### AIR OPERATED CHASSIS PUMP with Hand Truck



**OWNERS MANUAL** 

50:1 RATIO, OUTPUT – 80 CU. IN./MIN.

MIN. AIR PRESSURE – 30 PSI

MAX. AIR PRESSURE – 150 PSI

MAX. OUTPUT PRESSURE – 7500 PSI

RECOMMENDED OPERATING PRESSURE 80-100 PSI

GREASE TYPE: NLGI #2 (maximum for effective performance)

RETAIN THIS MANUAL FOR FUTURE REFERENCE TO IMPORTANT WARNINGS AND OPERATING AND MAINTENANCE INSTRUCTIONS.

PROPER USE AND MAINTENANCE OF THIS EQUIPMENT IS THE RESPONSIBILITY OF THE OWNER AND/OR OPERATOR.

### DO NOT USE THIS EQUIPMENT UNLESS YOU HAVE CAREFULLY READ AND UNDERSTAND THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL.

### ! WARNING!

**NEVER** exceed the stated maximum working pressure of the pump or of the lowest rated component in your system.

**NEVER** modify any part of this equipment.

**NEVER** use combustible gas with this equipment.

**NEVER** attempt repairs while the system is under pressure.

**NEVER** attempt to disassemble the equipment while the system is under pressure.

**ALWAYS** tighten fluid connections before using this equipment

ALWAYS read/follow the fluid manufacturer's recommendations regarding fluid compatibility.

**ALWAYS** read/follow the fluid manufacturer's recommendations regarding the use of protective clothing and equipment.

**ALWAYS** use an air line filter/moisture eliminator at the air inlet for the pump.

**ALWAYS** use air line lubrication.

**REGULARLY** check all equipment and repair/replace worn or damaged parts immediately.

FAILURE TO HEED THESE WARNINGS INCLUDING OVERPRESSURIZING, ALTERING PARTS, USE OF INCOMPATIBLE FLUIDS, MISUSE, OR USE OF DAMAGED/WORN PARTS MAY RESULT IN EQUIPMENT DAMAGE, PROPERTY DAMAGE, FIRE, EXPLOSION AND/OR SERIOUS PERSONAL INJURY.

### **SAFETY INSTRUCTIONS**

Extreme caution should be used when operating this equipment as it generates very high fluid pressure. Leaks from loose or ruptured components or material from dispensing valve can inject fluid through the skin causing serious bodily injury and possible need for amputation. Always wear protection to prevent material splashing onto skin or into eyes.

<u>IMPORTANT:</u> GET EMERGENCY MEDICAL CARE IMMEDIATELY IF ANY FLUID APPEARS TO PENETRATE THE SKIN! INFORM PHYSICIAN OF EXACTLY WHAT WAS INJECTED. PLEASE DO NOT TREAT THIS INJURY AS A SIMPLE CUT.

### ! WARNING ! - RELIEF PROCEDURE

**DO NOT EVER** point the dispensing valve at another person.

**DO NOT EVER** attempt to stop material from the dispensing valve or a leaking connection with your hand or body.

**BEFORE EACH USE**, check equipment for proper operation and to insure safety devices are in place and working properly.

**NEVER** modify this equipment. Modification could cause equipment malfunction and result in serious bodily injury.

When flushing the pump with solvents, ALWAYS hold a metal part of the dispensing valve firmly to the side of a grounded metal pail and operate pump at the lowest possible fluid pressure to reduce the risk of injury from splashing or static sparking.

**WARNING:** This pump can develop 7500 PSI working pressure at 125 PSI maximum incoming air pressure. Be sure that all system equipment and accessories are rated to withstand the maximum working pressure of this pump. **NEVER** exceed the maximum working pressure of the lowest rated component in the system. **IMPORTANT:** "Whip" hoses for dispensing valve are fluid pressure rated at 4500 PIS. **NEVER** exceed 90 PSI, air pressure to pump when using "whip" hoses.

**WARNING:** Water and even moist air can cause this pump to corrode. To aid in the prevention of this corrosion, **NEVER** leave the pump filled with water or air. After normal flushing, flush the pump once more with mineral spirits or an oil based solvent, relieve pressure and leave the mineral spirits in the pump. It is strongly suggested to put 2-4 fl oz of Oil in the Air Motor every Week for Proper Lubrication. **BE SURE TO CORRECTLY FOLLOW THE PRESSURE RELIEF PROCEDURE.** 

### PRESSURE RELIEF PROCEDURE

**ALWAYS FOLLOW THIS PROCEDURE** to reduce the risk of serious bodily injury, including splashing into the eyes. After shutting off the pump; checking/servicing any part of the system; installing/cleaning or changing any part of the system, **ALWAYS** follow this procedure:

- 1. Disconnect the air supply to the pump.
- 2. Aim the dispensing valve away from yourself and others.
- 3. Aim the dispensing valve into an appropriate container and open until all pressure is relieved.

If you believe that the dispensing valve or hose is completely clogged or that pressure in the pump has not been fully relieved after following the above procedure, VERY SLOWLY loosen the hose end coupling to relieve the pressure gradually and then loosen completely. Then proceed to clear the valve or hose.

**WARNING:** ALWAYS follow the Pressure Relief Procedure after shutting off the pump.

**WARNING:** ALWAYS follow the Pressure Relief Procedure when checking/servicing any part of the system and when installing, cleaning or changing any part of the system.

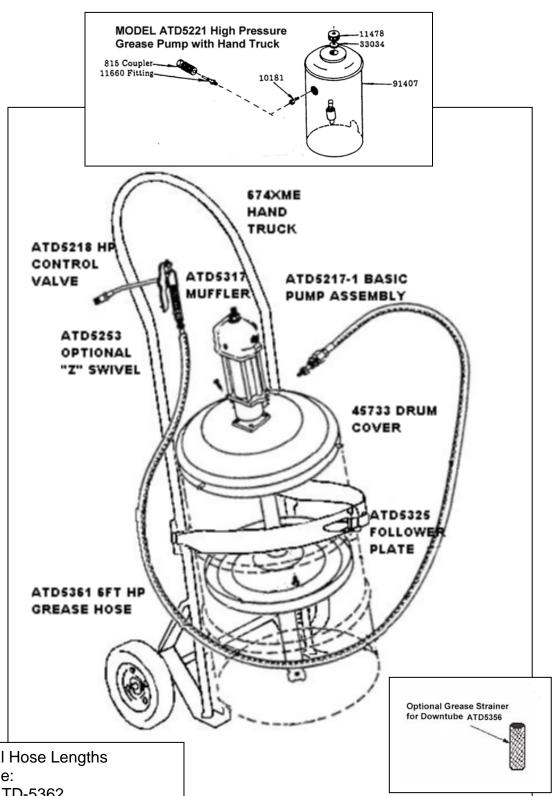
### **INSPECTION INSTRUCTIONS**

If you believe that you have overpressurized the equipment, or if your equipment requires adjustments or repair, contact your Authorized Distributor or Service Center for inspection of the pump.

**LUBRICATION:** It is recommended to lubricate the Air Motor once a month with 1-2 fl oz of oil in the air inlet port of the air motor. This will ensure maximum life of the Air Motor Pump.

### INSTALLATION

It is recommended that you use an **air line filter/regulator/lubricator** to remove harmful dirt and moisture from the compressed air supply and to provide automatic lubrication to the air motor. Blow-dry the lines and hoses with air before connecting them to the system..



**Optional Hose Lengths** 

Available:

10FT: ATD-5362 20FT: ATD-5363 30FT: ATD-5364 40FT: ATD-5365 50FT: ATD-5366



### **Instruction for Assembly of ATD-5221 Lubrigun**

### **Assemble Drum Cover to Pump**

Insert end of pump tube (ATD-5217-1) through hole in the drum cover(45733). Line up holes in drum cover(45733) with the pump outlet body(ATD-5217-1). Place the screws(50060) in there respective holes in the drum cover(45733) from below the drum cover and tighten drum cover(45733) to the bottom of the pump body(ATD-5217-1).

**Note:** Many of the smaller Parts and Pieces might have already been installed for you such as the Muffler (ATD-5317), Pump Cover(91407), and extension (10181). If not, assemble them according to the Drawing on Page 3.

### **Assemble One Piece Construction Hand Truck to Drum:**

1: Place a fresh drum of lubricant centrally located on the Hand Truck inserts at the outer base of the Hand Truck enable you to place the hand truck under the drum.

2: Use the Clamps from either side of the Hand Truck to secure the Drum firmly to the Hand Truck.

Insert the follower plate(ATD-5325) onto the bottom of the pump tube(ATD-5217-1) and slide the follower plate (ATD-5325) up the pump tube.

If you have the ATD-5356 Grease Strainer; Insert the ATD-5356 Grease Strainer on the lower portion of the pump tube. Use the set screw to adhere ATD-5356 Grease Strainer to the end of the Pump Tube. Insert Grease Strainer up the pump tube as far as it will go.

Lower pump tube into lubricant until drum cover(45733ME) rests on top bead of drum.

Insert the three (3) adjusting screws(50415) into the drum cover(45733ME) and tighten securely to hold the pump(ATD-5217-1) to the drum.

Install the Muffler (ATD-5317)(not shown) in the Exhaust port of the Air Motor head. Locate the muffler (ATD-5317) or its notation on the Schematic. Ensure that the Muffler (ATD-5317) is inserted in the correct orifice at the back of the air motor head. This might already have been installed at the factory.

Assemble the lubricant hose(ATD-5361) to the pump outlet body. If Union Adapter 66645ME was purchased, thread the union adapter into the lube opening followed by the hose (ATD-5361) into the union adapter. The connections must be **leakproof**. **Do not connect the ATD-5218 Control Valve Yet**. **You want to prime the system and purge contaminants out of the Grease Hose**.

Install the extension tube 10181 into the air inlet port of the air motor. You might need Teflon Tape to ensure a leak free connection. Place Air Motor Cover(91407) on Pump Head(ATD-5217-1). Place washer (33034) and cover nut(11478) on pump stud and thread air motor cover (91407) securely in place. Ensure that you align holes for the 11660 ME Air Nipple and extension 10181 ME.

The Air Coupler(815ME) and Nipple(11660ME) are packed in a separate bag. Consult Top Drawing on Previous Page.

Thread Air Nipple (11660) into extension(10181) connected through pump cover opening; Thread into pump head opening. Use Teflon tape to seal threads to prevent air leakage. Consult Top Drawing on Previous Page.

Assemble air coupler(815ME) to an air hose of sufficient length so that the lubrigun can be moved to cover the entire lubrication area with the hose attached. When air coupler(815ME) is attached to air coupler nipple(11660), lubrigun is ready for operation. To release air coupler(815ME), draw back on the coupler sleeve (815ME) and slide away from the nipple (11660ME).

### Note: Do not install ATD-5218 Control Valve yet!

Did you Install?	A Regulator? We suggest that for accurate control of the pump, you use an Air Regulator?
Did You?	Purchase a Filter / Regulator for your pump? The Filter / Regulator should have an automatic dump mechanism to purge the water out of the incoming air. Water in the compressed air system is the biggest "Killer" of Air Operated Equipment.
Yes!	Proceed
No!	Think about it! It is cheap insurance to keep your pump running at maximum efficiency and the pump will last longer

### **Initiating Air Motor and Pump Operation**

**To Start Pump**: Turn on air from Air Regulator **slowly**. You will hear the air enter the air motor. Pump will start quickly and then reach prime at a stall pressure. It might take as much as 60-70 PSI to get the pump started initially. Recommended Air Pressure to operate the pump under normal conditions is 80-100 PSI. Pump will activate as low as 15-20PSI. For first time operation, pump will start at 50-60 PSI. After that pump will activate at the lower pressure.

D 20 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	e at a stall pressure when the control valve is attached.
	nto the hose. Allow approximately 1/3 Cup of Grease to flow out of the Hose. <b>This</b>
	inants or residue inside the hose do not enter the ATD-5218 Control Valve.
	Valve on the Hose End; The optional "Z" Swivel ATD-5253 can also be installed at
this time. Make sure connections are tight;	Resume operation of the pump. The pump should reach stall pressure and stop.
Are you in a Messy	The second biggest killer of these pumps is foreign material such as
	grit, dirt, rocks, metal shavings, grass, plastic shavings and foreign
<b>Environment?</b>	materials being introduced into the pump tube. We suggest the ATD-
	5356 pump tube strainer to avoid this problem. See Attached
	Drawing.
Test the System	Pull the Trigger slowly and Grease should be ejected from the nozzle.  Don't point it at anyone
Never Put your Finger or Other Bodily pa control valve. This is High Pressure Gre	arts near the valve control nozzle when pulling the trigger on the ATD-5218
To know the amount of lubricant pressure in	n your system or the hose, multiply the amount of air pressure by 50. For example,
if there is 100 psi of air pressure indicated of	on the regulator (100 psi of air entering) then there is 5000 psi of grease pressure in
the lubricant line.	
Note: Please Read and ReRead Caution a	and Warning Statements included with the Pump.
Note: Plastic Liner	If the Grease Drum has a Plastic Liner and your pump operates but no
110to: 1 laotio Eilioi	grease is delivered, the downtube of the pump could be trying to pick up the
	plastic liner and the downtube is blocked: SOLUTION: You reseat the pump
	in the grease by lifting the pump approximately 6 to 12 inches and reseating
	it on top of the drum. You can permanently raise the pump up at least 1-2"
	out of the drum on blocks or install a grease strainer (ATD-5356) on the
	downtube to prevent the liner from being picked up. Note: This is not a
	common occurrence but it does happen.
Note: Pump Life & Air	Please read the Trouble Shooting Guide Now: Your pump Air Motor has
-	been packed with Grease at the Factory. In addition, approximately 4-8 fl
Motor Lubrication	oz's of Common Lubricating Motor Oil has been injected into the Air Inlet
	Port of the Air Motor. To ensure the continuing operating efficiency and
	long life of your air motor pump, we recommend that you inject at least 2 fl
	oz's of common lubricating motor oil in the air inlet port of the pump every
	week. Do Not use any Synthetic Oil like Marvel Mystery Oil. This will swell
	the Buna – N packings of the pump and cause irreparable damage to the
	pump.
Revision September 8, 2014	





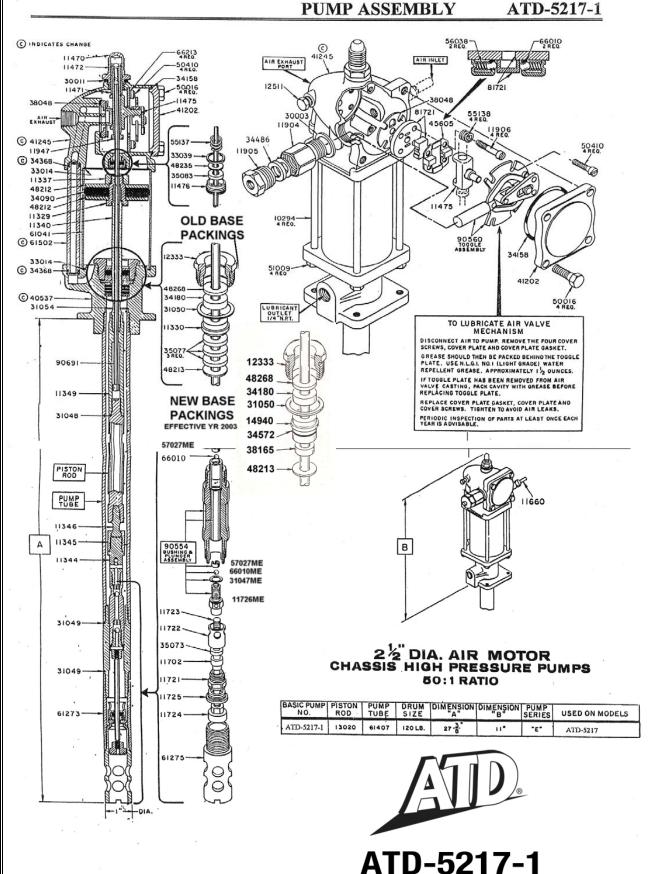
## Troubleshooting Guide for Pumps ATD-5217 - ATD-5219 - ATD-5289

PROBLEM:		SOLUTION:	
WARNING:	TH	INK SAFETY FIRST	T!!!!
	THII	NK SAFETY ALWAY	YS!!!
Your pump does not work? There are Three Basic Problems!	Air Motor Operates but nothing comes out. This is the most common problem.	Air Motor Operates; Grease comes out but there is no pressure. 2nd Common Prob.	Air Motor does not operate. This is a less common occurrence.
We will deal with all 3 of these problems on your own without our intervention factory; The first is a cycle test in grease period. The second test is a pressure to stated period of time before they leave	s and step you through a trough and be on your way. All one with the pump pumping a cest with a meter to hold greaters.	ubleshooting sequence so <b>yo</b> f the pumps undergo 2 types ertain amount of grease per se pressure at 5000 psi at 10	of stringent tests at the cycle over a stated time 00 psi of air pressure for a
WARNING:	If the Air is connected to attempt to work on the pulnlet and relieving pressu pressure. Make sure ther	the pump, consider the pullimp or the system without re in the system, both air pe are no live air pockets in the Motor before working on	mp to be live. Do not disconnecting the Air pressure and lube the air motor and all air
WARNING: (Again!)	Ensure that all of the Air I out of the system and the the System before you dis	Pressure and Lubrication F re is no Residual Lube Pre sassemble the pump!! (VE	Pressure has been bled essure or Air Pressure in RY IMPORTANT!!!!)
WARNING:	Do not stick your finger into Tube. This could result in a	the bottom of the Pump Dovamputation!!	wntube or 61275 Priming
WARNING:		nt instrument into the bottom s could ruin or bend the preci	
Question	Yes	No	
Does the Air Motor Operate?	Next Section	Recommend 100 PSI.	e Air Pressure to the pump. ed Air Pressure is 80 PSI –
		obstructions	
Is the Air Motor is Leaking Air?	Silicon is not recommended and cause damage to the v	Use Teflon tape to seal the to disince it can escape into the valves. Check the Quick Disc on tape to seal the threads at the	interior of the Air Motor connect Coupler connection
The Air Motor blows air through the Muffler / Exhaust Port	Check to see that the Air In the Brass/Steel Plug is instathere are no air leaks and A RARE CASES the slide valof a mallet and lightly tap to (41202) with the rubber par Don't pound it and Don't Sometimes and very rarely to be prodded off of the new have water damage or the cline.	let Nipple is installed in the called in the Air Motor head an Air is fully engaged at least 80 we will stick in the neutral posthe top of the Air Motor or the tonly. Did we say "LIGHTL beat it!!! It is a casting and the slide Valve sticks in the latral position. It also indicated damage is starting or there is	correct location. Check that and is not leaking air. If the position of psi, then sometimes in sition: take the rubber part of ecover of the Air Motor of the Air Motor of the
Question: Are you using a FRL (Filter / Regulator/Lubricator) on the pump?	Answer: We strongly suggethe pump. The Filter should it so water is eliminated and do not have a FRL on the p	est the use of a Filter / Regu d be a moisture evaporator wat d purged from the air before oump, chances are the pump s will corrode the inside of the the pump.	vith an automatic dump on entering the pump. If you head could be
Pump does not pump material	Check to see if there are ar secure: disconnect the Gre	ny blockages in the Lubricant ase Hose from the pump.	lines. If all lines are

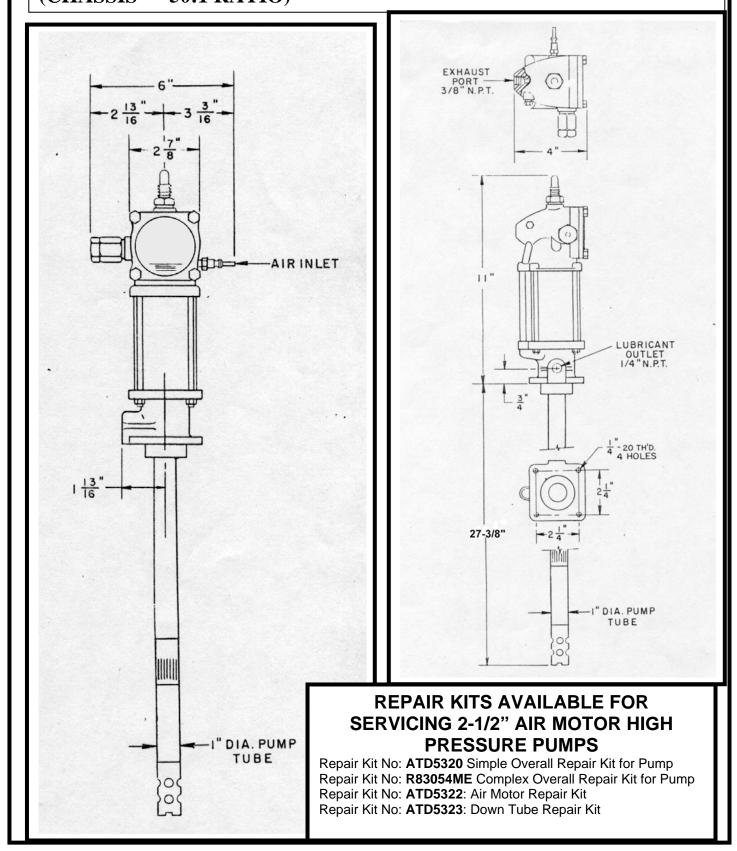
Pump operates, pumps material but does not shut off.	Reason: Pump is not reaching stall p 1: Check that all hoses, lubricant line connected and the connections are ti 2: Check that the hoses are <b>SAE app</b> pumping High Pressure Grease. <b>Do for pumping High Pressure Grease</b> 3: Go to Step #2; Downtube Blockage 4: If that does not solve the problem	s and controls valves are ght. There should be no leaks. proved Grease Hoses and made for pr't use Oil Hose or Garden Hose ge. ge. go to Step #4
Air Motor on Pump operates but no material comes out	Make sure there are no air pockets in Push down lightly on the follower plat 2: Check that all hoses and control volume 3: Check to see that there are no block 4: Go to Step #2; Downtube Blockag 5: If that does not solve the problem is	alves are fully connected ckages in the lines, hoses or control valves. ge below.
Air Motor still Operates but no Material comes out.	dirt, sand, plastic or metal. Follow in and Cleaning below.	gn debris or materials such as rocks, stones, structions for Lower Downtube Disassembly
Pump, hoses and valves are Connected and pump does not Pump when I pull the trigger on The control valve	See Trouble Shooting Seque Period.	nce Below: Question / Answer
Warning: (Again!!!)	attempt to work on the pump or the Inlet and relieving pressure in the pressure. Make sure there are no has been bled from the Air Motor.	o, consider the pump to be live. Do not e system without disconnecting the Air system, both air pressure and lube live air pockets in the air motor and all air
QUESTION???	YES!!!	NO!!!
Does the pump Air Motor operate when it is removed from the Grease?	Yes: Then put the pump back in the grease. Remove the hose from the pump	No: Then check Air Inlet for Pressure, and check Air Motor for Leaks at the Air Nipple, Muffler or Seals. If there are no air leaks and Air is fully engaged at least 80 psi, take the rubber part of a mallet and slightly tap the front cover of the Air Motor (41202) with the rubber part only. Sometimes and very rarely the Toggle Valve sticks and needs to be prodded off of the neutral position.
Does the Air Motor have water in the Casing?	If water is in the Air Motor Casing (41245), The slide valve 45605 could be sticking because it is corroded or rusted. Sometimes injecting 4-8oz of SAE 30 Motor Oil into the air Inlet will lubricate the air motor parts enough to get the air motor operating. This is a temporary fix.	
Water Continued: Oil Solution	Do not use Marvel Mystery Oil or any synthetic oil as this will swell the Buna N Packings of the pump and render the pump useless.	
Does the Air Motor Operate Now?	Yes: check to see it will pump grease. In the future keep the air motor well oiled. You need to check the water and air quality in your air line. Insert pump into grease and see below Step 5.	No: This could be due to 2 problems; We will deal with each independently.  See Step #1 below and then see Step #2.
Step #1: Water in the Air Motor Step #2: Downtube Blockage.	Yes: Remove Air Motor Cover 41202 and inspect the inside of the Air Motor Casing. There should be	No: We did not find water in the Air Motor Casing when we removed the Air Motor Cover 41202. Go to Step #2 below.

	NLGI#1 grease packed into the air motor casing. If there is no grease in the air motor casing, the grease is white or the parts are corroded and rusted you have a moisture problem in your air line that needs to be corrected.  Try soaking the Air Motor Casing in SAE 30 Motor Oil to free up the moving parts. If this does not solve the problem the pump needs to be rebuilt preferably by an Authorized ATD Service Center.	Step #2: It is possible your pump has picked up some foreign materials or debris such as rocks, stones, dirt, sand, plastic or metal. This could block the down tube plunger 11724 from being able to freely move up and down. Follow instructions for Lower Down tube Disassembly, Inspection and Cleaning.
Step 3: Did this solve the problem?  Step 4: Pump not holding or	Yes: Please think of using a Strainer (ATD-5356) See Note on the Strainer Below.  Yes: The pump holds pressure fine.	No: If this did not solve the problem with the pump, then we have covered blockage in the downtube, corroded or non-function parts in the air motor, blockage in the hose and control valve, and air motor air leaks This covers approximately 99% of the problems. Continue to Step #4 if the pump does not build or hold pressure or continue onto step #6 for unusual problems.  No: It operates but does not hold or build
building Pressure:	Then you solved the problem?!?!	Follow instruction for Lower Downtube Disassembly, Inspection and Cleaning. Chances are foreign material is lodged in the lower downtube. In addition, it is possible that the packing 35073 needs to be replaced in the Lower Downtube section. This is a wear part and not covered by warranty. Consult your service manual for the location of the 35073 and instructions for replacement are in the Downtube Disassembly instructions.  In some cases, we have seen paper and bubble gum that get stuck up inside the plunger bushing 90554ME between the two check balls, check seats and ball stop. This part is a precision lapped part and if that is the case, it will need to be cleaned out. See note below on types of foreign materials.
Step 5: Does it pump grease now when inserted in the drum?	Yes: There is a blockage in the Hose or the Control Valve. Remove the Control Valve from the hose and connect the hose to the pump. Or Yes, but it does not seem to hold or build pressure. See note below on types of foreign materials.	No: See Step # 1 followed by Step #2
Does the grease pump through the hose?	Yes: Then the blockage is in the Control Valve. Attach the control valve to the hose. Remove the coupler from the Control Valve. Most likely the blockage is at the control valve.	No: Then the blockage is in the hose.
Does the grease pump through the Control Valve?	Yes: there was blockage in the coupler of the control valve. Clean	<b>No:</b> There is a blockage in the main body of the Control Valve. Control Valve needs to

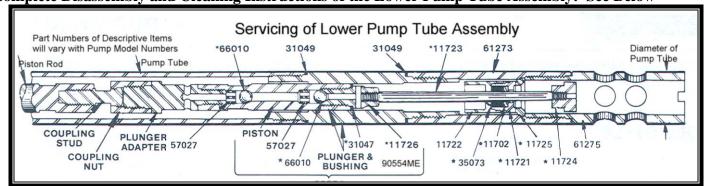
	the Coupler out with Mineral Spirits.	be disassembled and cleaned.
Is there Blockage in your Lubricant	Yes: we suggest the use of a foot	be disassembled and cleaned.
Lines, Hoses, Pumps and Control	valve strainer: ATD-5356	
Valves Common?	valve strainer. ATD 5555	
Step #6: Are there Dents in the Air Cylinder?	Yes: Look on the outside of the air cylinder 61041. Are there any dents. The smallest dent will stop the operation of the pump. You need to replace that part and order	No: There are no dents or cracks on the outside. Go to step #7:
	a repair kit as well. Or Contact an Authorized ATD Service Center. Also see warning note below on the use of Hammers!	
Step #7: Any Synthetic Oil?		oil or any synthetic oil into the air inlet of the una N Packings especially part # 34090. The ed to be rebuilt.
Note: Strainer ATD-5356		se, lubricant lines or control valve with ontaminated grease from entering your ease Strainer: ATD-5356
Has your Pump been Outside in the elements? Has water entered the Air Motor?	Yes: there is a possibility that water he time this can cause damage to the Ai	nas accumulated inside the Air Motor. Over r Motor. All pumps are packed at the factory e. Over time with water accumulating inside
Note: FRL	To ensure the proper operation of yo Regulator, Lubricator (FRL) on each /Regulator with an automatic dump m	ur Pneumatic pump, we suggest a <b>Filter,</b> h Pump OR at the very least a Filter nechanism on it to purge water out of the air.
Note: Hammer Fix!!	rugged and made for professional an and if any parts are dented, it will affe	
Note: Types of	abrasive materials can ruin or severe	esives, caulks, anything w/ sugar, bubble gum, ly block part # 90554ME. This is a precision
Foreign Materials:	exposed to abrasive materials such a you will probably have to replace par	
Note: Plastic Liner	is delivered, the downtube of the pun	ELiner and your pump operates but no grease np could be trying to pick up the plastic liner
Issues	and the downtube is blocked:  SOLUTION:  1: You can try reseating the pump by	lifting the pump approximately 6-12 inches
	above the drum / pail and reseating if	
	2: You can try raise the pump up at le introduce contamination in the grease 1-2" of grease in the bottom when yo	east 1-2" out of the drum on blocks but might e with blowing dirt etc; Also you will leave u change containers.
	being picked up.	6) on the downtube to prevent the liner from e made their liners with a heavy plastic and
	this has not been an issue.	• •
Final Warning on a Live Pump:	attempt to work on the pump or the Inlet and relieving pressure in the	, consider the pump to be live. Do not e system without disconnecting the Air system, both air pressure and lube live air pockets in the air motor and all air
Revision: January 23, 2008		
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### 2-1/2" AIR MOTOR OPERATED PUMPS MODEL ATD5221 Pump Assembly (ATD5217-1-Pump) (CHASSIS --- 50:1 RATIO)



Service Instructions for ATD-5217 Pump Assembly (ATD-5217-1) Lubricate Air Valve Once Each Year For complete Disassembly and Cleaning Instructions of the Lower Pump Tube Assembly: See Below



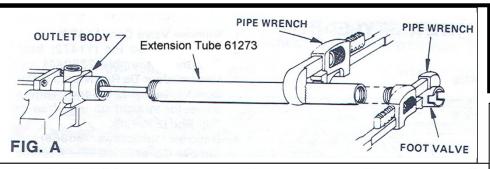
Loss of pressure, volume or continuous operation of pump when not in normal use indicates:

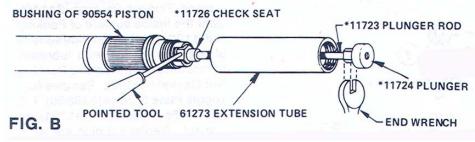
- A. Foreign material lodged under Piston Ball Checks or between Upper and Lower Inlet Checks.

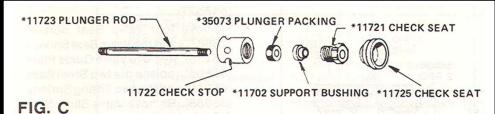
  To correct this condition the Piston 8all Checks and Inlet Checks should be removed,, thoroughly. If sealing surfaces between Upper and Lower Inlet Checks are rough or pitted, place or resurface if damage is slight.
- B. Shovel Rod Packing worn or damaged. Before installing new Packing, inspect surface of Shovel Rod and replace if rough or pitted. Do not grip Shovel Rod when disassembling lower pump tube assembly. If pump continues to operate when not in normal use and lubricant level in drum drops, inspect lubricant supply line between pump and outlet for leaks or break in line.

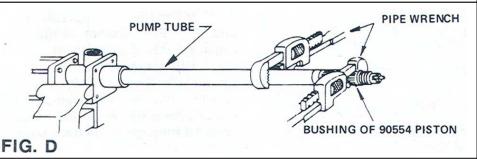
	PARTS LIS	ST FOR A	TD5221 PUMP AS	SEMBL	Υ
10181	EXTENSION TUBE	11660ME	AIR NIPPLE	ATD-5218	HP CONTROL VALVE
11478	COVER NUT	45733ME	DRUM COVER	ATD5317	MUFFLER
33034	WASHER	ATD5217-1	50:1 RATIO PUMP		FOLLOWER
50060	MACHINE SCREWS FOR THE DRUM COVER (4 REQ)	674XME	Hand Truck; Solid Welded Metal; One Piece Construction with 6" diameter wheels	ATD-5325	PLATE WITH RUBBER OUTER WIPING RING AND INNER RUBBER WIPING RING.
50415	HOLD DOWN SCREWS FOR DRUM COVER(3 req)	815ME	RAPID DISCONNECT COUPLER	ATD5361	6FT X 1/4" HIGH PRESSURE GREASE HOSE
91407	COVER	ATD-5258	HIGH PRESSURE 7500 PSI HYDRAULIC COUPLER	ATD-5372	ROLL-A-ROUND BASE WITH CASTERS

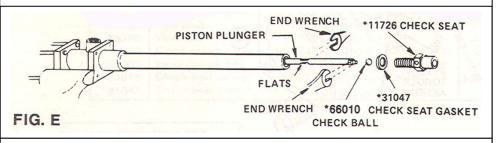
PART#	DESCRIPTION	PART#	DESCRIPTION	PART#	DESCRIPTION
10294	Tie Rod	12209	Coupling Stud*	41202	Cover Casting
11329	Air Piston Bolt	12209	Coupling Stdd  Coupling Nut*	41245	Air Valve Casting
11330	Gland Spacer in	12333	Gland Packing Nut	45605	Valve Guide Plate
11330	Base(Old Version)	12333	Giand Packing Nut	45005	valve Guide Plate
11337	Air Piston Nut	12511	Pipe Plug	48213	Gland Packing Washer
11340	Air Motor Piston Rod	14940ME	Gland Spacer in Base(New Version)	48235	Packing Washer
11344	Plunger Adapter	13020	Piston Rod	34486	O-Ring
11345	Coupling Nut	13363	Valve Cap	48237	Plunger Packing Washer*
11346	Coupling Stud	30003	Packing Nut Gasket	48268	Gland Packing Washer*
11349	Piston Rod Connector	30011	Valve Cap Gasket	T-2489	Valve Cover Screw*
11470	Valve Cap	31047	Check Seat Gasket*	50016	Valve Cover Screw
11471	Trip Rod Collar	31048	Connector Gasket	50410	Toggle Plate Screw
11472	Trip Rod Pin	31049	Bushing Gasket	51009	Tie Rod Nut
11475	Trip Shoe	31050	Gland Gasket	55137	Trip Rod Packing Spring
11476	Trip Rod Packing Nut	31054	Pump Tube Gasket	55138	Valve Seat Spring
11660	Air Inlet Nipple	33014	Air Cylinder Gasket	56038	Spring
11702	Check Washer	33039	Packing Nut Gasket	57027	Ball Stop
11721	Priming Check	34090	Air Piston Packing	61041	Air Cylinder
11722	Check Stop	2-206	Plunger Packing*	61273	Bushing Extension
11723	Plunger Rod	34158	Cover Gasket	61275	Priming Tube
		34180	Gland Packing	61321	Pump Tube*
11724	Priming Plunger	34368	O-Ring	61407	Pump Tube
11725	Priming Check Seat	34572ME	O-RING Base Packings NEW VERSION	61502	Air Passage Tube
11726	Check Seat*	35073	Priming Check Packing	66010	Equalizer Ball
11761	Piston Rod	35077	Gland Packing Base Packings(Old Version)(3 req)	81721	Valve Slide and Sea Assembly
11904	Packing Nut	35083	Trip Rod Packing	90554	Plunger and Bushing Assembly
		38048	Valve Seat Gasket	90560	Toggle Plate Assembly
11905	Packing Cap	38162	Valve Seat Gasket*	90691	Trip Rod Assembly
11906	Valve Seat Bolt	38165ME	U-CUP BASE PACKINGS NEW VERSION	12210	Coupling Adapter*
11947	Trip Sleeve	40537	Outlet Body	48212	Air Piston Washer











**Cleaning:** Use Mineral Spirits and a Brush to Thoroughly Clean all Debris out of the Foot Valve 61275 and Extension Tube 61273; Thoroughly inspect all parts for wear or damage; Clean all Parts

### Tentative Check List

- 1: Is the Plunger Rod 11723 bent?
- 2: Is the Packing 35073 excessively worn?
- 3: Is the Check Seat 11725 worn or have abrasions or cuts?
- 4: Is the plunger 11724 bent or broken?
- 5: 95% of the problems with the pump not pumping material; not holding pressure or not operating have to do with foreign Material such as Rocks, Stones, Metal, Nuts, Bolts, Plastic, Paper, Gum and other materials being picked up by the downtube and getting caught in the extension tube or the down tube. When Changing Lube Containers, Watch where you lay the pump and what the downtube touches. Anything will stick to the grease on the end of the downtube.

### LOWER PUMP TUBE DISASSEMBLY AND CLEANING INSTRUCTIONS

- **95%** of the problems that occur with the pump not pumping material; not holding pressure or not operating at all have to do with foreign Material such as Rocks, Stones, Metal, Nuts, Bolts, Plastic, Paper and other materials being picked up by the downtube and lodging themselves in the extension tube or the down tube.
- To avoid this, use a strainer for the downtube, if in a difficult environment. In rare cases with paper and bubble gum, the material can work its way up into the bushing and plunger assembly (90554) and therefore this part needs to be disassembled and cleaned as well. If sand or dirt is a constant problem, you will find that the bushing and plunger assembly will wear excessively. These two pieces are lapped and fitted together as one. Constant Sand or Dirt passing through the part 90554 Bushing and Plunger can ruin the tight fit.

### **Procedure**

- Fig A. (See Fig. A) Lay pump horizontal in vise and grip outlet body tightly in vise jaws. Hold Extension Tube (61273) and unscrew Priming Tube (61275).
- Fig B. (See Fig. B) Pull Plunger (11724) straight out until Plunger Rod (11723) is extended as far as possible out of the Extension Tube (61273). Hold bushing of Piston (90554) and unscrew Extension Tube (61273).

Center Extension Tube (61273) between end of piston bushing and Plunger (11724). Insert any pointed tool in through hole at Base of Check Seat 11726.

**Note:** Plunger may unscrew from Plunger Rod (11723) or plunger rod may unscrew from Check Seat (11726). Extension Tube (61273) can be removed from free end of Plunger Rod (11723).

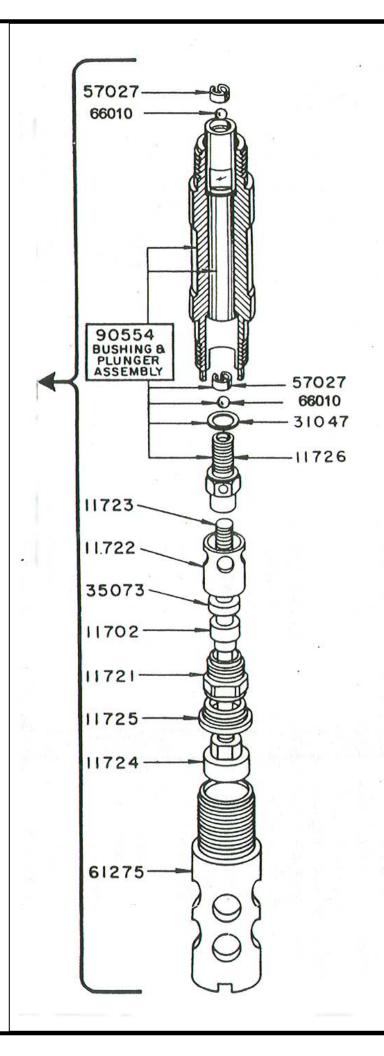
Fig C: (See Fig. C) When you remove the Extension Tube (61273) this exposes the Check Seat (11725), Priming Check (11721), Check Stop (11722), Support Bushing (11702) and Plunger Packing (35073).

Note: Unscrew Priming Check Seat (11721) from Check Stop (11722) to remove Support Bushing (11702) and Plunger Packing (35073); To do this you will have to put Check Seat (11721) in a vise and insert a point tool such as a punch through the holes in Check Stop (11722) to unthread Check Stop (11722) from Check Seat (11721).

Plunger Packing (35073) incurs heavy wear and it is advisable to replace this part if worn.

- Perform this only if you need to remove Bushing and Plunger Assembly; Otherwise Reassembly Pump Tube
- Fig D. (See Fig. D) Removing Bushing and Plunger Assembly (90554ME); Hold pump tube and unscrew bushing of Piston (90554). Bushing should slide off once unthreaded from the Pump Tube.
- Fig E. Grip two flats at top of piston plunger with an end wrench and remove Check Seat (11726).

**Note:** Check Ball (66010) may remain in plunger after Check Seat (11726) is removed. To remove check ball tilt pump in vise and gently tap top of plunger at location of two flats.



Note #2: You only remove that check ball (66010) if you suspect foreign material is behind the check ball. You can perform a visual inspection after the check ball is removed and if there is foreign debris behind the check ball, then continue and remove the bushing and plunger assembly as well. (See below).

Occasionally debris such as paper, bubble gum, plastic, cellophane. plastic bags etc, have gotten wedged up inside the plunger portion of the bushing and plunger assembly. Flats are provided on the plunger portion to remove the complete plunger and inspect the inside. This removal will also facilitate the easy extraction of the ball cage 57027 and ball 66010 at either end of the plunger. Be sure to note the order of installation of the plunger assembly on the pump rod (ie which is the top and which is the bottom). Don't confuse the two. If you reverse the plunger, the pump will not work correctly. Again, don't confuse the top and bottom of the plunger. Once you remove the two (2) ball cages 57027 and the 2 balls 66010, you should be able to look directly through a clean orifice inside the plunger assembly. If not, then something is blocking the inside of the plunger assembly and it must be removed. Do not scratch the machined surfaces of the plunger or the inside of the bushing. Normally the item in the plunger is of a nature similar to the materials mentioned above in bold. This is not a common occurrence to have material stuck or wedged in the plunger assembly but it has happened.

When reassembling the plunger assembly, NOTE #1: The top and bottom of the plunger assembly. You were careful in the beginning and noted it when you took it apart. NOTE #2: notice the order of the ball and cage. Starting from the bottom, it is ball; cage; then at the top of the plunger it is cage; ball; If you reverse this order, the pump will not operate at all.

Now use the flats on the plunger and thread the top portion of the plunger onto the coupling (different number for different pumps). Tighten the plunger but don't strip the threads.

Next prepare to insert the plunger into the bushing by pushing the bushing into the plunger rod. Please note the bushing and plunger are a lapped pair and they are fitted at the factory. You cannot take a plunger from one pair and change it with another bushing. The fit is a tight fit. Make sure the Bushing is straight before you attempt to slide it on. The bushing should just slide on. A Bit of grease inside the bushing or on the plunger will help the insertion. Thread the bushing 90554ME onto the pump tube. Tighten securely.

The gasket ring 31047 and 11726 is inserted onto the bottom of the plunger. Use the milled flats to tighten 11726. Assemble the balance of the items in reverse order to disassembly. Note the drawing to the left. When reinstalling the bushing extension 61273(not shown), install the unit over the other interior parts and let it hang loose. Thread the rod 11723 onto the bottom of 11726. To tighten the rod, you will have to insert a small punch into the hole of 11726. See Fig B on page 1. We are now tightening the rod 11723 by putting a wrench on the plunger 11724. Assemble balance of items as shown.

Tighten all outside parts securely with wrench.

### Additional Instructions: with some tips to help you

### Cleaning out the Downtube with Foreign Material and Debris Pumps: ATD-5289-1; ATD-5217-1; ATD-5219-1

You need to have the plunger all the way extended to the end of the foot valve before you start. It makes life easier. Put a small amount of air on the unit to extend it out. When it is extended out to the bottom of the foot valve, disconnect the air.

Start with Figure "A" in the attached photo description sheet. Do not unthread the pump tube. You don't need to even though it indicates the same in the sketch.

Take off the Foot Valve 61275.

#2: Unscrew the extension tube 61273; Do not Yank it out. You will need a pipe wrench to unthread the extension tube; actually two; one on the bushing and plunger assembly piece (90554ME) to hold it steady and the other on the extension tube to unthread the extension tube off of the end of the Bushing and Plunger Assembly.

Stick the pointed tool (usually a punch of the correct diameter) in the check seat hole of 11726 and use an adjustable wrench on the plunger. .

Once the plunger is off of the plunger rod (it is unthreaded) you can slide the complete unit off. Sometimes the rod 11723 unthreads from the check seat 11726, that is fine as well. If there are dirt, rocks, metal or plastic in that area, clean it out. While you have it off, replace the plunger packing 35073. We offer Buna N (black), Viton(Brown) and Teflon(White). It is a wear part.

Do not unthread the bushing and plunger assembly unless you suspect there is obstruction problems. If paper, bubble gum, plastic gets into the bushing and plunger assembly you will have to clean out the inside of the plunger. The debris usually gets caught in the ball cages. Note the order of the ball cage in the plunger assembly on the drawing. If you put it in reverse order the pump will not pump grease. Starting from the bottom of the pump tube, it is ball, cage, ball cage. Look at the drawing on page 2 and you will understand.

Assemble the unit back in the reverse order.

Normally, we pump mineral spirits through a completed repair job to clean it out and test the pump. The mineral spirits should be pumping out on the up and down stroke. Mineral Spirits is easier than grease if you have to dissemble the pump again because a part or parts was installed incorrectly.

### TIPS SHEET FOR ATD OIL & GREASE PUMPS

- **#1: Unpacking the pump;** Be Careful where you lay the downtube. The slightest foreign material like a rock, grass, stone, metal or plastic will block the pump.
- **#2: Lubricate the Air Motor** only with SAE 30 Common Motor Oil or NLGI #1 Grease.

# DO NOT USE ANY TYPE OF SYNTHETIC OIL IN THE AIR MOTOR CASING. THIS INCLUDES MARVEL MYSTERY OIL OR ANY SYNTHETIC OIL. NO!!!!!!

- #3: Use an Air Regulator with Gauge: Normal Operating Pressure on the pump is between 80-100 psi. This will deliver 4500 PSI TO 5000 PSI of Grease Pressure. OR 240-300 psi of Oil Pressure.
- #4: Warranty is NULL AND VOID if used without an Air Regulator and Guage.
- **#5: Water will Damage** and Corrode the inside of the pump; Use a Moisture Evacuation System on your Air line to keep water out of the pump.
- **#6: Lubricate the Air Motor** of the Pump, Once per Week by injecting 2-5 FL OZ's of SAE 30 Common Motor Oil into the Air Motor Air Inlet.
- **#7: The pump has been tested** and spec'd at the factory and was operated with NLGI #2 Grease under a Static Test and a Dynamic Test (Pressure Test) for Grease Pumps and SAE Motor Oil for Oil Pumps.

### PUMP DIAGNOSTIC FOR ATD GREASE PUMPS

Note: All Grease Pumps are tested in NLGI#2 Chassis Grease at the factory. They are statically tested so they have to pump a certain amount of grease for a stated period of time. They are also dynamically tested so they are required to hold grease pressure for an extended period of time and at a stated rate of air pressure usually 100 psi of Air Pressure yields a grease pressure rating of 5000 PSI. Therefore problems of a new pump not working out of the box should be rare to none. However, problems can occur when unpacking and using your new grease pump for the first time. Please always read and follow directions in the Instruction Manual. Below are some minor trouble shooting tips to get you on your way, should you incur a problem. There is a more extensive trouble shooting manual in your instruction booklet and we request that you consult that for more information.

### 1: PUMP DOES NOT WORK OUT OF THE BOX: Check List:

- 1: Is your Air Line live Operating?
- 2: Is there Air connected to the Pump.
- 3: Check the Air Nipple 11660ME: Is it drilled all the way through? If you hold the air nipple up can you see light through the other end? (not a common problem)
- 4: Is the Air Nipple threaded in the correct Hole which is the Air inlet on the Air Motor NPT 1/8";
- 5: The other threaded holes are the Muffler 3/8" NPT and the Grease Outlet 1/4" NPT. See Drawing in the Instruction Manual.

### 3: Is the Air Motor Hissing Air out of any of the seals on the Air Motor:

- 1: This is not a common Problem.
- 2: It can be fixed by tightening the bolts on the Air Motor for the Seals in Question. This would be very rare and should not need to be done.

### 4: Pump is new out of the box; Air Motor Operates but no grease is coming out:

- 1: Did you remove the plastic tube off of the bottom of the pump?
- 2: Did you accidentally lay the pump down in any foreign material such as metal pieces, rocks, dirt, paper, plastic, saw dust or shavings?
- 3: The slightest piece of foreign material will block the downtube of the pump. Consult the manual that accompanied the pump for an appropriate fix.

### 6: Air Motor is still operating but no grease is coming out.

- 1: Does the container have plastic bag that holds the grease.
- 2: If so, try raising the pump ever so slightly and make sure the pump does not push up against the bottom of the container.
- 3: Sometimes that downtube when sitting on top of the plastic bag will try to suck up the plastic and the plastic will block the downtube.

### 8: Pump was operating fine; we changed the container of grease and now it will not pump grease:

- 1: Did you change the container? How did you set the pump down when you changed the vat? A small amount of foreign material can block the inlet of the pump
- 2: Reset the follower plate in the new vat of grease to expel air pockets.
- 3: Try resetting the pump.
- 4: Disconnect the lube and operate the pump. If it pumps grease, the control valve is clogged.

### 2: So you have Air on the Pump and it does not work?

What is the Pump Doing? Hissing air out of the Air Motor?:

- 1: This is not common but it does occur.
- 2: If it is hissing out of the Muffler, the air valve or slide valve is stuck in the neutral postion.
- 3: Increase the Air Pressure to 100 PSI. Sometimes increasing the air pressure will throw the valve up or down and start the pump cycling.
- 4: If the pump has not been inserted in the grease, hold it upside down and tap it slightly lightly on the cement floor. Please read the word **lightly**.
- 5: If the pump has been inserted in grease, use a rubber mallet and tap the pump slightly on the air motor head. Do not beat the muffler. Use only a rubber mallet not a hammer. The air motor head is a casting and it will crack.

### 5: Pump is new out of the box; Air Motor Operates but no grease is coming out:

- 1: Disconnect the lube hose from the pump.
- 2: Seat the Follower plate; Sometimes the follower plate catches an air pocket underneath it. Pull out the pump and firmly push down on the follower plate to push out any air pockets.
- 3: Reseat the pump by pulling the pump half way out of the container, turning it and putting it back in the container?
- 4: Turn Air on to the Pump and let the pump operate. These pumps are self priming will pick up grease and create a vacuum under the follower plate.
- 5: Pump about ½ cup of grease out of the pump. You should hear a popping noise as the air pockets are released from the grease.

### 7: Grease comes out of the pump outlet but not the control valve.

- 1: The control valve is plugged. Whenever you change hoses or have a new hose you should always pump about ½ cup of grease through the hose to remove any contaminants inside the hose.
- 2: If control valve is plugged with a contaminant, you need to remove the debris from inside the control valve.

### 9: Pump was Operating fine; We did not change a vat of grease; The pump will not start;

- 1: Check the Air Motor. Do you have water in your air line.
- 2: Try injecting 8-10 fl oz's of common SAE Motor oil into the Pump Inlet and let it sit.
- 3: Do not use any type of Synthetic Oil or Air Tool Oil as this will ruin (swell) the Buna N Packings and render the pump useless.

# REPAIR KIT LISTINGS FOR THE ATD5221; PUMP ATD5217-1

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<u></u>	)MPLEX F	COMPLEX REPAIR KIT FOR AIR MOTOR AND DOWNTUBE 83054-ME FOR MODELS ATD5217-1. ATD5289-1. ATD5219-1	OTOR ANI . ATD528!	D DOWNTUBE 83054-ME 9-1. ATD5219-1	<u>v</u>	MPLE	SIMPLE REPAIR KIT FOR AIR MOTOR AND DOWNTUBE ATD5320 FOR MODELS ATD5217-1. ATD5289-1. ATD5219-1	1010R -1. ATI	AND L 05289-	00WNTUBE ATD5320 ·1. ATD5219-1
OTY	MODEL	DESCRIPTION	OTY MODEL	DESCRIPTION	ΛTO	MODEL	DESCRIPTION	) T	MODEL	DESCRIPTION
-	11340	QQ		PACKIN	-	11340	AIR MOTOR PISTON ROD		34206	O RING
_	11472	TRIP PIN	1 34090		_	11472	TRIP PIN	<b>~</b>	34158	COVER GASKET
_	11475	TRIP SHOE	1 34206	ORING	_	11702	CHECK WASHER	_	34180	GLAND PACKING
_	11702	CHECK WASHER	1 34158		_	11721	PRIMING CHECK	7	34368	O RING
_	11721	PRIMING CHECK	1 34180	GLAND PACKING	-	11723	PLUNGER ROD	_	35073	PRIMING CHECK PACKING
_	11723	PLUNGER ROD	2 34368	ORING	_	11724	PRIMING PLUNGER	3	35077	GLAND PACKINGS OLD VER
_	11724	PRIMING PLUNGER	1 35073	PRIMING CHECK PACKING	_	11725	PRIMING CHECK SEAT	_	35083	TRIP ROD PACKING
_	11725	PRIMING CHECK SEAT	3 35077	GLAND PACKING OLD VER	_	11726	CHECK SEAT	_	38162	VALVE SEAT GASKET
_	11726	CHECK SEAT	1 35083	TRIP ROD PACKING	_	30003	PACKING NUT GASKET	~	55137	TRIP ROD PACKING SPRING
~	30003	PACKING NUT GASKET	1 38162	VALVE SEAT GASKET	_	30011	VALVE CAP GASKET	2	56038	SPRING
_	30011	VALVE CAP GASKET	1 55137	TRIP ROD PACKING SPRING	_	31047	CHECK SEAT GASKET	4	66010	EQUALIZER BALL
~	31047	CHECK SEAT GASKET	2 56038	SPR	_	31048	CONNECTOR GASKET	4	66213	LOCK WASHER
~	31048	CONNECTOR GASKET	1 61041	AIR CYLINDER	_	31050	GLAND GASKET	z	EW VER	NEW VERSION GLAND PACKINGS
7	31049	BUSHING GASKET	4 66010	EQUALIZER BALL	_	31054	PUMP TUBE GASKET	_	34572	O RING GLAND PACKINGS
~	31050	GLAND GASKET	4 66213	LOCK WASHER	7	33014	AIR CYLINDER GASKET	-	38165	U CUP GLAND PACKINGS
~	31054	PUMP TUBE GASKET	NEW VI	NEW VERSION GLAND PACKINGS	_	33039	PACKING NUT GASKET			
2	33014	AIR CYLINDER GASKET	1 34572	O RING GLAND PACKINGS						
			1 38165	U CUP GLAND PACKINGS						
		DOWNTUBE REPAIR KIT ATD5323	AIR KIT A	FD5323	L		AIR MOTOR REPAIR KIT ARD5322	PAIR K	IT ARE	5322
	<u>.</u>	FOR MODELS ATD5217-1, ATD5289-1, ATD5219-1	, ATD528	9-1, ATD5219-1		<u>.</u>	FOR MODELS ATD5217-1, ATD5289-1, ATD5219-1	-1, ATI	) 5289-	.1, ATD5219-1
QTY	MODEL	DESCRIPTION			ΩTY	MODEL	DESCRIPTION	QTY	MODEL	DESCRIPTION
~	11702	CHECK WASHER			_	11340	AIR MOTOR PISTON ROD	_	34180	GLAND PACKING
~	11721	PRIMING CHECK			_	11472	TRIP PIN	7	34368	O RING
~	11723	PLUNGER ROD			_	11475	TRIP SHOE	က	35077	GLAND PACKING OLD VER
_	11724	PRIMING PLUNGER			_	30003	PACKING NUT GASKET	_	35083	TRIP ROD PACKING
~	11725	PRIMING CHECK SEAT			_	30011	VALVE CAP GASKET	_	38162	VALVE SEAT GASKET
_	11726	CHECK SEAT			_	31048	CONNECTOR GASKET	_	55137	TRIP ROD PACKING SPRING
_	31047	CHECK SEAT GASKET			_	31050	GLAND GASKET	7	56038	SPRING
7	31049	BUSHING GASKET			_	31054	PUMP TUBE GASKET	_	61041	AIR CYLINDER
~	35073	PRIMING CHECK PACKING			7	33014	AIR CYLINDER GASKET	7	66010	EQUALIZER BALL
7	66010	EQUALIZER BALL			_	33039	PACKING NUT GASKET	4	66213	LOCK WASHER
					_	34090	AIR PISTON PACKING	Z	IEW VEF	NEW VERSION GLAND PACKINGS
						34206	O RING		34572	O-RING GLAND PACKING
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# Description: 120lb(16 Gallon)(54.4KG) Drum Grease Pump Assembly w/ Hand Truck:

ATD5221

- 1. Includes 50:1 Double Acting High Pressure Pump(ATD5217-1) provides uniform pressure and delivery on the up and down stroke
- 2. 6'(1.85mts) High Pressure Grease Delivery Hose(ATD5361)
- 3. High Pressure Grease Delivery Control Valve(ATD5218)
- 4. Rapid Disconnect Coupler(815ME) & Air Nipple (11660ME) & Air Motor Muffler
- 6. Pump Specifications: Pump Tube Length 27-3/8" (69.5CM) for 120 lb (54.4KG) Drum; Pump Tube DIA:
  - 1.0"(2.54CM); Air Motor Height: 11.0"(27.94CM); Overall Height of Unit: 38-3/8"(97.5CM)
- 7. Follower Plate (with outer rubber wiping ring on the drum and inner rubber wiping ring on the pump tube) Inner DIA 1.0"(2.54CM) (ATD5325) assures postitive prime and vacuum at low temps (prevents cavitation)
- 7a: Follower Plate Solid Molded Rubber (ATD5325-2) Optional Available
- 8.Air Motor Cover in White (91407ME)
- 9. Steel Drum Cover with screw downs for 120 LB Drum(45733ME) Cover Diameter: 15-1/16"(38.3CM) Opening
  - (Downtube Diameter Opening 2-1/4"(5.72CM)) w/ 4 mounting holes to attach base of pump to the cover.
- 10. Single One Piece Contruction Hand Truck with 6"(15.24CM) Diameter Hard Rubber Wheels and Heavy Duty Metal Clamping Strap to hold Barrel securely in place.
  - 11. Steel Drum Not Included.
- 12. These high pressure Grease Pumps incorporate a 20 cu. in. air motor design.
- 13. Output: 80 cu in/minute (45 oz) of Grease at 100PSI NLGI#2 at 70 Degrees ambient temperature (.35 cu in/cycle)
- 14: New Downtube Packings made of Viton / Teflon for longer life
- 15. Air Inlet 1/8" NPT (f); Lube Outlet: 1/4" NPT (f)
- 16. Maximum Air Pressure: 150PSI; Recomended: 80-100PSI; Maximum Grease Pressure: 7500PSI;
- Recomended: 5000 PSI; Note: Pump life reduces considerably if operating above the recommended air
- 17. Two Year Warranty against Defective Materials, Workmanship and Labor

pressure.

- 18. All Pumps are Pressure Tested Statically and Dynamically in NLGI#2 Grease at the Factory for Output, Pressure, Performance and Quality
- 19: Additional Accessories Available: ATD5356 Grease Strainer for Pump Tube; ATD5253 "Z" Swivel for the
  - Control Valve; 66645ME Locking Swivel 1/4"(m) x 1/4"(f);
- 20: Optional Hoses Available(See Below):
- ATD5362 10ft(3.04mtrs) X 1/2" High Pressure Grease Hose
- ATD5363 20ft (6.09 mtrs)X 1/2" High Pressure Grease Hose
- ATD5364 30ft ((9.14mtrs)X 1/4" High Pressure Grease Hose
- ATD5365 40ft (12.2mtrs)X 1/4" High Pressure Grease Hose
- ATD5366 50ft (15.2mtrs) X 1/2" High Pressure Grease Hose
- 22: Other Information: BOX Weight and Dimensions: Weight: 55LBS (24.9KG); Length: 25.0"(63.5cm) X



21: Complete Repair Kits & Parts Available(See Below)

ATD5320: Simple Repair Kit for Grease Pumps ATD5221 ATD5322: Air Motor Repair Kit for ATD5221

ATD5323: Down Tube Repair Kit for ATD5221

Width:25.0"(63.5cm) X Height: 39.0"(100cm)

