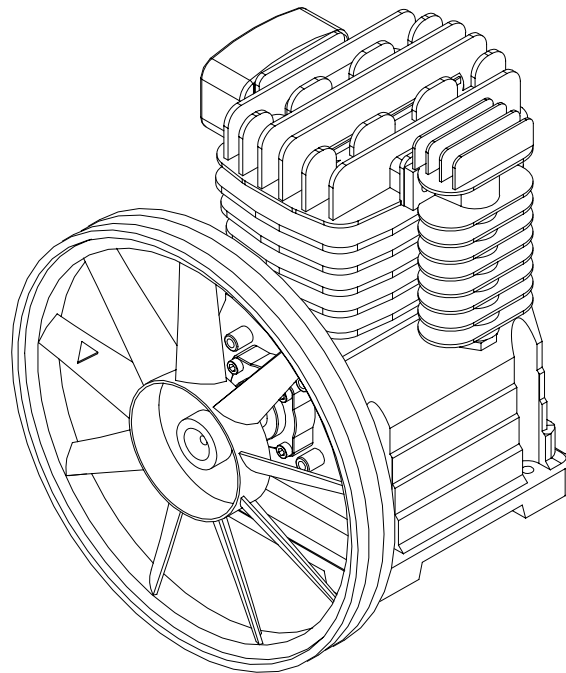




# Air Compressor Pump Item # 45929 & 45930

M35982F

## OWNER'S MANUAL



<b>Quick Facts</b>	
Pump Oil	Check pump oil level before starting. Use Non-detergent pump oil (item # 35605).
Maximum RPM	45929: 1570 RPM (700 RPM Minimum) 45930: 1450 RPM (700 RPM Minimum)
Minimum Horsepower	45929: 5.0 hp gas engine, 3.0 hp electric motor 45930: 5.5 hp gas engine, 4.0 hp electric motor
Displacement	45929: 11.3 CFM 45930: 16.9 CFM
CFM @ 90 psi	45929: 8.2 45930: 13.2
Rotation	Pump crankshaft <b>MUST</b> rotate in direction of arrow cast into flywheel.
Drive Belt	Flywheel requires "A" style belt
Air Flow	Belt guard <b>MUST</b> allow maximum air flow past pump.

**Any Questions, Comments, Problems, or Parts Orders**  
***Call NorthStar Product Support 1-800-270-0810***

## **THANK YOU**

Thank you for purchasing a NorthStar compressor pump. Your pump is designed for long life, dependability, and the top performance you demand. Please take time now to read through this manual so you can better understand the pump's safety precautions. Everyone who uses this pump must read and understand this manual. Enjoy the exceptional performance of your NorthStar pump.

## **IMPORTANT**

**Make certain the operator:**

- Reads and understands the manuals pertaining to this tank.
- Is instructed in safe and proper operation of this air compressor tank.

## **NOTICE**

Northern Tool + Equipment reserves the right to make improvements in design and/or changes in specifications at any time without incurring any obligation to install them on units previously sold.

## **WARNINGS**

**ALWAYS** bleed pressure from tank before servicing.

**ALWAYS** use air handling parts that are rated above the maximum allowable working pressure of the tank.

**ALWAYS** drain tank daily or after each use. Rusted tanks can cause explosion and cause severe injury or death.

**ALWAYS** read your owners manual before operating.

**ALWAYS** use at least one ASME safety relief valve rated at 200 psi or below.

**ALWAYS** use an ASME certified air receiver tank.

**ALWAYS** use Teflon tape on all threads to reduce leaks.

**NEVER** exceed the nameplate rating of the tank (200 psi working pressure). Exceeding this rating can cause explosion and cause severe injury or death.

**NEVER** operate machine without a belt guard in place.

**NEVER** bypass, modify, or remove safety/relief valves.

**NEVER** direct air stream at people or animals

**NEVER** modify or repair tank, obtain an ASME replacement from a service center or Product Support at 1-800-270-0810.

**NEVER** breathe receiver air. Can contain **Carbon Monoxide** or other contaminants. Will cause serious injury or death.

NorthStar air compressor tanks are not designed for breathing air.

# COMPRESSOR LUBRICATION

**CAUTION!** Do not operate without lubricant or with inadequate lubricant.  
Use of compressor without lubricant or inadequate lubricant voids all warranties.

## Synthetic Lubricants

Synthetic lubricants are recommended after 50 hour break-in. Compressor life is greatly increased with the use of synthetic lubricants. **CAUTION!** If you will be using synthetic lubricant, all downstream piping material and system components must be compatible.

**Suitable** Viton®, Teflon®, Epoxy (Glass Filled), Oil Resistant Alkyd, Fluorosilicone, Fluorocarbon, Polysulfide, 2-Component Urethane, Nylon, Delrin®, Celcon®, High Nitrile Rubber (Buna N. NBR more than 36 Acrylonite), Polyurethane, Polyethylene, Epichlorohydrin, Polyacrylate, Melamine, Polypropylene, Baked Phenolics, Epoxy, Modified Alkyds  
(® indicates trademark of DuPont Corporation)

## Not Recommended

Neoprene, Natural Rubber, SBR Rubber, Acrylic Paint, Lacquer, Varnish, Polystyrene, PVC, ABS, Polycarbonate, Cellulose Acetate, Latex, EPR, Acrylics, Phenoxy, Polysulfones, Styrene Acrylonitile (San), Butyl

## Alternate Lubricants.

You may use petroleum-based lubricant that is premium quality, does not contain detergents, contains only anti-rust, anti-oxidation, and anti-foam agents as additives, has a flashpoint of 440°F (227°C) or higher, and has a auto-ignition point of 650°F (343°C) or higher.

See the petroleum lubricant viscosity table below. The table is intended as a general guide only. Heavy duty operating conditions require heavier viscosities. Refer specific operating conditions to NorthStar Product Support at 1-800-270-0810

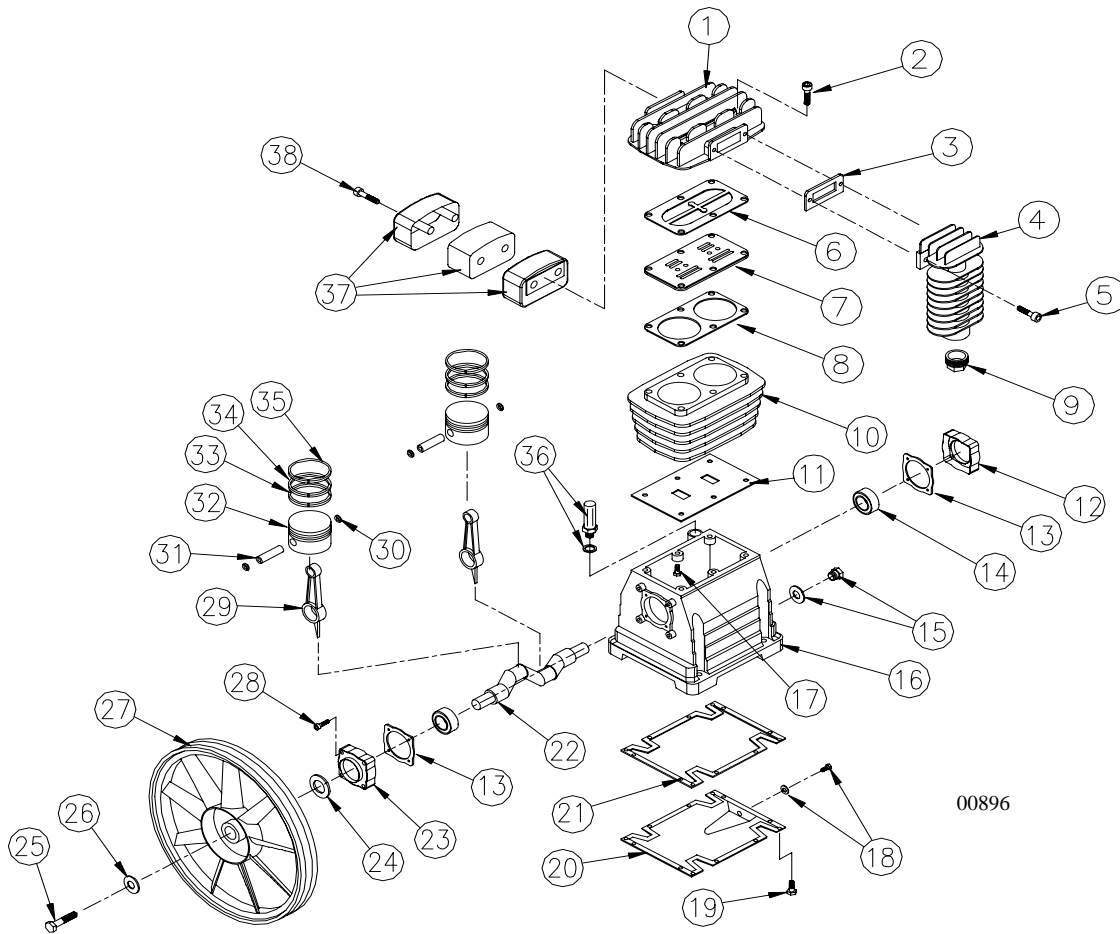
Temperature around Compressor	Viscosity Grade	
	ISO	SAE
Below 40°F (4°C)	100	30
40°F to 80°F (4°C to 27°C)	100	30
80°F to 100°F (27°C to 37°C)	150	40

## Pump Capacities.

Refer to the following table for crankcase capacity

Item #	Crankcase Capacity
45929	24 oz.
45930	36 oz.

# 779100 & 779101 Pump Assembly

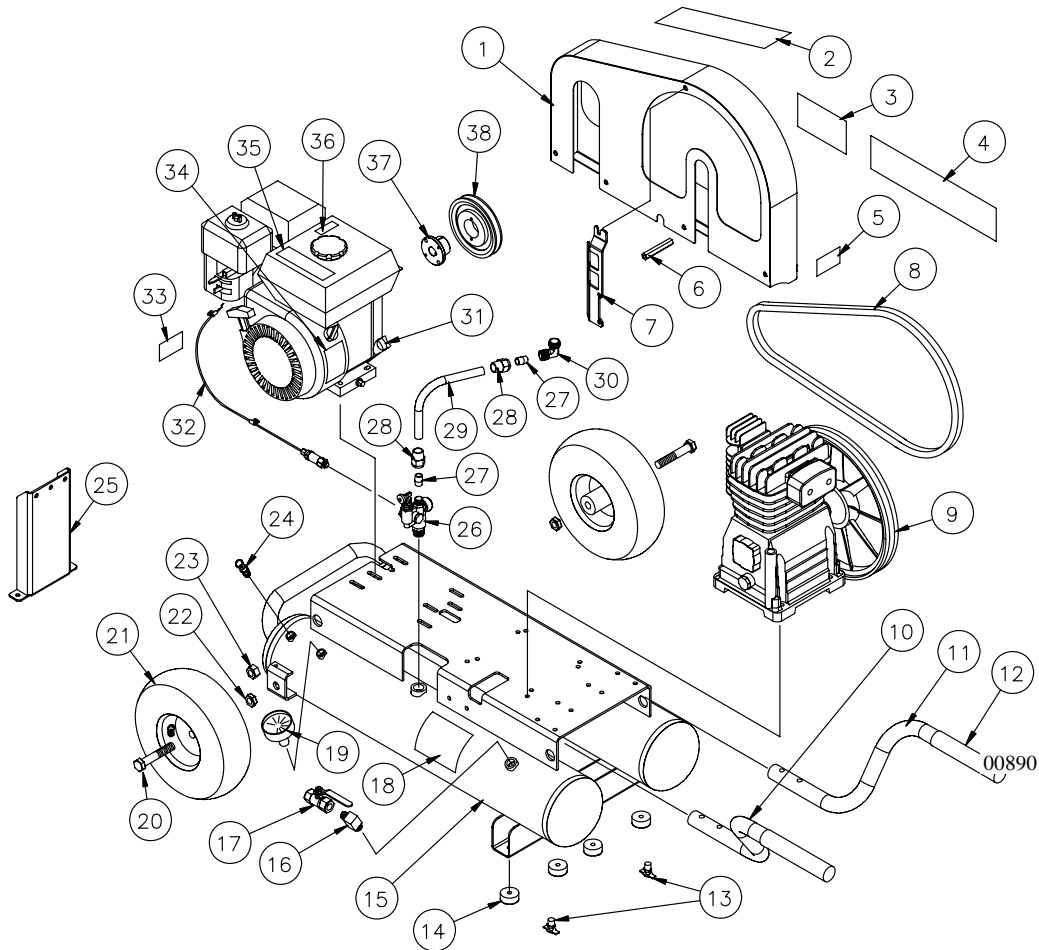


Ref	Description	Model	Part #	Qty
1	Head	45929	AB2860400	1
		45930	AB3860400	1
2	Head Bolt (M8 x 45mm SHCS)	ALL	AB9101594	6
3	Aftercooler Gasket	ALL	AB3670200	1
4	Aftercooler, 118mm	ALL	AB2870100	1
5	Aftercooler Bolt (M6 x 20mm SHCS)	ALL	AB9101144	2
6	Head Gasket	ALL	AB2850400	1
7	Valve Plate Assembly	ALL	AB2840050	1
8	Cylinder Gasket	ALL	AB2850300	1
9	Reducer	ALL	AB9050283	1
10	Cylinder	45929	AB2830000	1
		45930	AB3630000	1
11	Crankcase Gasket	ALL	AB3650201	1
12	Cover N.D.E.	ALL	AB2060690	1
13	Bearing Cover Gasket	ALL	AB2050500	2
14	Bearing	ALL	AB9170030	2
15	Oil Sight Glass	ALL	AB9022001	1
16	Crankcase	45929	AB2860100	1
		45930	AB3660100	1
17	Cylinder Bolt (M6 x 20 mm SHCS)	ALL	AB9107254	6
18	Oil Drain Plug	ALL	AB9101154	1
19	Crankcase Bottom Bolt (M5 x 15mm HHCS)	ALL	AB9119273	8
20	Oil Pan	45929	AB2660160	1
		45930	AB3660160	1

Ref	Description	Model	Part #	Qty
21	Oil Pan Gasket	45929	AB2650101	1
		45930	AB3650100	1
22	Crankshaft	45929	AB2860200	1
		45930	AB3660200	1
23	Cover D.E.	ALL	AB2060590	1
24	Oil Seal	ALL	AB9163010	1
25	Screw, Reverse Thread	ALL	AB9110014	1
26	Flywheel Washer	ALL	AB9004008	1
27	Flywheel, 280 mm	45929	AB2600100	1
		45930	AB3600100	1
28	Bearing Housing Bolt (M6 x 15mm SHCS)	ALL	AB9101094	8
		45929	AB2810100	2
29	Connecting Rod	45930	AB3610100	2
		ALL	AB9140040	4
30	Circlip	ALL	AB9140040	4
31	Pin	ALL	AB3021200	2
32	Piston	45929	AB1421100	2
		45930	AB1021100	2
33	Piston Ring, ROF	ALL	AB9020071	1
34	Piston Ring, ROS	ALL	AB9020041	1
35	Piston Ring, AC	ALL	AB9020011	1
36	Breather Cap	ALL	AB9024003	1
37	Filter Assembly	ALL	AB2281000	1
38	Filter Assembly Bolt (M6 x 30mm SHCS)	ALL	AB9114279	2
		45929	AB2850055	1
	Complete Gasket Kit	45930	AB3650055	1

# Air Compressor Exploded View

**Note:** We have included this exploded view of one of our air compressors to aid you in re-building your air compressor. You can order any of the parts seen below by calling our Product Support at 1-800-270-0810.



Item	Description
1	Belt Guard
2	Decal
3	GX Honda Decal
4	Decal
5	Rotating Equip. Decal
6	Stand-off
7	Guard Bracket
8	Belt, A53
9	Pump, B2800B
10	Left Handle
11	Right Handle
12	Rubber Grip
13	Drain Valve
14	
15	8 Gallon Tank
16	3/8" NPT Male Elbow
17	3/8" Ball Valve
18	Decal
19	Air Gauge, Liquid Filled

Item	Description
20	5/8" Axle
21	Tire
22	5/8" Jam Nut
23	5/8" Nut
24	Safety Valve, 150 psi
25	Skid Mount Leg
26	Unloader, 100-130 psi
27	5/8" Compression Sleeve
28	5/8" Compression Nut
29	5/8" Copper Tube
30	1/2" Elbow
31	Engine, Honda GC160
32	Idle Solenoid Cable
33	CO Warning Decal
34	Nameplate
35	Operation Instr. Decal
36	Warning Hot Decal
37	H Bushing
38	Sheave, AK49K

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# Limited Warranty

Dear Valued Customer:

The NorthStar Product you just purchased is built with the finest material and craftsmanship. Use this product properly and enjoy the benefits from its high performance. By purchasing a NorthStar product, you show a desire for quality and durability. Like all mechanical equipment this unit requires a due amount of care. Treat this unit like the high quality piece of machinery it is. Neglect and improper handling may impair its performance. Please thoroughly read the instructions and understand the operation before using your product.

## Limited Warranty

NorthStar shall warranty any piece of equipment manufactured, or parts of equipment manufactured, to be free from defects in material or workmanship for a period of 90 days for noncommercial/nonrental use and a period of 90 days for commercial/rental use from the date of purchase by user.

NorthStar shall warranty any wear item, including, but not limited to, valves, seals, pump diaphragms, hoses, and filter elements to be free from defects in material or workmanship for a period of 90 days from the date of purchase by user. This warranty applies to the original purchaser of the equipment and is non transferable. Verification of purchase is the responsibility of the buyer. Parts will be replaced or repaired at no charge, except when the equipment has failed due to lack of proper maintenance. Any misuse, abuse, alteration or improper installation or operations will void warranty. Determining whether a part is to be replaced or repaired is the sole decision of NorthStar.

**NOTE:** Some services performed by parties other than NorthStar may void warranty.

This warranty covers parts only. It will not provide for replacement of complete products due to defective parts.

Components not manufactured by NorthStar are guaranteed by their manufacturer and can be serviced at factory-authorized locations near you. Any costs incurred due to replacement or repair of items outside of a NorthStar approved facility is the responsibility of the buyer and not covered under warranty. NorthStar can supply you with the service center location in your area.

This warranty specifically excludes the following; failure of parts due to damage caused by accident, fire, flood, windstorm, acts of God, applications not approved by NorthStar in writing, corrosion caused by chemicals, use of replacement parts which do not conform to manufacturer's specifications, and damage caused by vandalism. Additional exclusions: loss of running time, inconvenience, loss of income, or loss of use, including any implied warranty of merchantability of fitness for a specific use.

Warranty does not cover items subject to normal wear such as tires, receptacles or any part subject to direct physical contact by the public. This warranty does not cover any personal injury or damage to surrounding property caused by failure of any part.

This warranty is in lieu of any other warranty expressed or implied and NorthStar assumes no other responsibility or liability outside that expressed within this warranty.

Please fill in the following information and have it on hand when you call in on a warranty claim.

Customer Number: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

NorthStar Serial Number: \_\_\_\_\_

Item Number: \_\_\_\_\_



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