



ATD-15286 Portable Air Operated Grease Pump Assembly With Bucket Owner's Manual



Features:

- The ultimate solution for high-pressure grease pumping
- Effortlessly dispenses grease up to 50 times the air inlet pressure
- All-metal construction with hardened, wear-resistant components ensures long-lasting reliability
- 2-1/2" diameter motor is driven by a reciprocating piston
- Strainer at the suction tube inlet ensures clean grease delivery to bearings
- Provides maximum grease output of 2.42 lbs./minute
- Recommended for use with grease up to NLGI No. 2
- Ideal as a part of mobile grease systems for workshops, farms, factories and construction sites

Specifications:

- Pressure Ratio: 50:1
- Working Pressure: 30-150 psi
- Max Air Pressure: 150 psi
- Max. Outlet Pressure: 7,500 psi
- Max. Grease Output: 61 GPM
- Bucket Capacity: 33 lbs.
- Air Inlet Connection: 1/4" (F)
- Pump Outlet Connection: 1/4" (F)
- Noise Level: 81 dB

Includes:

- 1/4" Threaded Grease Control Valve
- 84" High-Pressure Hose
- Drum Cover
- Follower Plate
- Suction Tube
- Pump
- Grease Bucket

ATD-15286

Portable Air Operated Grease Pump Assembly With Bucket

High Pressure Grease pump with guaranteed performance & hassle free operation.

Pump dispenses grease at pressures up to 50 times the air inlet pressure.

Designed to work in tough conditions - this pump is ideal for use in industry, in your workshop, farm, on a construction site, or as part of a mobile grease system.

All metal construction, fully CNC machined with hardened wear resistant moving parts.

Reciprocating piston operated 2-1/2" (63 mm) diameter air motor.

Fitted with strainer at suction tube inlet for clean grease to the bearing.

Supplied complete with drum cover, rubber lined follower plate, 7' (84") high pressure grease hose, swivel & professional grease control valve

WETTED COMPONENTS

Steel, Brass, Aluminum, Polyurethane & Nitrile Rubber

RECOMMENDED USE

With light and self collapsing grease up to NLGI No. 2

SPECIFICATIONS

Working Pressure	30-150 PSI	2-10 BAR
Maximum Air Pressure	150 PSI	10 BAR
Maximum Outlet Pressure	7,500 PSI	500 BAR
Air Inlet Connection	1/4" (F)	
Pump Outlet Connection	1/4" (F)	
Air Consumption	61 GPM	230 LPM
Grease Output (MAX.)	2.42 LBS/MIN.	1.10 KG/MIN.
Noise Level	81 db	

MODEL	BUCKET CAPACITY	
	(LBS)	(KG)
ATD-15286	33	15



WARNING

Pump must be supplied with clean & dry compressed air via an FRL unit

SAFETY INFORMATION

- Follow workshop health & safety rules, regulations and conditions when using the grease pump.
- Use genuine parts only. Unauthorized parts may be dangerous and will void the warranty.
- Wear approved safety gloves, eye and ear protection.
- Keep the pump clean and in good working order for best and safest performance.
- When not in use, disconnect from air supply and store in a safe, dry, childproof location.

WARNING!

- **DO NOT** use the pump for a task it is not designed to perform.
- **DO NOT** carry the pump by hose.
- Grease is delivered at high pressure.
- **DO NOT** point the grease outlet at yourself or others.
- **DO NOT** use grease pump if damaged or thought to be faulty. Contact your local service center.

PACKAGING CONTENT

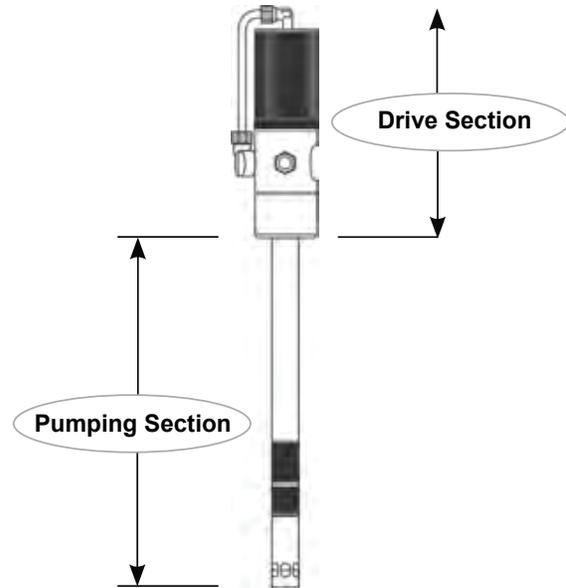
DESCRIPTION	QUANTITY
Grease Pump Assembly	1
Drum Cover	1
Rubber Lined Follower Plate	1
Steel Bucket with Cover Screws, Wheels & Pull Handle	1
High Pressure Rubber Hose	1
Professional Grease Control Valve with Z-Swivel	1
Owner's Manual	1

Note:

- **AIR MOTOR** of these pumps starts automatically when the grease control valve is opened. When the valve is closed, air motor builds up a back-pressure and stops operating the pumping section.
- **PRESSURE RATIO** of the pump states the ratio of the output grease pressure to the incoming air pressure. When the pressure ratio is 50:1, we achieve an output grease pressure up to 7500 PSI (500 BAR) when the incoming air pressure is 150 PSI (10 BAR)

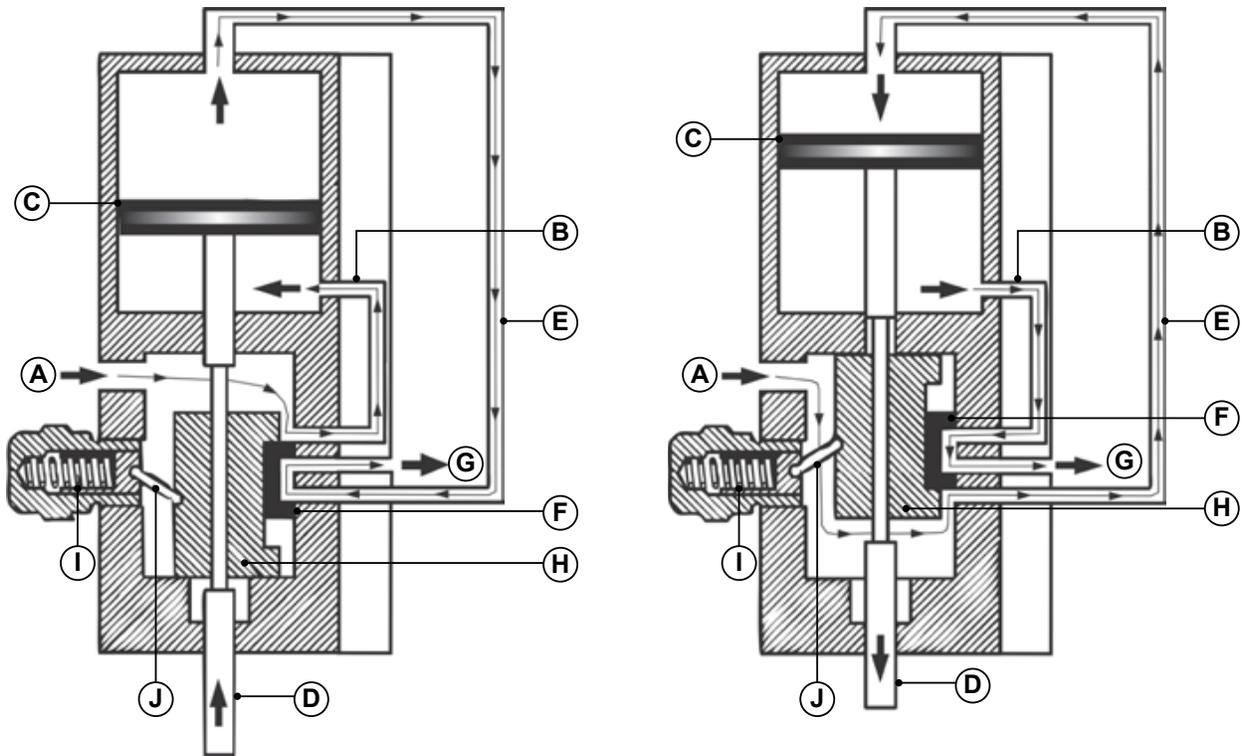
KNOW YOUR PUMP

The pump is made up of two sections:



- **Drive Section:** Consists of an air motor assembly driven by compressed air. The piston diameter of the air motor is 2.5" / 63 mm. The motor consists of an air cylinder with piston and one reciprocal valve with a nylon slider. The valve directs the compressed air alternately to the top or bottom of the piston, thus producing a reciprocating motion of the piston rod.
- **Pumping Section:** Consists of a pump in which a piston lifts the grease through non return valves by reciprocating inside the pump cylinder. The grease is discharged with pressure (from the outlet located at bottom of air motor) into the delivery hose.

PUMP OPERATION



UPSTROKE

When grease control valve is opened, compressed air enters at arrow A and passes through passage B to the underside of the piston C, driving the piston C and piston rod D upwards. The air above the piston is evacuated through passage E, past the slider valve F and out at arrow G.

The piston approaches top dead center and piston rod D makes contact with the slider rod H. Now the slider rod H starts moving up with the piston rod D.

DOWNSTROKE

The incoming air is now led via passage E to the upper side of piston C, driving it and the piston rod D downwards. The air under the piston C is evacuated through passage B, past the slider valve F and out at arrow G.

The piston approaches bottom dead center and piston rod D makes contact with the slider rod H. When slider rod H passes its center position, the pusher spring I and pusher button J, snap it over to its lower position.

The air motor repeats upstroke & downstroke in continuous cycle to produce a reciprocating motion, driven by compressed air. This motion is transferred via a connecting rod to the piston in the pumping section. During every upstroke, non return valves (with spring & ball check) get opened & the piston lifts the grease. During every downstroke, non return valves get closed & the piston discharges grease from the outlet valve. Closing the grease control valve shuts off the air motor & pump stops dispensing grease.

ASSEMBLY

Note: An FRL (Filter-Regulator-Lubricator) unit **must** be used in the air supply before it is connected to the pump. Set the regulator to 6 BAR (90 PSI) or any required inlet pressure, but never more than 150 PSI (10 BAR) or less than 30 PSI (2 BAR).

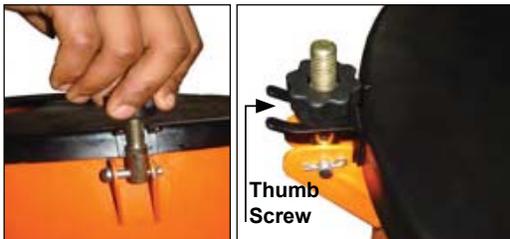
1. Fill the drum (64) with grease leaving empty space of about 2" from the top rim. Shake the drum after it is filled to remove air pockets. Place the follower (65) plate in the grease drum (64) with the lift handle facing upwards. Push the follower plate (65) down, until some grease is forced through the center hole on the plate.



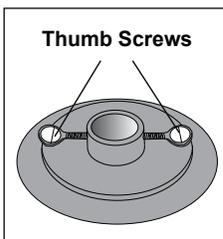
2. Place the drum cover (66) on the drum. Lift the pump assembly & slide the suction tube through the center hole in the follower plate (65).



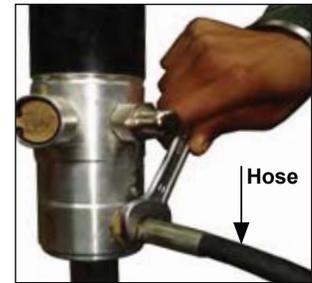
3. Push the pump assembly down until the bottom of the pump touches the base of the drum (64). Adjust the drum cover and tighten it with the thumb screws provided along with the drum cover (66).



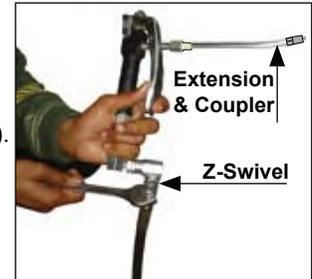
4. Tighten the drum cover (66) with the pump suction tube with the help of thumb screws.



5. Use a wrench to tighten high pressure hose (67) to the pump outlet.



6. Use a wrench to tighten the other end of the hose (67) to the Z-Swivel (68) of the grease control valve (69). Tighten the outlet extension (70) & coupler (71) to the control valve (69) outlet. Use thread sealant on all connections to ensure leak-proof working.



7. With the air supply turned off, connect the air line into the air inlet on the pump (use FRL).



PUMP OPERATION

1. Partially open the on/off air valve (it helps in creating initial vacuum when filling a totally dry pump). Pump will start operating automatically until it gets primed. Pump is said to be primed when grease is available at the pump outlet, making the pump ready to use. Once primed, the air motor will stop. Open the on/off air valve fully.

2. Hold the grease control valve (69) near a container & press the trigger. Pump will start operating with continuous grease discharge as long as the trigger is pressed. Release the trigger & this will stop the pump. Check for any leaks from any of the connections & tighten again if required.



3. Connect coupler (71) fitted onto the control valve extension (70) with the grease nipple & press trigger. Be careful not to over-lubricate as the pump will keep dispensing grease as long as the trigger is pressed. Once the trigger is released, pump will stop dispensing grease & the air motor will stop.
4. When not in use & at the end of each day, air supply to the pump must be switched off.

MAINTENANCE & REPAIR

(Reference Parts Drawings)

SERVICE PRECAUTIONS

- Before performing any service operation, always shut off the air supply and release the pressure of the medium, i.e. let the grease out so that the pressure decreases.
- When storing the pump assembly without the drum (64), cover the filter tube (57) with filter cap (62).
- Be careful not to damage any parts when dismantling. While removing shafts which do not have key flats, wrap a thick piece of cloth around the shaft before removing it with a pipe wrench, or the like. The easiest way to remove such a shaft is to grip it in a vice with aluminum or copper jaws, clamp the shaft in a hand-drill chuck and then turn the chuck by hand.
- Be careful when fitting O-rings and seals. Always lubricate them with oil or grease before fitting. They must never be threaded over sharp edges when being fitted. Lubricate all moving parts with oil or grease.
- When troubleshooting, be on a lookout for dirt in valves / ball seats, scratches in sealing surfaces & damaged O-rings / seals / gaskets.

PUMPING SECTION DISASSEMBLY AND REASSEMBLY

1. Hold the complete pump assembly in a vice & unscrew the filter tube (57). Prevent the piston rod (55) from rotating by inserting a rod through the side hole in piston rod. Remove the Nyloc nut (61) & piston washer (60).
2. Unscrew the bottom coupler (54) & remove slide bushing (53). Unscrew the top coupler (52) & remove lower steel ball (47), non return spring (48), valve (49) & both O-rings (50).
3. Unscrew the barrel (63). Drive out the lower slotted spring pin (44) taking care not to bend the extension rod (46).

4. Unscrew the pump cylinder (51) from extension rod (46). Remove upper steel ball (47) & non return spring (48).
5. Drive out the upper two slotted spring pins (44), unscrew the extension rod (46) and then connector (45).
6. Assemble by following the steps 1-5 in reverse order taking care of the points below:

- **Pump cylinder (51) has a pin-hole end that must face upwards; towards extension rod (46).**
- **Slide bushing (53) has a slotted end that must always face upwards; towards top coupler (52).**
- **When fitting plunger rod (9), connecting rod (43) & plunger nut (7), apply locking fluid on the threads.**
- **Replace component numbers 51, 52, 53 & 55 as a SET.**

DRIVE SECTION DISASSEMBLY & REASSEMBLY

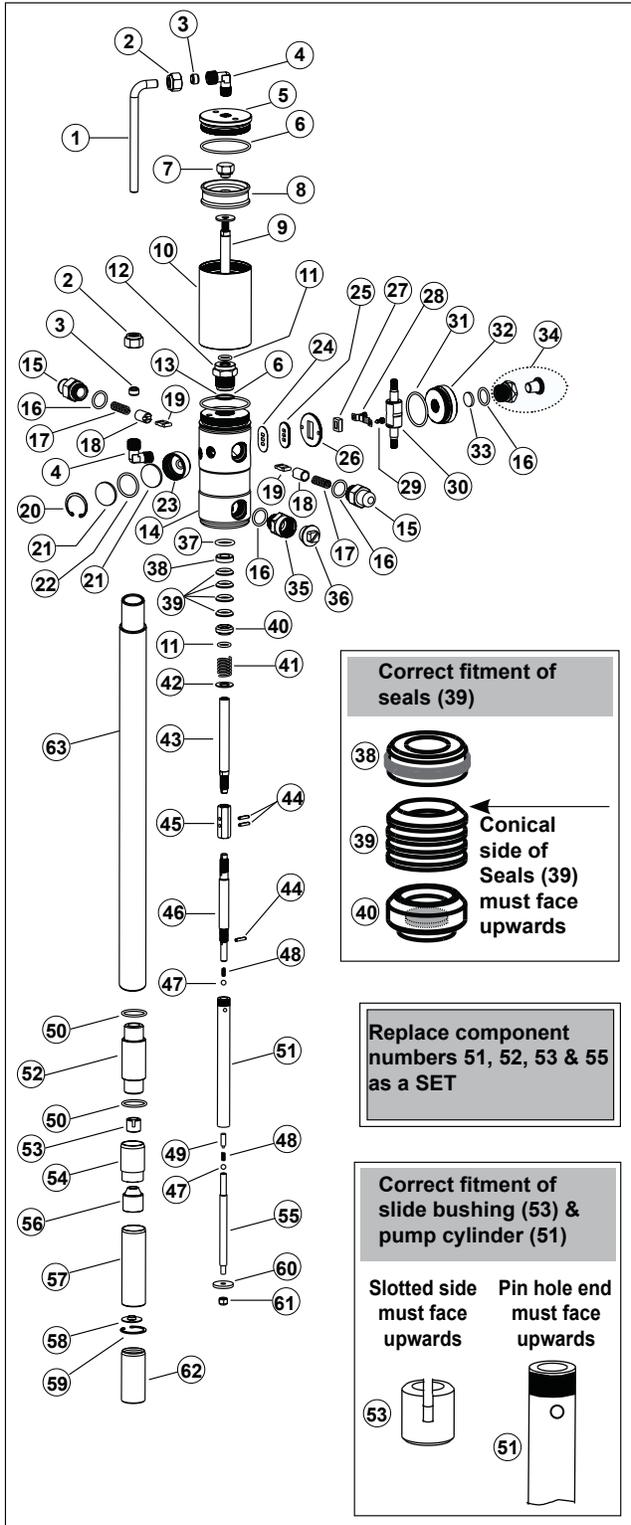
1. Remove bend pipe (1) by opening both the coupling nuts (2). Remove both sealing rings (3) & unscrew both bend pipes (4). Unscrew the cylinder cover (5) and cylinder (10).
2. Unscrew inlet cover (32) & dismantle the two pushers (15) with their pusher springs (17), pusher nuts (18) & pusher buttons (19).
3. Remove snap ring (20), both filters (21), O-ring (22) & exhaust valve (23).
4. Unscrew the plunger nut (7) and remove rubber plunger (8).
5. Unscrew plunger rod (9) from connecting rod (43) and remove slider (30). Remove slider guide (38), its outer O-ring (37), seals (39), seal support (40) & its inside O-ring (11).
6. Open the two screws (29) & remove clip (28), nylon slider (27), slider guide (26), seat (25) & paper seal (24).
7. For reassembly of air motor, follow the above mentioned steps 1-6 in reverse order taking care of the points below:

- **When fitting pushers (15), open inlet cover (32) & ensure correct installation of pusher buttons (19).**
- **The conical side of seals (39) must face upwards. Assemble slider guide (38), its outer O-ring (37), seals (39), seal support (40) & its inside O-ring (11). Hold them as a set & mount on connecting rod (43).**

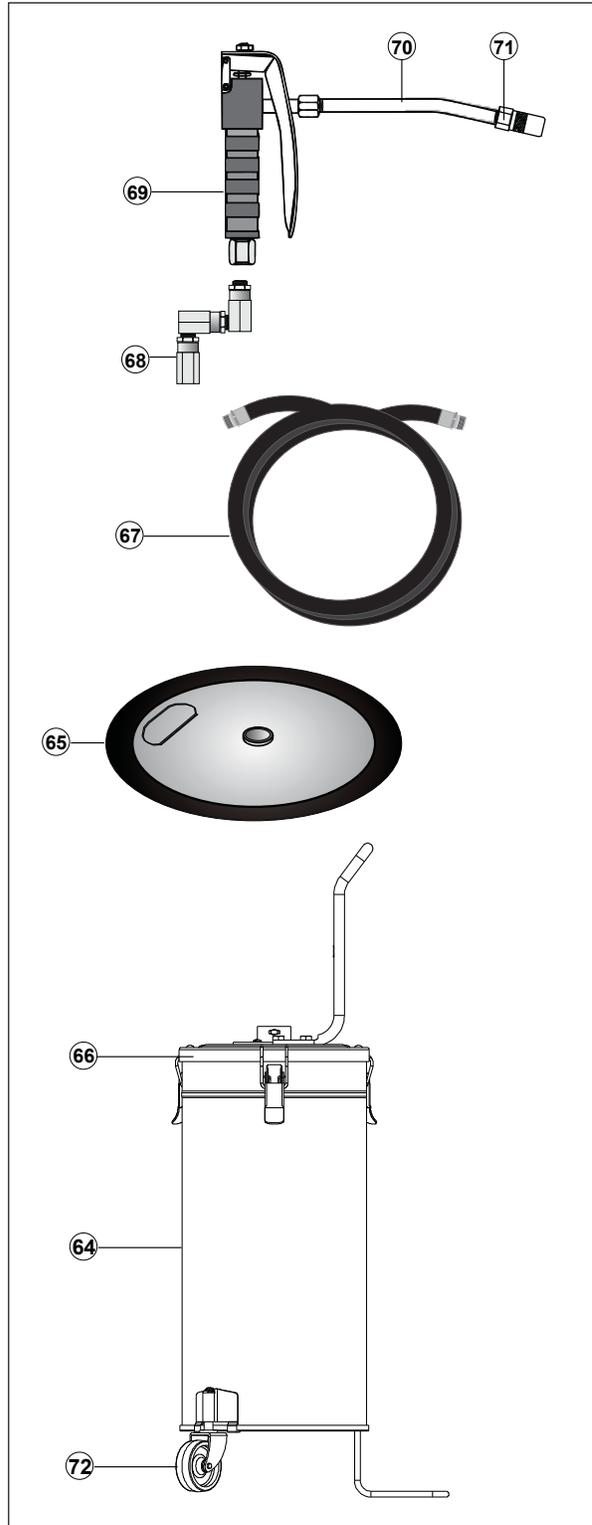
PART REFERENCE BREAKDOWN

Not all components of this product are replacement items, but are illustrated below as a convenient reference for position in the assembly sequence. When ordering parts from your distributor, please see page 18 for part numbers.

PUMP ASSEMBLY



Grease Bucket, Drum Cover, Follower Plate, Hose, Z-Swivel & Grease Control Valve



PARTS REFERENCE LIST FOR PUMP ASSEMBLY

REF. NO.	DESCRIPTION	QUANTITY
1	Bend Pipe	1
2	Coupling Nut	1
3	Sealing Ring	2
4	Bend Pipe	2
5	Cylinder Cover	1
6	O-Ring BS141	2
7	Plunger Nut	1
8	Rubber Plunger	1
9	Plunger Rod	1
10	Cylinder	1
11	O-Ring BS614	2
12	Rod Guide	1
13	O-Ring	1
14	Housing	1
15	Pusher	1
16	O-Ring BS617	4
17	Pusher Spring	2
18	Pusher Nut	2
19	Pusher Button	2
20	Snap Ring	1
21	Filter (B)	2
22	O-Ring BS121	1
23	Exhaust Valve	1
24	Paper Seal	1
25	Seat	1
26	Slider Guide	1
27	Nylon Slider	1
28	Clip	1
29	Self Tapping Screw	2
30	Slider	1
31	O-Ring BS129	1
32	Inlet Cover	1
33	Filter (B)	1
34	Air Inlet Adapter	1
35	Outlet Adapter	2
36	Adapter Cap	2

REF. NO.	DESCRIPTION	QUANTITY
37	O-Ring	1
38	Slider Guide	2
39	Seal	1
40	Seal Support	1
41	Spring	1
42	Washer	1
43	Connecting Rod	1
44	Slotted Spring Pin	1
45	Connector	1
46	Extension Rod	1
47	Steel Ball (7/32")	2
48	Non Return Spring	2
49	Valve	1
50	O-Ring (BS812)	2
51	Pump Cylinder	1
52	Top Coupler	1
53	Slide Bushing	1
54	Bottom Coupler	1
55	Piston Rod	1
56	Guide Bushing	1
57	Filter Tube	1
58	Filter Washer	1
59	Filter Snap Ring	1
60	Piston Washer	1
61	Nyloc Nut	1
62	Filter Cap	1
63	Barrel	1
64	Drum	1
65	Follower Plate	1
66	Drum Cover	1
67	High Pressure Hose	1
68	Z-Swivel	1
69	Grease Control Valve	1
70	Extension	1
71	Coupler	1
72	Caster	2

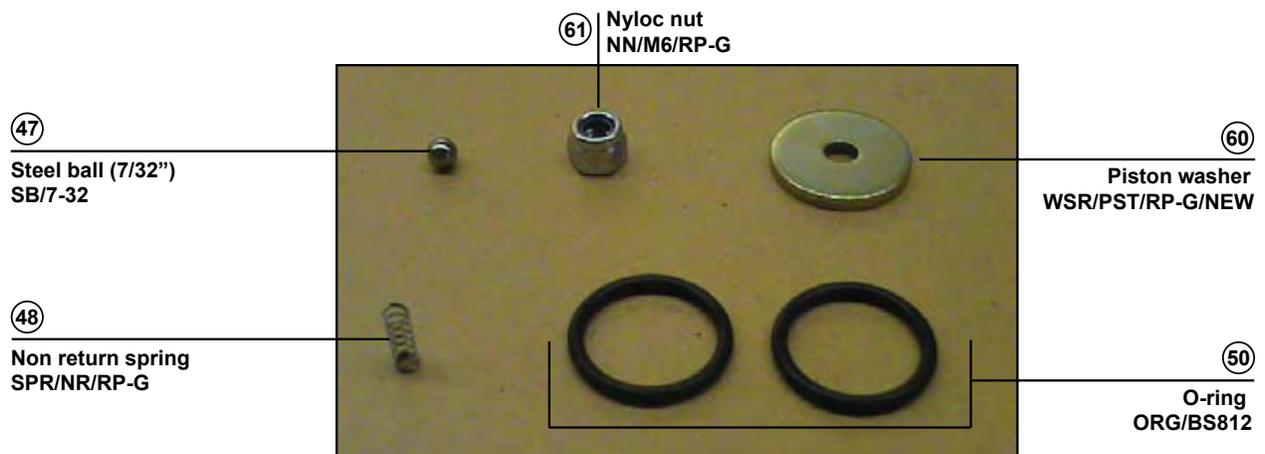
PUMP REPAIR & SPARE PARTS

(Reference "PUMP ASSEMBLY" ON PAGE 7 & 8)

SERVICE PRECAUTIONS

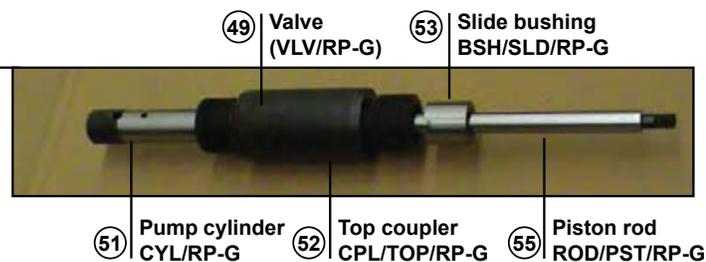
- Before performing any service operation, always shut off the air supply and release the pressure of the medium, i.e. let the grease out so that the pressure decreases. When storing the pump assembly without the bucket, cover the filter tube (57) with filter cap (62).
- Be careful not to damage any parts when dismantling. While removing shafts which do not have key flats, use a pipe wrench or similar. The easiest way to remove such a shaft is to grip it in a vice with aluminum or copper jaws, clamp the shaft in a hand-drill chuck and then turn the chuck by hand.
- Be careful when fitting O-rings and seals. Always lubricate them with grease before fitting. They must never be threaded over sharp edges when being fitted. Lubricate all moving parts with synthetic grease. Apply minor locking fluid on all threaded joints.
- When repairing, be on a lookout for dirt in valves / ball seats, scratches in sealing surfaces & damaged O-rings / seals / gaskets.

BOTTOM KIT - PRT15286-02



Rod & cylinder assembly ROD/CYL/RP-G

Components ④⑨ ⑤① ⑤② ⑤③ ⑤⑤
must be replaced
TOGETHER even if only one
of these component need
replacement



⑥② Filter cap
IC/FLT/RP-G



KIT PART NO.	KIT DESCRIPTION	PART DESCRIPTION	REFERENCE NO. FROM EXPLODED VIEW	QTY. PER KIT
PRT15286-02	BOTTOM KIT (KIT/BTM/RP-G)	Steel Ball (7/32")	47	1
		Non Return Spring	48	1
		O-Ring	50	2
		Valve (VLV/RP-G)	49	1
		Pump Cylinder (CYL/RP-G)	51	1
		Top Coupler (CPL/TOP/RP-G)	52	1
		Slide Bushing (BSH/SLD/RP-G)	53	1
		Piston Rod (ROD/PST/RP-G)	55	1
		Guide Bushing	56	1
		Piston Washer	60	1
		Nyloc Nut	61	1
		Filter Cap	62	1

BOTTOM KIT INSTALLATION INSTRUCTIONS

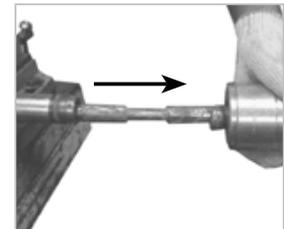
1. Hold barrel (63) in a soft-jaw vice. Pull out filter cap (62) by hand.



2. Unscrew Nyloc nut (61) using a 10mm T-handle & also remove piston washer (60) from the end of filter tube (57).



5. Tighten a 1/2" male threaded pipe into the outlet port & unscrew air motor assembly counterclockwise. Carefully remove air motor from barrel (63)



3. Unscrew top coupler (52) using a 28mm wrench on the given flats. Remove lower coupler assembly.



Lower coupler assembly →

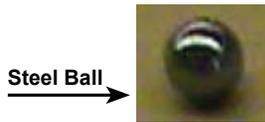
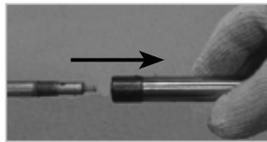


6. Support pump cylinder (51) on a V block & insert a pin punch vertically into the hole of pump cylinder (51). Tap lightly with a hammer to drive out lower slotted spring pin (44) taking care not to bend the extension rod (46).



4. Remove the outlet adapter (35) using a 25mm wrench.

7. Unscrew pump cylinder (51) & remove upper Steel Ball (47) & Non Return Spring (48).



Non return Spring



9. Unscrew bottom coupler (54) with a 28mm wrench & remove guide bushing (56).



8. Hold filter tube (57) in vice. Using two 28mm wrenches, hold bottom coupler (54) & unscrew top coupler (52). Remove slide bushing (53).



10. Replace the bottom kit (PRT15286-02)

Reassemble the pump by following the steps 1-9 in reverse order taking care of the points below:

- Pump cylinder (51) has a pin-hole end that must face upwards; towards extension rod (46).
- Slide bushing (53) has a slotted end that must always face upwards; towards top coupler (52).
- Replace part numbers 49, 51, 52, 53 & 55 **TOGETHER** as a set even if there is a need to replace only one of these parts. Apply minor grease on all the moving parts before assembly. Also, ensure movement of part 49, 51, 52 & part 53, 55 is smooth.



TOP KIT - PRT15286-01

④ Bend Pipe BEND/90/RP ③⑨ Seal SEAL/RP
 ④③ Connecting Rod ROD/CNR/S/RP ③ Sealing Ring SR/B/RP
 ②④ Paper Seal SEL/P/RP
 ②⑤ Seat SET/RP ②⑦ Nylon Slider SLD/NY/RP
 ②② O-Ring ORG/BS121 ②③ Seal Guide GUD/SEL/RP ④④ Slotted Spring Pin SSP/3/0.6/15.3
 ③① O-Ring ORG/BS129 ④① Seal Support SU/SEL/RP
 ③ O-Ring ORG/BS141 ⑧ Rubber Plunger PGR/RP
 ①⑥ O-Ring ORG/BS617 ③⑦ O-Ring ORG/BS115
 ①① O-Ring ORG/BS614

Replace Component No. 24, 25 & 27 as a SET

O-Ring (37) is assembled over Seal Guide (38)

O-Ring (11) is assembled into Seal Support (40)

KIT PART NO.	KIT DESCRIPTION	PART DESCRIPTION	REFERENCE NO. FROM EXPLODED VIEW	QTY. PER KIT
PRT15286-01	TOP KIT (KIT/TP/RP-G)	Sealing Ring	3	2
		Bend	4	2
		O-Ring	6	2
		O-Ring	11	1
		O-Ring	16	4
		O-Ring	22	1
		Paper Seal	24	1
		Seat	25	1
		Nylon Slider	27	1
		O-Ring	31	1
		O-Ring	37	1
		Seal Guide	38	1
		Seal	39	4
		Seal Support	40	1
		Connecting Rod	43	1
		Slotted Spring Pin	44	3
		Rubber Plunger	8	1

TOP KIT INSTALLATION INSTRUCTIONS

1. Hold Barrel (63) in a soft-jaw vice. Pull out filter cap (62) by hand.



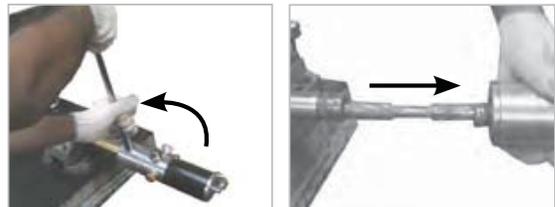
2. Unscrew Nyloc Nut (61) using a 10mm T-handle & also remove Piston Washer (60) from the end of filter tube (57).



3. Remove the outlet adapter (35) using a 25mm wrench.



4. Tighten a 1/2" male threaded pipe into the outlet port & unscrew air motor assembly counterclockwise. Carefully remove air motor from barrel (63).



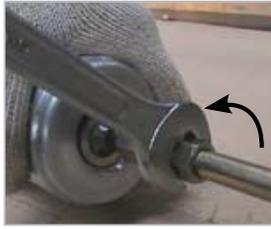
5. Support extension rod (46) on a V block & insert a pin punch vertically into the hole of connector (45).



Tap lightly with a hammer to drive out upper slotted spring pin (44) taking care not to bend extension rod (46).



6. Unscrew connector (45) with a 14mm wrench and separate air motor assembly from extension rod (46).



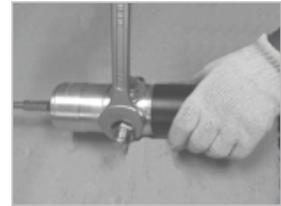
12. Connect a caliper wrench into the holes on inlet cover (32) & unscrew it.



7. Hold air motor assembly in a soft-jaw vice. Loosen both coupling nuts (2) using a 21mm wrench.



13. Unscrew both pushers (15) using a 25mm wrench.



8. Remove bend pipe (1) along with both coupling nuts (2) & sealing rings (3). Unscrew exhaust valve (23) with an adjustable wrench.



14. Remove both pushers (15), pusher spring (17), pusher nuts (18) & pusher buttons (19).



9. Unscrew both bend pipes (4) using a 13mm wrench.



15. Using two 10mm wrenches, hold plunger rod (9) & turn connecting rod (43) counterclockwise. This will unscrew connecting rod (43). Open plunger nut (7) to remove rubber plunger (8).



10. Lightly tap cylinder (10) with a plastic hammer & unscrew it.



16. Remove connecting rod (43) along with steel washer (42), spring (41), seal support (40), seals (39) & seal guide (38).



11. Unscrew air inlet adapter (34) using a 25mm wrench.



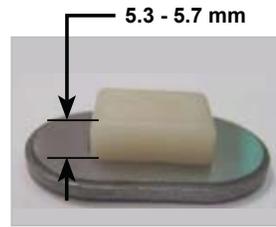
If connecting rod (43) is still attached to the inner rod of slider (30), hold the inner rod in a vice & unscrew connecting rod (43) with a 10mm wrench.



17. Remove slider (30) with a tweezers.



- Ensure that height of nylon slider (27) is approx. 5.3 - 5.7 mm. Also, hollow portion of nylon slider (27) should rest evenly on top of seat (25).



18. Open the two self tapping screw (29) with a Philips screwdriver & remove clip (28)



- When fitting pushers (15), see through inlet cover (32) & ensure pusher buttons (19) are installed in center position. Also ensure that clip (28) is tight & nylon slider (27) moves smoothly.



19. Remove nylon slider (27).



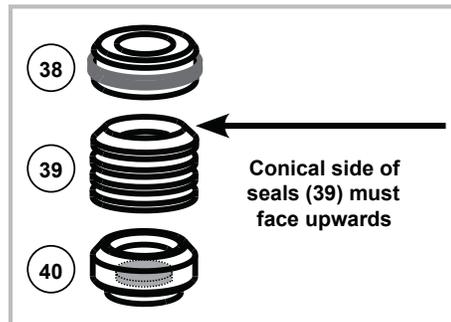
- When fitting plunger rod (9) & connecting rod (43), apply locking fluid on the inner rod of slider (30).



20. Remove slider guide (26).



- The conical side of seals (39) must face upwards. Assemble them with seal guide (38), seal support (40) & mount them as a set on connecting rod (43).



21. Remove seat (25) & paper seal (24). Clean the bottom surface thoroughly.



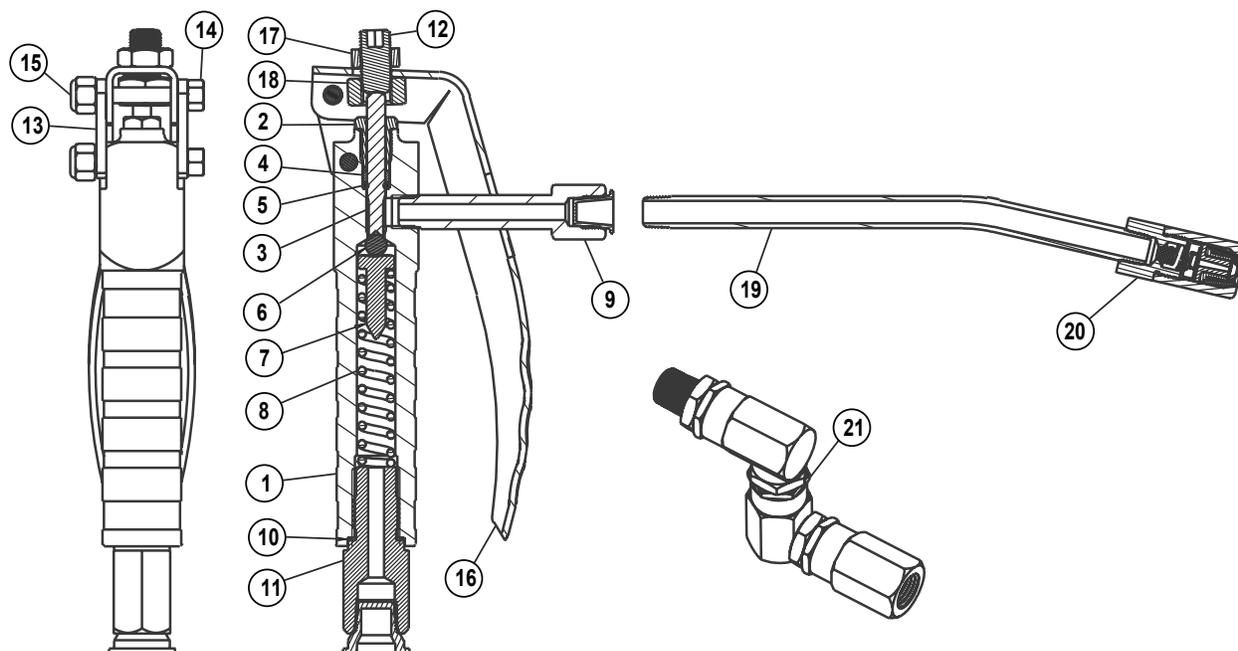
22. Replace the repair kit (PRT15286-01) Reassemble the pump by following the steps 1-21 in reverse order heeding the following points:6

- Ensure all mating surfaces are clean before reassembly. Apply minor grease on all mating surfaces, O-rings & moving parts before reassembly.



Clean & apply grease

CONTROL VALVE EXPLODED VIEW



PART LIST

REF NO.	PARTS DESCRIPTION	QTY.
1	Valve Body	1
2	Rod Guide	1
3	Piston	1
4	Teflon Washer	1
5	O-Ring	1
6	Steel Ball	1
7	Ball Retainer	1
8	Straight Spring	1
9	Valve Outlet	1
10	Brass Washer	1
11	Valve Inlet	1

REF NO.	PARTS DESCRIPTION	QTY.
12	Grub Screw	1
13	Side Clip	2
14	Rivet	2
15	Nyloc Nut	2
16	Handle	1
17	Lock Nut	1
18	High Nut	1
19	Extension (Rigid)	1
20	Coupler	1
21	Z-swivel	1

CONTROL VALVE REPAIR INSTRUCTIONS
(Reference “Control Valve Exploded View” on page 15)

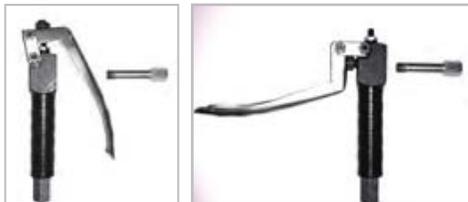
PRT15286-03 REPAIR KIT INCLUDES:

DESCRIPTION	REF NO.	QTY
Piston	3	1
Rod Guide	2	1
Brass Washer	10	1
Ball Retainer	7	1
Steel Ball	6	1
O-Ring	5	1
Teflon Washer	4	1

1. Disconnect the extension (19) from the outlet valve (9).



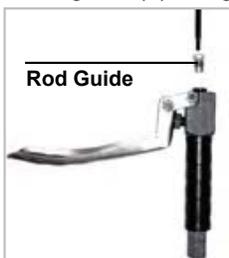
2. Disconnect the outlet valve (9) from the valve body (1), this will make the handle (16) move freely.



3. Pull out the piston (3) from the top of the grease control valve.



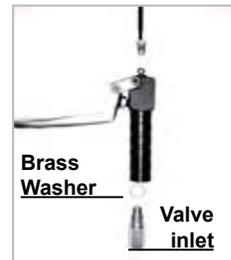
4. Unscrew the Rod guide (2) using an 11mm wrench.



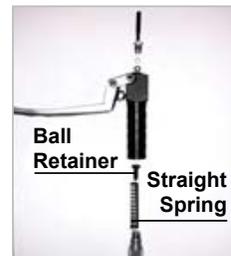
5. Take out the Teflon washer (4) and O-ring (5) by tapping the grease control valve on the floor from the top side or with the help of scriber.



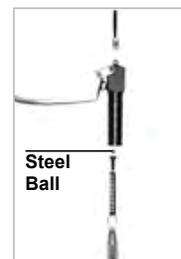
6. Now unscrew the valve inlet (11) and remove the brass washer (10) from the bottom of the inlet using a scriber.



7. Remove the straight spring (8) along with the ball retainer (7).



8. Tap the grease control valve on the floor from the bottom side to take out the steel ball (6).



9. Replace the old parts with new parts (Piston, Rod guide, Teflon washer, O-Ring, Brass washer, Ball retainer, Steel ball) from the repair kit.
10. Reassemble the grease control valve by following the steps from 1 to 8 in reverse order.
11. This completes the replacement of repair kit.

CAUTION

- Use thread sealants while reassembling the grease control valve.

PUMP TROUBLESHOOTING - REFER TO PARTS REFERENCE BREAKDOWN ON PAGE 7

PROBLEM	POSSIBLE CAUSE	SOLUTION
Pump operates, but does not dispense any grease	Grease is too thick / too cold	Store grease in a warm place
	Air pockets in grease	Shake the grease bucket (64) & manually force down the follower plate (65) to remove air pockets
	Dent in the grease bucket (64) restricting movement of follower plate (65) leading to formation of air pockets in the bucket and inefficient working	Get the dent removed to ensure proper movement of Follower Plate (65)
Pump not working / less discharge	Inlet pressure is not high enough	Increase inlet pressure. It must be at least 30 PSI (2 BAR)
	Nylon slider (27) is jammed / overtight	<ol style="list-style-type: none"> Loosen both screws (29) & remove clip (28). Check for any build-up edge on clip (28) & tighten it again. Make sure the movement of nylon slider (27) is neither very loose nor very tight If needed, replace nylon slider (27). Also replace the paper seal (24), seat (25), slider guide (26) & clip (28) to ensure the best fitting
	Piston / Piston Rod / Plunger jammed. NOTE: Especially check extension rod (46), cylinder (51), top coupler (52), slide bushing (53) & piston rod (55)	<ol style="list-style-type: none"> Remove suction tube. Disconnect air motor assembly from pumping section by removing the upper two slotted spring pins (44) from connector (45) Supply input air to air motor. If it works properly without the barrel assembly, then the problem lies with the pumping section. Otherwise check the air motor for smooth movement After locating the faulty section, check the respective piston / plunger & the associated washers & seals for any overlap or wear & tear. Replace the defective parts from repair kit Ensure to replace the moving parts having close tolerances (such as piston & cylinder along with non return springs & balls) AS A SET to ensure the best fitting
Pump continues to operate even after the trigger of grease control valve (69) has been released	Leakage in the assembly	Check all the connections to ensure they are air tight. Use thread sealant Check O-rings & seals for damage. Replace the defective parts from repair kit
Grease comes through the air exhaust valve (23)	Grease leaks into the air motor	Check slider guide (38), O-ring (37), lower O-ring (11), seals (39) & seal support (40) for wear & tear. Replace the damaged parts from repair kit
Air passes directly from inlet to the outlet & pump does not work	Nylon slider (27) is jammed / overtight	<ol style="list-style-type: none"> Loosen both screws (29) & remove clip (28) . Check for any build-up edge on clip (28) & tighten it again. Make sure the movement of nylon slider (27) is neither very loose nor very tight If needed, replace nylon slider (27). Also replace the paper seal (24), seat (25), slider guide (26) & clip (28) to ensure the best fitting
Discharge suddenly stopped while the pump was running	Seals / O-rings damage	Check all seals / O-rings & replace the damaged parts from repair kit
	Chip / other foreign particles get clogged at discharge coupler	Open the coupler, remove all foreign particles / chips & reassemble properly
	Clogging of filter tube (57)	Open filter tube (57), clean it & reassemble it properly

CONTROL VALVE TROUBLESHOOTING - REFER TO CONTROL VALVE EXPLODED VIEW ON PAGE 15

PROBLEM	POSSIBLE CAUSE	SOLUTION
Grease flows without pressing the handle (16)	Grub screw (12) on top of the valve has been over-tightened, resulting in constant opening of the valve	Loosen the grub screw (12) by rotating it in the counterclockwise direction.
	Damaged ball inside the valve body (1)	Replace the steel ball with the one in the PRT15286-03 control valve repair kit, or replace the PRT15286-09 grease control valve.
No grease flow when valve handle (16) is pressed	Grub screw (12) on top of the valve may have become too loose	Tighten the grub screw (12) by rotating it in the clockwise direction.
	Valve may be blocked due to impurities in grease	Disconnect the grease supply hose from valve inlet (11) and carefully clean the valve using compressed air.
Grease leaking from top of the valve	Worn seal inside the valve body (1)	Replace the steel ball with the one in the PRT15286-03 control valve repair kit, or replace the PRT15286-09 grease control valve.

DISPOSAL

Please follow local laws and guidelines concerning the disposal of the components or the used products from this unit.

REPLACEMENT PARTS

Not all components of this product are replacement items, but are illustrated as a convenient reference for position in the assembly sequence. When ordering parts, give model number, part number and description. Call your distributor for current pricing:

ITEM#	ORDERING PART#	DESCRIPTION
3, 4, 6, 8, 11, 16, 22, 24, 25, 27, 31, 37, 38, 39, 40, 43 & 44	PRT15286-01	TOP KIT (SA/KIT/TP/RP-G)
47, 48, 49, 50, 51, 52, 53, 55, 56, 60, 61 & 62	PRT15286-02	BOTTOM KIT (SA/KIT/BTM/RP-G)
2, 3, 4, 5, 6, 7 & 10	PRT15286-03	CONTROL VALVE REPAIR KIT (KIT/APG-04)
67	PRT15286-04	HOSE (ZHOS/GRP/84/NPT)
65	PRT15286-05	FOLLOWER PLATE (SA/FLP/R/195-225)
71	PRT15286-06	COUPLER (HC/12/4/B)
70	PRT15286-07	EXTENSION (GBP/6/N)
72	PRT15286-08	CASTERS (SPC/WEL/WOD)
69	PRT15286-09	GREASE CONTROL VALVE (APG/04/1-4F/N)
68	PRT15286-10	Z-SWIVEL FOR GREASE CONTROL VALVE (HFC/1-4F/1-4M/N)



THIS WARRANTY AND CONFIRMED RECEIPT(S) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

PURCHASED FROM: _____

DATE PURCHASED: _____

INVOICE/RECEIPT NUMBER: _____

Your ATD-15286 is warranted for a period of 12 months from the original purchase date.

For a period of one (1) year from your purchase date, ATD Tools, Inc. will repair or replace (at its option) without charge, your ATD product if it was purchased new and the product has failed due to a defect in material or workmanship which you experienced during normal use of the product. This limited warranty is your exclusive remedy.

To access the benefits of this warranty, contact your supplier, or point of sale directly. You may be advised to return the product under warranty, freight prepaid, to your supplier for warranty determination.

If this ATD product is altered, abused, misused, modified, or undergoes service by an unauthorized technician, your warranty will be void. We are not responsible for damage to ornamental designs you place on this ATD product and such ornamentation should not cover any warnings or instructions or they may void the warranty. This warranty does not cover scratches, superficial dents, and other abrasions to the paint finish that occur under normal use. It also does not cover normal wear items such as but not limited to brushes, batteries, drill bits, drill chucks, pads or blades.

Subject to the law in your state:

- (1) Your sole and exclusive remedy is repair or replacement of the defective product as described above.
- (2) ATD is not liable for any incidental damages, including but not limited to, lost profits and unforeseeable consequences.
- (3) The repair and replacement of this product under the express limited warranty described above is your exclusive remedy and is provided in lieu of all other warranties, express or implied. All other warranties, including implied warranties and warranties of merchantability or fitness for a particular purpose are disclaimed and, if disclaimer is prohibited, these warranties are limited to one year from your date of purchase of this product.

Some states' laws do not allow limited durations on certain implied warranties and some states' laws do not allow limitations on incidental or consequential damages. You should consult the law in your state to determine how your rights may vary.

[Affix receipt or invoice here for safe keeping]