TITAN

INDUSTRIAL

OWNER'S MANUAL

MODEL TTP-300 3X3 Commercial Trash Pump

P.O.Box 791, Travelers Rest, S.C. 29690
Phone 864-834-7212
Service/Replacement Parts 800-845-4141

WARNING!

Do Not Operate Equipment until reading & understanding Owner's Manual!

The Emission Control System for this pump is warranted for standards set by the Environment Protection Agency.

IMPORTANT !

READ FIRST

TITAN INDUSTRIAL

OWNER'S MANUAL
MODEL TTP300 3X3
Industrial Trash Pump

It is extremely important to read and understand the entire contents of this Owner's Manual for the Titan Industrial- Model TTP300 before attempting to operate the Trash Pump. This is a gas engine powered, industrial strength trash pump. The gas engine and the pump are both potentially hazardous and could cause physical injury or even death if improperly used.

TITAN INDUSTRIAL shall not be responsible for any consequences resulting from improper application of this equipment. The operator is required to read and understand the entire contents of this manual before attempting to operate the unit. If the operator does not completely understand the instructions and all of the potential hazards of operating this unit after reading this manual, he must call the factory at 1-800-845-4141 to answer these questions to his complete satisfaction before proceeding.

READ AND COMPLETELY UNDERSTAND entire contents of this Owner's Manual and become familiar with the unit before attempting to start using this equipment! It is your responsibility to know its applications, limitations, and hazards! Call the factory at 1-800-845-4141 with any questions.

FOR OUTDOOR USE ONLY! Never use this unit inside any enclosure including or inside any building. No modifications will eliminate the danger of possible carbon monoxide poisoning, fire, or explosion.

This Manual contains information to ensure your safety and to prevent any equipment problems. Various terms such as 'WARNING', 'CAUTION', 'DANGER', 'IMPORTANT', and the SYMBOL➘ are all used to signify information that is essential for the operator of this equipment to understand and to practice!

SAFETY

This pump was designed for specific applications. DO NOT attempt to modify the unit in any way or use it for any application that it was not designed to do. Ask the dealer or contact the factory if you have any questions concerning the pump's application. If factory settings are altered or the application is misapplied, the warranty is void.

Warnings and cautions in this manual and on decals and tags on the unit are not all inclusive. It would be impossible to anticipate every circumstance that might involve a hazard. Handling, operating, or servicing this unit by any procedure not recommended by the manufacturer may render this equipment unsafe and may pose a threat to you or to others.

- Do not operate the pump without water. Permanent damage will occur to the ceramic seals and impellor.

- This pump is designed to handle nonvolatile, nonflammable liquids containing specified entrained solids and non-corrosive liquids.

- Never attempt to pump volatile, flammable, or corrosive liquids. This could cause damage to the pump and its operator(s).

- Make certain that all hose connections and piping are secure and properly supported before operation.

- Do not operate the pump for extended periods of time with the discharge valve closed. It will cause pump parts to deteriorate, and may cause explosion due to high internal pressure and heat. It can also cause damage to the pumps ceramic seals

- Do not remove covers, plates, gauges, pipe plugs or fittings from an overheated pump. Internal pressure could cause the parts to be ejected at high velocities. Allow the pump to completely cool before servicing.

  If over heating occurs:

  1. Stop pump immediately
  2. Ventilate the area
  3. Allow the pump to cool completely
  4. Check the temperature before opening any covers, plates, plugs, or gauges.
  5. Vent pump slowly and cautiously
  6. Refer to manual before restarting pump

  Do not operate internal combustion engine in an explosive atmosphere.

- Only operate this unit outside with adequate ventilation. This pump's gas engine exhaust produces carbon monoxide gas that can cause unconsciousness and death.

- Operate this equipment at a true horizontial position.

- Never store pump with fuel in the tank where gas fuel vapors could be ignited by a flame, spark, or pilot light from an appliance such as a furnace, water heater, or clothes dryer.

- Never tamper with the governor to gain more power. The maximum continuous pump speed of 3500 RPM is set at the factory and / not be exceeded or altered.

- Never insert any object through the cooling slots of the engine. You will damage the unit or cause injury.

- Never refuel a hot or running engine. Avoid overfilling the fuel tank. Always use the correct type of fuel. Leave 1/2" between top of fuel and bottom of tank neck.

- This pump was designed for specific applications. DO NOT attempt to modify the unit in any way or use it for any application that it was not designed to do. Ask the dealer or contact the factory if you have any questions concerning the pumps application.

  Warnings and cautions in this manual and on decals and tags on the unit are not all inclusive. It would be impossible to anticipate every circumstance that might involve a hazard. Handling, operating, or servicing this unit by any other proce -dure not mentioned will void the warranty.

CAUTION! The engine exhaust contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

SETTING UP TRASH PUMP

WARNING!
Never operate an internal combustion engine in an explosive atmosphere. Do not operate engine in enclosed areas without proper ventalation

CAUTION!
Pumps and related equipment must be installed and operated accoring to all national, local, and industry standards.

WARNING!
Never tamper with governor to gain power. The maximum continuous operating speed of 3500 RPM is set at the factory.

Inspection

- This pump assembly was inspected and tested before shipment from the factory. Inspect the pump for any damage that may have occurred during shipping. Check as follows:
  A. Inspect the pump and engine for cracks, dents, damaged threads and other obvious damage.
  B. Check for loose hardware, tighten if necessary. Gaskets tend to shrink, check for loose hardware at mating surfaces.
  C. Carefully read all tags, decals, on the pump assembly. Follow all directions.
  D. Damage to equipment created by the carrier must be claimed against the carrier.

Positioning Pump

LIFTING

- The pump is designed to be lightweight and portable. Pump is protected by a rollover base that also serves as a two man carry handle. Customer installed equipment, such as the suction hose, must be removed before attempting to lift.

MOUNTING

- Place the pump as close as possible to the liquid being pumped. A level mounting position is required for proper operation.

- To ensure sufficient fuel and lubrication, DO NOT position the pump at more than a 15 degree angle off the horizontal.

Suction and Discharge Piping

- Pump performance is adversely effected by increased suction lift , discharge elevation, and friction losses.

- Keep discharge line as straight as possible to minimize friction loss. Minimize the use of elbows and fittings which increase friction loss.Do not reduce the discharge hole to induce water pressure.

- Before tightening a connection flange, align it exactly with the pump port. Never align the hose by tightening the flange bolts.

- Lines near the pump must be independently supported to minimize strain on the pump. Pump strain can lead to a decreased pump life.

- To avoid air pockets when priming, the suction line must be as short and direct as possible, but at least 8 feet long, and not to exceed 12 feet in length.

- Suction lines must be the same size as the pump inlet.

- A strainer must be used at all times with no greater than 3\4inch openings.

- Slight leaks will affect priming, especially when operating with a high suction lift. All suction line connections should be sealed with pipe dope. The pipe dope should be compatible with liquid being pumped.

OPERATION OF THE TRASH PUMP

WARNING!
This pump is designed to pump non-volitile, non-flammable liquids containing specified entrained solids. Do not attempt to pump volitile, flammable, or corrosive liquids.

CAUTION!
Never operate pump unless there is liquid in the pump casing. The pump will not prime when dry. Extended operation of dry pump will destroy the seal assembly.

WARNING!
Never tamper with governor to gain power. The maximum continuous operating speed of 3500 RPM is set at the factory.

Priming

Never operate pump unless there is water in the pump housing.

Add liquid to the pump casing when:

1. The pump is being put into service for the first time.

2. The pump has not been used for a considerable length of time.

3. The liquid in the pump casing has evaporated.

To fill the pump, remove the pump fill plug at the top of the pump casing. Add clean liquid until the casing is filled past the flapper on the suction valve of the pump and replace the cover or plug. Insure the flapper seals and water remains in the pump.

Run the engine at maximum governed speed during the priming cycle. With a suction lift of 5 to 10 feet the pump should prime within 1 minute. The maximum suction lift of 15 feet (at sea level) should require no more than 2 minutes for the initial prime. If the pump does not prime within five minutes, shut off the engine and trouble shoot.

The suction hose should be a minimum of 8 feet long and have a wire filter screen, to prevent hard solid objects from entering the pump and damaging the impellor and seals.

Starting the Engine

(See page 6)

Always check oil before starting use.

Operation

Priming is indicated by quieter operation. The pump may not prime immediately because the suction line must first fill with liquid. If the pump fails to prime in five minutes check the suction hose for leaks.

LEAKING

No leakage should be visible at pump mating surfaces, or at pump connections and fittings. Keep all connections and fittings tight to ensure maximum pump efficiency. Use a lubricant on suction hose threads to assist in sealing suction hose.

LIQUID TEMPERATURE

The maximum liquid temperature of the pump is 110 degrees F. Overheating can occur if the pump is operated with the suction or discharge valves closed. If overheating occurs allow for the pump to cool before servicing it. Refill the pump case with cool liquid.

STRAINER

If a strainer has been shipped or installed by the user, check it regularly and clean it when necessary. Do not run the pump without a strainer.(See previous notes.)

STOPPING

Never halt the flow of liquid suddenly. Reduce the throttle speed slowly and allow the engine to idle briefly before stopping.

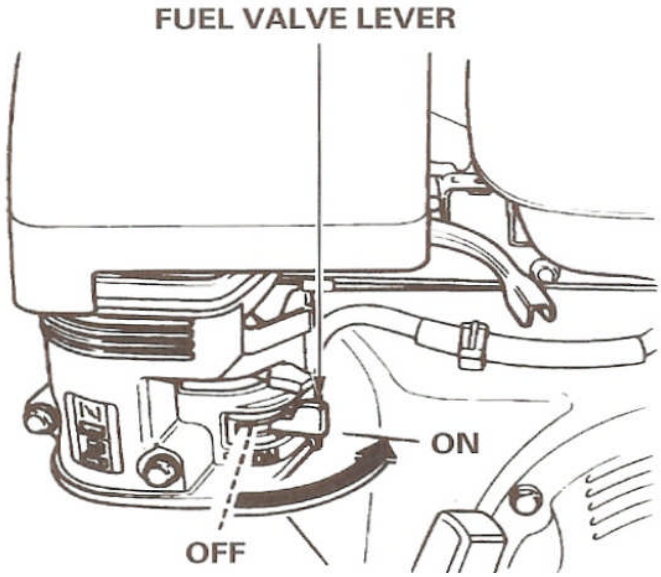
COLD WEATHER PRESERVATION

Drain the pump to prevent freezing damage. Clean out any solid by flushing with a hose.

Review the instructions provided with the equipment powered by this engine for any safety precautions that should be observed in conjunction with engine startup, shutdown, or operation.

STARTING THE ENGINE

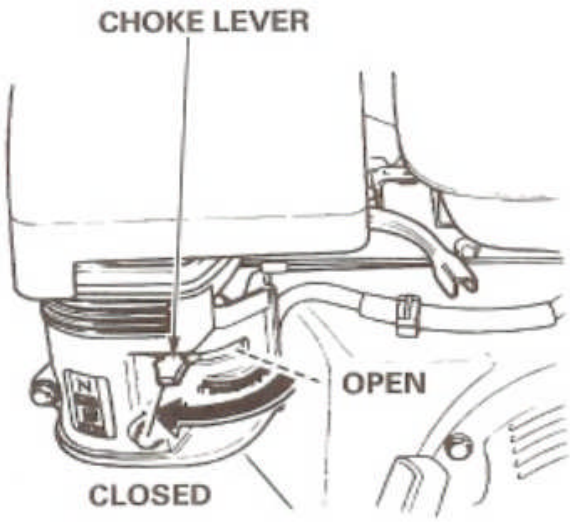
1. Move the fuel valve lever to the ON position.

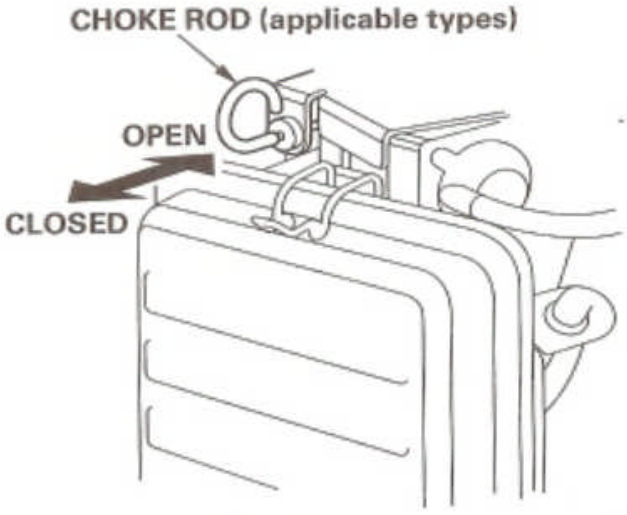


2. To start a cold engine, move the choke lever or choke rod (applicable types) to the CLOSED position.

   To restart a warm engine, leave the choke lever in the OPEN position.

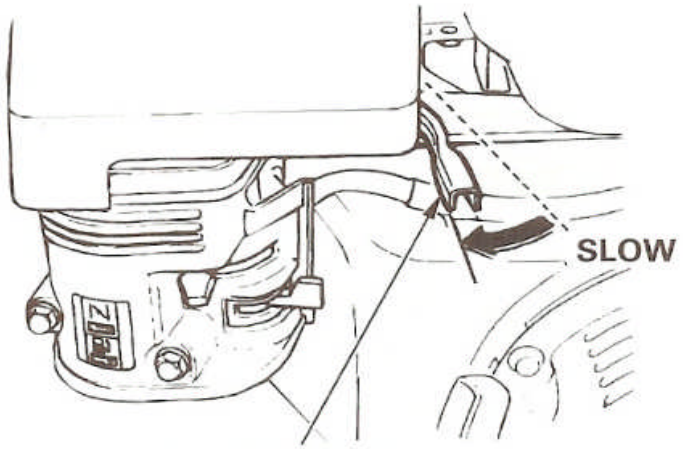
   Some engine applications use a remote-mounted choke control rather than the engine-mounted choke lever shown here.





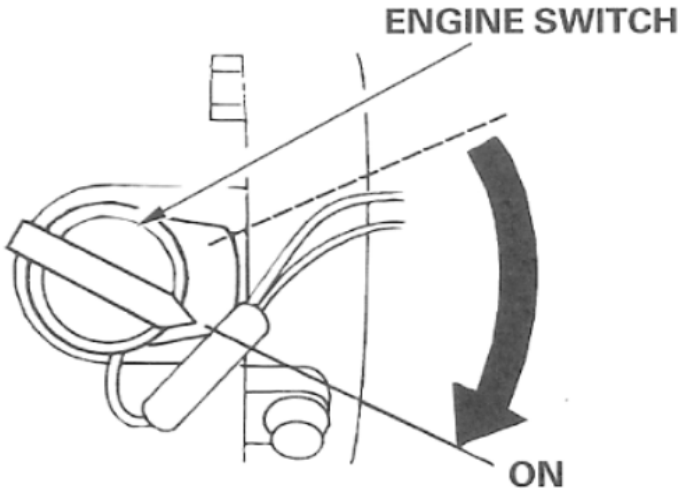
3. Move the throttle lever away from the SLOW position, about 1/3 of the way toward the FAST position.

Some engine applications use a remote-mounted throttle control rather than the engine-mounted throttle lever shown here.



4. Turn the engine switch to the ON position.

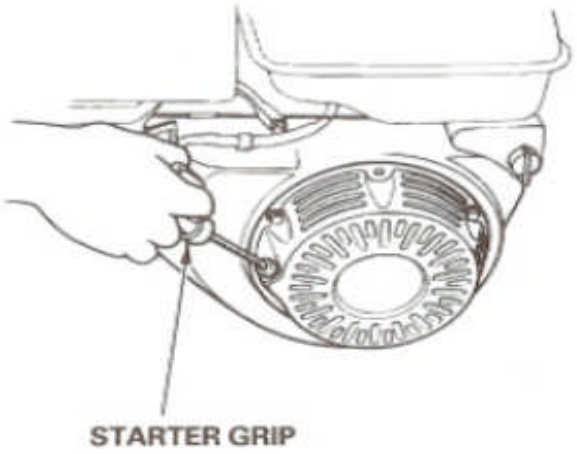
ALL ENGINES EXCEPT ELECTRIC STARTER TYPES



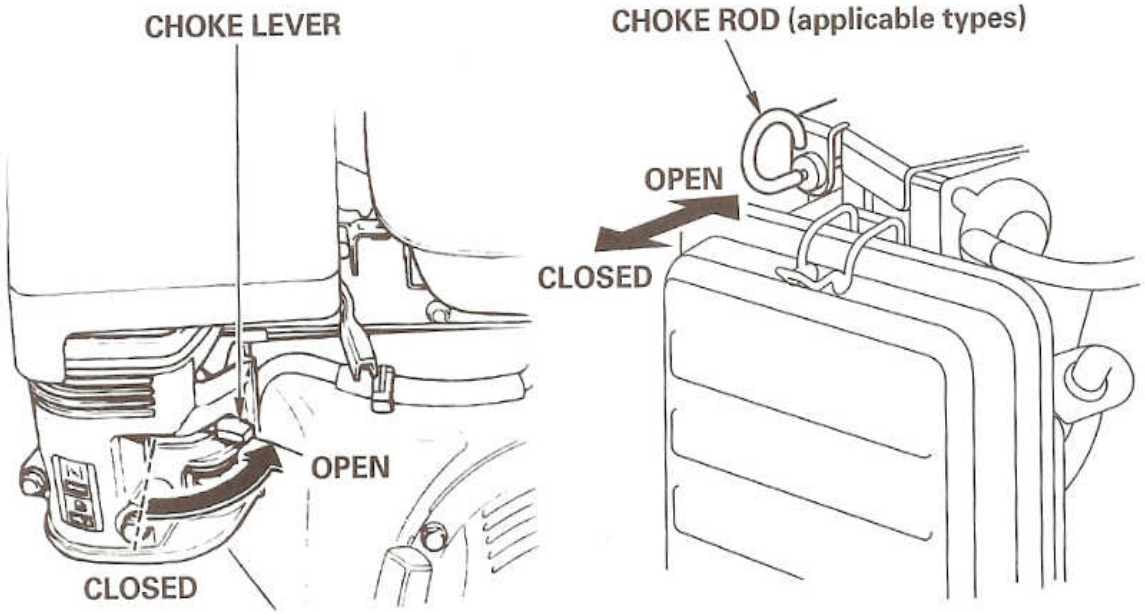
5. Operate the starter.

RECOIL STARTER (all engine types):

Pull the starter grip lightly until you feel resistance, then pull briskly. Return the starter grip gently.



6. If the choke lever or choke rod (applicable types) has been moved to the CLOSED position to start the engine, gradually move it to the OPEN position as the engine warms up.



ENGINE OIL LEVEL CHECK

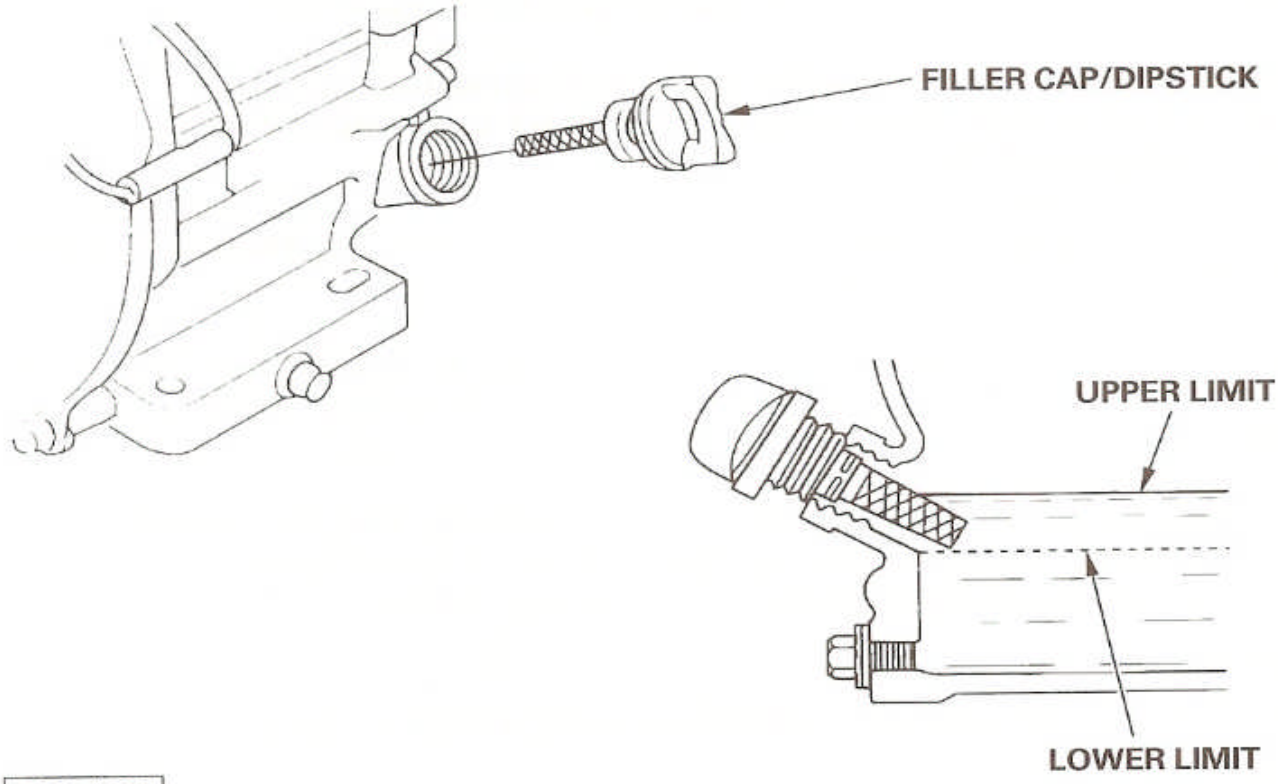
Check the engine oil level with the engine stopped and in a level position.

1. Remove the filler cap/dipstick and wipe it clean.

2. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.

3. If the oil level is low, fill to the edge of the oil filler hole with the recommended oil

4. Screw in the filler cap/dipstick securely.



NOTICE

Running the engine with a low oil level can cause engine damage.

The Oil Alert® system (applicable engine types) will automatically stop the engine before the oil level falls below safe limit. However, to avoid the inconvenience of an unexpected shutdown, always check the engine oil level before startup.

ENGINE OIL CHANGE

Drain the used oil while the engine is warm. Warm oil drains quickly and completely.

1. Place a suitable container below the engine to catch the used oil, then remove the filler cap/dipstick, drain plug, and washer.

2. Allow the used oil to drain completely, then reinstall the drain plug, washer, and tighten drain plug securely.

3. Please dispose of used motor oil in a manner that is compatible with the environment. We suggest you take used oil in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the trash, pour it on the ground, or down a drain.

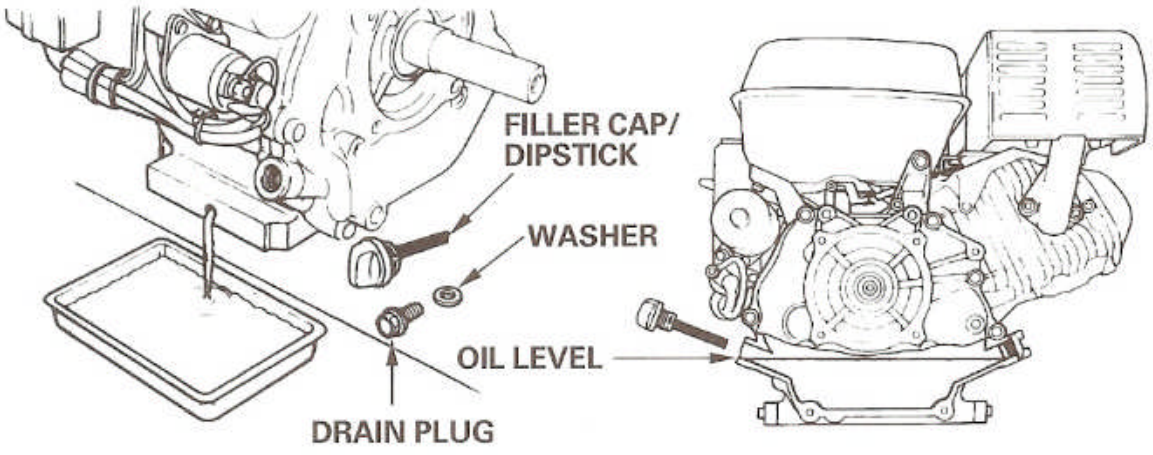
4. With the engine in a level position, fill to the outer edge of the oil filler hole with the recommended oil

   NOTICE

   Running the engine with a low oil level can cause engine damage.

   The Oil Alert® system (applicable engine types) will automatically stop the engine before the oil level falls below the safe limit. However, to avoid the inconvenience of an unexpected shutdown, fill to the upper limit, and check the oil level regularly.

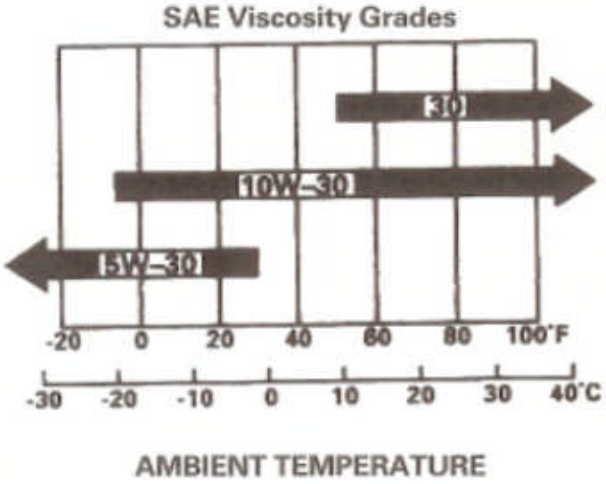
5. Screw in the filler cap/dipstick securely.



ENGINE OIL RECOMMENDATIONS

Oil is a major factor affecting performance and service life. Use 4-stroke automotive detergent oil.

SAE 10W-30 is recommended for general use. Other viscosities shown in the chart may be used when the average temperature in your area is within the recommended range.



The SAE oil viscosity and service classification are in the API label on the oil container.

QUICK REFERENCE INFORMATION

Fuel	Type	Unleaded gasoline with a pump octane rating of 86 or higher
Engine Oil	Type	SAE 10W-30, API SJ or SL, for general use
Spark Plug	Type	NGK: BPR6ES , DENSO: W20EPR-U
	Gap	0.028—0.031 in (0.70—0.80 mm)
Carburetor	Idle speed	1,400 ± 150 rpm
Maintenance	Before each use	Check engine oil level. Check transmission oil level if applicable. Check air filter.
	First 20 hours	Change engine oil. Change transmission oil if applicable.
	Subsequent	Refer to the maintenance schedule

TROUBLESHOOTING

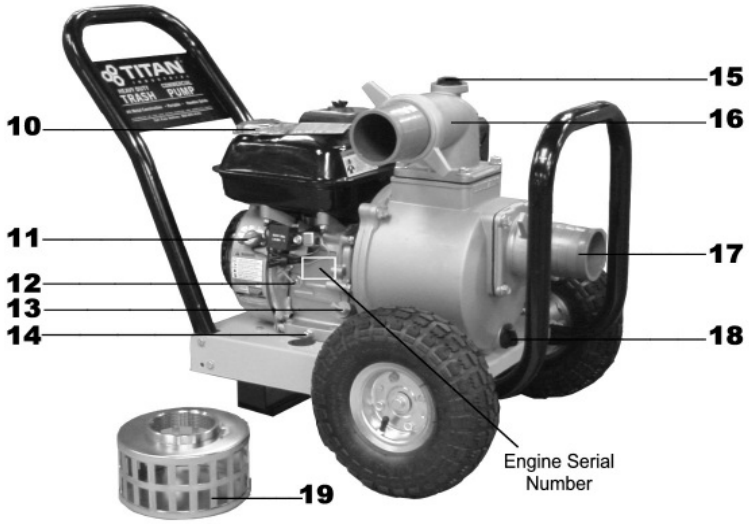
Problem	Cause	Solution
Pump Fails To Prime.	1. Not Enough liquid in casing. 2. Suction valve contaminated or damaged. 3. Air leak in suction line. 4. Lining of suction hose collapsed. 5. Leaking or worn seal or pump gasket. 6. Pump speed to slow 7. Strainer clogged 8. Suction lift too high	1. Add liquid to casing. 2. Clean or replace. 3. Correct leak 4. Replace Suction hose. 5. Check pump vacuum, replace seal or gasket. 6. Check engine. 7. Clean strainer. 8. Measure lift with vacuum gauge. Reduce lift or friction losses in suction line
Engine will not start or engine starts but runs rough and lacks power.	1.On/Off Switch is turned 'OFF'. 2.Dirty air cleaner. 3. Out of fuel. 4. Stale fuel. 5.Not enough speed or force is used for recoil start. 6.Water in fuel. 7.Low oil level. 8.Engine has lost compression.	1.Turn On/Off Switch to 'ON'. 2.Clean air filter 3.Fill fuel tank. 4.Drain fuel tank and refill. 5.Read and follow directions. 6.Drain and refill tank. 7. Add oil to proper level. 8.Contact service center.
Engine shuts down during operation.	1.Dirty air filter.	1. Replace the air filter. 2. Contact service center.

MAINTENANCE SCHEDULE

	Daily	Weekly	Monthly	3 Month
Check Oil Levels	■			
Drain Tanks	■			
Check Safety Valve		■		
Check Belts			■	

The engine requires 16oz. of oil (see page 9)

****Change oil in engine every (30) hours of use. ****



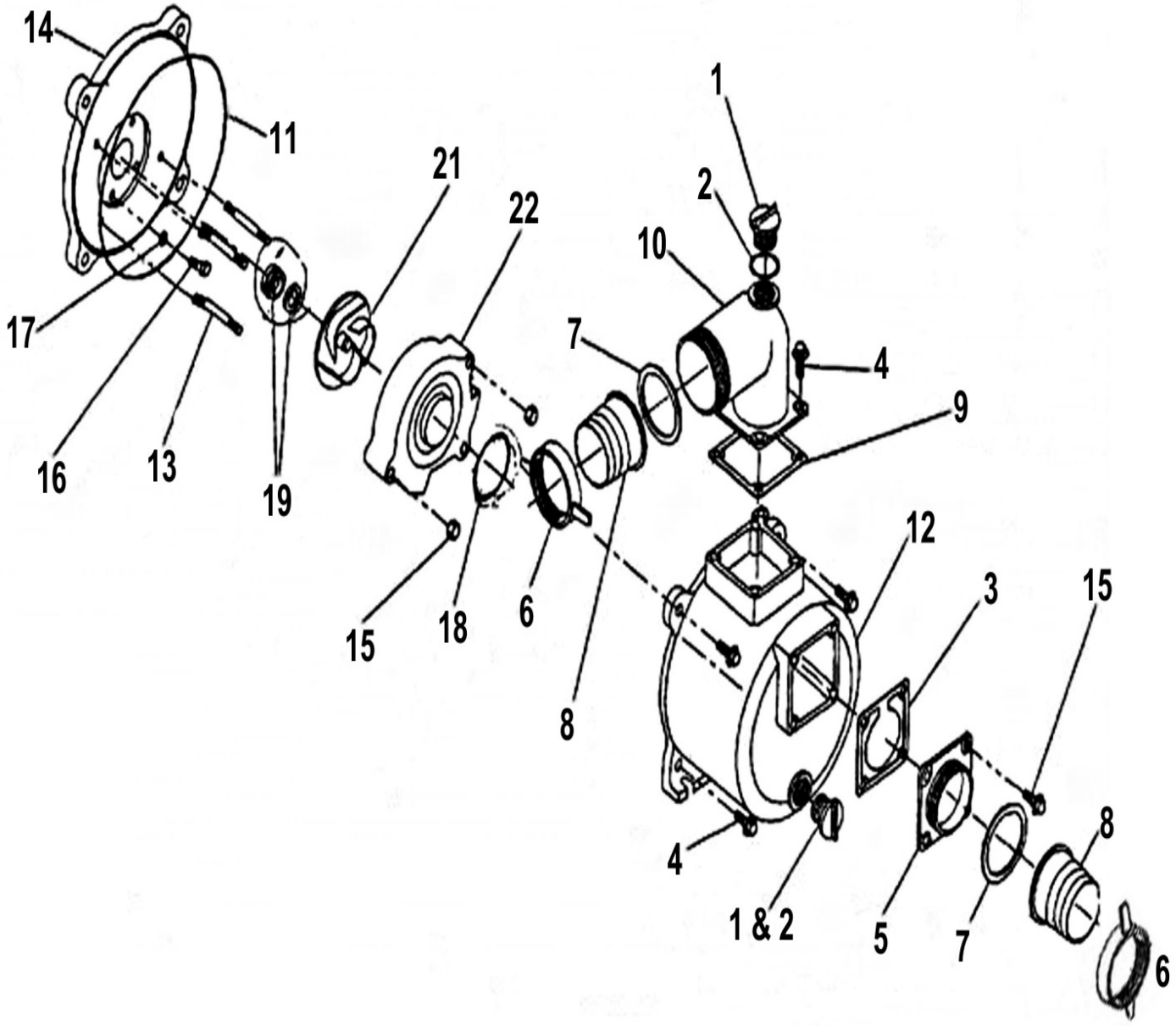
1. Exhaust
2. Air Filter
3. Throttle Lever
4. Choke Lever
5. Fuel Valve (on/off)
6. Oil Fill
7. Oil Drain
8. Serial Number
9. Pull Start (Recoil)
10. Fuel Cap
11. On/Off Switch
12. Oil Sensor
13. Oil Fill
14. Oil Drain
15. Primer Fill Cap
16. Discharge Elbow Adaptor
17. Suction Adaptor
18. Pump Drain Plug
19. Strainer

TITAN INDUSTRIAL

Parts Catalog

P.O. Box 791 • Travelers Rest, SC 29690 • Phone: (864) 834-7212 • Fax: (864) 834-5127
Service/Replacement Parts: (800) 845-4141 • www.titanindustrial.net

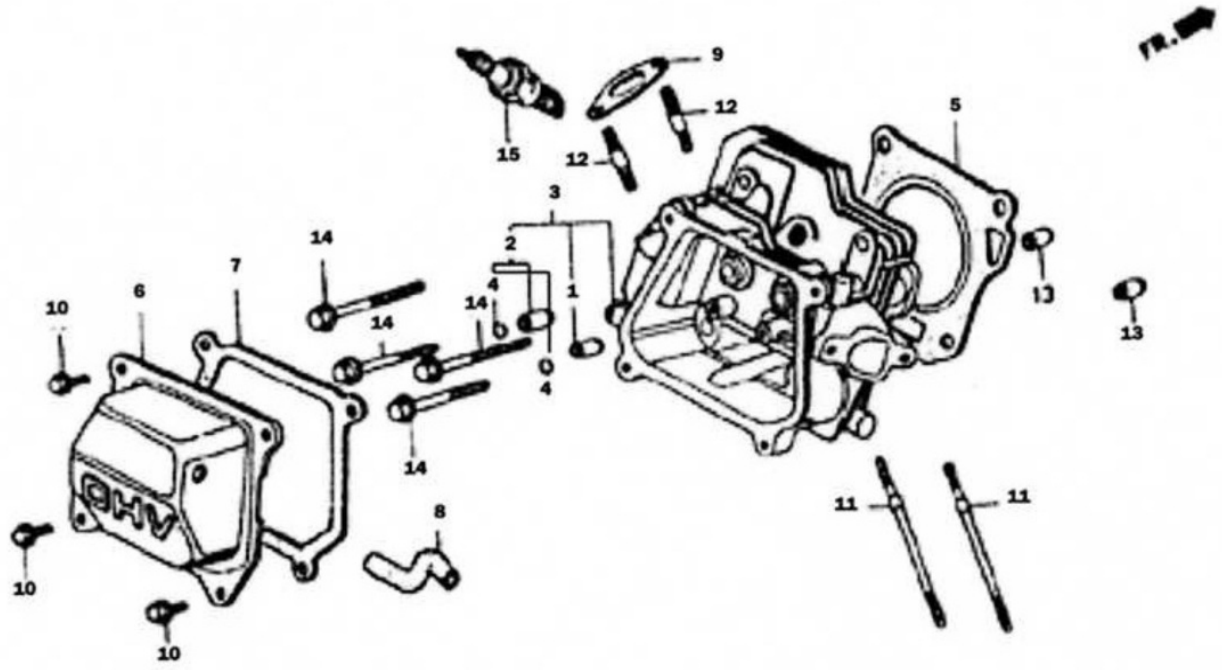
Trash Pump Breakdown



Trash Pump Part Numbers

Part Number	Qty	Part Description	Titan Part Number
1	2	Prime/Drain Plug	TP-106
2	2	O-Ring Seal	TP-106
3	1	Anti-Siphon Valve/Gasket	TP-107
4	12	M10 x 28 Hex Cap Screw	N/A
5	1	Keeper Bracket	TP-107
6	1	Nut	TP-107
7	2	Rubber Seal Gasket	TP-107
8	2	Hose Barb Connector	TP-107
9	1	Flat Rubber Gasket	TP-105
10	1	Discharge Elbow	TP-105
11	1	Pump Case O-Ring	TP-108
12	1	Pump Case	TP-101
13	3	Stud	N/A
14	1	Pump Case Cover	TP-102
15	1	Acorn Nut	TP-104
16	1	5/16-24 x 1 5/8 Hex Bolt	N/A
17	1	5/16 x .083 Washer	N/A
18	1	Rubber O-Ring	TP-108
19	1	Carbon Seal Assembly	TP-108
20	1	Suction Strainer	TP-110
21	1	Impeller	TP-103
22	1	Diffuser	TP-104

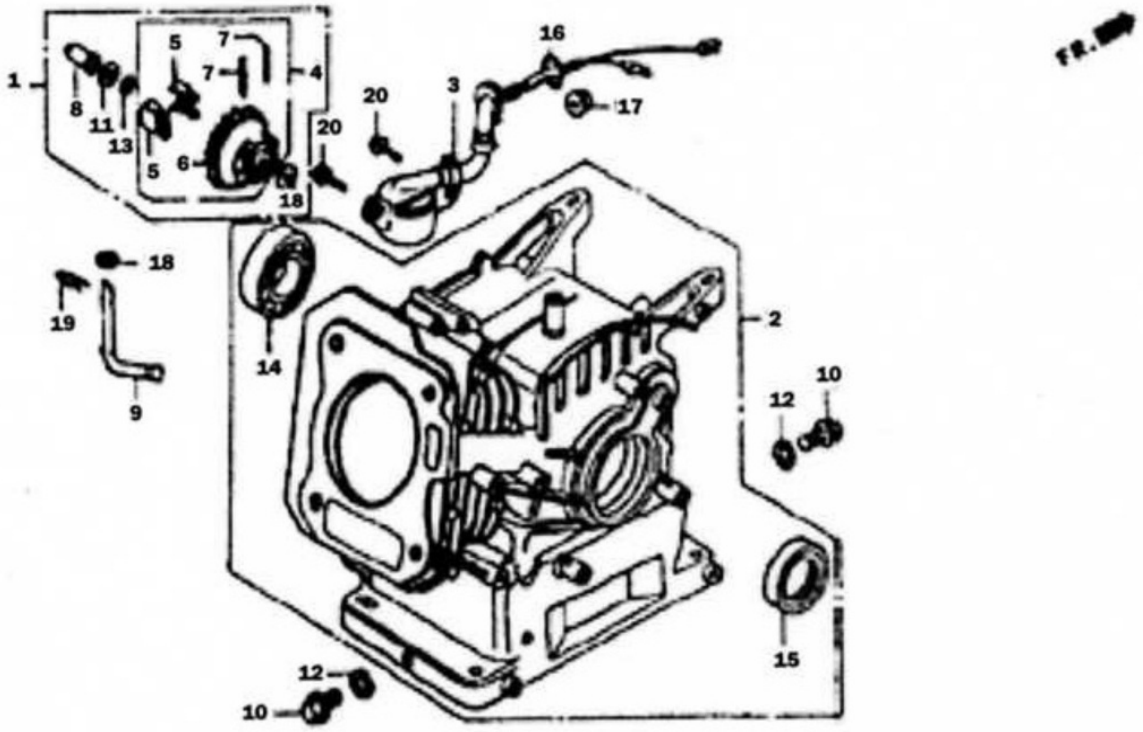
1. Cylinder Head



Part Name	Titan Part #	Part Name	Titan Part #
1. Intake Valve Guide Seal	TI 5.5-17	9. Exhaust Gasket	TI 5.5-21A
2. Exhaust Valve Guide Seal	TI 5.5-17	10. Flange Bolt M6 x 12	N/A
3. Complete Head Assembly	TI 5.5-17	11. Stud M6 x 94	N/A
4. Valve Guide Clip	TI 5.5-17	12. Stuc M6 x 32	N/A
5. Cylinder Head Gasket	TI 5.5-17A	13. Dowel Pin 10 x 16	N/A
6. Valve Cover	TI 5.5-16B	14. Flange Bolt M8 x 60	N/A
7. Valve Cover Gasket	TI 5.5-16A	15. Spark Plug	TI 5.5-29
8. Breather Pipe	TI 5.5-28		

SOME PARTS SOLD AS ASSEMBLIES

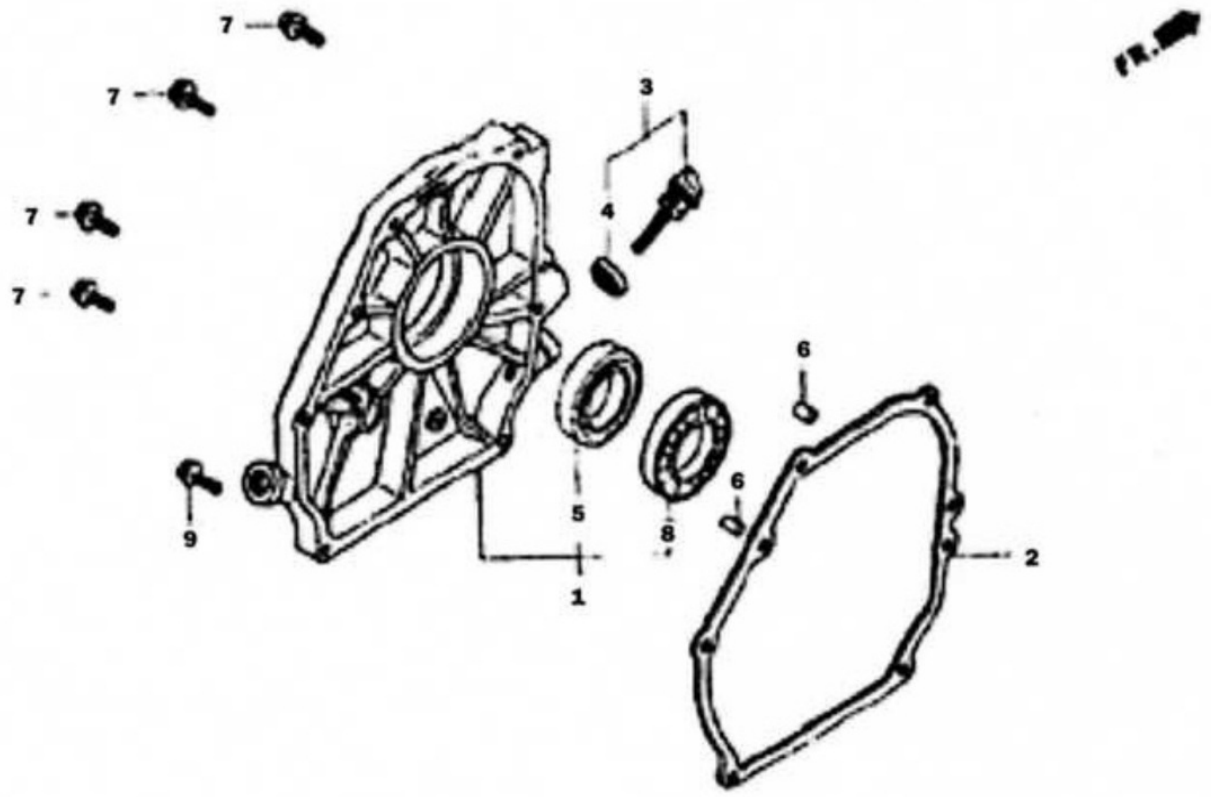
2. Crankcase Assembly



Part Name	Titan Part #	Part Name	Titan Part #
1. Complete Governor Gear Assy	TI 5.5-14	11. Thrust Washer 6mm	TI 5.5-14
2. Engine Block	TI 5.5-25	12. Drain Bolt Washer 10.2mm	TI 5.5-09A
3. Oil Sensor	TI 5.5-08	13. Governor Holder Kit	TI 5.5-14
4. Governor Gear Assy	TI 5.5-14	14. Crank Shaft Bearing	TI 5.5-30
5. Governor Weight	TI 5.5-14	15. Main Seal	TI 5.5-31
6. Slave Gear Governor	TI 5.5-14	16. O-Ring	TI 5.5-08
7. Governor Pin Weight	TI 5.5-14	17. Flange Nut 10mm	N/A
8. Governor Slider	TI 5.5-14	18. Washer 6mm	TI 5.5-15
9. **Governor Arm**	TI 5.5-08	19. Lock Pin 8mm	TI 5.5-15
10. Drain Bolt	TI 5.5-09A	20. Flange Bolt M6 x 12M	N/A

SOME PARTS SOLD AS ASSEMBLIES

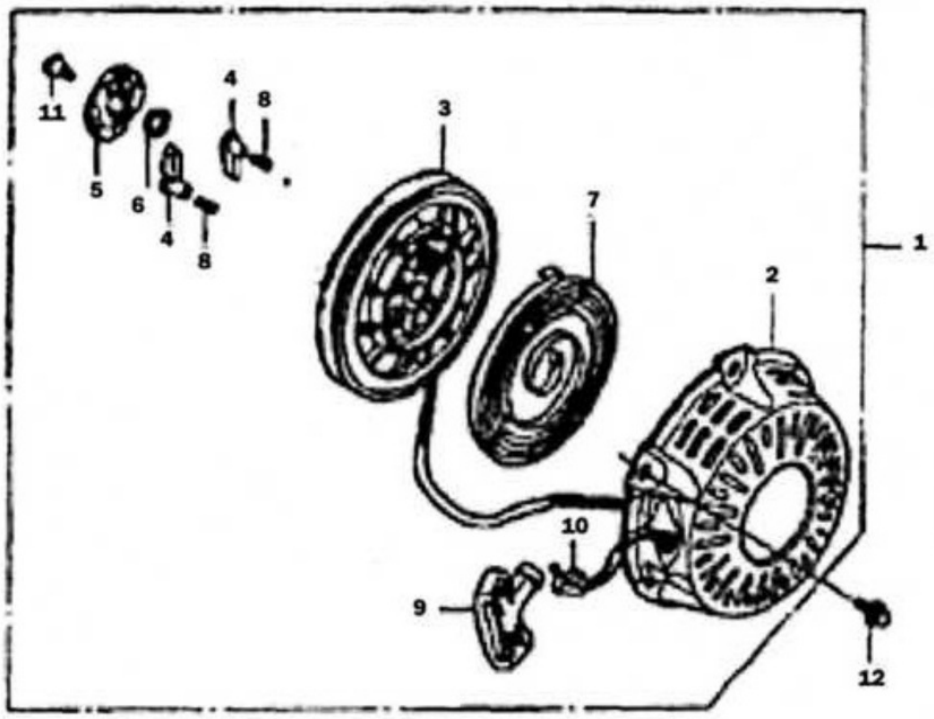
3. Crankcase Cover - PTO Side



Part Name	Titan Part #
1. Crank Case Cover	TI 5.5-12
2. Crank Case Cover Gasket	TI 5.5-13
3. Oil Fill Plug w/Dipstick	TI 5.5-09A
4. Oil Fill Plug Gasket	TI 5.5-09A
5. PTO Seal	TI 5.5-32
6. Dowel Pin 8 x 14	N/A
7. Flange Bolt M8 x 32	N/A
8. Bearing	TI 5.5-30
9. Oil Fill Plug	TI 5.5-09A

SOME PARTS SOLD AS ASSEMBLIES

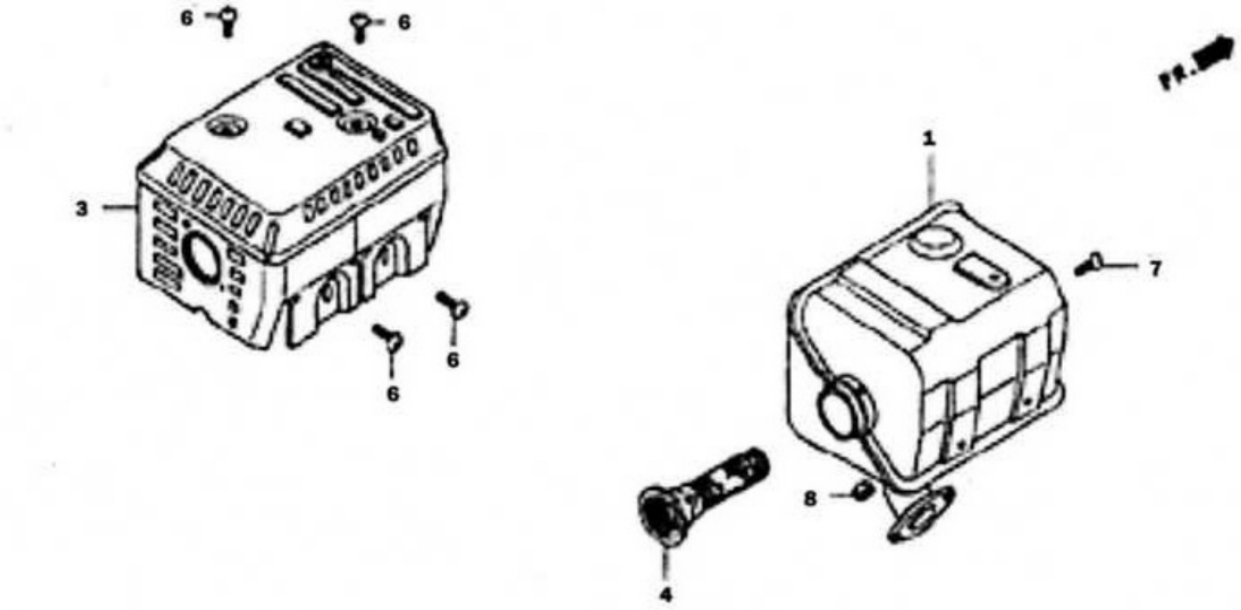
4. Recoil Starter



Part Name	Titan Part #
1. Recoil Starter Assy	TI 5.5-05
2. Recoil Starter Case Comp	TI 5.5-05
3. Recoil Starter Reel	TI 5.5-05
4. Starter Ratchet	TI 5.5-05
5. Ratchet Guide	TI 5.5-05
6. Friction Spring	TI 5.5-05
7. Recoil Starter Spring	TI 5.5-05
8. Return Spring	TI 5.5-05
9. Recoil Starter Knob	TI 5.5-05
10. Recoil Starter Rope	TI 5.5-05
11. Setting Screw	TI 5.5-05
12. Flange Bolt M6 x 6	TI 5.5-05

SOME PARTS SOLD AS ASSEMBLIES

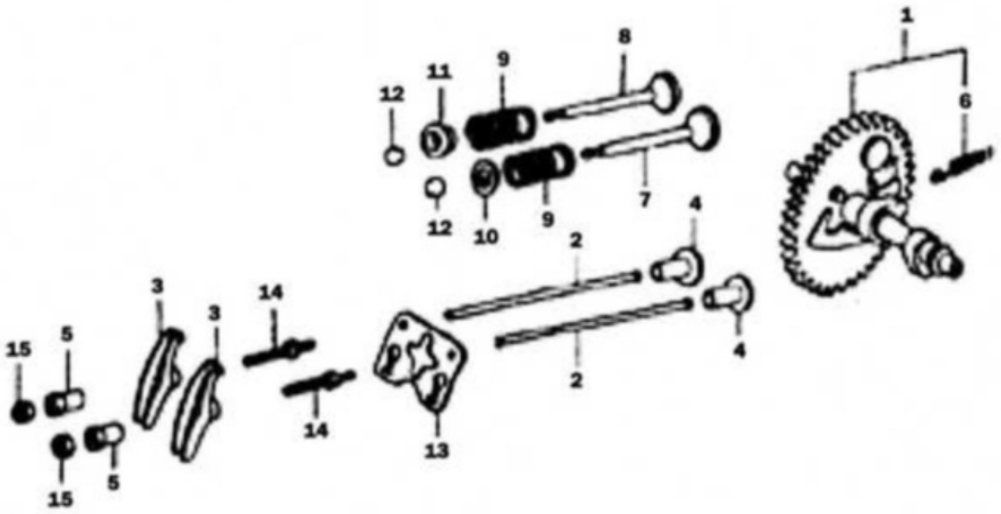
5. Muffler Component



Part Name	Titan Part #
1. Muffler Component	TI 5.5-23
3. Muffler Protector	TI 5.5-23
4. Spark Arrestor	TI 5.5-23
6. Tapping Screw M5 x 8	TI 5.5-23
7. Tapping Screw M4 x 6	TI 5.5-23
8. Hex Nut 8mm	TI 5.5-23

SOME PARTS SOLD AS ASSEMBLIES

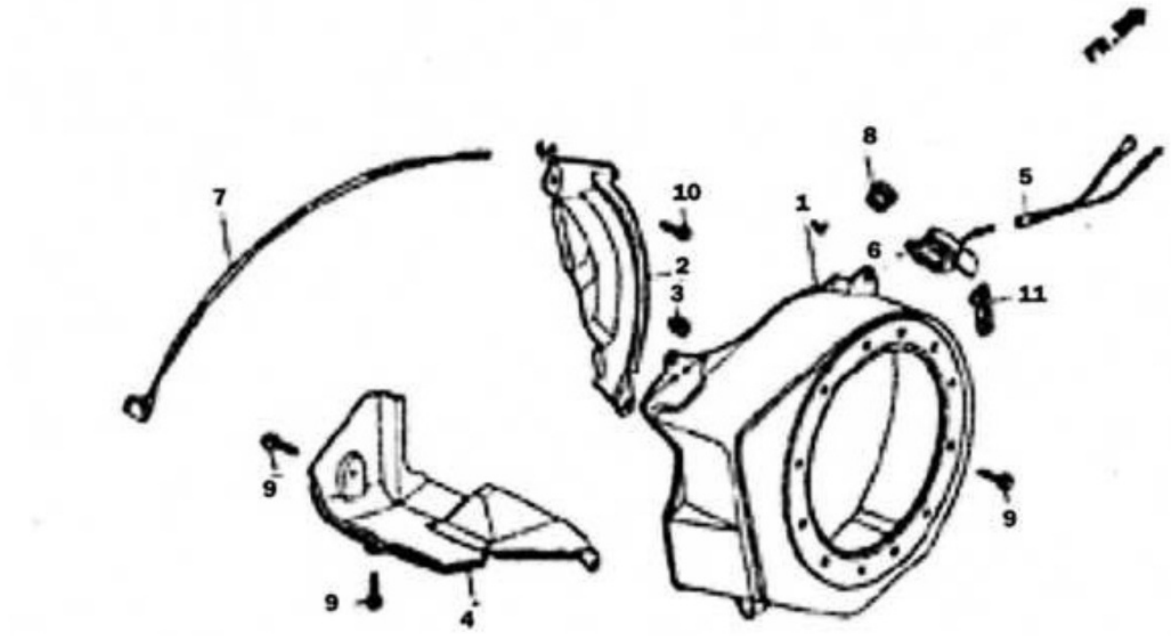
6. Camshaft



Part Name	Titan Part #
1. Cam Shaft Assembly	TI 5.5-20
2. Push Rod	TI 5.5-19
3. Valve Rocker Arms	TI 5.5-18A
4. Valve Lifter	TI 5.5-19
5. Rocker Pivot	TI 5.5-18A
6. Weight Return Spring	TI 5.5-20
7. Intake Valve	TI 5.5-16
8. Exhaust Valve	TI 5.5-16
9. Valve Spring	TI 5.5-16
10. Intake Keeper	TI 5.5-16
11. Exhaust Keeper	TI 5.5-16
12. Valve Rotator	TI 5.5-16
13. Push Rod Guide Plate	TI 5.5-21
14. Pivot Bolt M8 x 1	TI 5.5-18A
15. Pivot Adjusting Nut	TI 5.5-18A

SOME PARTS SOLD AS ASSEMBLIES

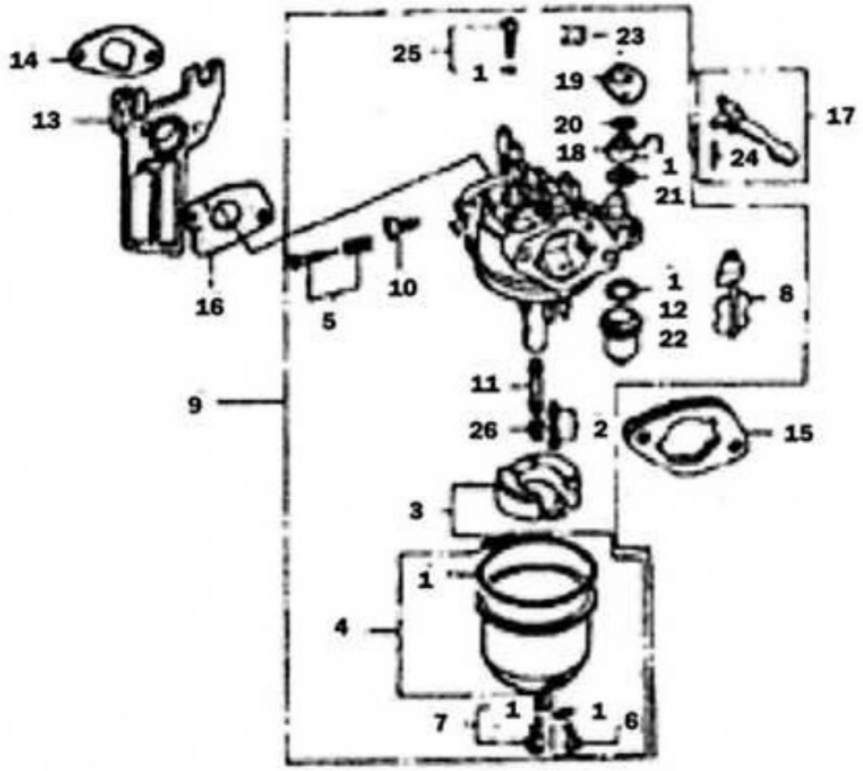
7. Fan Cover



Part Name	Titan Part #
1. Blower Housing	TI 5.5-06
2. Side Plate	N/A
3. Cord Clamp	N/A
4. Heat Shroud Component	N/A
5. On/Off Switch Wires	TI 5.5-07
6. On/Off Switch	TI 5.5-07
7. Ignition Ground Wire	TI 5.5-26
8. Replacement **Grommet**	N/A
9. Flange Bolt M6 x 12	N/A
10. Flange Bolt M 6 x 20	N/A
11. Wire Harness Tie	N/A

SOME PARTS SOLD AS ASSEMBLIES

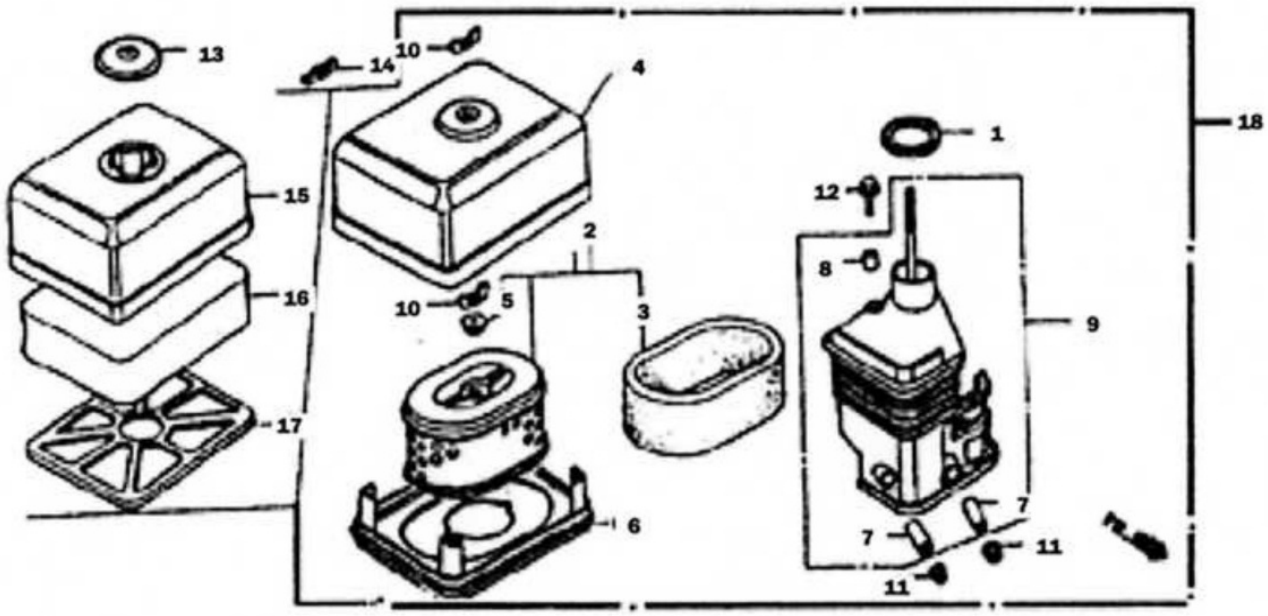
8. Carburetor



Part Name	Titan Part #	Part Name	Titan Part #
1. Gaskets	TI 5.5-03	14. Insulator Packing	TI 5.5-03
2. Float Valve Set	TI 5.5-03	15. Carburetor Spacer Comp.	TI 5.5-03
3. Float Set	TI 5.5-03	16. Carburetor Packing	TI 5.5-03
4. Float Chamber Set	TI 5.5-03	17. Choke Lever	TI 5.5-03
5. Pilot Screw Set	TI 5.5-03	18. Cock Lever	TI 5.5-03
6. Drain Screw Set	TI 5.5-03	19. Lever Setting Plate	TI 5.5-03
7. Screw Set	TI 5.5-03	20. Choke Lever	TI 5.5-03
8. Choke Set	TI 5.5-03	21. Fuel Cock Packing	TI 5.5-03
9. Carburetor Assembly	TI 5.5-03	22. Fuel Strainer Cup	TI 5.5-03
10. Throttle Adjusting Screw	TI 5.5-03	23. span Screw M3 x 8	TI 5.5-03
11. Main Nozzle	TI 5.5-03	24. Spring Pin M2 x 12	TI 5.5-03
12. Fuel Strainer Cup Packing	TI 5.5-03	25. Main Jet #65, 68, 70	TI 5.5-03
13. Carburetor Insulator	TI 5.5-03	26. Pilot Jet #38	TI 5.5-03

SOME PARTS SOLD AS ASSEMBLIES

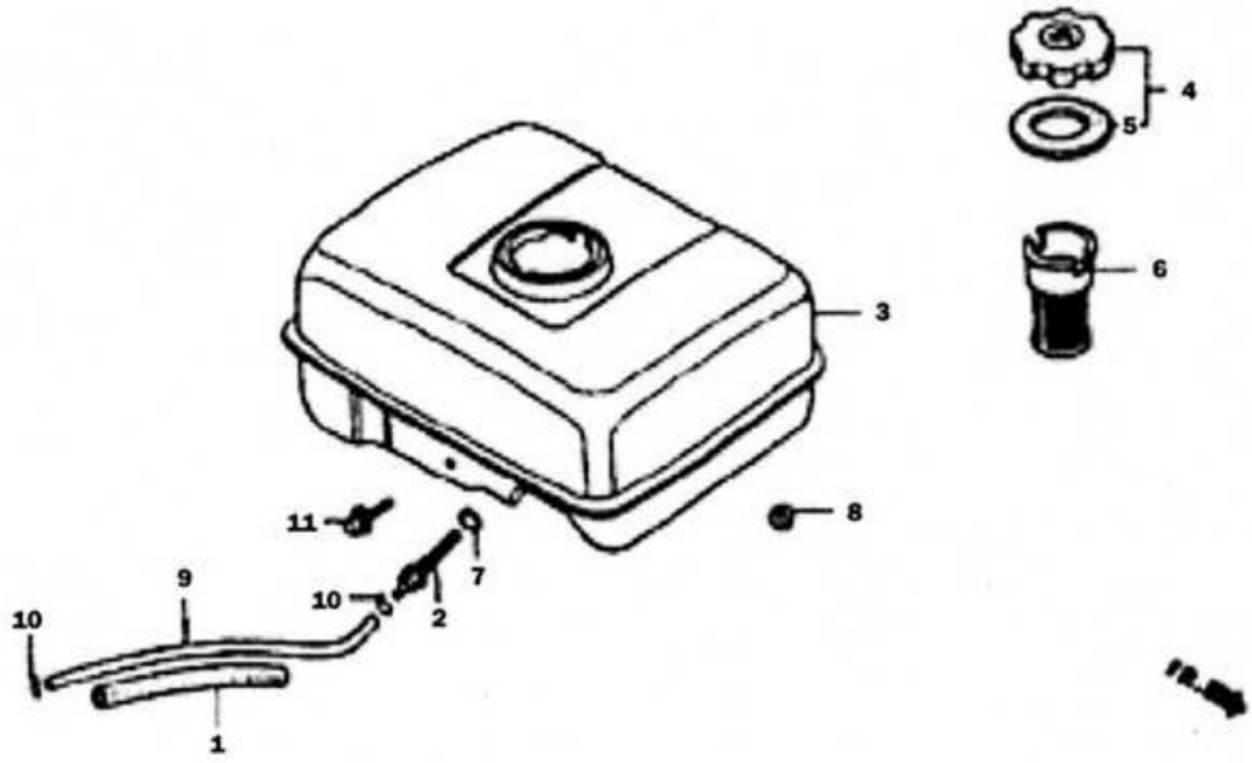
9. Air Cleaner



Part Name	Titan Part #	Part Name	Titan Part #
1. Gasket	TI 5.5-24	10. Wing Nut	TI 5.5-24
2. Air Filter	TI 5.5-23A	11. Flange Nut M6	TI 5.5-24
3. Pre Filter	TI 5.5-23A	12. Flange Nut M6 x 20	TI 5.5-24
4. Air Filter Cover	TI 5.5-24	13. Washers	TI 5.5-24
5. Grommet	TI 5.5-24	14. Wing Nut	TI 5.5-24
6. Air Filter Plate	TI 5.5-24	15. Air Filter Cover	TI 5.5-24
7. Air Filter Collar	TI 5.5-24	16. Air Filter	TI 5.5-23A
8. Air Filter Collar (b)	TI 5.5-24	17. Air Filter Plate	TI 5.5-24
9. Air Filter Elbow Component	TI 5.5-24	18. Air Filter Assembly	TI 5.5-24

SOME PARTS SOLD AS ASSEMBLIES

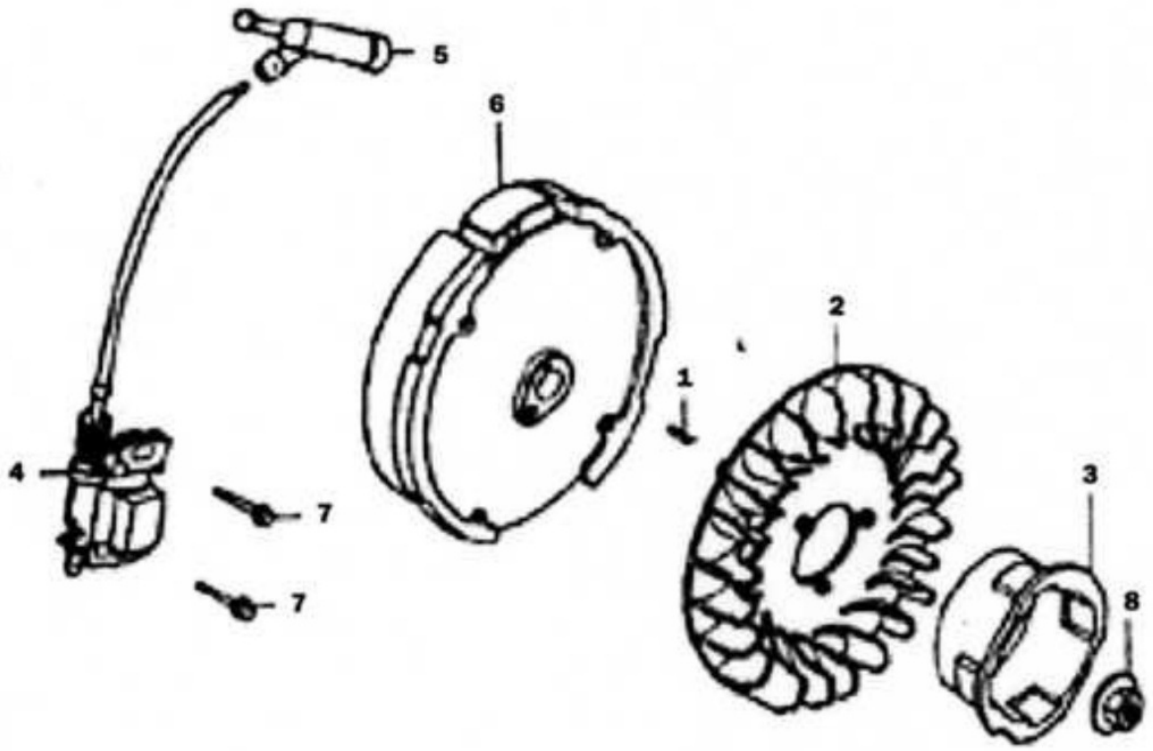
10. Fuel Tank



Part Name	Titan Part #
1. Protective Rubber Hose	TI 5.5-04
2. Fuel Filter	TI 5.5-02A
3. Fuel Tank	TI 5.5-02
4. Fuel Cap	TI 5.5-02B
5. Fuel Cap Gasket	TI 5.5-02B
6. Fuel Cap Screen	TI 5.5-02C
7. Fuel Filter O-Ring	TI 5.5-02B
8. Flange Nut M6	N/A
9. Flange Nut M4.5 x 140	N/A
10. Clamp	TI 5.5-04
11. Flange Bolt M6 x 25	N/A

SOME PARTS SOLD AS ASSEMBLIES

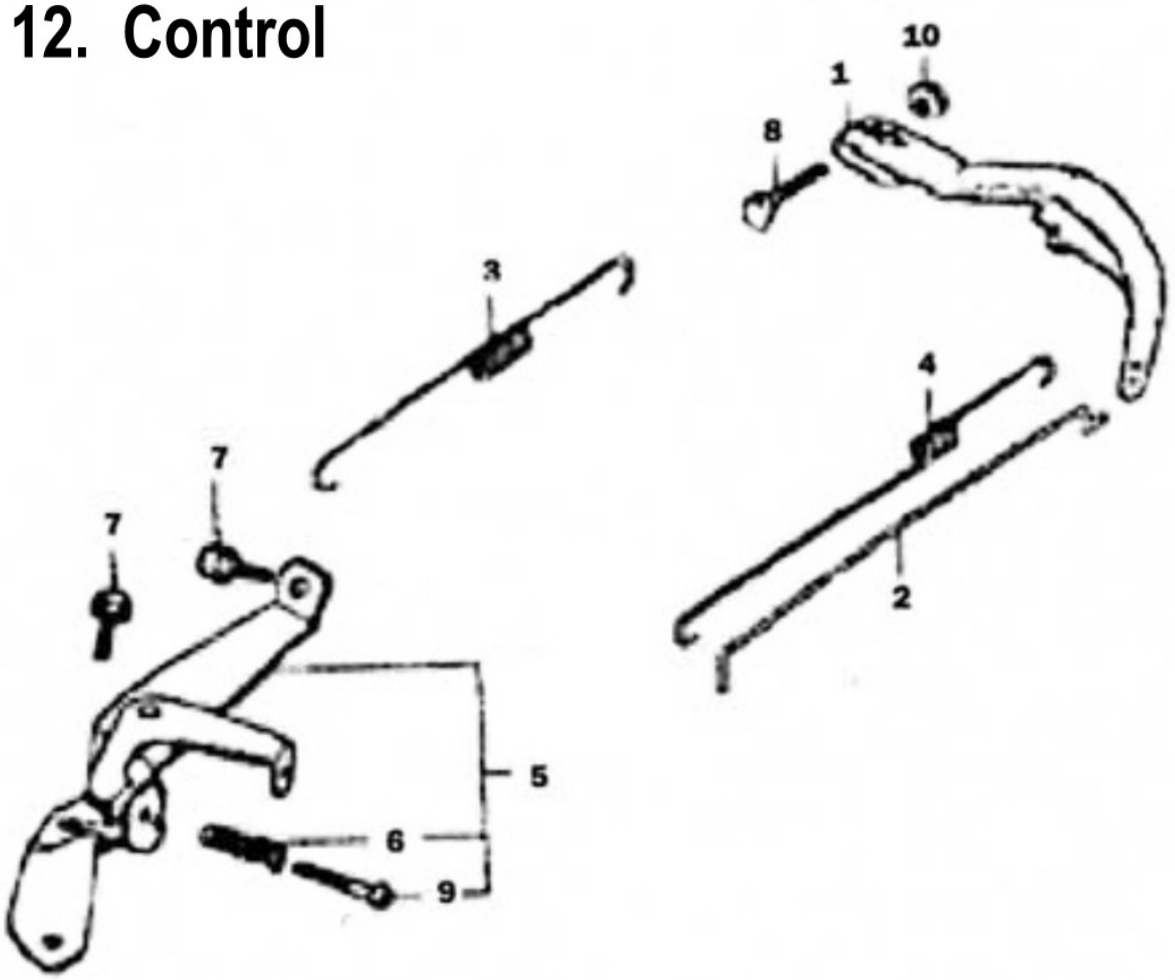
11. Flywheel



Part Name	Titan Part #
1. Woodruff Key	N/A
2. Cooling Fan	TI 5.5-27
3. Recoil Cup	TI 5.5-05A
4. Ignition Coil	TI 5.5-26
5. Spark Plug Cap	TI 5.5-26
6. Flywheel	TI 5.5-27
7. Flange Bolt M6 x 25	N/A
8. Special Nut M14	N/A

SOME PARTS SOLD AS ASSEMBLIES

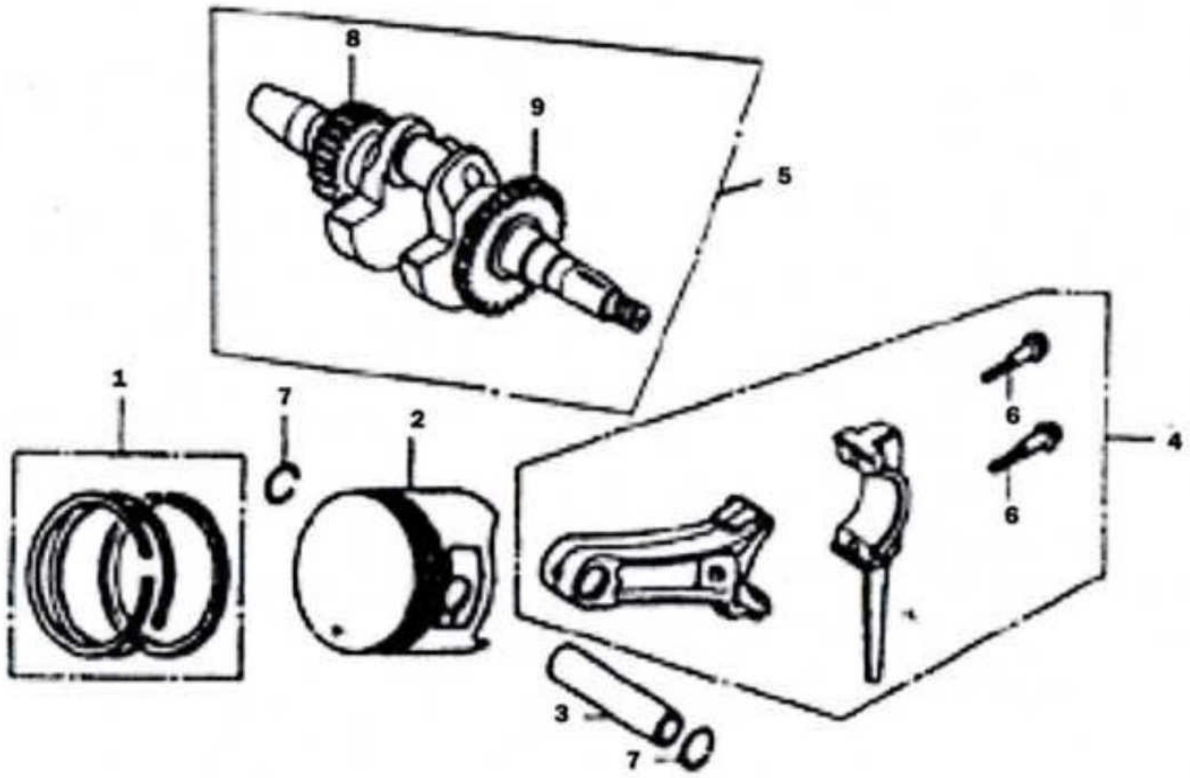
12. Control



Part Name	Titan Part #
1. Governor Arm	TI 5.5-15
2. Governor Rod	TI 5.5-15
3. Governor Spring	TI 5.5-15
4. Throttle Return Spring	TI 5.5-15
5. Control Assembly	TI 5.5-33
6. Spring	TI 5.5-33
7. Flange Bolt M6 x 12	N/A
8. Governor Arm Bolt	N/A
9. Control Bolt	TI 5.5-33
10. Flange Bolt M6	N/A

SOME PARTS SOLD AS ASSEMBLIES

13. Crankshaft - Piston



Part Name	Titan Part #
1. First, Second, Third Ring Set, Piston	TI 5.5-18
2. Piston	TI 5.5-18
3. Piston Pin	TI 5.5-18
4. Connecting Rod Assembly	TI 5.5-18
5. Crankshaft Comp	TI 5.5-10
6. Connecting Rod Bolt	TI 5.5-18
7. Piston Pin Clip 18mm	TI 5.5-18
8. Timing Master Gear	TI 5.5-10
9. Speed Regulating Drive Gear	TI 5.5-10

SOME PARTS SOLD AS ASSEMBLIES

The list of control torque on the 5.5hp engine assembling line

Gap/Torque SAE			
Item	**Torque(N.M)**	**Lower/Upper**	
Drain bolt	**15~18**	**11-13**	**lbf-ft**
Oil sensor	**5~8**	**44-71**	**lbf-in**
The bolt fix wire of oil sensor	**5~8**	**44-71**	**lbf-in**
Oil level cap ass	**6~8**	**53-71**	**lbf-in**
Spark plug	**20~25**	**15-18**	**lbf-ft**
Stud A of inlet air admission	**9.8~12**	**87-106**	**lbf-in**
Stud B of exhaust gas	**12~15**	**106-133**	**lbf-in**
Pivot bolt M8	**22~25**	**16-18**	**lbf-ft**
Connecting rod bolt	**12~14**	**106-124**	**lbf-in**
Flange bolt	**18~24**	**13-18**	**lbf-ft**
Distributor M6*27	**9.8~12**	**87-106**	**lbf-in**
Flange bolt of cylinder head M8*55	**22~25**	**16-18**	**lbf-ft**
Pivot adjusting nut for inlet, exhaust valve	**9.8~10**	**87-89**	**lbf-in**
Flange bolt for head cover	**9.8~12**	**87-106**	**lbf-in**
The bolt for crankcase cover M6*14	**9.8~12**	**87-106**	**lbf-in**
Side plate M6*12	**9.8~12**	**87-106**	**lbf-in**
Support of governor	**9.8~12**	**87-106**	**lbf-in**
Nut for carburetor M6	**9.8~12**	**87-106**	**lbf-in**
Nut for muffler M8	**13~15**	**115-133**	**lbf-in**
Spark plug	**20~25**	**15-18**	**lbf-ft**
Rocker bolt	**20~25**	**15-18**	**lbf-ft**
Connecting rod bolt	**15~20**	**11-15**	**lbf-ft**
Cover bolt	**20~26**	**15-19**	**lbf-ft**
Cylinder head bolt	**26~35**	**19-26**	**lbf-ft**
Flywheel nut	**60~74**	**44-55**	**lbf-ft**
Spark plug electrode gap	**0.7~0.8mm**	**0.028-0.032**	**in**
Ignition gap	**0.4~0.6mm**	**0.016-0.024**	**in**
Inlet valve gap	**0.15±0.02mm**	**0.005-0.007**	**in**
Exhaust valve gap	**0.20±0.02mm**	**0.007-0.009**	**in**

Titan Industrial
Commercial 3 X 3 Trash Pump
TTP 300

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Engine Type	Titan
Horse Power	5.5 HP
Fuel	Low Octane Gas
Fuel Capacity	2.3 Gallons
Ignition System	Pull Start
Dimensions (inches)	L-36" W-21 1/2" H-25"
Net Weight	84 LBS
Warranty	1 Year
Gallons per minute	264 gpm

Titan Industrial
PO Box 791
Travelers Rest, SC 29690
Phone: (864) 834-7212
Toll Free: 888-828-8126
www.titanindustrial.net

TITAN
INDUSTRIAL

Commercial Trash Pump

TTP - 300
3 X 3 Trash Pump

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Service/Replacement Parts: (800) 845-4141 • www.titanindustrial.net