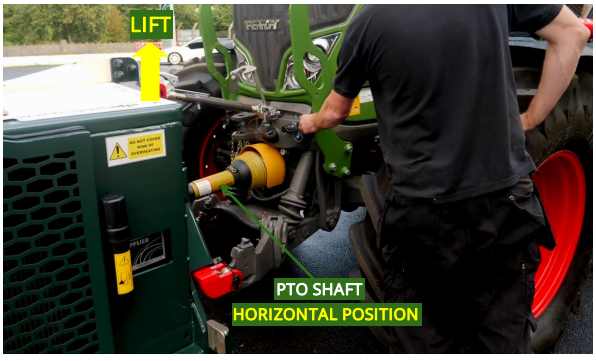
WARNING

NEVER USE A PTO SHAFT WITH A MISSING OR DAMAGED GUARD.

11.Mount the PTO shafts chain on the tractor and the Varimount to prevent the PTO guard from turning.



12. Using the tractors controls lift the Varimount until the PTO shaft is horizontal.



4.2 Operating the Air Compressor

1. Open both ball valve outlets on the compressor prior to use.

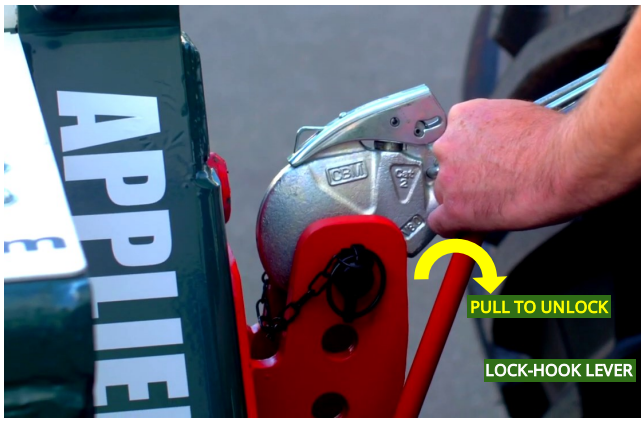
WARNING

ENSURE ALL GUARDS ARE IN PLACE AND REPORT ANY FAULTS IMMEDIATELY. ALWAYS CHECK FOR BYSTANDERS WHEN OPERATING THE TRACTOR AND VARIMOUNT.

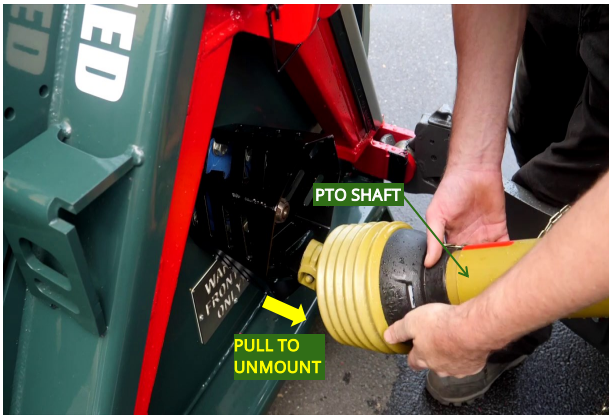
2. Using the tractor controls switch on the PTO shaft and the Varimount will begin producing air immediately and is ready for use. The tractors PTO shaft RPM governs the CFM output of the Varimount compressor machine.

3. When shutting down, close both ball valve outlets on the compressor, bring the PTO speed down. After shutting off the PTO shaft lower the Varimount until it sits level on the ground.

4. Utilize the Safe Stop Procedure .
   Use the rope or lever attached on the quick hitch A-frame to pull the locking hook to disconnect the quick hitch A-frame from the Varimount.



5. Remove the PTO shaft between the tractor and the Varimount will be fully unmounted from the tractor.



4.3 Transport Position

DURING THE TRANSPORT OF THE MACHINE IT IS RECOMMENDED THAT THE PTO SHAFT IS DISCONNECTED.

1. Check machine is hitched to the tractor as described. Ensure the tractor parking brake is applied
2. Ensure moving parts become still then transform the machine into transport position by hydraulic control
3. During the transport and any time the machine shall be raised, the raising device shall be adjusted to assure that the machine is at least 250mm over the ground.

5. Maintenance

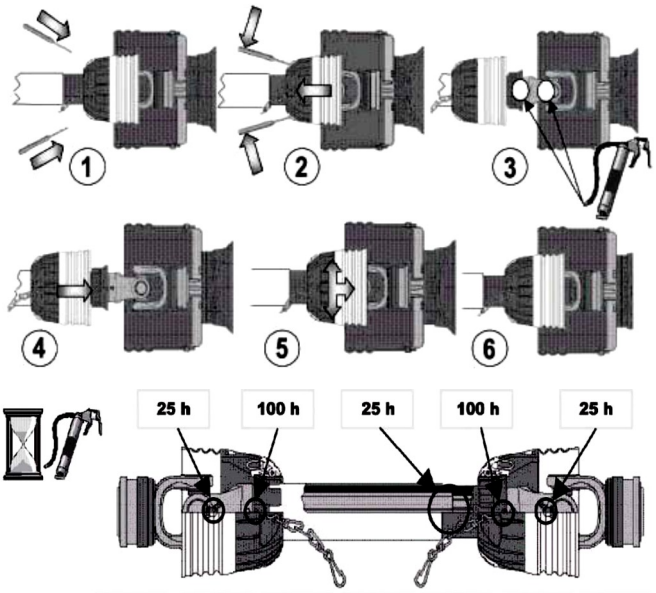
5.1 Machine storage

To prolong the life of your machine it is recommended to store it in a dry environment. Prior to parking the machine for storage, wash the machine thoroughly. Lubricate all pivot points with EP2 type grease. Check for oil leaks and fix these if required. Any parts of the machine with damaged paint/ galvanised surface must be re-painted.

5.2 PTO Shaft Maintenance

Guard Removal and Yoke End Greasing

1. Prise back locking tabs
2. Pull back PTO Guard
3. Grease points as shown
4. Push Guard into position
5. Click into place
6. Tie check chain



PTO Guard Greasing Intervals

Shearbolt Replacement (if applicable)

1. Slide yoke shield back.
2. Drive out sheared bolt with hammer and punch.
3. Align holes and install new shear bolt. (Use only genuine Applied replacement shear bolts)
4. Slide yoke shield securely in place

5.3 Transmission Bolts

All nuts and bolts in the transmission including rubber coupling, pulleys, Star Drives, PTO Shafts and Gearboxes should be checked for tightness after running the Varimount at the following intervals:

-1st 50 hours

-1st 100 hours

-1st 250 hours

-And every 250 hours thereafter.

5.4 Replacement of wear parts

Universal bolts and nuts, V-belts, bearings and pulleys must be checked on a regular basis for wear and defection.

Applied recommends to visually check the PTO shaft assemblies every 40 hours of operation. This interval may change depending on the operational conditions.

Replace any damaged or worn parts immediately, failure to do so can result in component breakages and can cause damage to the equipment or injuries to the operator and others nearby.

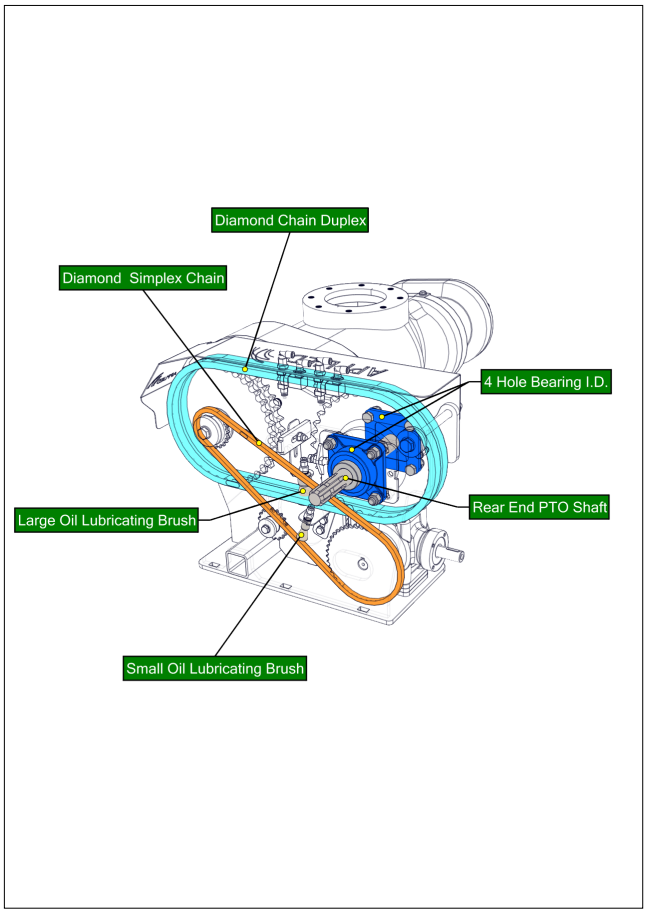
5.5 Chain replacement, bolts & nuts tightening torque, PTO shaft alignment

Ensure that after servicing the transmission chains, the rear PTO shaft are correctly aligned and tightened bolts and nuts as shown in tightening torque table below. If the shaft journals are fitted incorrectly excessive vibration or damage will occur.

Ensure during servicing to inspect the chains and lubricating brush for damage and replace as necessary.

Tightening Torque:

Size	Torque (Nm)
M8	24
M10	48
M14	140
M16	210
M20	425



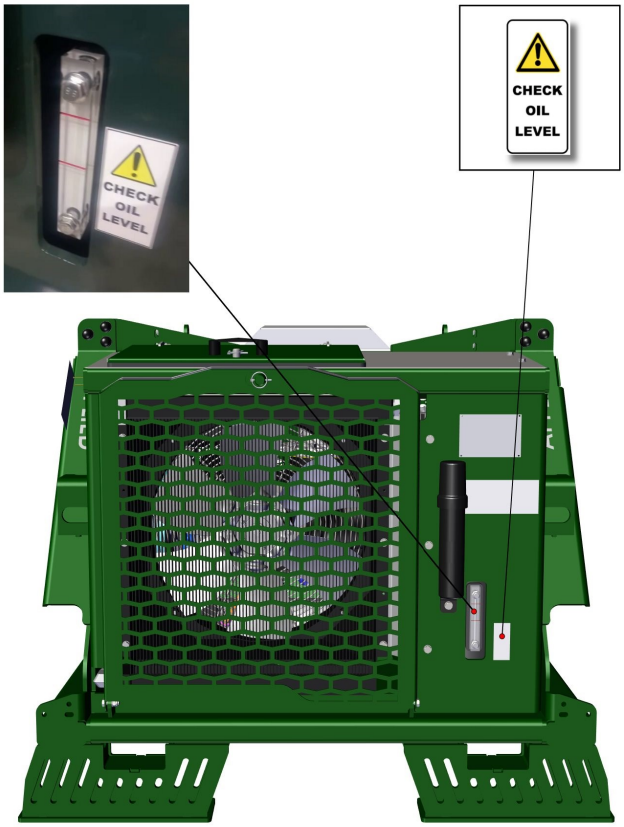
5.6 Troubleshooting

Fault	Cause	Remedy
Machine Not Compressing Air	INSUFFICIENT PTO RPM	INCREASE PTO RPM
	TRACTOR PTO RPM MISMATCHED	CHECK TRACTOR PTO
Excessive vibration	Check gearbox bolts	Tighten if loose
	Drivelines not phased correctly. Implement and tractor yokes must be in line	Phase the driveline. Replace if necessary
Noisy machine	Worn bearing or Chain	Replace bearings or Chain
	Low oil in gearbox	Check level and add oil
	Loose Parts	Check all bolts are fully tightened
	Wrong PTO rpm rate	Check PTO rate & adjust as necessary
	Bent PTO shaft	Check PTO shafts are aligned correctly
		Check output shaft on gearboxes are not bent
		Check driveline between gearboxes is aligned.
Gearbox leaking	Damaged oil seal	Replace seal
	Bent shaft	Replace oil seal and shaft
	Shaft rough in oil seal area	Replace or repair shaft
	Oil seal installed incorrectly	Replace seal
	Oil seal not sealing in the housing	Replace seal or use a sealant on outside diameter of seal
	Oil level too high	Drain oil to proper level
	Hole in gearbox	Replace the gearbox
	Gasket damaged	Replace gasket
	Bolts loose	Tighten bolts

5.7 Lubrication schedule

- Use EP2 type grease or equivalent.

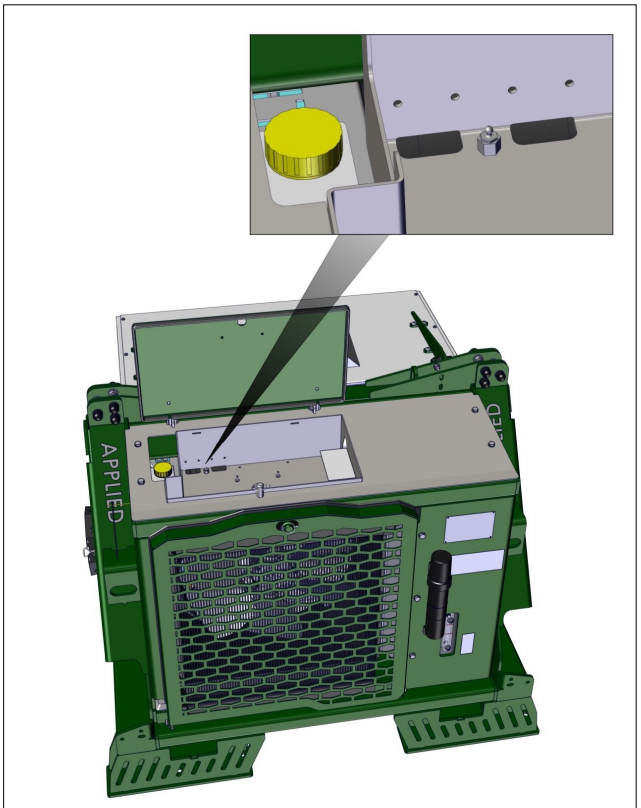
ITEM	TIMELINE		REMARKS
	INITIAL	HOURS	
All PTO Shaft Yoke Ends	●	25	
PTO tubes	●	80	
Check oil levels in the gearboxes	●	80	
Replace oil in gear-boxes		<400	
Check main oil level / Refill Oil Reservoir	●	AS NEEDED	
Apply grease in bearings	●	AS NEEDED	



Main Oil Level: Applied Varimount Magnum Airend Lubricant

For Lubrication of Chain– Use Applied Chain Lubricant Oil.

Check Lubrication Oil Level:



Grease nipple & Oil cap :

5.8 Checking main oil level in expansion tank

(Refer to Figure below)

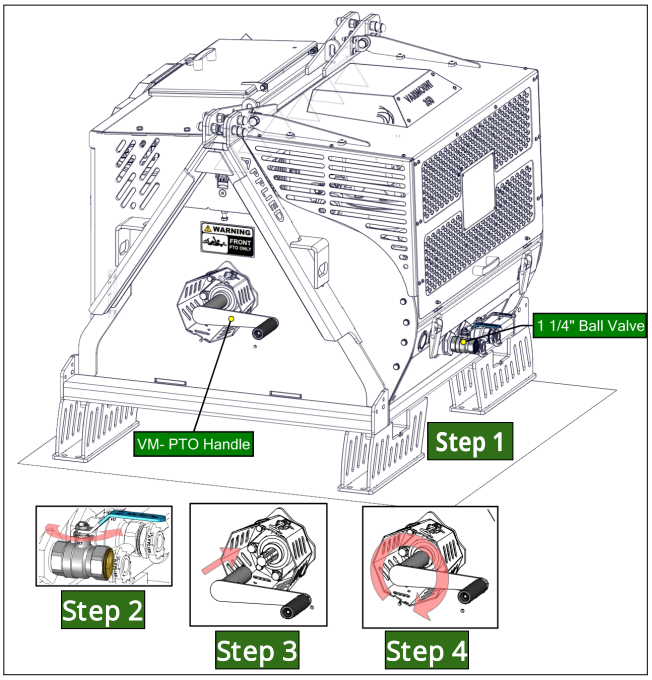
1. Ensure the Varimount is sitting flat on a level ground.

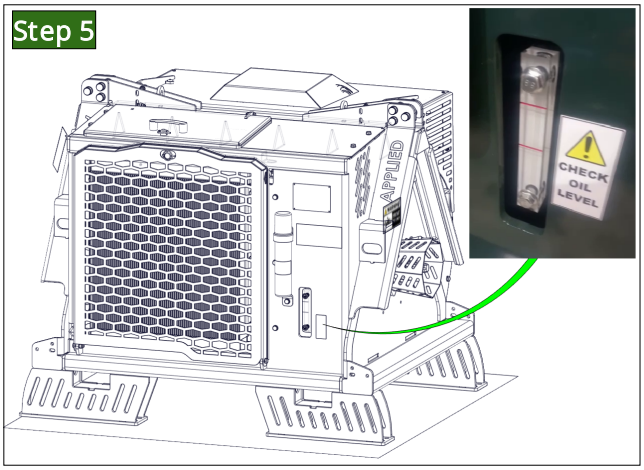
2. Open the ball valve on the Air-end of Varimount.

3. Insert the PTO cranking tool on the Front PTO drive shaft.

4. Manually rotate Clockwise the front PTO drive shaft using the tool several times.

5. Check the main oil level is between the two redlines of the sight glass level and top up if necessary.

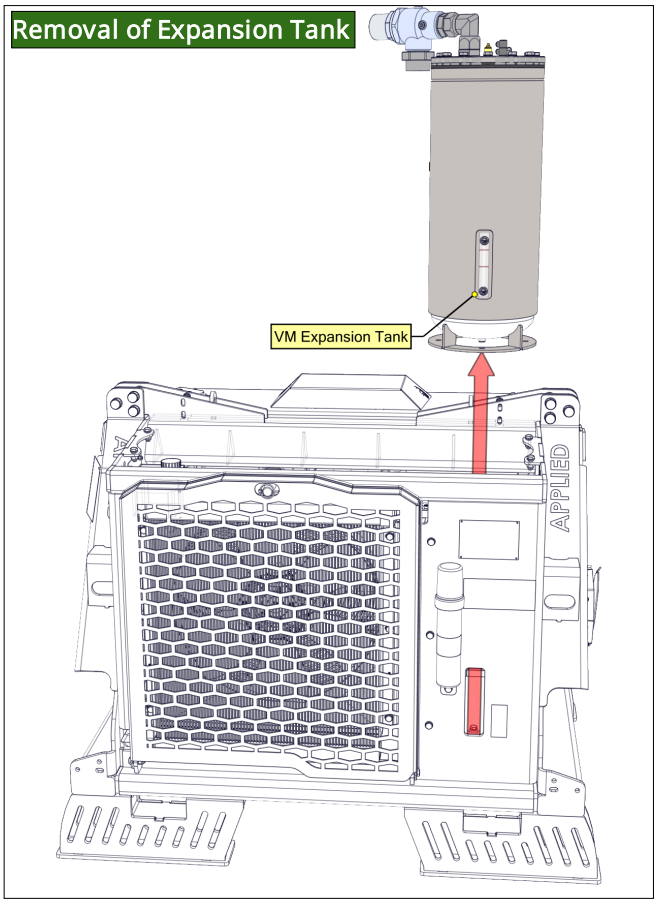


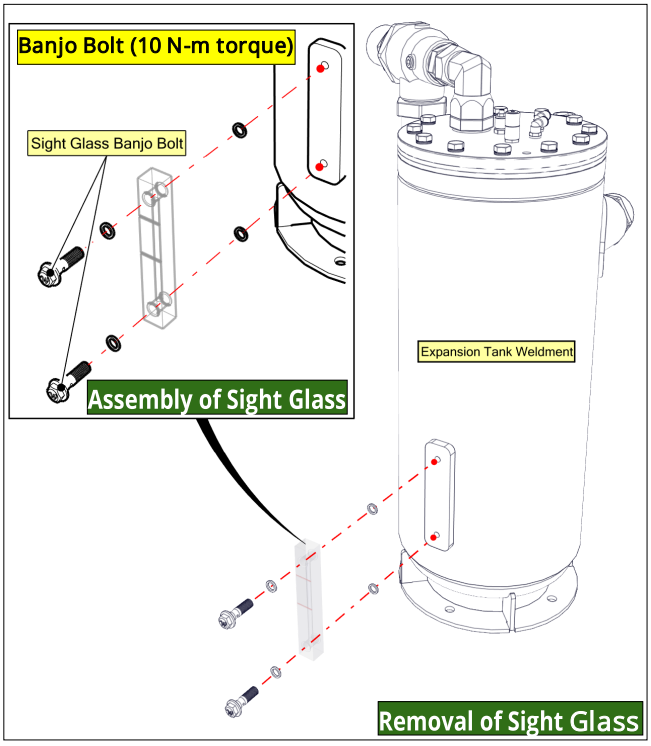


Tools needed:

5.9 Replacing oil sight glass in expansion tank

(Refer to Figure below)



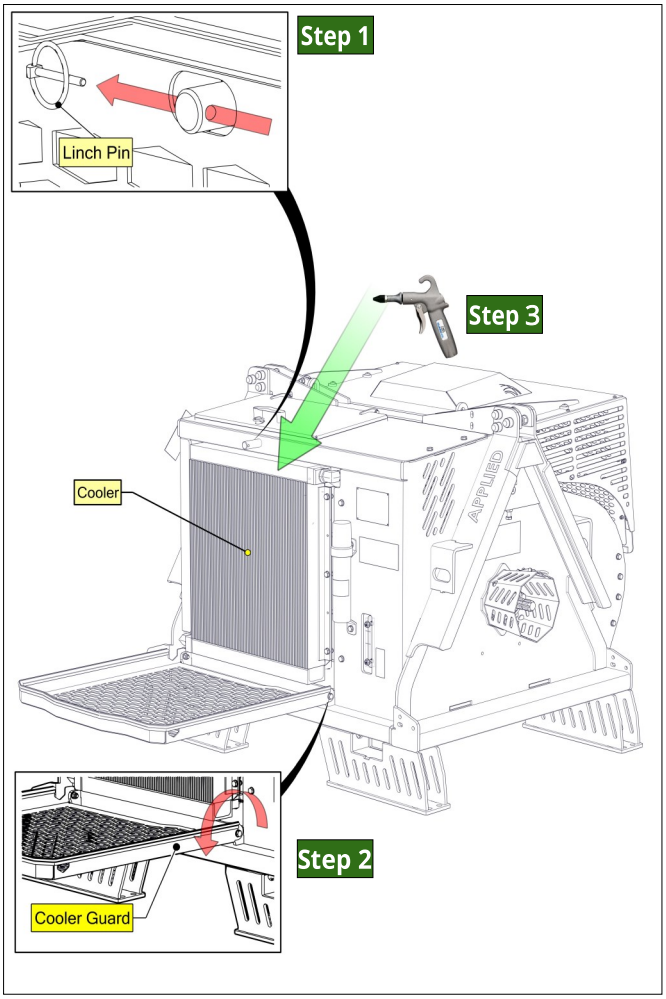


5.10 Dusting Of Oil cooler

(Refer to Figure below)

Procedure for dusting cooler:

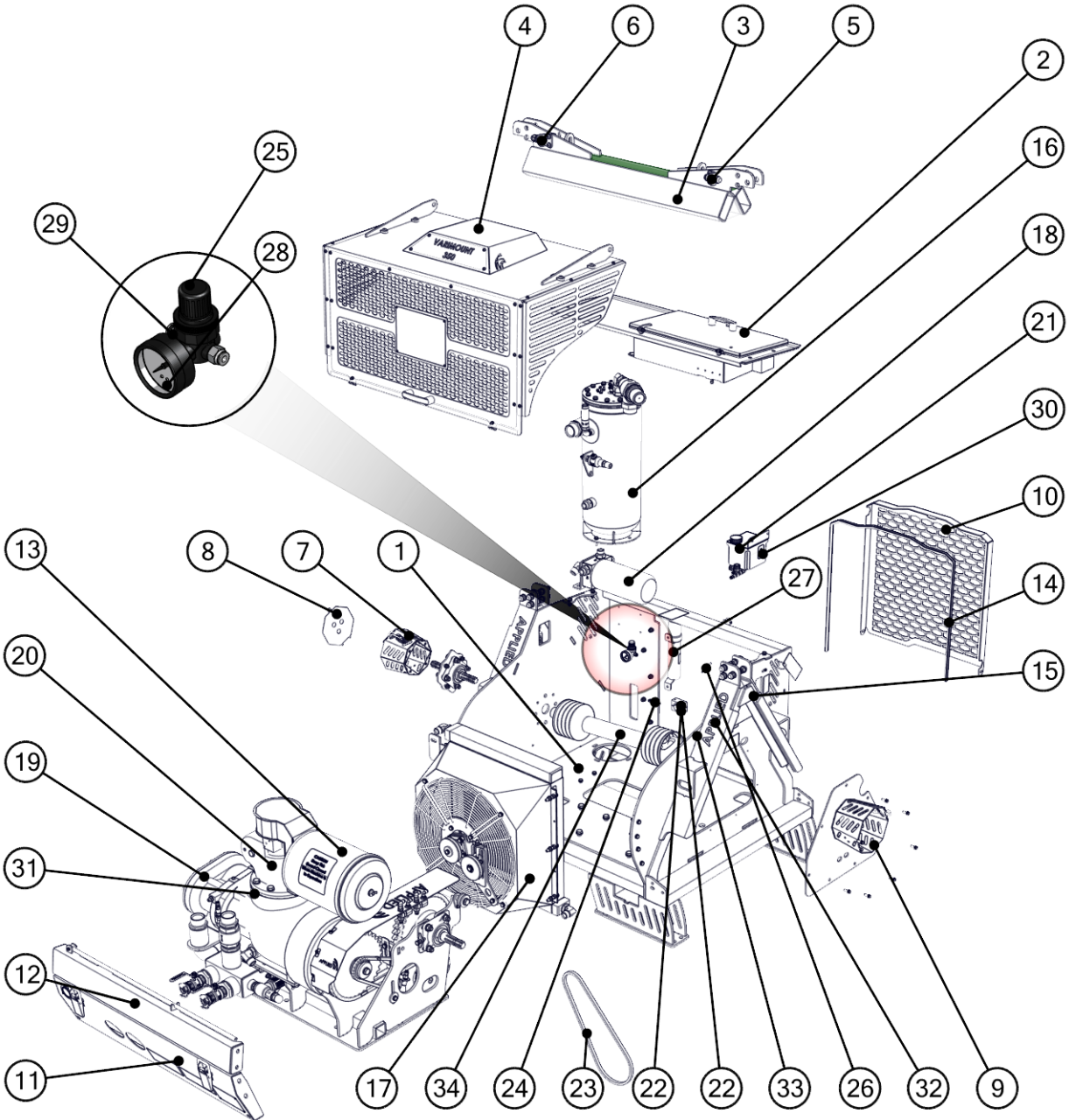
1. Remove the linch pin from the cooler guard.
2. Open the cooler guard by lowering.
3. Using compressed air nozzle manually dust the cooler to remove dust and dirt.
4. Close the cooler guard and secure by linch pin.



Tools needed:

6. Spare parts

6.1 General Assembly

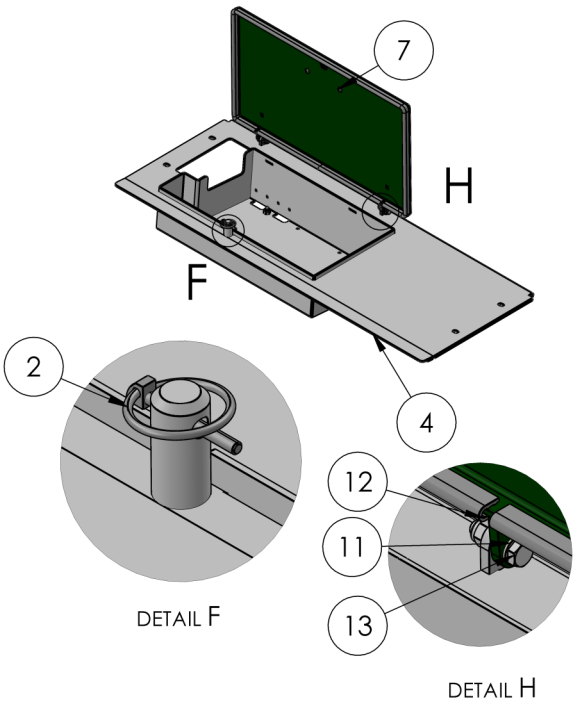


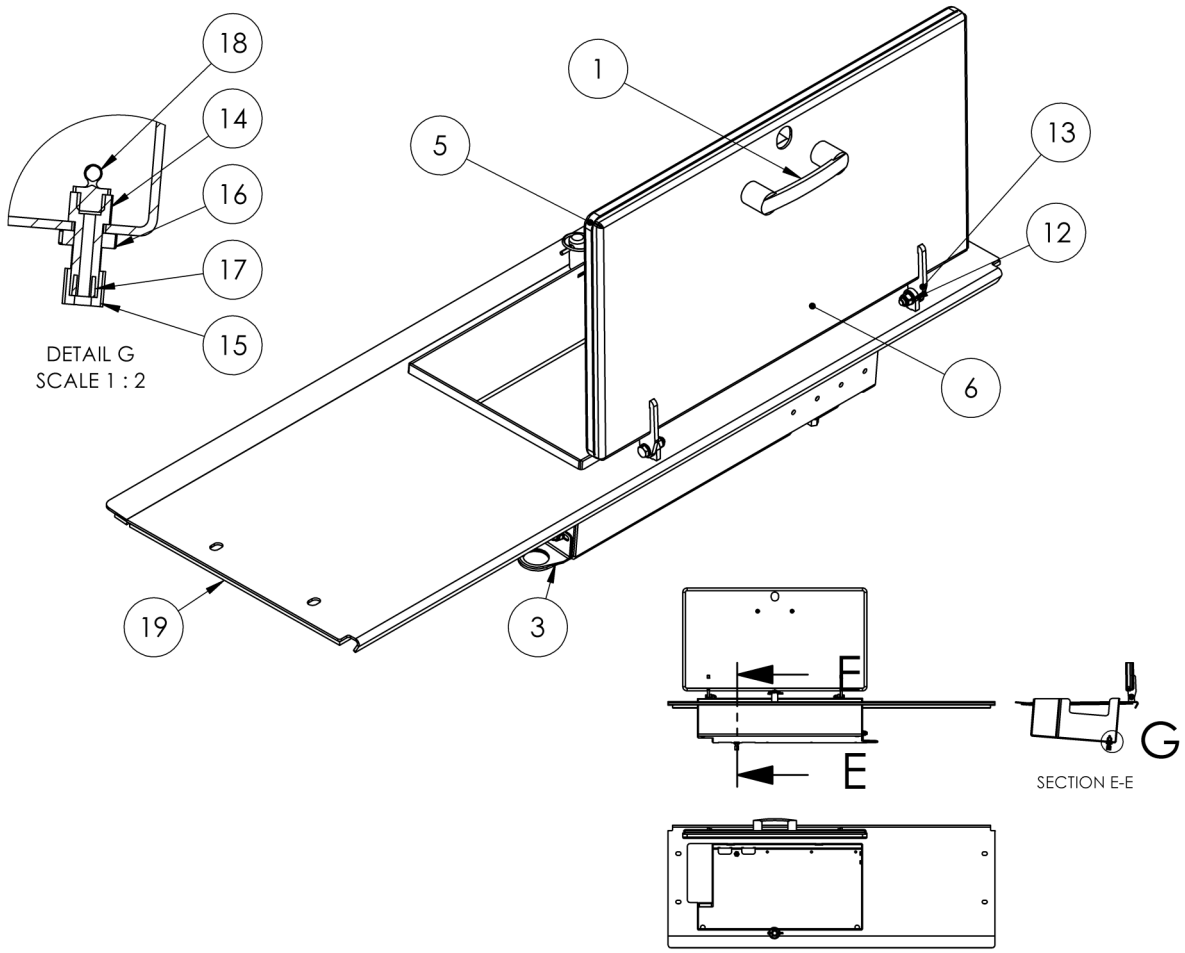
ITEM NO	PART NO	Description	Qty
1	VM-W-0021	VM Frame Weldment	1
2	VM-A-0008	Tool Box Assembly	1
3	VM-W-0010	VM Top Brace	1
4	VM-A-0014	VM Hood Assembly	1
5	VM-0105-M	Hinge Plate LH	1
6	VM-0105	Hinge Plate RH	1
7	VM-A-0016	Rear PTO Assembly	1
8	VM-0101	PTO Blanking Plate	1
9	VM-A-0009	Rear PTO Cover Plate	1
10	VM-W-0002	Cooler Door Weldment	1
11	VM-A-0007	Front Lower PAnel Assembly	1
12	VM-A-0015	Front Brace Assembly	1
13	VM-A-0018	Air Intake Assembly	1
14	SP-000473	Cooler Door Seal	1
15	VM-A-0022	VM Sticker Kit	1
16	VM-A-0003	VM Expansion Tank	1
17	VM-A-0002	VM Cooler Assembly	1
18	VM-A-0010	Oil Filter Assembly	1

ITEM NO	PART NO	Description	Qty
19	VM-A-0001	VM Air End Assembly	1
20	VM-A-0004	Air Intake and Throttle Body Assembly	1
21	VM-A-0020	Oil Reservoir Assembly	1
22	SP-000107	Clamp	2
23	SP-000441	Power Belt	1
24	SP-100175	VM - Hose Kit	1
25	SP-000331	Pressure Regulator	1
26	SP-300003	Black Hose	1
27	SP000320	Document Holder	1
28	SP-000115	Mini Pressure Guage	1
29	SP-100038	Straight Push in fitting MSV	2
30	VM-0190	Chain Oil	1
31	VM-0068	Trottle Body Gasket	1
32	SP-100105	Y Push In Fitting MSV	1
33	SP-300004	Natural Hose	1
34	SP-000606	VM Internal PTO Shaft	1

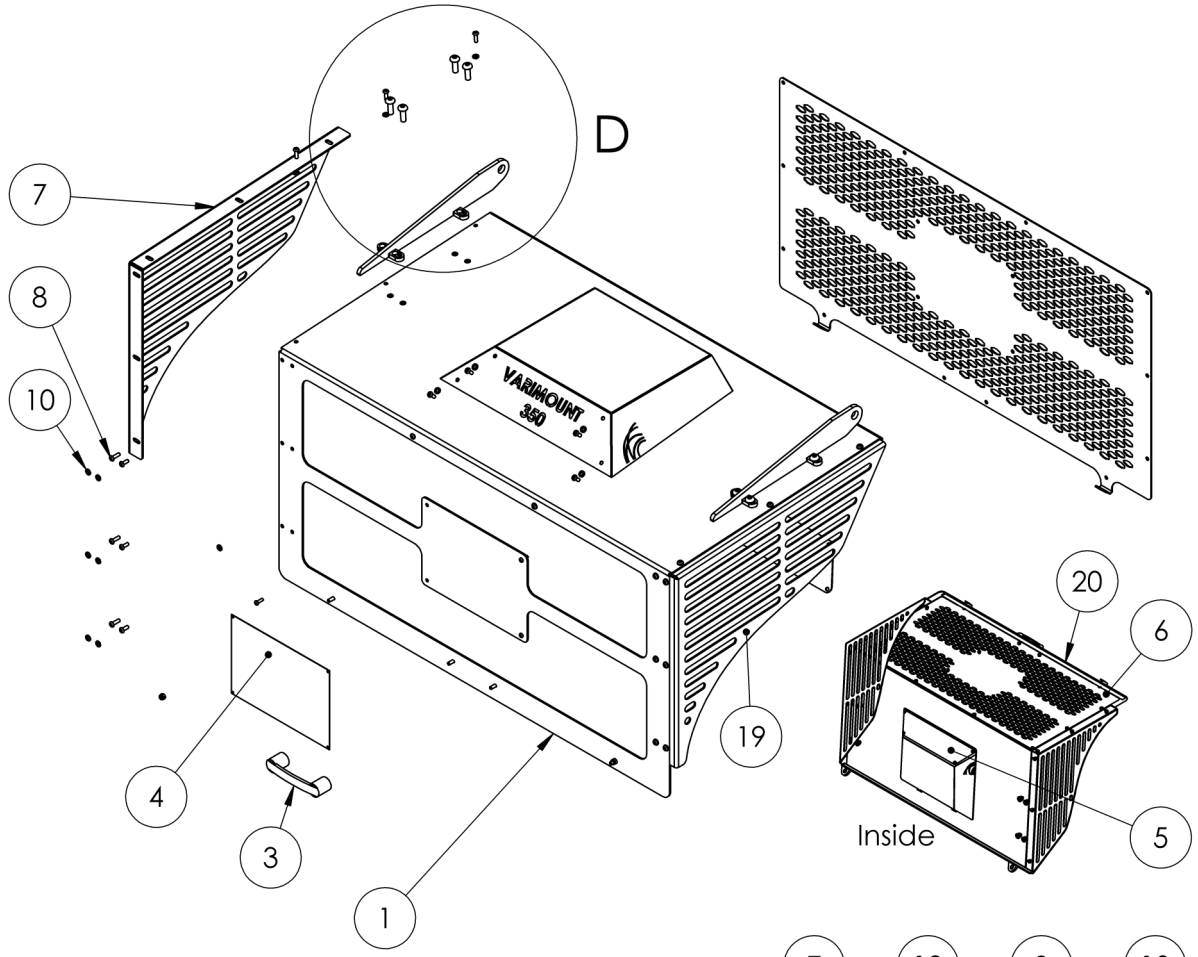
6.2 Parts List
VM-A-0008 (Tool Box Assembly)

ITEM NO	PART NO	Description	Qty.
1	SP-000004	Plastic Bridge Handle	1
2	SP-000003	Linch Pin	1
3	VM-0120	Regulator Bkt	1
4	VM-W-0015	Toolbox Base Weldment	1
5	VM-0123	Edge Trim	1
6	VM-W-0022	Tool Box Lid Weldment	1
7	M6_FLTWSH	M6_FLTWSH_12x1.6_ZK_8.8_ISO 7089	6
8	M5x1x16_ALHD BLT	M5x1x16_ALHDBLT_16N_ZK_8.8_ ISO4017	2
9	M6x1x20_HXHD BLT	M6x1x20_HXHDBLT_20N_ZK_8.8 _ISO4017	2
10	M6x1_LCKNUT	M6x1_LCKNUT_SC_ZK_ISO4034	2
11	M8_FLTWSH	M8_FLTWSH_16x1.6_ZC_8.8_ISO 7089	6
12	M8x1.25_LCKN UT	M8x1.25_LCKNUT_ZK_8.8_ISO10 511	2
13	M8x1.25x30_HX HDBLT	M8x1.25x30_HXHDBLT_30N_ZK_ 8.8_ISO4017	2
14	SP-100176	Greastube bulkhead	1
15	SP-100177	Bulkhead Nut	1
16	SP-100178	Flat Nut	1
17	SP-100179	Olive	1
18	SP-100013	Grease Nipple	1
19	SP-000260	Strip Sponge	1

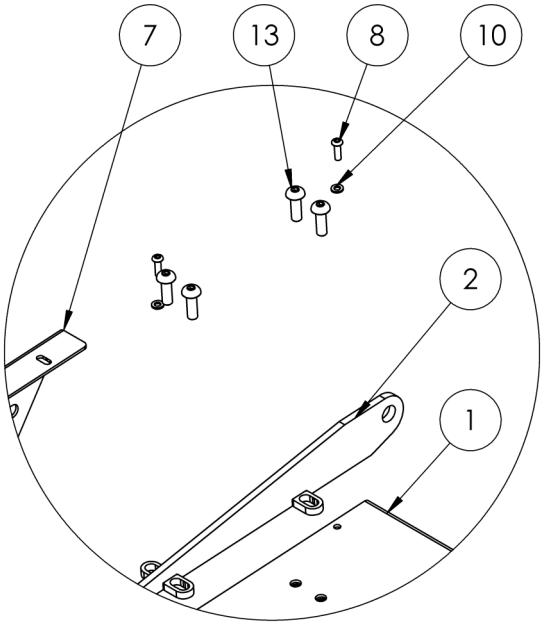




VM-A-0014 (VM Hood Assembly)



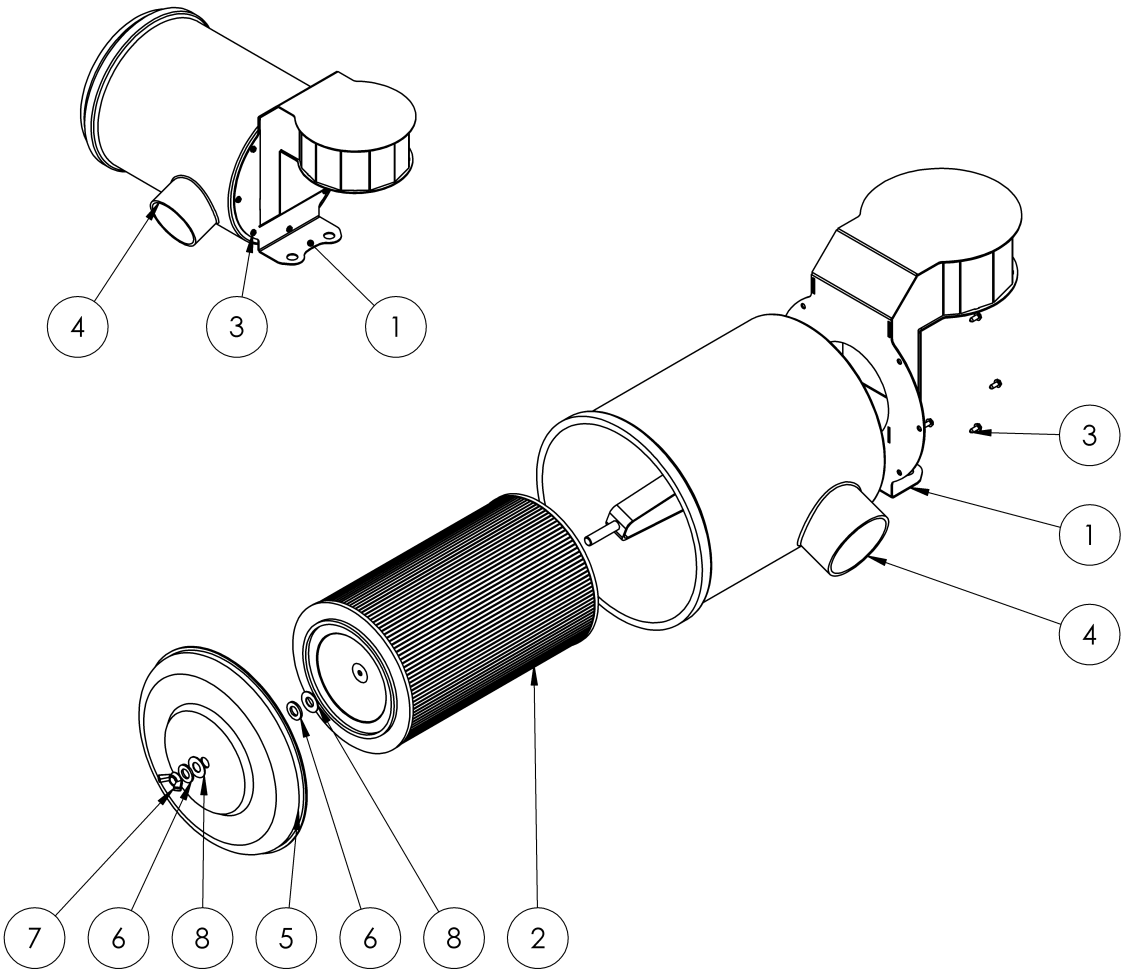
ITEM NO	PART NO	Description	Qty.
1	VM-W-0018	Bonnet Weldment	1
2	VM-W-0019	Bonnet Hinge Weldment	2
3	SP-000004	Plastic Bridge Handle	1
4	SP-000025	Large Logo Plate	1
5	VM-0111	Text Backing Plate	1
6	VM-0114	Front Grill	1
7	VM-0122	Hood End LHS	1
8	M6x1x20_ALHDBLT	M6x1x20_ALHDBLT_16N_ZK_8.8_ISO4017	14
9	M6x1_LCKNUT	M6x1_LCKNUT_SC_ZK_ISO4034	26
10	M6_FLTWSH	M6_FLTWSH_12x1.6_ZK_8.8_ISO7089	52
11	M6x1x16_ALHDBLT	M6x1x16_HXHDBLT_16N_ZK_8.8_ISO4017	12
12	M6x1x20_HXHDBLT	M6x1x20_HXHDBLT_20N_ZK_8.8_ISO4017	2
13	M10x1x30_ALHDBLT	M10x1.5x30_HXHDBLT_16N_ZK_8.8_ISO4017	8
14	M10_FLTWSH	M10_FLTWSH_20x2_SC_8.8_ISO7089	8
15	M10x1.5_LCKNUT	M10x1.5_LCKNUT_ZC_8.8_ISO4034	8
16	M5_FLTWSH	M5_FLTWSH	4
17	M5x0.8_LCKNUT	M5x0.8_LCKNUT_SC_ZK_ISO4034	4
18	M5x1x16_ALHDBLT	M5x1x16_ALHDBLT_16N_ZK_8.8_ISO4017	4
19	VM-0122-M	Hood End RHS	1
20	SP-000260	Strip Sponge	1



DETAIL D

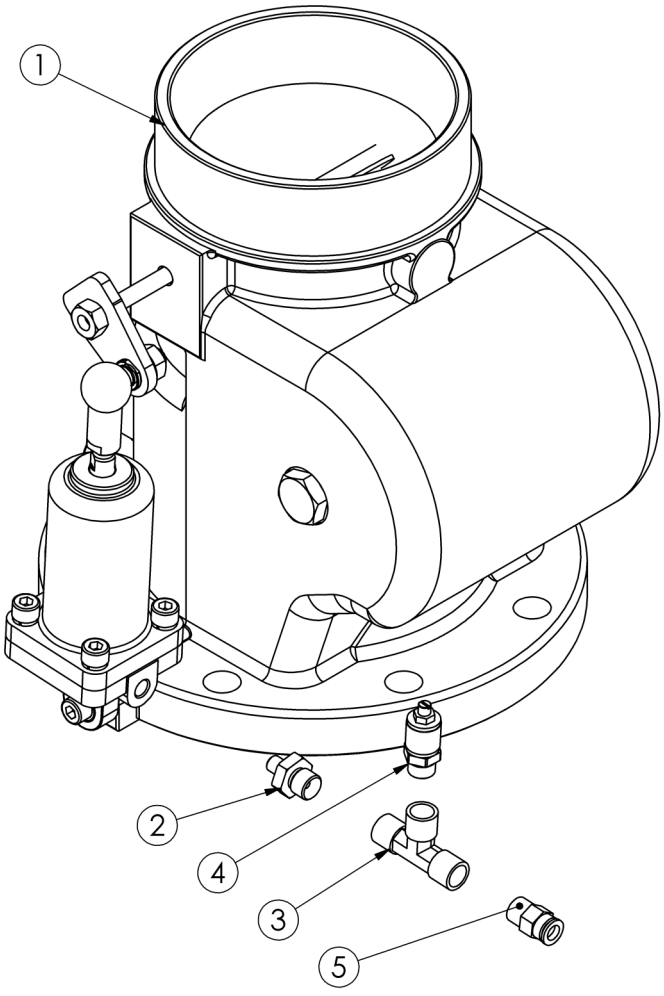
VM-A-0018 (Air Intake Assembly)

Item No.	File Name	Description	Qty.
1	VM-W-0020	Air Filter Mount	1
2	SP-000101	Air Filter	1
3	5x1x16_TEX	Tex Screw	7
4	SP-000101b	Air Filter Assembly	1
5	SP-000101a	Air Filter Cap	1
6	M12_FLTWSH	M12_FLTWSH_24x2.5_ZK_8.8_ISO7089	2
7	M12 Wing Nut	M12 Wing Nut	2
8	M12_Rubber FLTWSH	M12_FLTWSH_24x2.5_ZK_8.8_ISO7089	2

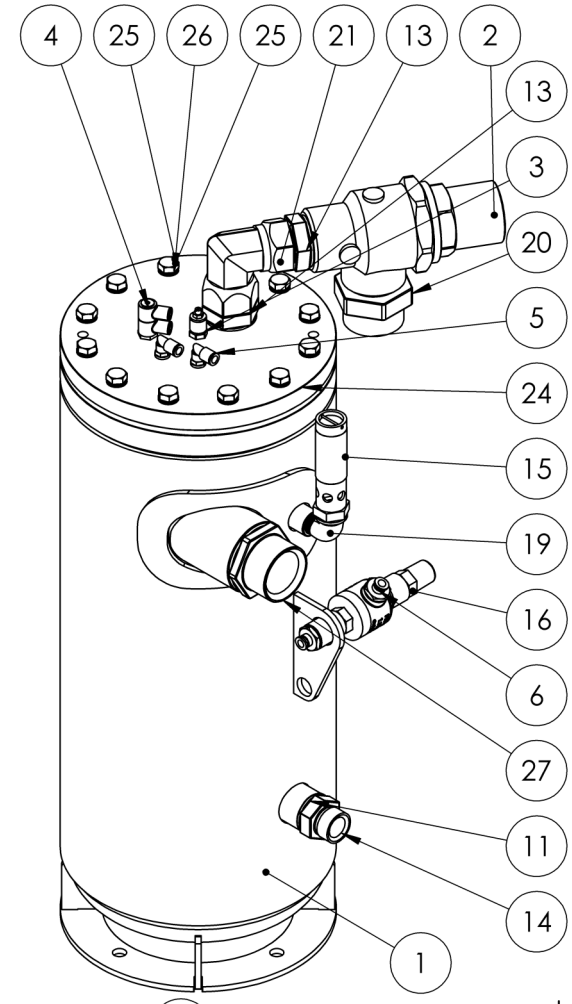


VM-A-0004 (Air Intake and Throttle Body Assembly)

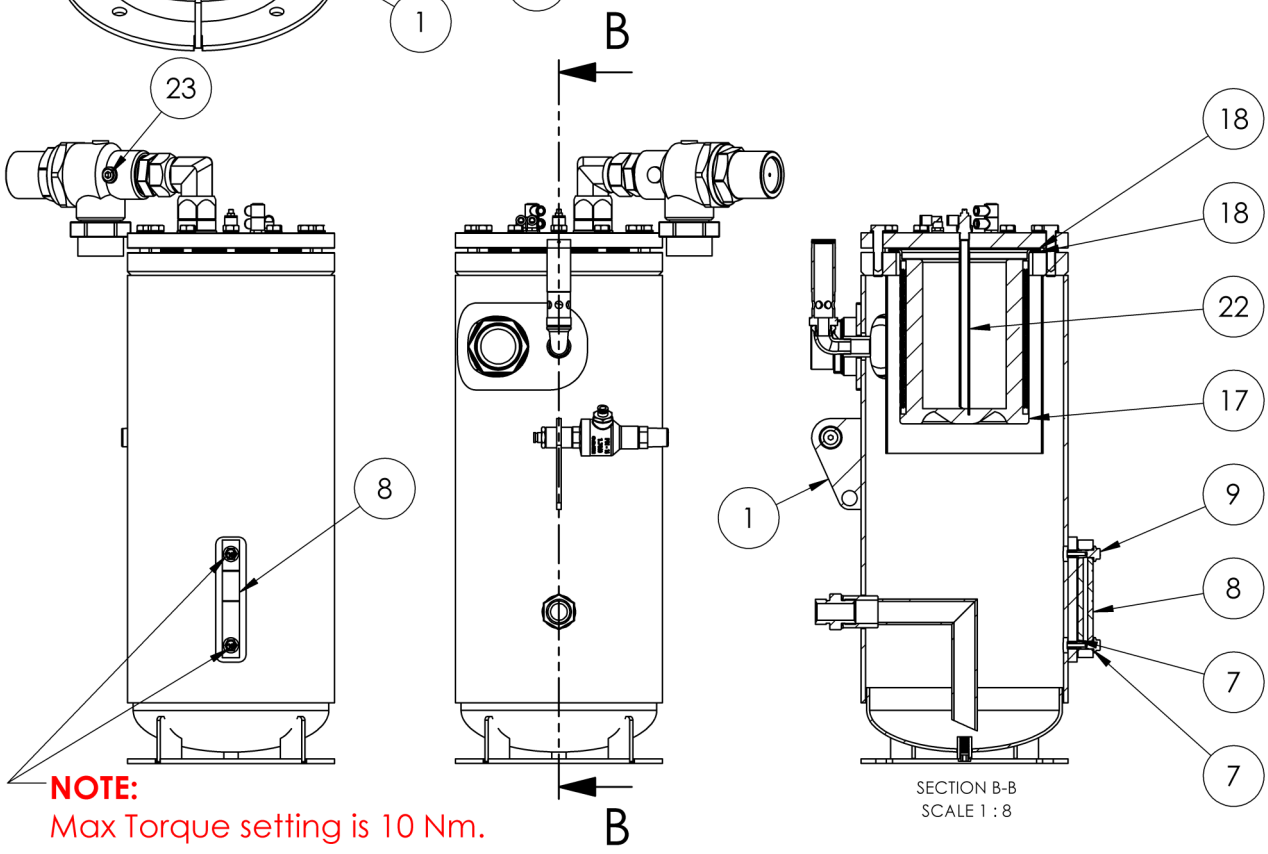
ITEM NO	PART NO	Description	Qty.
1	SP-000366	Varimount Throttle Body Assembly	1
2	SP-100041	Hyd Reducing Adapter	1
3	SP-100119	Control Valve Tee	1
4	SP-100046	Flow Control Silencer	1
5	SP-100108	Straight Push In Fitting (blue top)	1



VM-A-0003 (VM Expansion Tank)



ITEM NO	PART NO	Description	Qty.
1	VM-W-0006	Expansion Tank Weldment	1
2	SP-000033	Minimum Pressure Valve	1
3	SP-100046	Flow Control Silencer	1
4	SP-100045	Plug 2-Way Multi-Distributor MSV	1
5	SP-100036	90° Elbow Push In Fitting (with seal) MSV	2
6	SP-100030	Straight Push-In Fitting IQS	2
7	SP-000042	Sight Glass Seal	4
8	SP-000043	Oil Sight Glass	1
9	SP-000044	Sight Glass Banjo Bolt	2
10	SP-100005	Dowty Washer	1
11	SP-100002	Dowty Washer	1
12	SP-100004	Dowty Washer	3
13	SP-100048	BSP MxM Adapter	2
14	SP-100034	BSP Male Adaptor	1
15	SP-100023	Pressure Relief Safety Valve	1
16	SP-100024	Proportional Relief Valve	1
17	SP-000040	Varimount Oil Filter	1
18	SP-000041	Varimount Oil Filter Seal	2
19	SP-100174	GALV ELBOW	1
20	SP-100029	BSP Male Adaptor	1
21	SP-100037	Female 90° Swivel Elbow	1
22	VM-0091	Scavanger tube	1
23	SP-100044	Blank	2
24	VM-0080	Expansion tank top plate	1
25	M12x1.75x60_HXHDBLT	M12x1.75x60_HXHDBLT_40N_ZK_8.8_ISO4017	12
26	M12_NRDWSH	M12_NRDWSH_24x2.5_ZK_8.8_ISO7089	12
27	SP-100032	Male Adaptor	1

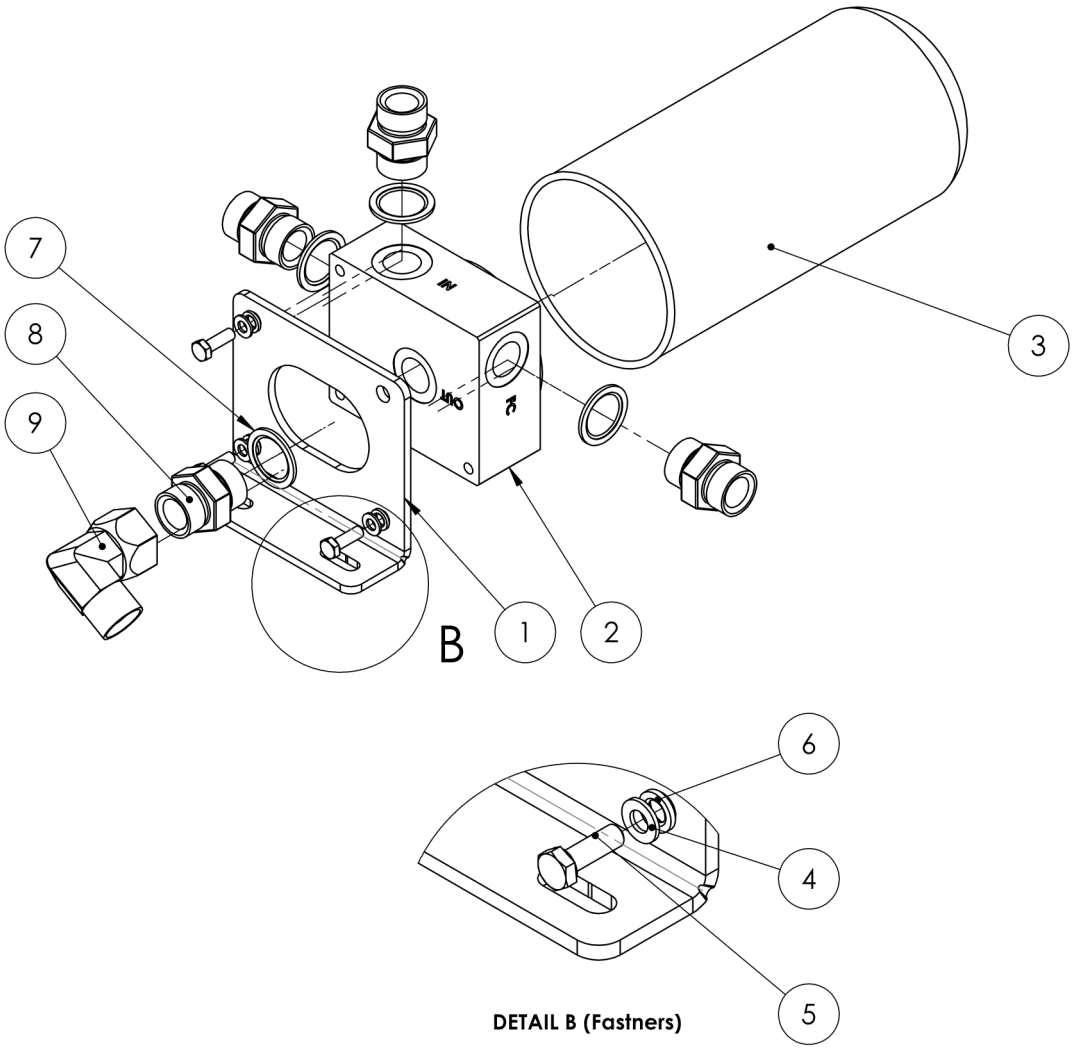


NOTE:
Max Torque setting is 10 Nm.

SECTION B-B
SCALE 1 : 8

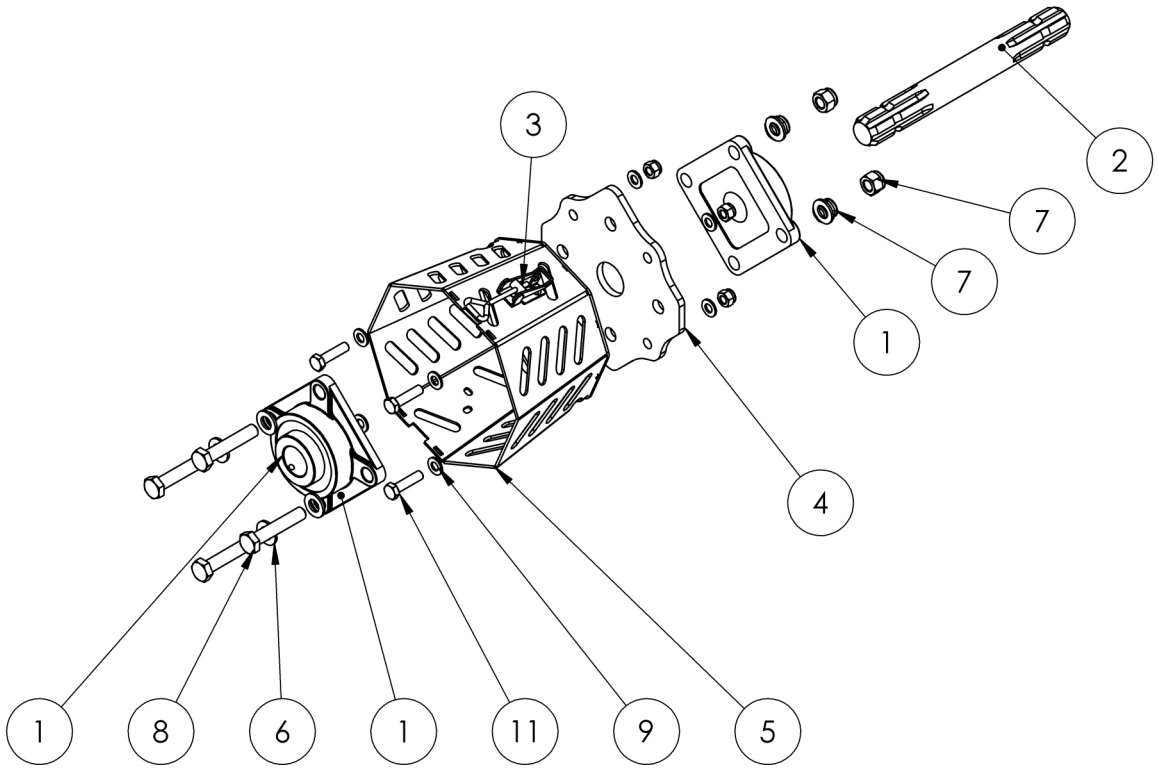
VM-A-0010 (Oil Filter Assembly)

ITEM NO	PART NO	Description	Qty.
1	VM-0096	Filter Mounting Bkt	1
2	SP-000034	Applied Vaimount Temperature Control Valve	1
3	SP-000048	Termostatic Filter	1
4	M8_FLTWSH	M8_FLTWSH_16x1.6_ZC_8.8_ISO7089	3
5	M8x1.25x25_HXHDBLT	M8x1.25x25_HXHDBLT_25N_ZK_8.8_ISO4017	3
6	M8_SPRWSH	M8_SPRWSH_21x2_ZK_8.8_DIN127(B)	3
7	SP-100002	Dowty Washer	4
8	SP-100034	Male Adaptor	4
9	SP-100035	Swivel Adapter	1



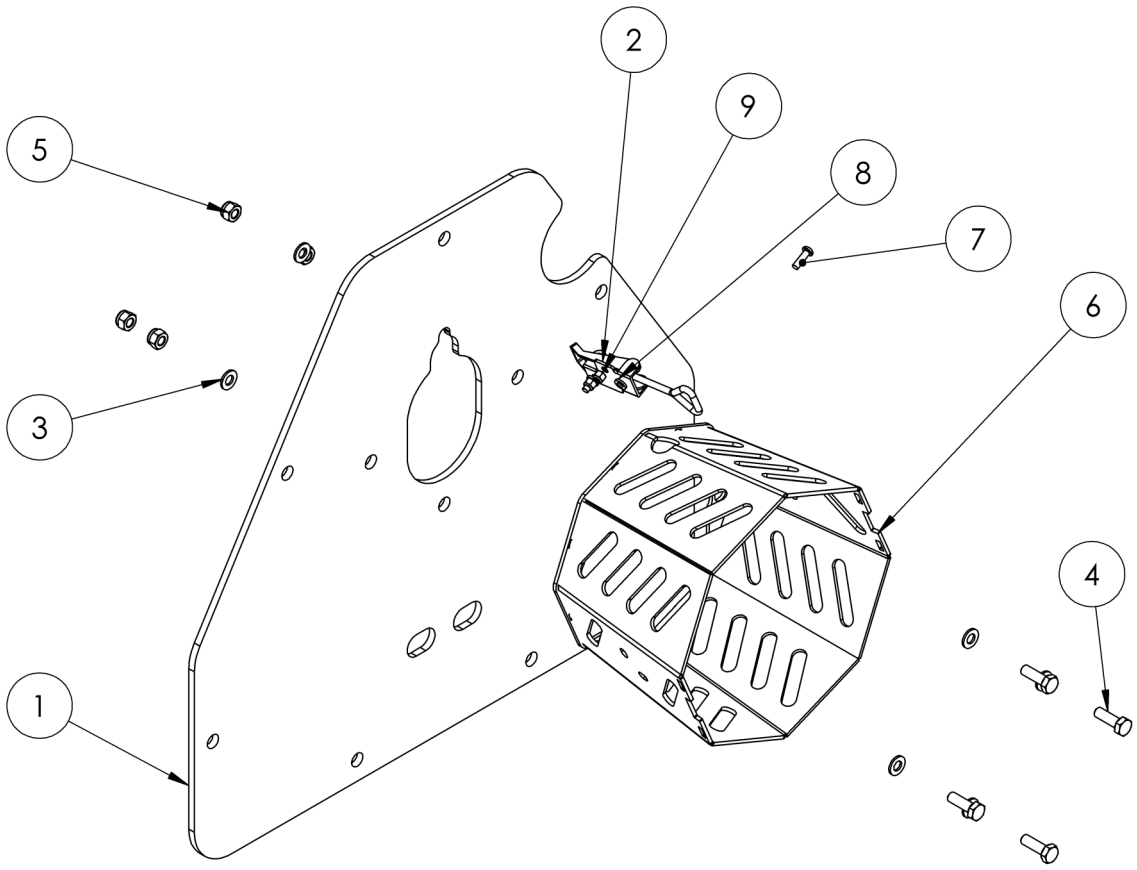
VM-A-0016 (Rear PTO Assembly)

ITEM NO	PART NO	Description	Qty.
1	SP-000050	4 Hole Bearing	2
2	VM-0177	Front End PTO Shaft	1
3	SP-000105	Applied Varimount Over Centre Latch	1
4	VM-0103	Bearing Spacer Plate	1
5	VM-W-0017	PTO Guard Weldment	1
6	M14_FLTWSH	M14_FLTWSH_28x2.5_ZK_8.8_ISO7089	8
7	M14x2_LCKNUT	M14x2_LCKNUT_ZK_8.8_ISO4034	4
8	M14x1.5x75_HXHDBLT	M14x1.45x75_HXHDBLT_34N_ZK_8.8_ISO4014	4
9	M10_FLTWSH	M10_FLTWSH_20x2_SC_8.8_ISO7089	8
10	M10x1.5_LCKNUT	M10x1.5_LCKNUT_ZC_8.8_ISO4034	4
11	M10x1.5x40_HXHDBLT	M10x1.5x40_HXHDBLT_40N_ZK_8.8_ISO4017	4



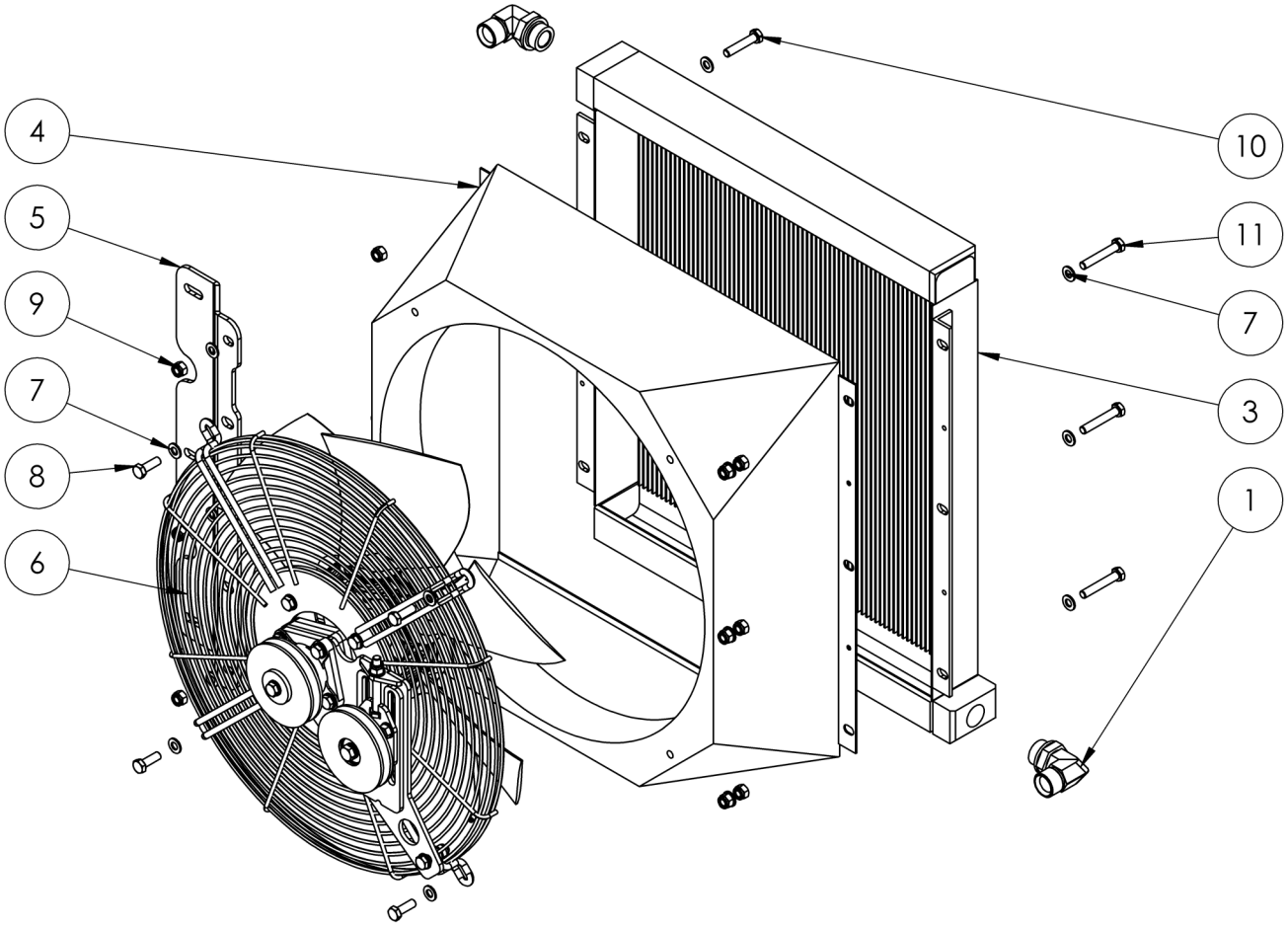
VM-A-0009(Rear PTO Cover Plate)

ITEM NO	PART NO	Description	Qty.
1	VM-0029	Rear PTO Cover plate	1
2	SP-000105	Applied Varimount Over Centre Latch	1
3	M8_FLTWSH	M8_FLTWSH_16x1.6_ZC_8.8_ISO7089	8
4	M8x1.25x25_HXHDBLT	M8x1.25x25_HXHDBLT_25N_ZK_8.8_ISO4017	4
5	M8x1.25_LCKNUT	M8x1.25_LCKNUT_ZK_8.8_ISO10511	4
6	VM-W-0017	PTO Guard Weldment	1
7	M5x1x16_ALHDBLT	M5x1x16_ALHDBLT_16N_ZK_8.8_ISO4017	2
8	M5_FLTWSH	M5_FLTWSH	2
9	M5x0.8_LCKNUT	M5x0.8_LCKNUT_SC_ZK_ISO4034	2



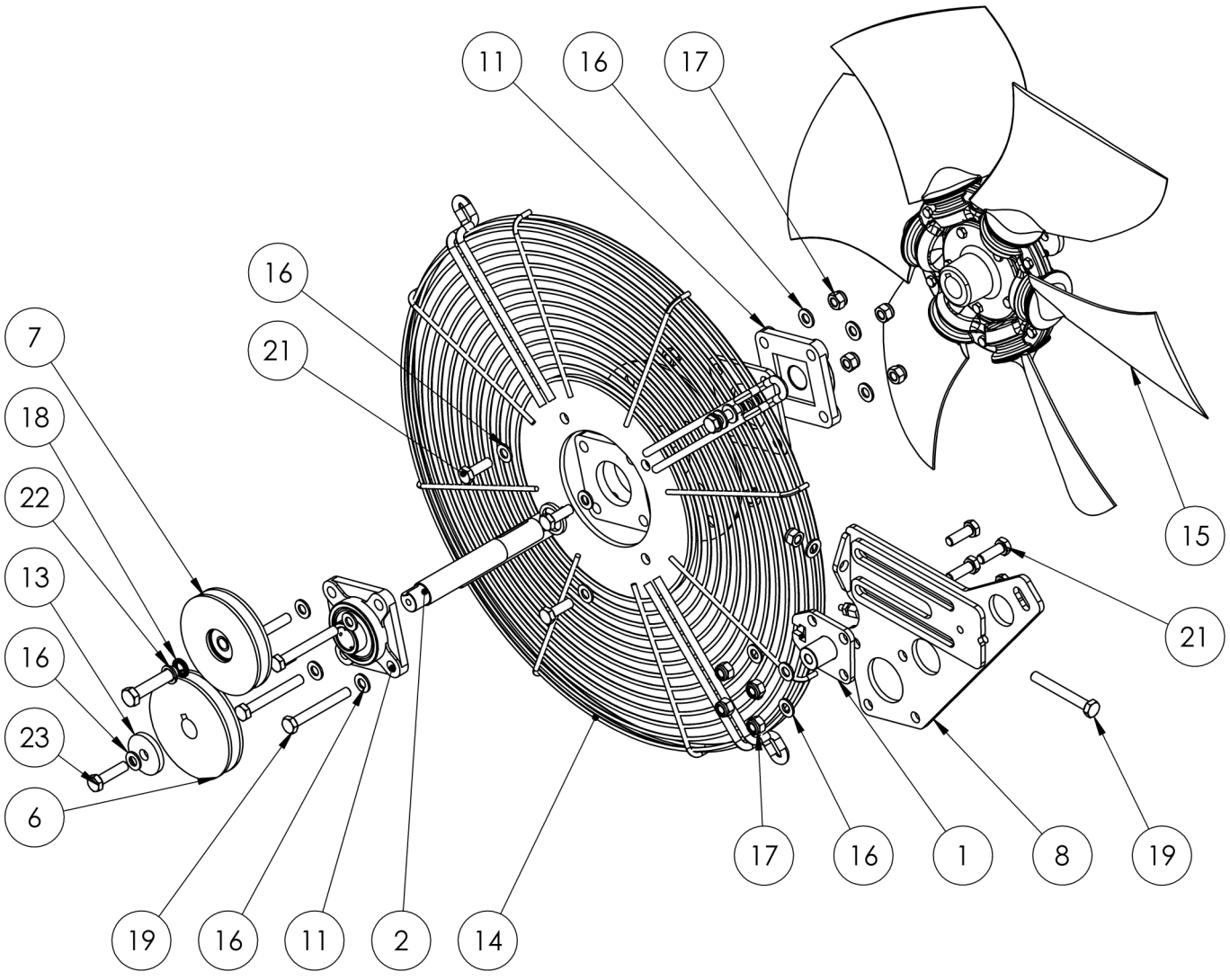
VM-A-0002 (VM Cooler Assembly)

ITEM NO	PART NO	Description	Qty.
1	SP-100039	90° Elbow C/W Locknut	2
2	SP-000415	High Pressure Grease Tube	1
3	SP-000009	Cooler	1
4	SP-000010	Cooler Housing	1
5	VM-0016	Cooler Mounting Bkt	1
6	VM-A-0006	Cooler Fan Assembly	1
7	M10_FLTWSH	M10_FLTWSH_20x2_SC_8.8_ISO7089	16
8	M10x1.5x30_HXHDBLT	M10x1.5x30_HXHDBLT_30N_ZK_8.8_ISO4017	4
9	M10x1.5_LCKNUT	M10x1.5_LCKNUT_ZC_8.8_ISO4034	12
10	M10x1.5x50_HXHDBLT	M10x1.5x50_HXHDBLT_35N_ZK_8.8_ISO4017	3
11	M10x1.5x60_HXHDBLT	M10x1.5x30_HXHDBLT_30N_ZK_8.8_ISO4017	3



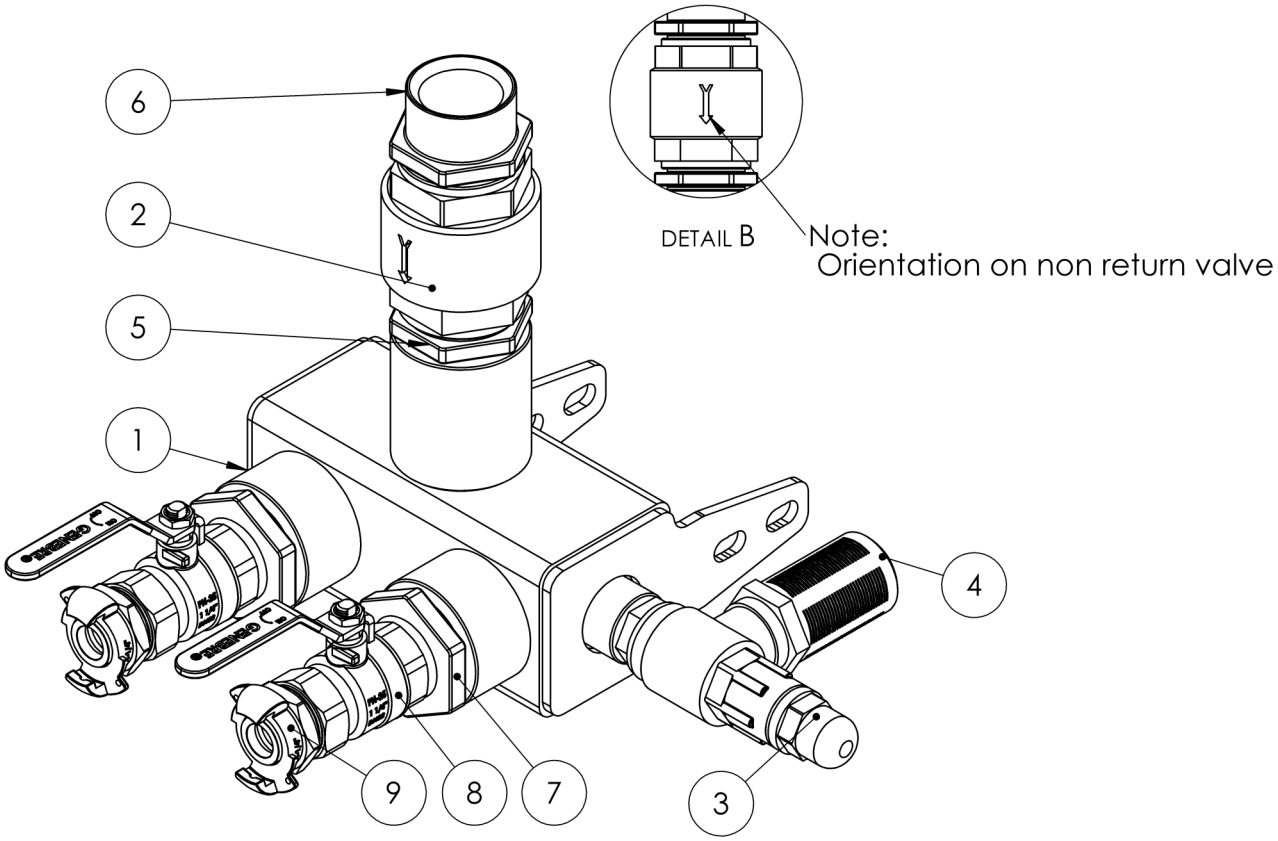
VM-A-0006 (Cooler Fan Assembly)

ITEM NO	PART NO	Description	Qty.
1	VM-W-0007	Belt Tensioner weldment	1
2	VM-0045	Cooler Fan Shaft	1
3	VM-0074	Bearing Base plate	1
4	VM-0066	Cooler Spacer Plate	1
5	VM-0019	Cooler Spacer Plate	2
6	SP-000021	Cooler Drive Pulley	1
7	SP-000006	Cooler Drive Pulley	1
8	VM-W-0008	Cooler Pulley Tensioner weldment	1
9	SP-000011	Keyway	1
10	SP-000012	Pulley Keyway	1
11	SP-000026	4 hole Flange Bearing	2
12	SP-100183	Push in Greaser	1
13	VM-0008	6mm Washer	2
14	SP-000007	Fan Guard	1
15	SP-000008	Fan Assembly	1
16	M10_FLTWSH	M10_FLTWSH_20x2_SC_8.8_ISO7089	26
17	M10x1.5_LCKNUT	M10x1.5_LCKNUT_ZC_8.8_ISO4034	14
18	M12_NRDWSH	M12_NRDWSH_24x2.5_ZK_8.8_ISO7089	1
19	M10x1.5x80_HXHDBLT	M10x1.5x80_HXHDBLT_30N_ZK_8.8_ISO4017	5
20	M12x1.75x60_HXHDBLT	M12x1.75x60_HXHDBLT_40N_ZK_8.8_ISO4017	1
21	M10x1.5x30_HXHDBLT	M10x1.5x30_HXHDBLT_30N_ZK_8.8_ISO4017	8
22	M12_SPRWSH	M8_SPRWSH_21x2_ZK_8.8_DIN127(B)	1
23	M10x1.5x40_HXHDBLT	M10x1.5x40_HXHDBLT_40N_ZK_8.8_ISO4017	3
24	VM-0189	Spacer Ring	1



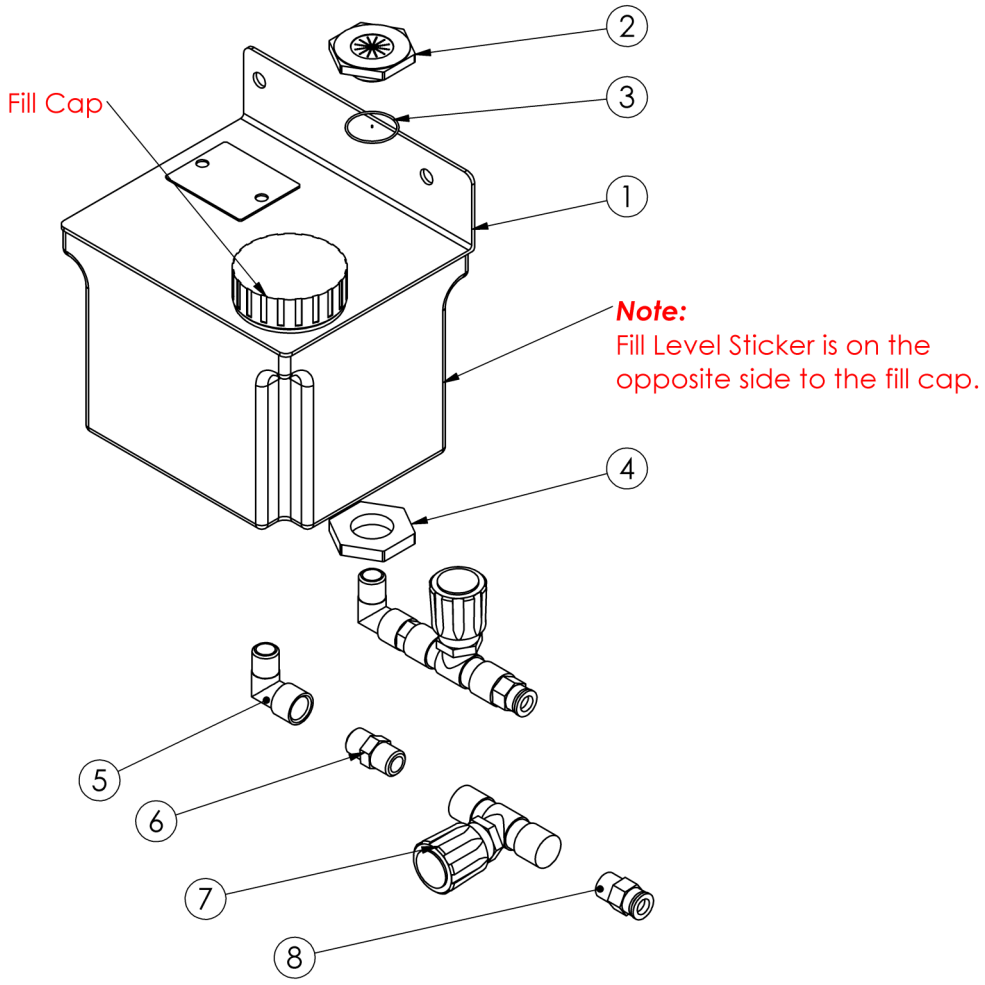
VM-A-0012 (Air Out Box Assembly)

ITEM NO	PART NO	Description	Qty.
1	VM-W-0014	VM Air Out Box	1
2	SP-100019	Non Return Valve	1
3	SP-000028	Applied Proportional Relief Valve	1
4	SP-000027	Blue Plastic Silencer	1
5	SP-100088	Nipple	1
6	SP-100000	MxM Adaptor (Zink Finish)	1
7	SP-100089	Nipple	2
8	SP-100144	Ball Valve	2
9	SP-310013	Claw Coupling	2

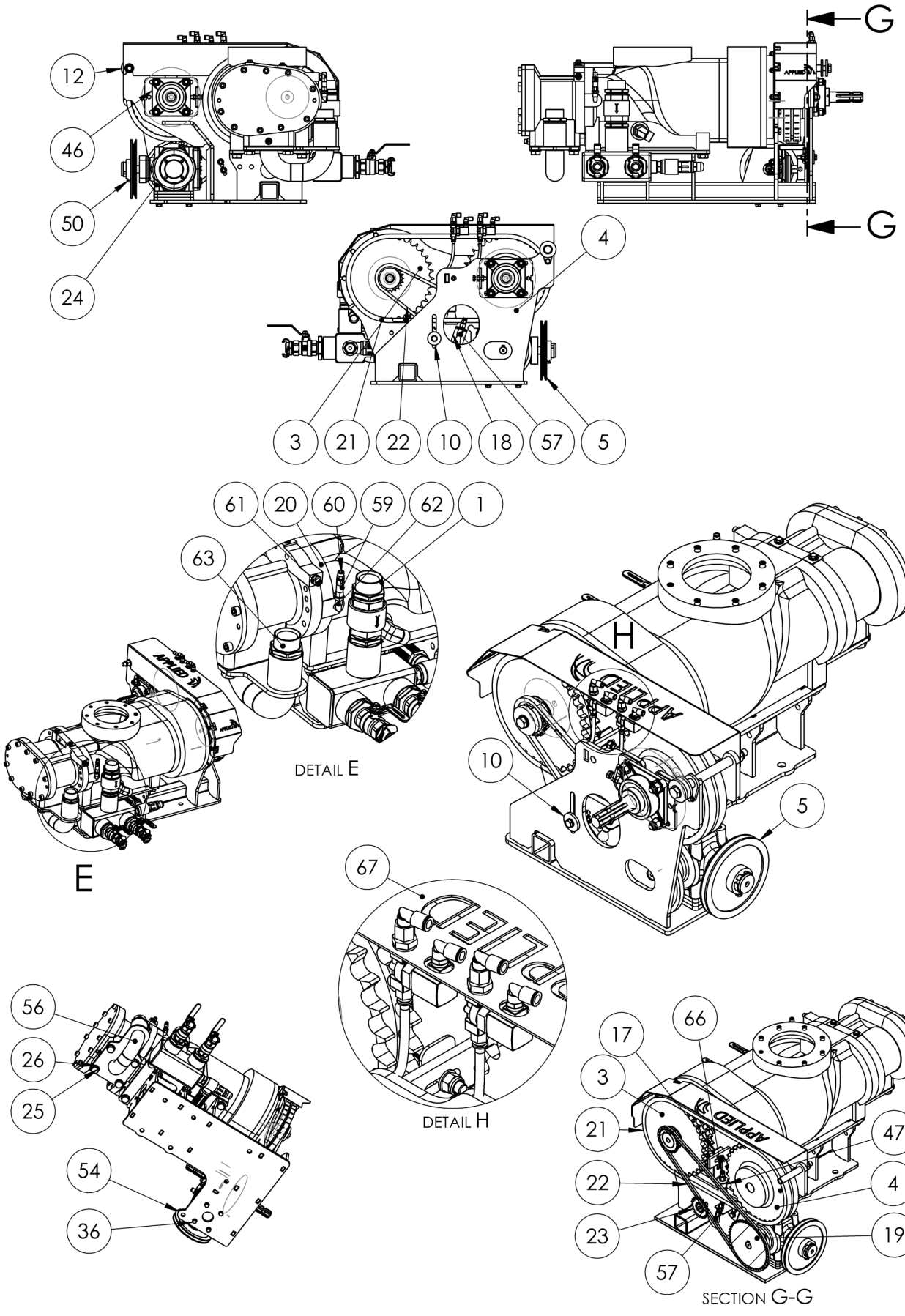


VM-A-0020 (Oil Reservoir Assembly)

ITEM NO	PART NO	Description	Qty.
1	SP-000103	Oil Resevor	1
2	SP-000116	Oil Resivor Filter Drain Fitting	1
3	SP-000445	Resevouir 0 Ring	1
4	SP-000117	Resevoir Nut	1
5	SP-100020	90° Elbow	2
6	SP-100068	Nipple Tapered	2
7	SP-100162	Needle Valve	2
8	SP-100108	Straight Push In Fitting (blue top)	2



VM-A-0001 (Air End Assembly)



VM-A-0001 (Air End Assembly) (Continued)

ITEM NO	PART NO	Description	Qty.
1	VM-A-0012	Air Out Box Assembly	1
2	VM-0067	AIREND OUT PORT GASKET	1
3	SP-000013	Duplex Sprocket	1
4	SP-000014	Sprocket	1
5	SP-000017	SPA Pulley	1
6	SP-000015	Plate Sprocket	1
7	VM-0028	Rear End PTO Shaft	1
8	VM-0011	PTO Sprocket Spacer Bush	2
9	VM-0007	10mm Keyway plate	1
10	VM-0008	6mm Washer	2
11	VM-0009	Gearbox riser plate	3
12	VM-0036	6mm Stop End Plate	2
13	VM-0038	10mm Horse Shoe Spacer	3
14	VM-0072	6mm Keyway plate	1
15	VM-0156	2mm Keyway plate	1
16	VM-0157	10mm Stop End Plate 70mm O.D	1
17	VM-0069	Brush holder bkt 1	1
18	VM-0108	Brush holder bkt 2	1
19	SP-000016	45 toot Sprocket	1
20	SP-000426	Applied Varimount Magnum Air End	1
21	SP-000030	Chain Duplex	1
22	SP-000029	Simplex Chain	1
23	SP-000047	Idler Sprocket for Roller Chain	1
24	SP-000018	Gearbox	1
25	M20x2.5x40_HXHDBLT	M20x2.5x40_HXHDBLT_80N_ZK_8.8_ISO4017	8
26	M20_FLTWSH	M20_FLTWSH_37x3_SC_8.8_ISO7089	8
27	M12x1.75x60_HXHDBLT	M12x1.75x60_HXHDBLT_40N_ZK_8.8_ISO4017	8
28	M12_NRDWSH	M12_NRDWSH_24x2.5_ZK_8.8_ISO7089	8
29	M14x1.5x45_HXHDBLT	M14x1.45x50_HXHDBLT_34N_ZK_8.8_ISO4014	8
30	M14_FLTWSH	M14_FLTWSH_28x2.5_ZK_8.8_ISO7089	8
31	M14x2_LCKNUT	M14x2_LCKNUT_ZK_8.8_ISO4034	8
32	M10_SPRWSH	M10_SPRWSH_20x2	5
33	M16x2x50_HXHDBLT	M16x2x50_HXHDBLT_50N_ZK_8.8_ISO4017	1
34	M10_FLTWSH	M10_FLTWSH_20x2_SC_8.8_ISO7089	20
35	M10x1.5_LCKNUT	M10x1.5_LCKNUT_ZC_8.8_ISO4034	8
36	M10x1.5x60_HXHDBLT	M10x1.5x30_HXHDBLT_30N_ZK_8.8_ISO4017	5

ITEM NO	PART NO	Description	Qty.
37	M16x2_LCKNUT	M16x2_LCKNUT_ZK_8.8_ISO4034	1
38	M16_FLTWSH	M16_FLTWSH_30x3_ZK_8.8_ISO7089	3
39	M8_FLTWSH	M8_FLTWSH_16x1.6_ZC_8.8_ISO7089	8
40	M8x1.25_LCKNUT	M8x1.25_LCKNUT_ZK_8.8_ISO10511	4
41	M8x1.25x30_HXHDBLT	M8x1.25x30_HXHDBLT_30N_ZK_8.8_ISO4017	5
42	M10x1.5_HXNUT	M10x1.5_HXNUT_ZK_8.8_ISO4034	4
43	M10x1.5x40_HXHDBLT	M10x1.5x40_HXHDBLT_40N_ZK_8.8_ISO4017	2
44	M16x2x220_HXHDBLT	M16x2x100_HXHDBLT_100N_ZK_8.8_ISO4017	1
45	M10x1.5x35_HXHDBLT	M10x1.5x35_HXHDBLT_35N_ZK_8.8_ISO4017	7
46	SP-000050	4 Hole Bearing	2
47	SP-000046	Large Oil Lubricating Brush	1
48	SP-000049	Gear Box Oil	1
49	SP-000012	Pulley Keyway	1
50	M8x1.25x25_HXHDBLT	M8x1.25x25_HXHDBLT_25N_ZK_8.8_ISO4017	1
51	SP-000011	Keyway	1
52	SP-000377	SC Co Link	1
53	SP-000378	SC Co Link	1
54	VM-W-0001	Air End Frame Weldment	1
55	VM-W-0009	Air End Plate Stiffner Pin	1
56	VM-W-0013	Air End extension	1
57	SP-000128	Small Oil Lubricating Brush	1
58	SP-100039	90° Elbow C/W Locknut	1
59	SP-100022	Non Return Valve	1
60	SP-100025	Straight Push In Fitting MSV (with Seal)	1
61	SP-100047	Adaptor	3
62	SP-100020	90° Elbow	1
63	SP-100032	Male Adaptor	1
64	VM-0178	1mm PTO Shim	1
65	SP-100191	Male Adapter	2
66	SP-100173	Straight Push In Fitting (blue top)	2
67	VM-A-0019	Chain Guard Assembly	1
68	SP-300004	Nylon Hose	2
69	M10_NRDWSH	M10_NRDWSH_24x2.5_ZK_8.8_ISO7089	2
70	SP-100028	Dowty Washer	3
71	VM-0191	10mm Spacer (25mm I.D. 50mm O.D.)	1
72	VM-0192	1mm Shim (25mm I.D. 50mm O.D.)	1

6.3 Applied Varimount Genuine Service Kits

SERVICE KIT SP500030

ITEM NO	PART NO	DESCRIPTION	QTY
1	SP000591	Applied Air Filter Element Core	1 OFF
2	SP000048	Applied Thermostatic Valve Oil	1 OFF
3	SP000040	Applied Air/Oil Fine Separator (Expansion Tank)	1 OFF
4	SP000584	Applied Varimount Magnum Airend Lubricant	1 OFF
5	SP000046	Applied Oiler Brush Large	1 OFF
6	SP000128	Applied Chain Oiler Brush Small	1 OFF

ABOUT US

From our beginnings in a modest workshop, to our state-of-the-art production facility in Birr, Co. Offaly, we've spent 13 years designing and manufacturing superior quality blasting machines and PTO driven air compressors.

Each new product is designed and engineered with the same devotion to excellence that's been our trademark for over a decade. Our best-in-class Varimount 350 comes with a promise of safety, durability and value for money, plus the technical support of the expert Applied Service Team.

APPLIED

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