

Operator-Parts List Manual

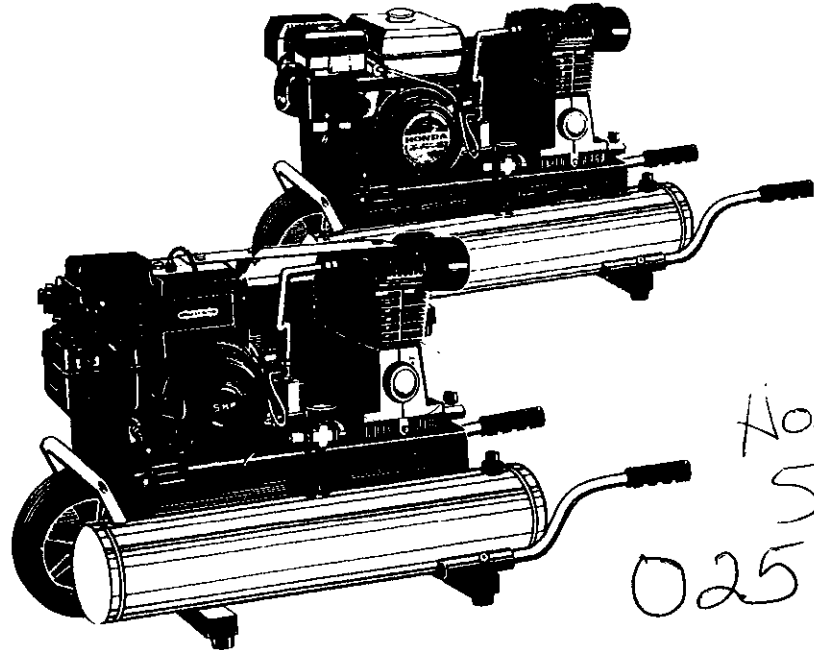
200-2065

Rev. B

Gas Belt-Drive, Single-Stage, Air Compressors

Manuel d'opérateur - Liste des pièces (voyez les pages 9-16)

Manual del operador - Lista de piezas (véase los páginas 17-24)



Specification Chart

MODEL NO.	H.P.	AIR TANK CAPACITY GALLONS	GASOLINE ENGINE	CFM @ 40 PSI	CFM @ 90 PSI	APPROX. KICK-IN PRESSURE	APPROX. KICK-OUT PRESSURE
165TGC51B-8	5	8	BRIGGS & STRATTON	10.6	9.1	90	120
50TGB8P							
165TG51H-8	HONDA						
50TGH8P							

INTRODUCTION

Congratulations on the purchase of your new air compressor. This equipment is carefully built from quality materials, using advanced design and engineering. Quality performance and trouble-free operation will provide you dependable service.

In the event you should have a question, or a concern, with the air compressor, **DO NOT** return it to the store where you purchased it. Most problems and concerns can be taken care of on the telephone!

Simply call (800) 544-5145 (Toll Free) and discuss the concern with our trained Customer Service Department.

Should you not be able to reach us at the above number, please check the Service Center Listing included with your instruction manual and call the Service Center nearest you for assistance.

CAUTION: Read this manual carefully before operating or servicing this air compressor to familiarize yourself with proper safety, operation and maintenance procedures. FAILURE TO COMPLY WITH INSTRUCTIONS IN THIS MANUAL COULD RESULT IN PERSONAL INJURY, PROPERTY DAMAGE, AND/OR VOIDING OF YOUR WARRANTY. SANBORN MANUFACTURING WILL NOT BE LIABLE FOR ANY DAMAGE BECAUSE OF FAILURE TO FOLLOW THESE INSTRUCTIONS. Following the instructions in this manual will provide a longer and safer service life for your air compressor.

SAFETY GUIDELINES

The following information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following symbols. Please read the manual and pay attention to these sections.



DANGER – AN IMMEDIATE HAZARD THAT *WILL* CAUSE SERIOUS INJURY OR LOSS OF LIFE.



1. **TO REDUCE THE RISK OF FIRE OR EXPLOSION, NEVER SPRAY FLAMMABLE LIQUIDS IN A CONFINED AREA. Always operate the compressor in a well-ventilated area. Do not smoke while spraying. Do not spray where sparks or flame are present. Keep compressor as far from spray area as possible.**



2. The solvents Trichloroethane and Methylene Chloride can chemically react with aluminum used in paint spray guns, paint pumps, etc., and cause an explosion. If you are using these solvents, use only stainless steel spray equipment. This does not affect your air compressor, but may affect the equipment being used.



3. Never directly inhale the compressed air produced by a compressor. It is not suitable for breathing purposes.

WARNING – A POTENTIAL HAZARD THAT *COULD* CAUSE SERIOUS INJURY OR LOSS OF LIFE.



1. **WELDING OR ANY OTHER ALTERATIONS MADE TO THIS UNIT VOIDS ALL WARRANTIES AND MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE.**



2. Check the manufacturer's maximum pressure rating for air tools and accessories. Compressor outlet pressure must be regulated so as to never exceed the maximum pressure rating of the tool. Relieve all pressure through the hose before attaching or removing accessories.



3. High temperatures are generated by the gasoline engine, transfer tube, and the pump. To prevent burns or other injuries, **DO NOT** touch these items while the engine is running. Allow them to cool before handling or servicing. Keep children away from the compressor at all times.

4. Be certain to read all labels when you are spraying paints or toxic materials, and follow the safety instructions. Use a respirator mask if there is a chance of inhaling anything you are spraying. Read all instructions and be sure that your respirator mask will protect you.

5. Always wear safety goggles or glasses when using an air compressor. Never point any nozzle or sprayer toward a person or any part of the body.

6. Do not adjust the relief valve for any reason. **Doing so voids all warranties.** The relief valve has been preset at the factory for the maximum pressure of this unit. Personal injury and/or property damage may result if the relief valve is tampered with.



CAUTION – A POTENTIAL HAZARD THE *MAY* CAUSE MODERATE INJURY OR DAMAGE TO EQUIPMENT.

1. Drain the moisture from the tank on a daily basis. A clean, dry tank will help prevent corrosion.

2. Pull the pressure relief valve ring daily to ensure that the valve is functioning properly, and to clear the valve of any possible obstructions.

3. To provide proper ventilation for cooling, the compressor must be kept a minimum of 12 inches from the nearest wall, in a well-ventilated area.

4. Fasten the compressor down securely if transporting is necessary. Pressure must be released from the tank before transporting.

5. Protect the air hose from damage and puncture. Inspect it weekly for weak or worn spots, and replace if necessary.

GLOSSARY OF TERMS

CFM

Cubic Feet per Minute.

PSI

Pounds per Square Inch; a unit of measure of air pressure.

Kick-In Pressure

Factory set low pressure point that starts the compressor to re-pressurize the tank to a higher pressure.

Kick-Out Pressure

Factory set high pressure point that stops the compressor from increasing the pressure in the tank above a certain level.

Well-ventilated

A means of providing fresh air in exchange for dangerous exhaust or vapors.

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OVERVIEW

Basic Air Compressor Components

The basic components of the air compressor are the gasoline engine, pump, and tank. See Figure 1.

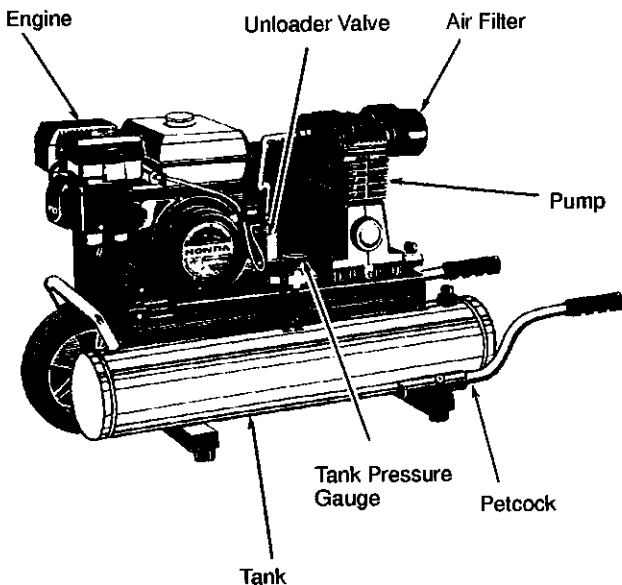


Figure 1. Overall View of Typical Single-Stage Gas-Powered Air Compressor

The **gasoline engine** powers the pump. The engine drives a pulley and belt, which transfer power from the engine to the pump pistons via a flywheel and a crankshaft. The flywheel fan helps cool the pump.

The **pump** compresses the air and discharges it into the tank. As the piston in the pump cylinder moves downward, air enters the cylinder through the filter and air intake valves at atmospheric pressure. As the piston moves upward, it compresses the air and discharges it into the tank through a check valve.

Single-stage air compressors have one or two identical cylinders (twin cylinders), and produce pressures of 90–120 psi.

The **tank** stores the compressed air. A check valve at the tank inlet prevents the compressed air in the tank from flowing back into the pump.

When the air pressure in the tank reaches the factory-set limit, the **unloader** relieves air pressure in the pump and transfer tubes and switches the engine to idle. As compressed air is used and the pressure level in the tank drops to a pre-set level, the unloader switches the engine back to drive and the compressor resumes pumping air.

Customer Information Card

Please fill out the enclosed warranty/registration card and mail it to the factory.

INSTALLATION

INSTALLING THE COMPRESSOR

1. Unpack the air compressor. Inspect the unit for damage. If the unit has been damaged in transit, contact the carrier and complete a damage claim. Do this immediately, because there are time limitations to damage claims.

The carton should contain:

- the air compressor
- handles
- the Operator-Parts List manual
- the engine manual
- a warranty registration card
- a service center listing.

2. Check the compressor's serial label (located on the platform) to ensure that you have received the model ordered, and that it has the required pressure rating for its intended use.
3. Install the handles by inserting the ends into the base and secure with the bolts provided. See Figure 2.
4. Locate the compressor according to the following guidelines:
 - a. Position the compressor as close as possible to the place where the air will be used.
 - b. The flywheel side of the unit must be at least 12 inches from any wall or obstruction, to ensure sufficient air flow and cooling.
 - c. The compressor must be in a clean, well-ventilated area for a good source of air and adequate heat dissipation.
 - d. In cold climates, store portable compressors in a heated building when not in use, to reduce problems with lubrication, motor starting, and freezing of water condensation.
 - e. Place the compressor on the floor or a hard, level surface. The compressor must be level to ensure proper lubrication of the pump and good drainage of the condensed water in the tank.

BREAK-IN OF THE PUMP

Note: When references are made to gasoline engine operations, refer to the engine manual for proper procedure.

1. Before starting the compressor for the first time, ensure proper oil level in the gasoline engine crankcase.

Danger: Gasoline engine exhaust contains dangerous carbon monoxide. Compressors which are permanently installed indoors **MUST** be equipped with a system to vent engine exhaust outside.

2. Check the level of oil in the pump with the dipstick. The pump oil level must be at the full mark of the dipstick. See Figure 3. Do not overfill or underfill.
3. Fill the tank of the gasoline engine with unleaded gasoline. **DO NOT MIX OIL WITH THE GASOLINE.**
4. Move the unloader lever to the manual (vertical) position. See Figure 4.

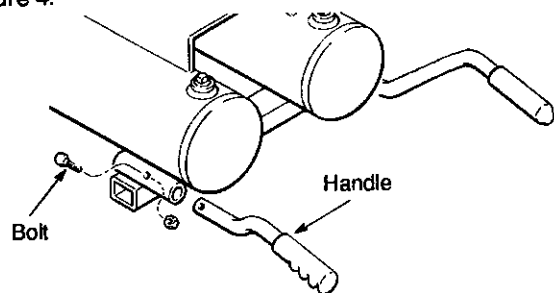


Figure 2. Installing Handles on Portable Compressor

5. Open the petcock on the bottom of the tank. See Figure 5.
- Note:** If the unit does not operate properly, **SHUT DOWN IMMEDIATELY**, and contact your nearest Service Center or call the factory's Customer Service Department. **DO NOT** return the unit to the store where it was purchased.
6. Start the gasoline engine according to the instructions in the engine manual. Run the compressor for about 20–30 minutes to break in the internal parts.
 7. Shut off the gasoline engine. Close the petcock. Connect your air hose to the tank outlet. Check that all connections are tight. A small leak in any of the hoses, transfer tubes, or pipe connections will substantially reduce the performance of your air compressor.

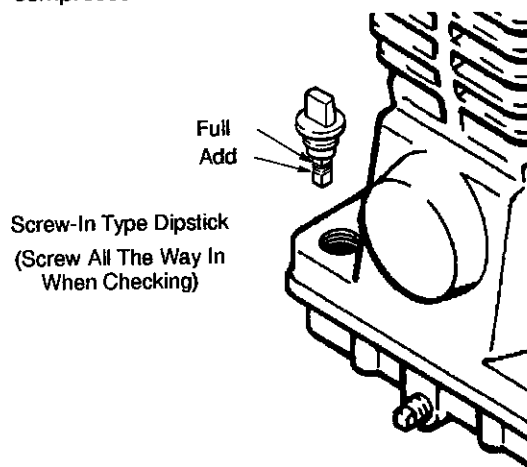


Figure 3. Checking Oil Level

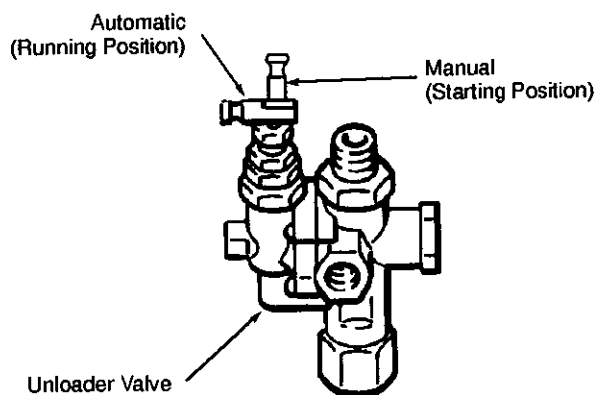


Figure 4. Unloader Valve

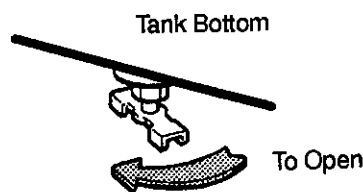


Figure 5. Tank Petcock

OPERATING INSTRUCTIONS

COMPRESSOR CONTROLS

Pressure Relief Valve

If the unloader does not shut down the engine when pressure reaches the preset level, this valve will pop open automatically to prevent overpressurization. To operate manually, pull the ring on the valve to relieve air pressure in the tank.

Tank Pressure Gauge

This gauge measures the pressure level of the air stored in the tank. It is not adjustable by the operator, and does not indicate line pressure.

DAILY STARTUP

1. Check the oil level in the gasoline engine crankcase. Add oil as necessary. See instructions in the engine manual.
2. Check the level of oil in the pump with the dipstick. The pump oil level must be at the full mark of the dipstick. Do not overfill or underfill.

Note: When operating the compressor in temperatures above 32°F, use SAE 40 weight non-detergent oil. When operating below 32°F, use SAE 10 weight non-detergent oil.

3. Fill the tank of the gasoline engine with unleaded gasoline.
4. Move the unloader lever to the manual (vertical) position.

Note: If the unit does not operate properly, SHUT DOWN IMMEDIATELY, and contact your nearest Service Center or call the factory's Customer Service Department. DO NOT return the unit to the store where it was purchased.

5. Start the gasoline engine according to the instructions in the engine manual. Run the engine for about one minute to warm up the pump, then move the unloader lever to the automatic (horizontal) position. The pump will begin to fill the tank with air.

Warning: High temperatures are generated by the gasoline engine and the pump. To prevent burns and other injuries, DO NOT touch the compressor while it is running. Allow it to cool before handling or servicing. Keep children away from the compressor at all times.

COLD WEATHER STARTING

(temperatures less than 32° F)

For the gasoline engine, cold weather preparation includes a clean air filter, a good spark plug gapped to engine manufacturer's specifications and the proper oil as recommended in the engine manual.

For the pump, cold weather preparation requires changing oil to new SAE 10 weight oil.

Warning: The pump head and transfer tube become very hot when running. To prevent burns or other injuries, wear gloves and only touch the handle of the cold start valve when opening or closing the valve.

Warning: The cold start valve releases a stream of fast-moving air when open. To prevent eye or skin injuries while using the cold start valve, always wear protective eyewear and gloves and keep all parts of your body outside of this air stream.

1. Open the cold start valve completely by turning it counter-clockwise. See Figure 6.

Note: This valve handle will travel toward the pump head as you open it.

2. Leave the unloader lever in the automatic (horizontal) position.
3. Close the petcock on the bottom of tank.
4. Start the gasoline engine according to the instructions in the engine manual. Run the engine for about one minute to warm up the compressor, then close (hand-tighten only) the cold start valve by turning it clockwise until it stops releasing air.

SHUTDOWN

1. Shut off the gasoline engine.
2. Move the unloader lever to the manual (vertical) position, to relieve pressure in the pump and lines. It is important to do this because if air remains trapped in the pump, it creates a blockage which makes restarting the compressor difficult or impossible.
3. Reduce pressure in the tank through the outlet hose. You can also pull the relief valve ring and keep it open to relieve pressure in the tank.
4. Wear protective eyewear and open the petcock at the bottom of the tank to allow moisture to drain from the tank.

SERVICE INTERVAL CHART

Note: For gasoline engine maintenance procedures, refer to the engine manual.

Perform the following maintenance at the intervals indicated below.

Inspect and Clean Pump Air Filter	Daily
Check Pump Oil Level	Daily
Change Pump Oil	Every 100 Operating Hours
Operate Pressure Relief Valve	Daily
Check Belt Tension	Every 100 Operating Hours
Drain Tank	Daily
Check and Tighten all Bolts	After first 8 hours and every 100 Operating Hours (Do not overtighten.)

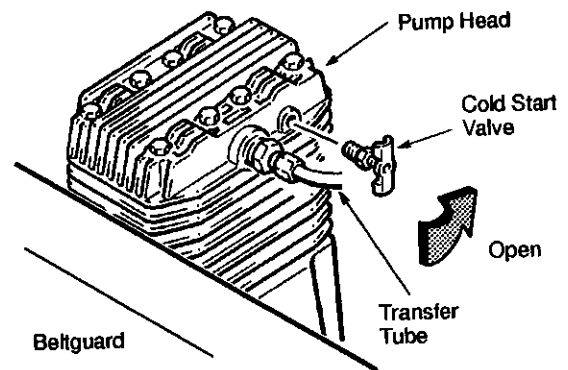


Figure 6. Cold Start Valve

MAINTENANCE

Warning: To avoid personal injury, always shut off the gasoline engine and relieve all air pressure from the system before performing any service on the air compressor.

Regular maintenance will ensure trouble-free operation. Your gasoline powered air compressor represents the finest engineering and construction available; however, even the finest machinery requires periodic maintenance.

Lubrication

Always operate the unit in a level position. Prior to starting the compressor, check the oil level of the pump. The pump is shipped with break-in oil which should be changed after the first 8 hours of operation. Thereafter, check the oil level daily and change the oil every 100 working hours. Drain the oil until it slows to a drip, then close. Never overfill or underfill the pump.

Draining the Tank

Condensation will accumulate in the tank. To prevent corrosion of the tank from the inside, this moisture must be drained at the end of every workday. Be sure to wear protective eyewear. Relieve the air pressure in the system and open the petcock on the bottom of the tank to drain.

Cleaning the Air Filter

A dirty air filter will reduce the compressor's performance and life. To avoid any internal contamination of the pump, the filter should be cleaned frequently, and replaced on a regular basis. Paper filters should be replaced when dirty. Foam filters should be cleaned in warm, soapy water. Do not allow the filters to become filled with dirt or paint. Direct exposure to dirty conditions and painting areas will void your warranty.

Testing For Leaks

Check that all connections are tight. A small leak in any of the hoses, transfer tubes, or pipe connections will substantially reduce the performance of your air compressor. If you suspect a leak, spray a small amount of soapy water around the area of the suspected leak with a spray bottle. If bubbles appear, repair or replace the faulty component. Do not overtighten any connections.

Checking the Relief Valve

Pull the relief valve daily to ensure that it is operating properly and to clear the valve of any possible obstructions.

Belt Tension and Pulley Alignment

Note: Drive belt tensioning and pulley alignment are done at the same time. They are discussed separately for clarity.

Adjusting Drive Belt Tension

Proper belt tension and pulley alignment must be maintained for maximum drive efficiency and belt life. The correct tension exists if a deflection of 1/2" occurs by placing 5 lb of pressure midway between the engine pulley and the compressor flywheel. See Figure 7. This deflection can be adjusted by the following procedure.

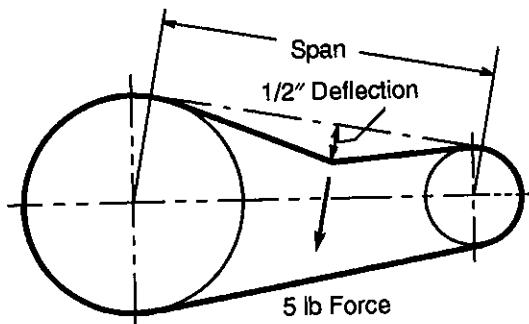


Figure 7. Drive Belt Tension

1. Remove the beltguard.

- Loosen the engine mounting bolts.
- Shift the engine to the point where the correct deflection exists.
- Retighten the engine mounting bolts.
- Check to ensure that the tension remained correct.
- Reinstall the beltguard.

Pulley Alignment

Figure 8 shows three examples of pulley misalignment. To check pulley alignment, remove the belt guard and place a straightedge against the compressor flywheel. Measure and record the distance from the straightedge to the edge of the drive belt at point A. Then measure the distance from the straightedge to the edge of the drive belt again at points B and C. Both distances should be the same as at point A. If B or C are different from A, there is a misalignment which must be corrected before the compressor is run. To correct a pulley misalignment, use the following procedure.

- Remove the beltguard.
- Loosen the engine mounting bolts.
- Loosen the setscrew on the engine pulley.
- Align the engine pulley with the compressor flywheel.
- Retighten the engine pulley setscrew.
- Adjust the proper belt tension as stated in the preceding paragraph.
- Retighten the engine mounting bolts.
- Reinstall the beltguard.

Storage

Before storing the compressor for a prolonged period, use an air blow gun to clean all dust and debris from the compressor. Pull the pressure relief valve to release all pressure from the tank. Drain all moisture from the tank. Clean the filter elements and filter housing; replace the elements if necessary. Drain the oil from the pump crankcase and replace it with new oil. Cover the entire unit to protect it from moisture and dust.

Note: For gasoline engine storage procedures, refer to the engine manual.

Three Examples Of Pulley Misalignment

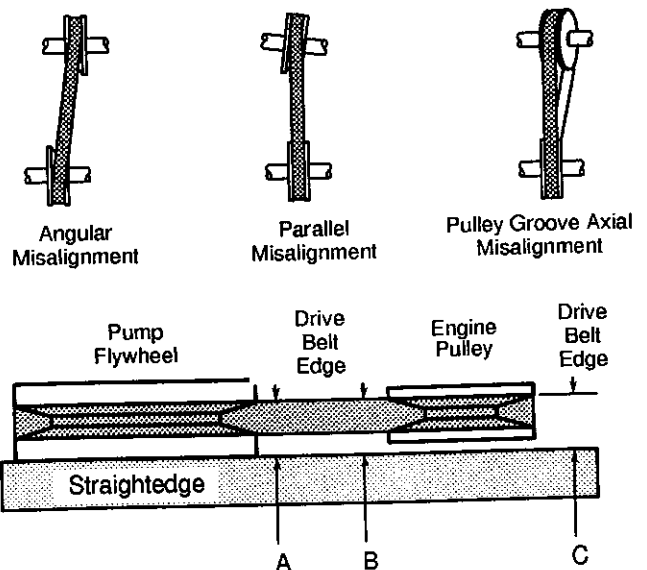
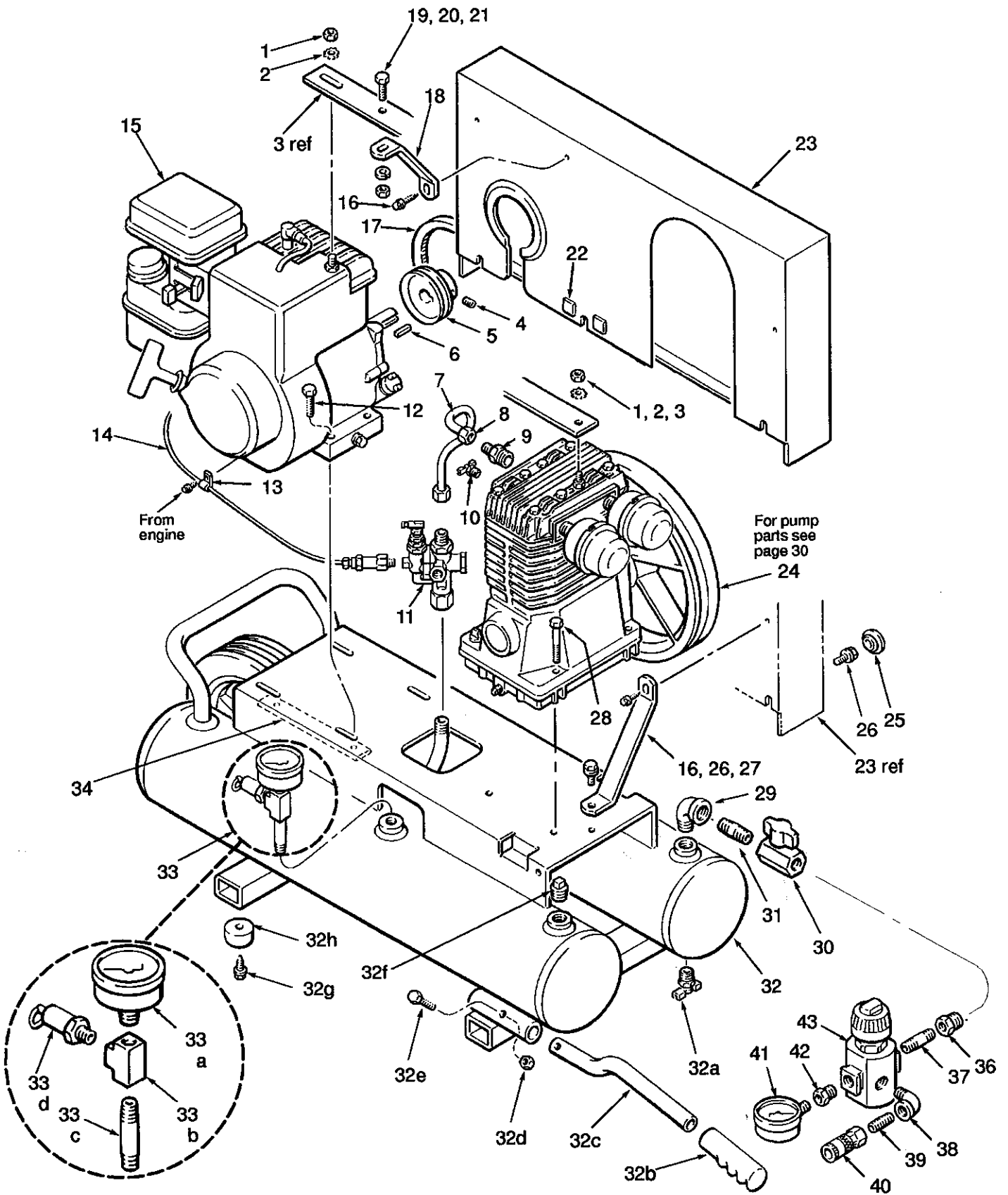


Figure 8. Checking Pulley Alignment

TROUBLESHOOTING CHART

NOTE: TROUBLESHOOTING PROBLEMS MAY HAVE SIMILAR CAUSES AND SOLUTIONS.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Low Discharge Pressure	Air leaks	Tighten or replace leaking fittings or connections. Do not overtighten.
	Leaking valves	Contact authorized service center.
	Restricted air intake	Clean or replace air filter element(s).
	Blown gaskets	Contact authorized service center.
	Worn piston rings or cylinder	Contact authorized service center.
Pump Knocking	Loose engine pulley or compressor flywheel	Retighten pulley and flywheel. Check alignment.
	Low oil level in pump crankcase	Keep oil at proper level at all times.
	Excess carbon on valves or top of piston	Contact authorized service center.
Oil in Discharge Air	Worn piston rings or cylinder	Contact authorized service center.
	Restricted air intake	Clean or replace the air filter element(s).
	Oil level too high	Reduce to proper level. Use non-detergent oil.
Overheating	Poor ventilation	Relocate compressor to an area with cool, dry, well circulated air, at least 12 in. from nearest wall.
	Dirty cooling surfaces	Clean all cooling surfaces thoroughly.
	Restricted air passages	Replace transfer tubes and/or unloader.
Excessive Belt Wear	Pulley out of alignment	Realign pulley with compressor flywheel.
	Improper belt tension	Readjust.
	Pulley wobbles	Replace the pulley and check for a damaged crankshaft or flywheel.
Excessive Unloader Cycling	Air leaks in piping	Tighten or replace leaking fittings or connections. Do not overtighten.
Gasoline Engine Stall	Low engine idle speed or improper carburetor setting	Refer to engine operator's manual for the proper adjustments.
Compressor Won't Start in Cold Temperature	Compressor not winterized	See cold weather preparation.
	Engine flooded	Remove spark plug and dry it. Reinstall.
	Too much back pressure in tank	Open cold start valve and move unloader to vertical position to depressurize compressor during choke period.
	Compressor too cold	Move compressor to a warmer location.



Parts List

Pièces Liste

Lista De Las Piezas

This listing is the same as the one appearing on page 29. It is reprinted here to aid in locating the parts shown on the facing page.

Item	Part No	Quantity	Description	Description	Descripción
Art.	No. De Pièce	Quantité			
Item	Part No	Qty			
1	058-0078 ¹	2	Nut, 5/16"	Écrou	Tuerca
2	060-0027 ¹	2	Washer, ext-tooth 3/8"	Rondelle	Arandela
3	114-0101 ²	1	Bar, stabilizer	Barre	Barra
	114-0103 ¹	1	Bar, stabilizer	Barre	Barra
4	061-0006	1	Setscrew 5/16" x 3/8"	Vis D'arrêt	Tornillo Fijador
5	006-0091	1	Pulley	Poulie	Polea
6	146-0016	1	Key, 3/16" sq x 1" lg	Clé	Chaveta
7	145-0257 ¹	1	Tube, transfer, alum.	Tube	Tubo
	145-0264 ¹	or	Tube, transfer, copper	Tube	Tubo
	145-0258 ²	1	Tube, transfer, alum.	Tube	Tubo
	145-0265 ²	or	Tube, transfer, copper	Tube	Tubo
8	058-0016	2	Compression nut	Écrou de compression	Tuerca de compresión
9	068-0009	2	Connector, male	Connecteur	Conector
10	072-0002	1	Valve, cold start	Soupape	Válvula
11	070-0044	1	Unloader	Régulateur de pression	Descargador
12	059-0011	4	Screw, 5/16" x 1 1/4" lg	Vis	Tornillo
13	103-0054	1	Clamp, cable	Collier	Abrazadera
14	026-0237	1	Cable, throttle	Manette des gaz	Acelerador
15	025-0016 ¹	1	Engine, gas	Moteur	Motor
	025-0036 ²	1	Engine, gas	Moteur	Motor
16	061-0055	3 ¹ 2 ²	Screw, #10 x 1/2" lg	Vis	Tornillo
17	007-0012	1	V-belt	Courroie	Correa
18	114-0085 ¹	1	Bracket, belt guard	Support	Soporte
	114-0102 ²	1	Bracket, belt guard	Support	Soporte
19	059-0045	1	Screw, 1/4" x 3/4" lg	Vis	Tornillo
20	060-0055	1	Washer, 1/4"	Rondelle	Arandela
21	058-0032	1	Nut, 1/4"	Écrou	Tuerca
22	094-0010	2	Pad, vibration	Tampon	Almohadilla
23	142-0062	1	Beltguard	Garant	Protector
24	040-0199	1	Pump	Pompe	Bomba
25	093-0005	3	Plug, button	Bouchon	Tapón
26	059-0012	4	Screw, 5/16" x 1/2" lg	Vis	Tornillo
27	114-0006	1	Bracket, belt guard	Support	Soporte
28	059-0146	4	Screw, 5/16" x 2 1/4" lg	Vis	Tornillo
29	064-0050	1	Elbow, 90° x 1/2" NPT	Coude	Codo
30	073-0008	1	Valve, 1/4 turn, 1/2" NPT	Soupape	Válvula
31	065-0001	1	Nipple, 1/2" NPT	Manchon fileté	Niple
32	150-0025	1	Tank assembly, includes wheel, axle & items 32a-32h	Ensemble du réservoir	Conjunto de tanque
	∞ 10				
32a	072-0001	2	Petcock, 1/4" NPT	Robinet de décompression	Llave de desagüe
32b	093-0007	2	Grip	Poignée	Empuñadura
32c	112-0037	1	Handle, left hand (shown)	Manette	Manija
	112-0036	1	Handle, right hand	Manette	Manija
32d	058-0078	2	Nut, 5/16"	Écrou	Tuerca
32e	059-0011	2	Screw, 5/16" x 1 1/2"	Vis	Tornillo
32f	062-0016	1	Plug, 1/2" NPT	Bouchon	Tapón
32g	061-0036	4	Screw, #14 x 3/4" lg	Vis	Tornillo
32h	094-0009	4	Pad, vibration	Tampon	Almohadilla
33	NA	1	Gauge cluster assembly includes items 33a-33d	Ensemble du Jauge	Conjunto de Manómetro
33a	032-0024	1	Gauge, 300 PSI	Jauge	Manómetro
33b	069-0004	1	Tee, 1/4" NPT	Pièce en T	T
33c	065-0038	1	Nipple, 1/4" NPT x 3"	Manchon fileté	Niple
33d	136-0005	1	Valve, pressure relief	Soupape	Válvula
34	114-0017	2	Bracket, engine	Support	Soporte
35	059-0149 ²	1	Screw, 5/16" x 1/2" lg	Vis	Tornillo
36	063-0002	1	Bushing, 1/2" NPT x 3/8"	Bague	Buje
37	065-0057	1	Nipple, 3/8" NPT x 3/8" lg	Manchon fileté	Niple
38	064-0022	1	Elbow, 90°	Coude	Codo
39	065-0031	1	Nipple, close 1/4" NPT	Manchon fileté	Niple
40	036-0002	1	Coupler, quick change	Coupleur	Acoplador
41	032-0025	1	Gauge, 300 PSI	Jauge	Manómetro
42	063-0026	1	Bushing, 3/8" NPT x 1/4"	Bague	Buje
43	019-0115	1	Regulator, 3/8" NPT	Régulateur	Regulador

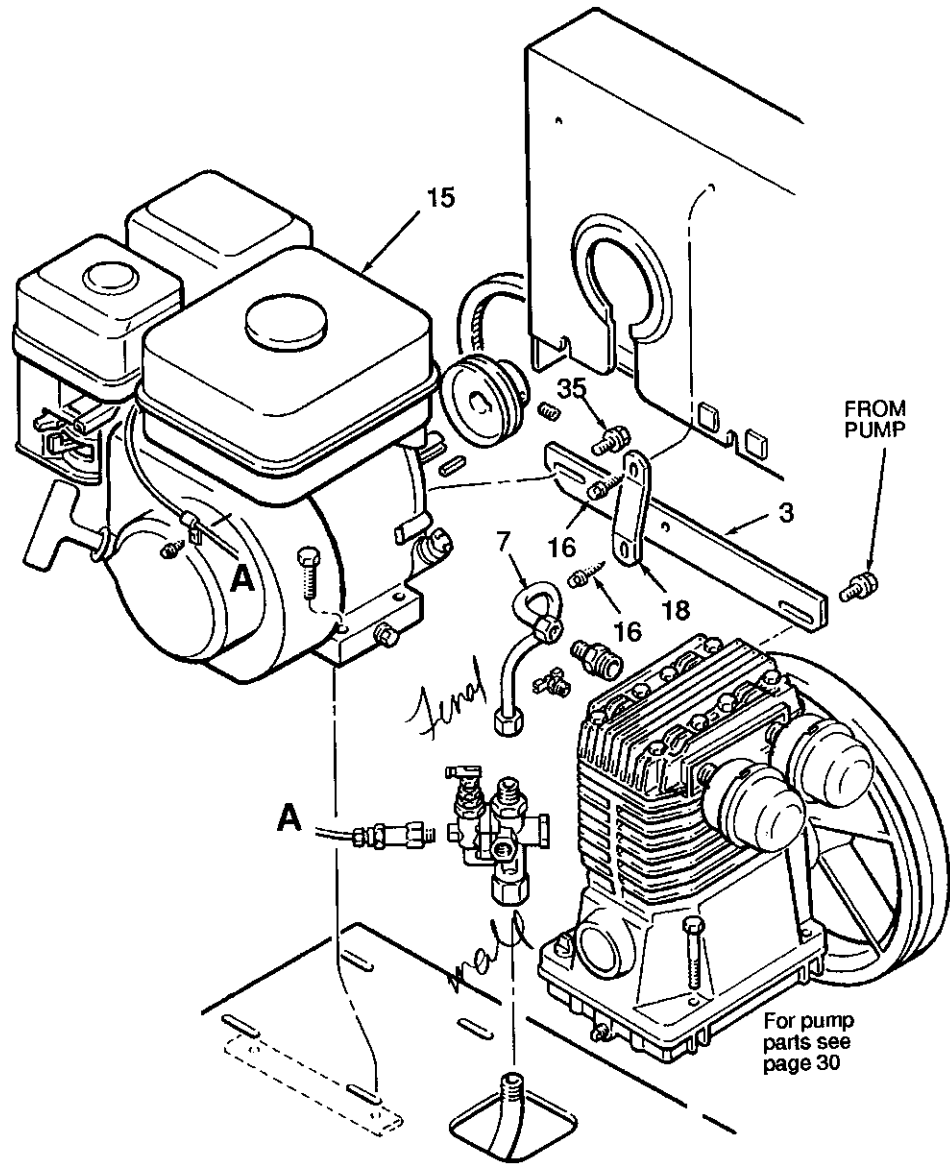
¹Briggs & Stratton models only

²Honda models only

Revision B

HONDA models only

Only items which differ from those shown on page 26 are numbered



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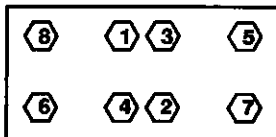
Item	Part No	Quantity	Description	Description	Description
Art.	No. De Pièce	Quantité			
Item	Part No	Qty			
1	058-0078 ¹	2	Nut, 5/16"	Écrou	Tuerca
2	060-0027 ¹	2	Washer, ext-tooth 3/8"	Rondelle	Arandela
3	114-0101 ²	1	Bar, stabilizer	Barre	Barra
	114-0103 ¹	1	Bar, stabilizer	Barre	Barra
4	061-0006	1	Setscrew 5/16" x 3/8"	Vis D'arrêt	Tornillo Fijador
5	006-0091	1	Pulley	Poulie	Polea
6	146-0016	1	Key, 3/16" sq x 1" lg	Clé	Chaveta
7	145-0257 ¹	1	Tube, transfer, alum.	Tube	Tube
	145-0264 ¹	or	Tube, transfer, copper	Tube	Tube
	145-0258 ²	1	Tube, transfer, alum.	Tube	Tube
	145-0265 ²	or	Tube, transfer, copper	Tube	Tube
8	058-0016	2	Compression nut	Écrou de compression	Tuerca de compresión
9	068-0009	2	Connector, male	Connecteur	Conector
10	072-0002	1	Valve, cold start	Soupape	Válvula
11	070-0044	1	Unloader	Régulateur de pression	Descargador
12	059-0011	4	Screw, 5/16" x 1 1/4" lg	Vis	Tornillo
13	103-0054	1	Clamp, cable	Collier	Abrazadera
14	026-0237	1	Cable, throttle	Manette des gaz	Acelerador
15	025-0016 ¹	1	Engine, gas	Moteur	Motor
	025-0036 ²	1	Engine, gas	Moteur	Motor
16	061-0055	3 ¹ 2 ²	Screw, #10 x 1/2" lg	Vis	Tornillo
17	007-0012	1	V-belt	Courroie	Correa
18	114-0085 ¹	1	Bracket, belt guard	Support	Soporte
	114-0102 ²	1	Bracket, belt guard	Support	Soporte
19	059-0045	1	Screw, 1/4" x 3/4" lg	Vis	Tornillo
20	060-0055	1	Washer, 1/4"	Rondelle	Arandela
21	058-0032	1	Nut, 1/4"	Écrou	Tuerca
22	094-0010	2	Pad, vibration	Tampon	Almohadilla
23	142-0062	1	Beltguard	Garant	Protector
24	040-0199	1	Pump	Pompe	Bomba
25	093-0005	3	Plug, button	Bouchon	Tapón
26	059-0012	4	Screw, 5/16" x 1/2" lg	Vis	Tornillo
27	114-0006	1	Bracket, belt guard	Support	Soporte
28	059-0146	4	Screw, 5/16" x 2 1/4" lg	Vis	Tornillo
29	064-0050	1	Elbow, 90° x 1/2" NPT	Coude	Codo
30	073-0008	1	Valve, 1/4 turn, 1/2" NPT	Soupape	Válvula
31	065-0001	1	Nipple, 1/2" NPT	Manchon fileté	Niple
32	150-0026	1	Tank assembly, includes wheel, axle & items 32a-32h	Ensemble du réservoir	Conjunto de tanque
32a	072-0001	2	Petcock, 1/4" NPT	Robinet de décompression	Llave de desagüe
32b	093-0007	2	Grip	Poignée	Empuñadura
32c	112-0037	1	Handle, left hand (shown)	Manette	Manija
	112-0036	1	Handle, right hand	Manette	Manija
32d	058-0078	2	Nut, 5/16"	Écrou	Tuerca
32e	059-0011	2	Screw, 5/16" x 1 1/2"	Vis	Tornillo
32f	062-0016	1	Plug, 1/2" NPT	Bouchon	Tapón
32g	061-0036	4	Screw, #14 x 3/4" lg	Vis	Tornillo
32h	094-0009	4	Pad, vibration	Tampon	Almohadilla
33	NA	1	Gauge cluster assembly includes items 33a-33d	Ensemble du Jauge	Conjunto de Manómetro
33a	032-0024	1	Gauge, 300 PSI	Jauge	Manómetro
33b	069-0004	1	Tee, 1/4" NPT	Pièce en T	T
33c	065-0038	1	Nipple, 1/4" NPT x 3"	Manchon fileté	Niple
33d	136-0005	1	Valve, pressure relief	Soupape	Válvula
34	114-0017	2	Bracket, engine	Support	Soporte
35	059-0149 ²	1	Screw, 5/16" x 1/2" lg	Vis	Tornillo
36	063-0002	1	Bushing, 1/2" NPT x 3/8"	Bague	Buje
37	065-0057	1	Nipple, 3/8" NPT x 3/8" lg	Manchon fileté	Niple
38	064-0022	1	Elbow, 90°	Coude	Codo
39	065-0031	1	Nipple, close 1/4" NPT	Manchon fileté	Niple
40	036-0002	1	Coupler, quick change	Coupleur	Acoplador
41	032-0025	1	Gauge, 300 PSI	Jauge	Manómetro
42	063-0026	1	Bushing, 3/8" NPT x 1/4"	Bague	Buje
43	019-0115	1	Regulator, 3/8" NPT	Régulateur	Regulador

¹Briggs & Stratton models only

²Honda models only

Parts Drawing Dessin Des Pieces Esquema De Las Piezas

Head Bolt Sequence
 Séquence De Serrage Des
 Boulons À Tête
 Secuencia De Los Pernos Del
 Cabezal

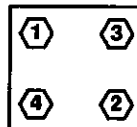


Sequence #'s 1, 2, 3 & 4
 Torque to 20-26 FT-LBS
 (240-320 in-lbs)
 Sequence #'s 5, 6, 7 & 8
 Torque to 16-23 FT-LBS
 (200-280 in-lbs)

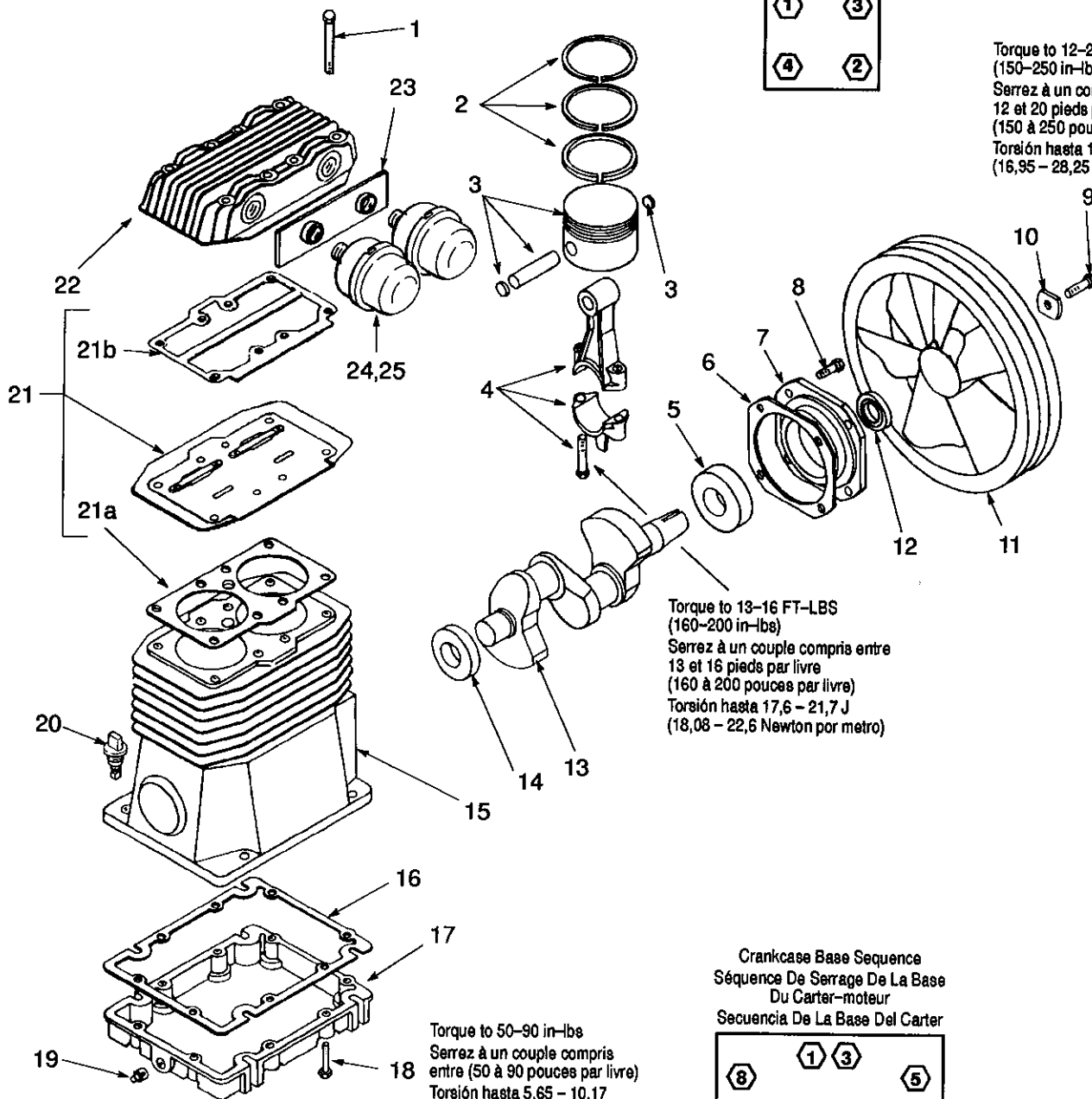
Séquence De Serrage Des Boulons 1, 2, 3 ET 4
 serrez à un couple compris entre 20 et 26 pieds par livre
 (240 à 320 pouces par livre)
 Séquence De Serrage Des Boulons 5, 6, 7 ET 8
 serrez à un couple compris entre 16 et 23 pieds par livre
 (200 à 280 pouces par livre)

De Secuencia 1, 2, 3 y 4
 Torsión hasta 27,1 - 35,3 J
 (27,12 - 35,16 Newton por metro)
 # De Secuencia 5, 6, 7 y 8
 Torsión hasta 21,7 - 31,2 J
 (22,6 - 31,64 Newton por metro)

Carrier Bolt Sequence
 Torque to 14-19 FT-LBS
 (170-230 in-lbs)
 Séquence De Serrage Du
 Boulons Porteur 1, 2, 3 ET 4
 serrez à un couple compris
 entre 14 et 19 pieds par livre
 (170 à 230 pouces par livre)
 Secuencia De Los Pernos
 Del Transportador
 Torsión hasta 19,0 - 25,8 J
 (19,21 - 25,99 Newton
 por metro)

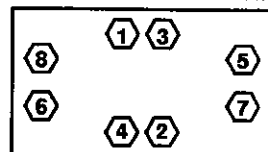


Torque to 12-20 FT-LBS
 (150-250 in-lbs)
 Serrez à un couple compris entre
 12 et 20 pieds par livre
 (150 à 250 pouces par livre)
 Torsión hasta 16,3 - 27,1 J
 (16,95 - 28,25 Newton por metro)



Torque to 13-16 FT-LBS
 (160-200 in-lbs)
 Serrez à un couple compris entre
 13 et 16 pieds par livre
 (160 à 200 pouces par livre)
 Torsión hasta 17,6 - 21,7 J
 (18,08 - 22,6 Newton por metro)

Crankcase Base Sequence
 Séquence De Serrage De La Base
 Du Carter-moteur
 Secuencia De La Base Del Carter



Torque to 50-90 in-lbs
 Serrez à un couple compris
 entre (50 à 90 pouces par livre)
 Torsión hasta 5,65 - 10,17
 Newton por metro

Parts List _____ **Pièces Liste** _____ **Lista De Las Piezas**

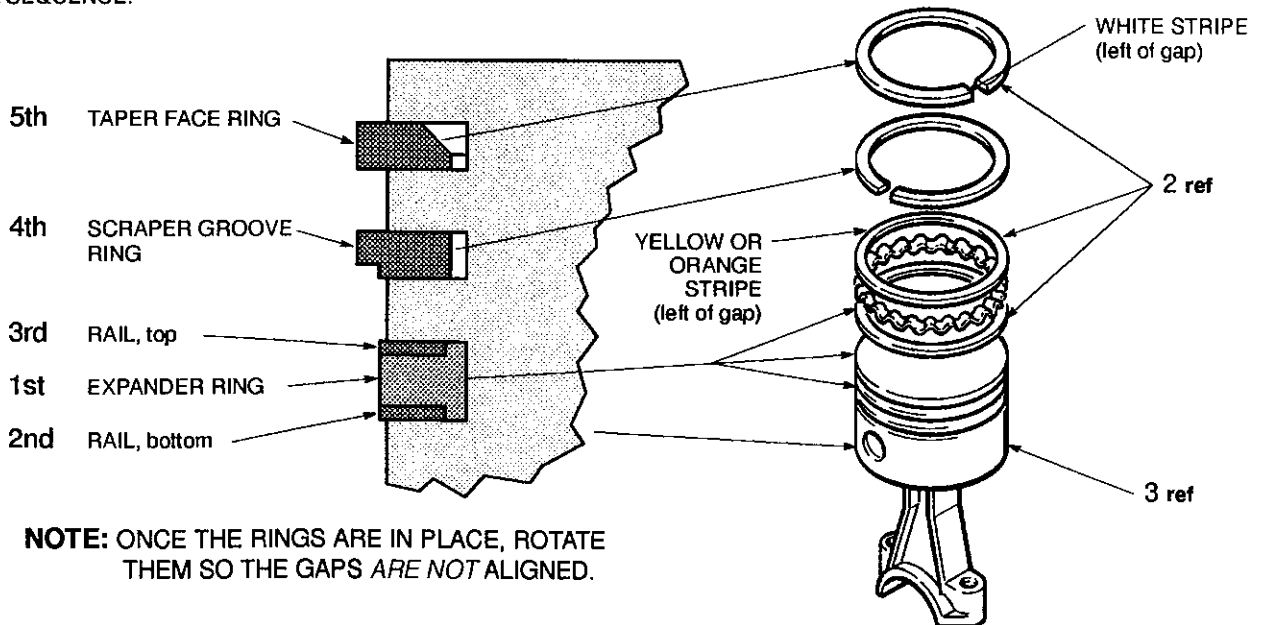
Item Art.	Part No No. De Pièce	Quantity Quantité	Description	Description	Descripción
1	059-0144	8	Screw	Vis	Tornillo
2	054-0112	1	Ring Set	Jeu D'anneaux	Juego De Anillos
3	048-0065	1	Piston Assembly	Ensemble Du Piston	Conjunto De Pistón
4	047-0070	2	Rod	Tige	Varilla
5	051-0043	1	Bearing	Roulement	Cojinete
6	046-0149	1	Gasket	Joint	Empaquetadura
7	045-0047	1	Carrier	Support	Portador
8	059-0143	4	Screw	Vis	Tornillo
must be purchased separately			doit être acheté séparément		
9	059-0002	1	Screw	Vis	Tornillo
10	060-0053	1	Washer	Rondelle	Arandela
11	044-0026	1	Flywheel, 10"	Volant-moteur	Volante
12	046-0161	1	Seal	Joint	Sello
13	053-0043	1	Crankshaft	Vilebrequin	Cigüenal
14	051-0013	1	Bearing	Roulement	Cojinete
15	049-0040	1	Crankcase	Carter	Cárter
16	046-0150	1	Gasket	Joint	Empaquetadura
17	077-0065	1	Base	Base	Base
18	059-0145	8	Screw	Vis	Tornillo
19	062-0002	1	Plug	Bouchon	Tapón
20	056-0019	1	Dipstick	Jauge De Niveau	Varilla De Aceite
21	043-0143	1	Plate	Plaque	Placa
21a	046-0152	1	Gasket	Joint	Empaquetadura
21b	046-0151	1	Gasket	Joint	Empaquetadura
22	042-0068	1	Head	Tête	Cabezal
23	019-0096	1	Plate	Plaque	Placa
24	019-0165	2	Canister	Cartouche	Canastillo
25	019-0166	2	Filter	Filtre	Filtro

Available Service Kits

Part No	Description	Description	Descripción
046-0159	Gaskets, complete set	Joints, jeu complet	JUNTAS, conjunto completo
165-0055	Overhaul Kit, canister filter model includes ring and gasket sets, valve plate assembly and filter elements		Juego De Acondicionamiento, modelo de filtro de lata incluye conjuntos de anillo y junta, conjunto de la placa de la válvula y elemento del filtro

ITEM 2 - RING SET 054-0112

IMPORTANT: RINGS MUST BE ASSEMBLED WITH COLORED STRIPES IN THE POSITION SHOWN BELOW AND IN THE FOLLOWING NUMERICAL SEQUENCE:

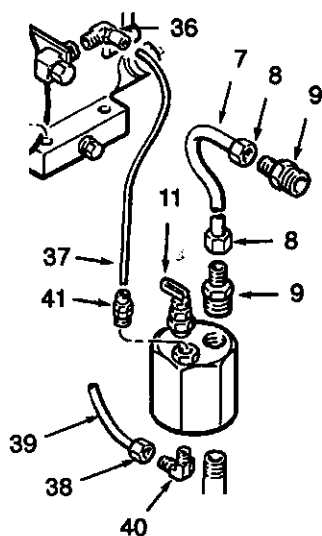


SUPPLEMENT SUPPLÉMENT SUPLEMENTO

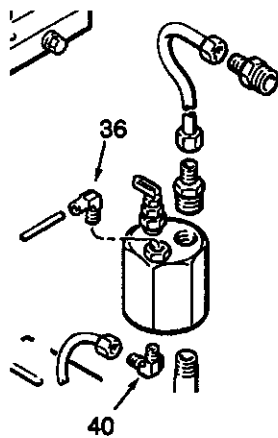
200-2065 REV A

Form 205-0004 REV A

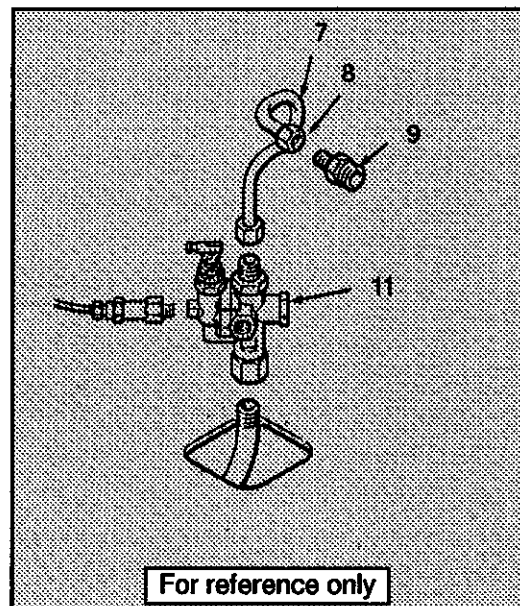
B3835



Honda models



Briggs models



For reference only

The following parts are the parts used on your unit. If ordering replacement parts, use these numbers for the items listed. Callout numbers not listed below are the same as the part numbers in your manual.

Item Art.	Part No. / P No. / P	Qty Qté	Description	Description	Description
7	145-0198	1	Tube, transfer 1/2"	Tube	Tubo
11	070-0038	1	Unloader	Régulateur de pression	Descargador
36	064-0040	2	Elbow, 90° 1/8" NPT x 1/8" tube	Coude	Codo
		1	Briggs models		
		1	Honda models		
37	145-0150	1	Tube, nylon Briggs models	Tube	Tubo
	145-0139	1	Tube, nylon Honda models	Tube	Tubo
38	058-0017	2	Comp. Nut & Sleeve		
39	145-0008		Tube, bleeder Briggs models	Tube	Tubo
	145-0101	1	Tube, bleeder Honda models	Tube	Tubo
40	064-0003	1	Elbow, 90° 1/8" NPT x 1/4" tube	Coude	Codo
41	068-0031	1	Fitting, 1/8"NPT x 1/8"tube	Raccord	Adaptador
SERVICE KITS					
	090-0012		Air throttle, Briggs & Stratton	Clapet de réglage d'air	Estrangulador de aire
	090-0015		Air throttle, Honda	Clapet de réglage d'air	Estrangulador de aire

If you should have a question, call 1(800) 544-5145 (Toll Free in USA or Canada) or (507) 723-6211 and speak with our trained Customer Service Department. Please mention this form number so we can serve you better.

SANBORN MFG. CO., P.O. Box 206, 118 West Rock Street, Springfield MN 56087

Printed in U.S.A. 5-93

SUPPLEMENT SUPPLÉMENT SUPLEMENTO

200-2064 REV B & 200-2065 REV B

Form 205-0011 REV B

B3896

BRIGGS & STRATTON 5 H.P. MODELS ONLY

DANGER

Risk of fire or explosion. Never operate the gasoline engine without the muffler properly installed; doing so allows hot engine exhaust or sparks to vent directly toward the gasoline tank.

Your unit has been shipped without the muffler installed. To install the muffler on the gasoline engine prior to operating the unit, perform the following steps.

1. You will need **ONE** of the following tools to perform this task:

- 3/8" wrench
- 3/8" socket & ratchet
- #30 torx head driver
- in-lb torque wrench (optional)

2. Locate the following parts:

- muffler
- gasket
- (2) flange bolts

3. Position the gasket in the exhaust hole of the engine so that the dull gray side is toward the engine (metal side facing out).
4. Insert the muffler through the gasket and align the holes of the muffler flange with the threaded holes in the engine.
5. Install and tighten the flange bolts finger tight; then tighten each bolt an additional 3/4 turn (or torque to 140-160 in-lbs)

Questions? Call 1(800) 544-5145 (Toll Free in USA or Canada) and speak with our Customer Service Department. Please mention form number 205-0011, revision A, so we can serve you better.

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