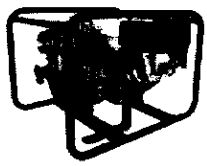
Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Dayton™ Engine Driven Pumps

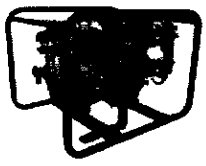
ENGLISH

Description

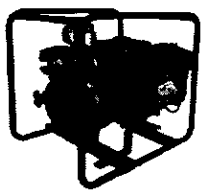
Dayton Engine Driven Pumps are non-submersible pumps designed from quality materials to provide long life in water evacuation applications. The combination of a Honda or Robin Subaru 4-stroke engines with corrosion resistant and lightweight aluminum pump housings and cast iron volutes provide portable and reliable pump service. These pumps are designed for trash handling pumping applications for solids no larger than 13/16" in diameter for the 4VV65 and 4VV66. The 4VV69, 4VV70, 4VV71, and 4VV72 are designed for trash handling pumping application for solids no larger than 1⅛" in diameter. Pumps also include a replaceable stainless steel wear plate. These units are all self-priming to 25-ft. The pump motors are gasoline operated, non-submersible and air-cooled. Primary uses for these pumps are dewatering, irrigation, and draining, for fluids containing solids no larger than the maximum solids handling capacity of the pump. Pumps include a built-in check valve to prevent backflow and frame for protection and portability.



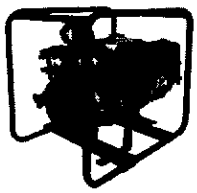
4VV65



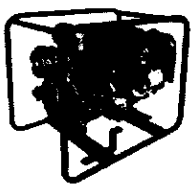
4VV66



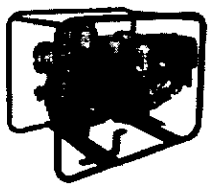
4VV69



4VV70



4VV71



4VV72

General Specifications

Model No.	Hp	Engine Model	RPM	Engine Type	Suction Port Size (NPT)	Discharge Port Size (NPT)	Max. Suction Lift (Feet)	Max. Solids Handling	Max. Fluid Temp.
4VV65	5.5	Honda GX160	3600	4-Stroke OHV	2"	2"	25'	13/16"	105°F / 41°C
4VV66	6.0	Robin Subaru EX17	3600	4-Stroke OHC	2"	2"	25'	13/16"	105°F / 41°C
4VV69	9.0	Robin Subaru EX27	3600	4-Stroke OHC	3"	3"	25'	1⅛"	105°F / 41°C
4VV70	8.0	Honda GX240	3600	4-Stroke OHV	3"	3"	25'	1⅛"	105°F / 41°C
4VV71	11.5	Robin Subaru EH36	3600	4-Stroke OHV	4"	4"	25'	1⅛"	105°F / 41°C
4VV72	11.0	Honda GX340	3600	4-Stroke OHV	4"	4"	25'	1⅛"	105°F / 41°C

(Engine specifications are for reference only. See engine manufacturers' operation and instruction manual for engine specifications.)

Pump Material Specifications

Model No.	Pump Casing	Impeller	Volute	Seal	Check Valve	Frame	Weight	Dimensions L x W x H (in.)
4VV65	Aluminum	Cast Iron	Cast Iron	Silicon Carbide / Buna	Buna / Steel	Steel	82 lbs.	22½ x 17⅞ x 15½
4VV66	Aluminum	Cast Iron	Cast Iron	Silicon Carbide / Buna	Buna / Steel	Steel	82 lbs.	22½ x 17⅞ x 15½
4VV69	Aluminum	Cast Iron	Cast Iron	Silicon Carbide / Buna	Buna / Steel	Steel	121 lbs.	26½ x 19 x 24
4VV70	Aluminum	Cast Iron	Cast Iron	Silicon Carbide / Buna	Buna / Steel	Steel	130 lbs.	26½ x 19 x 24
4VV71	Aluminum	Cast Iron	Cast Iron	Silicon Carbide / Buna	Buna / Steel	Steel	155 lbs.	28¾ x 19 x 24
4VV72	Aluminum	Cast Iron	Cast Iron	Silicon Carbide / Buna	Buna / Steel	Steel	155 lbs.	28¾ x 19 x 24

Form 555146

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Dayton™ Engine Driven Pumps

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Performance Chart

Model No.	GPH of Water @ Total Ft. of Head 10	20	40	60	80	100	Shut-Off (Feet)
4VV65	9,900	9,420	7,980	5,400	1,800	–	88
4VV66	9,900	9,420	7,980	5,400	1,800	–	88
4VV69	19,200	18,300	15,000	10,200	4,080	–	90
4VV70	19,200	18,300	15,000	10,200	4,080	–	90
4VV71	25,800	24,600	17,400	9,000	0	–	80
4VV72	25,800	24,600	17,400	9,000	0	–	80

Dimensions

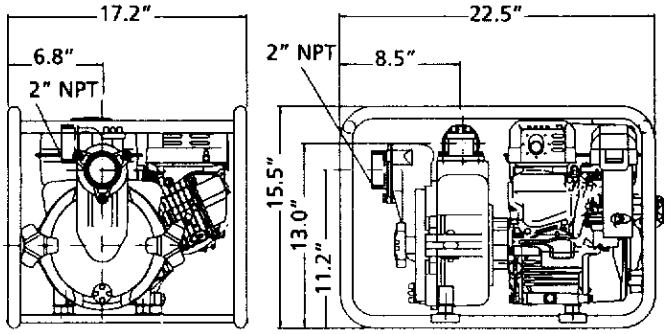

Figure 1 – Dimensions for Models 4VV65 and 4VV66

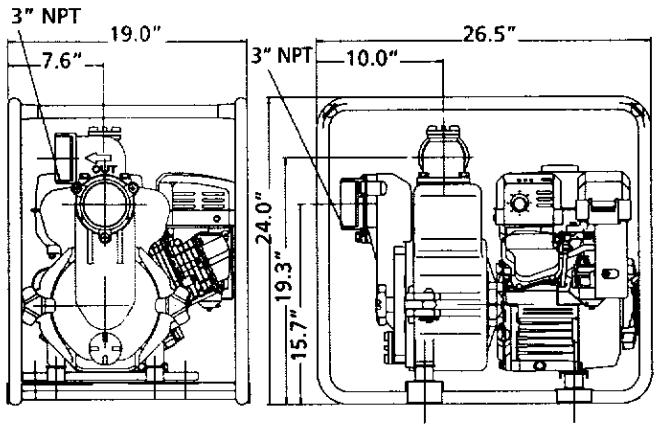

Figure 2 – Dimensions for Models 4VV69 and 4VV70

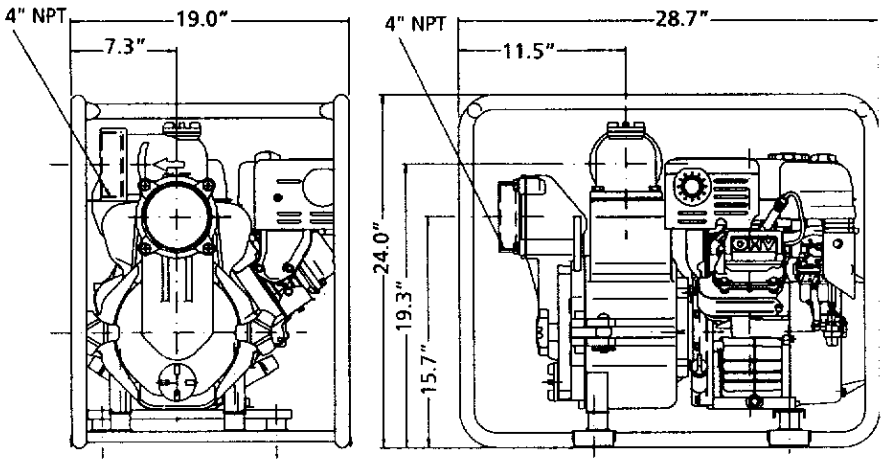

Figure 3 – Dimensions for Models 4VV71 and 4VV72

Models 4VV65, 4VV66, 4VV69, 4VV70, 4VV71 and 4VV72

Unpacking

Upon receiving the pump, it should be inspected for damage or parts shortages. If damage has occurred, file a claim immediately with the carrier that delivered the pump. If the manual is removed from the packaging, do not lose or misplace.

⚠CAUTION ***Do not operate unit if damaged during shipping, handling or use. Damage may cause injury or property damage.***

Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

⚠DANGER ***Danger indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.***

⚠WARNING ***Warning indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.***

⚠CAUTION ***Caution indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.***

⚠ NOTICE ***Notice indicates important information, that if not followed, may cause damage to equipment.***

General Safety Information

1. Read product manual carefully prior to pump operation. Know the typical pumping application, limitations, and potential hazards associated with operating this type of pumping equipment.
2. Carefully read the instruction manual(s) supplied by the engine manufacturer prior to pump operation or before attempting to assemble, operate, or service the engine or any part. Know the typical limitations and potential hazards associated with operating gasoline engine driven equipment. The WARNING statements indicate potentially hazardous conditions for operator or equipment. TAKE NECESSARY STEPS TO PROTECT PERSONNEL AND EQUIPMENT.

⚠DANGER ***Never run the pump in an enclosed area. Pump should only be operated in well-ventilated areas. Engines produce exhaust gas containing odorless and poisonous carbon monoxide gas. Provide adequate ventilation and prevent fire hazards, by operating the pump at least 3 ft (1 m) away from any buildings and other equipment.***

Operate the pump on a level surface to prevent fuel spills.

⚠DANGER ***Do not use to pump flammable or explosive fluids such as gasoline, fuel oil, kerosene, etc. Do not use in flammable and/or explosive atmospheres. Pump should only be used with liquids compatible with pump materials of construction. This pump was designed to pump water only. Exposure to chemicals can be hazardous. Failure to follow this warning can result in death, serious personal injury and/or property damage.***

⚠WARNING ***Keep away from rotating parts while the pump is running. Prevent accidental pump starting by always removing the spark plug or disconnecting and grounding the spark plug wire before attempting to service the unit or remove any component.***

Keep children and pets away from the pump when it is in operation.

⚠WARNING ***This product is not for use in swimming pools or any body of water where water recreation is present.***

⚠CAUTION ***Never permit anyone to operate the pump without proper training. Know how to stop the pump quickly and understand the operation of all of the controls.***

3. Secure discharge line before operating pump. An unsecured discharge line will whip and may cause personal injury and/or property damage.
4. Provide a means of pressure relief for any pump whose discharge line can be shut-off or obstructed.
5. **Personal Safety**
   a. Wear safety glasses at all times when working with pumps.
   b. Wear proper face guard and other apparel necessary if chemicals are used.
   c. Keep work area clean, uncluttered and properly lighted; replace all unused tools and equipment.
   d. Keep visitors at a safe distance from the work area.
   e. Make workshop childproof with padlocks, master switches, and by removing starter keys.

⚠WARNING ***Gasoline is a highly combustible fuel. The improper use, handling, or storage of gasoline can be dangerous. Prevent accidents by following these safety rules:***

   a. Use gasoline only as a fuel; never as a cleaning fluid.

Dayton™ Engine Driven Pumps

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General Safety Information (Continued)

b. Use only an approved container to hold or store gasoline. Never store gasoline in familiar containers such as milk containers or soda pop bottles.

c. Store gasoline in a cool location, out of the reach of children. Never store gasoline near heat or an open flame.

d. Provide a fire extinguisher nearby when working with gasoline. Be sure extinguisher is in operating condition – check the pressure gauge or indicator. Be familiar with its proper use. Consult local fire department for the correct type of extinguisher for your application. Extinguishers rated ABC by the National Fire Protection Association are appropriate for most applications.

e. Provide positive shut-off valves on all permanent fuel supplies. Fuel lines must be of steel piping, adequately secured, and free from leaks.

f. Provide adequate ventilation, and clean up any spills when handling or pumping flammable liquids.

g. POSITIVELY NO SMOKING!

6. Do not use torches or apply fire or flame to this pump for any reason.
7. Secure the discharge line before starting the pump. An unsecured discharge line will slip, possibly causing personal injury and/or property damage.
8. Do not overtighten threaded fittings. One full turn past hand tight is usually enough to prevent leakage. Teflon sealant tape is provided and should be used on all threaded joints, including the spout.
9. Check hoses for weak or worn condition before each use, making certain that all connections are secure.
10. Periodically inspect pump and system components. Perform routine maintenance as required.
11. Drain all liquids from the system before servicing.

⚠ NOTICE ***All engine controls, instructions, specifications, maintenance, repair facility information, and warranty information are included in the engine manufacturers' owners operation and instruction manual. Engine warranty, service and repair are handled through the engine manufacturer. Do not return product to local branch for engine problems. Engine service, parts, repair and warranty must be handled through the engine manufacturers' existing service network.***

Operation

IMPORTANT: For installations where property damage might result from an inoperative or leaking pump due to power outages, discharge line blockage, or any other reason, a back-up system(s) and/or warning system(s) should be used.

1. Locate the pump as close to the fluid source as possible, making the suction line as short and direct as possible.

⚠CAUTION ***The unit should be placed where the pumplengine is protected from the weather and extremes of heat, cold and humidity.***

2. The unit should be set on a solid foundation. Operation on a solid foundation reduces the risk of fuel spillage or damage to unit from falling over.

⚠CAUTION ***Do not use a restricting or shut-off valve at the discharge. This will seriously restrict the pump capacity.***

3. Connect the suction hose (not included). Use a reinforced wall or wire braided hose to prevent suction hose collapse. Hose size should be at least the same size as the suction port size. Use short hoses if possible to reduce self-priming time. A smooth upward slope from the water source to the pump will provide the best performance and quickest priming time. Use the least number of piping or hose connections possible. Air leaks in the suction line will prohibit the pump from priming. Always use a correctly sized suction strainer with the suction hose. Suction strainer should match the solids handling capacity of the pump. Gravel or trash can get pulled into the pump suction and can damage the impeller without the use of a suction strainer. A foot valve may also be used on the suction line and is recommended when the suction lift is greater than 10 feet. Foot valve will assist in faster pump priming.
4. Connect the discharge hose (not included). Always use a hose band with a fabric hose to prevent the hose from disconnecting under high pressure. Hose size should be at least the same size as the discharge port size. Discharge piping may be larger than the discharge port size when long horizontal discharge runs are involved.
5. Check the engine oil level. Pump engines do not have oil. Oil must be added to engine prior to pump operation. Engine will not start unless correct amount of engine oil has been added. See engine manufacturers' owners' instruction and operation manual for engine oil filling details. Check engine oil levels

Models 4VV65, 4VV66, 4VV69, 4VV70, 4VV71 and 4VV72

Operation (Continued)

frequently to maximize engine life. Be sure to check the engine on a level surface with the engine stopped. Use only SAE detergent motor oils.

6. Check the engine fuel level. Pump engines do not have fuel. Fuel must be added to the engine fuel tank prior to pump operation. See engine manufacturers' owners' instruction and operation manual for engine fuel filling details. Use fresh, clean unleaded automotive gasoline. Fill to fuel filter shoulder.
7. Prime pump prior to operation. Fill the pump housing before operating. Never operate the pump without priming. Dry operation will damage the pump seal and cause the pump to overheat. If the unit has been operated dry, stop the engine immediately and allow the pump to cool before adding priming water to the pump housing. Cool water added to the pump housing will thermally shock and crack the pump seal. Once pump is primed, intermittent or continuous operation is permissible as long as the suction is maintained. If suction is not maintained or "broke", the pump must be primed again prior to operation.
8. These products are designed to pump water only, including solids no larger than the rated size shown in the General Specifications table. They are not designed to pump any fluids other than water.
9. These units have a built in check valve in the suction port which prevents the backflow of water. Operation without check valve will allow water to drain back down the suction line. Replacement check valves are available through Grainger Parts (see parts breakdown for parts details).
10. Pump engine is equipped with a low oil sensor. This sensor automatically shuts off the engine in the event that the oil level drops too low to safely lubricate and cool the engine. In the case of low oil shut down, do not attempt to restart pump. Stop operation immediately and fill engine with oil as described by the engine manufacturers' owners instruction and operation manual engine oil filling details.

STARTING AND STOPPING INSTRUCTIONS

See engine manufacturers' owners instruction and operation manual for engine starting and stopping instructions.

Maintenance

1. Inspect pump prior to every use for loose nuts and bolts. Tighten as needed.
2. Keep unit clean.
3. Drain all fluids from the system and release system pressure prior to servicing pump.
4. Look for fuel or oil leaks. Have engine repaired or replace engine. See engine manufacturers' owners manual for engine service center network / locations.
5. Inspect suction and discharge hoses for leaks. Repair or replace as necessary.
6. After every 100 to 150 hours of operation:
   a. Remove the pump casing, and clean it with water.
   b. Change the engine oil while the engine is warm.
   c. Clean the air filter sponge. Lightly oil the sponge and replace it into its housing.
   d. Remove and clean / replace the spark plug. Do not cross thread the plug when reinstalling.
   e. Tighten all loose outside nuts, bolts, and screws.

PUMP DISASSEMBLY AND CLEANING

1. Unscrew the pump casing bolts and remove.
2. Pull the casing out to expose impeller and volute.
3. Clean the impeller and volute.

PROPER STORAGE

1. Drain the pump casing by opening the drain plug.
2. Drain all fuel from the engine, fuel filter, fuel lines, and tank.
3. Store the pump in a clean, dry location.
4. Do not allow the pump and/or suction or discharge hoses to be exposed to freezing temperatures. Water trapped inside the hoses or pump will freeze and will damage pump and/or hoses.

For Repair Parts, call 1-800-323-0620

24 hours a day – 365 days a year

Please provide following information:
-Model number
-Serial number (if any)
-Part description and number as shown in parts list

Address parts correspondence to:
Grainger Parts
P.O. Box 3074
1657 Shermer Road
Northbrook, IL 60065-3074 U.S.A.

ENGLISH

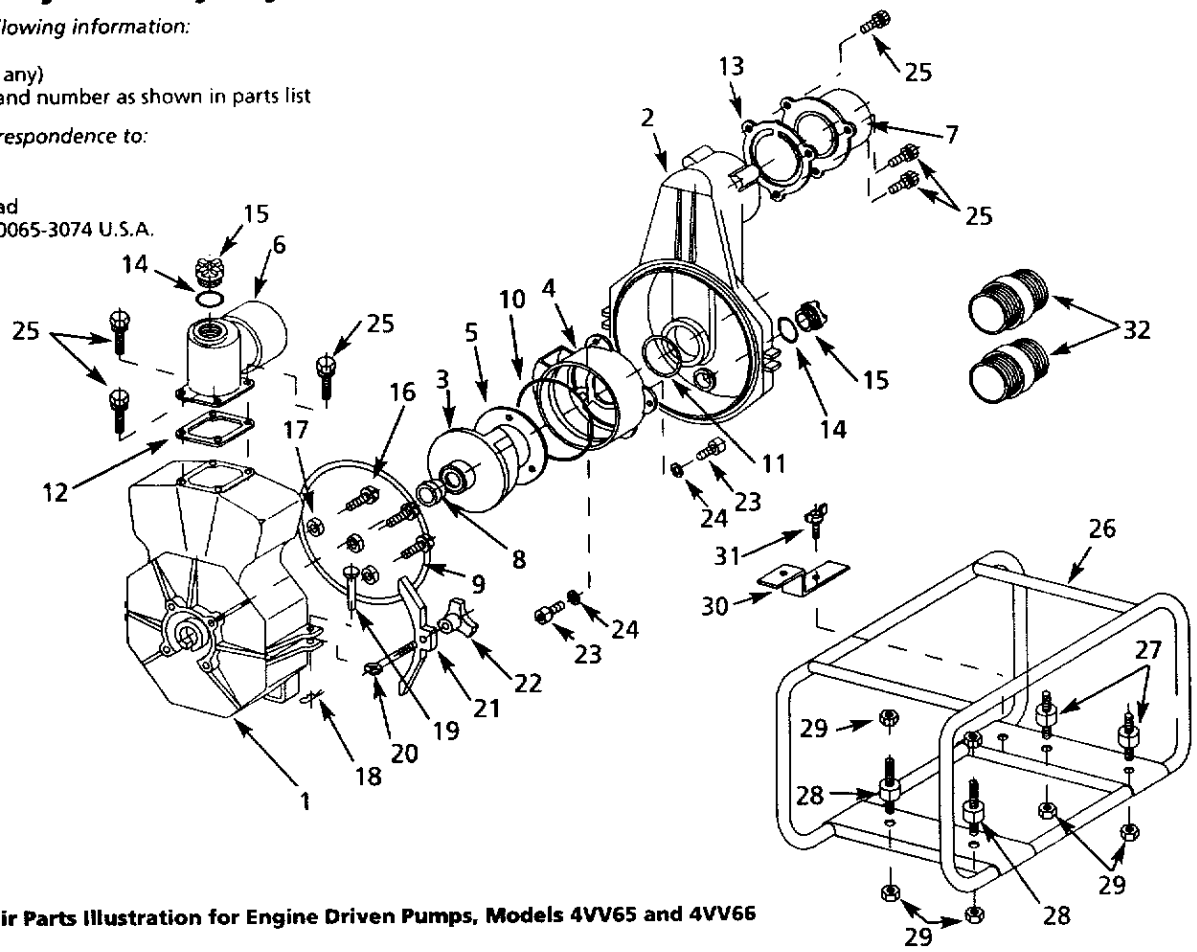

Figure 4 – Repair Parts Illustration for Engine Driven Pumps, Models 4VV65 and 4VV66

Repair Parts List for Engine Driven Pumps, Models 4VV65 and 4VV66

Ref. No.	Description	Part No.	Qty.
1	Casing	●	1
2	Casing Cover	●	1
3	Impeller	200 210 240	1
4	Volute	●	1
5	Wear Plate	●	1
6	Discharge Flange	●	1
7	Suction Flange	●	1
8	Mechanical Seal	201 100 051	1
9	O-ring	200 800 050	1
10	O-ring	●	1
11	O-ring	●	1
12	Discharge Flange Gasket	●	1
13	Check Valve	●	1
14	O-ring	●	2
15	Plug *	200 500 040	2
16	Flange Bolt	●	4

Ref. No.	Description	Part No.	Qty.
17	Washer	●	4
18	Snap Pin	●	2
19	Rivet	●	2
20	Casing Cover Bolt	●	2
21	Casing Cover Flange	●	2
22	Casing Cover Knob	●	2
23	Hex Socket Head Bolt	●	5
24	Spring Washer	●	5
25	Hex Bolt	●	7
26	Frame	●	1
27	Anti-Vibration Mount	●	2
28	Anti-Vibration Mount	●	2
29	Spring Nut	●	6
30	Service Wrench	●	1
31	Wing Bolt	●	1
32	Pipe Nipple	Δ	2

NOTE: Engine not available as a repair part.
(●) Only available in a repair parts kit. See repair parts kit listing.
(Δ) Hardware item available locally.
(*) Plug (Item 15) includes o-ring (Item 14) when purchased as part number 200 500 040.

Repair Kits List for Engine Driven Pumps

Ref. No.	Description	Kit No.	Qty.
	PUMP CASING KIT	202 300 240	
1	Casing		1
9	O-ring		1
10	O-ring		1
16	Flange Bolt		4
17	Washer		4
	CASING COVER KIT	202 300 250	
2	Casing Cover		1
9	O-ring		1
11	O-ring		1
14	O-ring		1
15	Plug		1
	VOLUTE KIT	202 300 260	
4	Volute		1
5	Wear Plate		1
10	O-ring		1
11	O-ring		1
23	Hex Socket Head Bolt		5
24	Spring Washer		5
	WEAR PLATE KIT	202 300 270	
5	Wear Plate		1
23	Hex Socket Head Bolt		3
24	Spring Washer		3

Ref. No.	Description	Kit No.	Qty.
	DISCHARGE FLANGE KIT	202 300 180	
6	Discharge Flange		1
12	Discharge Flange Gasket		1
14	O-ring		1
15	Plug		1
25	Hex Bolt		4
	SUCTION FLANGE KIT	202 300 280	
7	Suction Flange		1
13	Check Valve		1
25	Hex Bolt		3
	CLEAN-OUT FLANGE KIT	202 300 290	
18	Snap Pin		2
19	Rivet		2
20	Casing Cover Bolt		2
21	Casing Cover Flange		2
22	Casing Cover Knob		2
	SERVICE TOOL KIT	202 300 320	
30	Service Wrench		1
31	Wing Bolt		1
	FRAME KIT	202 300 300	
26	Frame		1
27	Anti-Vibration Mount		2
28	Anti-Vibration Mount		2
29	Spring Nut		6
	VIBRATION MOUNT KIT	202 300 310	
27	Anti-Vibration Mount		2
28	Anti-Vibration Mount		2
29	Spring Nut		6

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Dayton

For Repair Parts, call 1-800-323-0620

24 hours a day – 365 days a year

Please provide following information:
-Model number
-Serial number (if any)
-Part description and number as shown in parts list

Address parts correspondence to:
Grainger Parts
P.O. Box 3074
1657 Shermer Road
Northbrook, IL 60065-3074 U.S.A.

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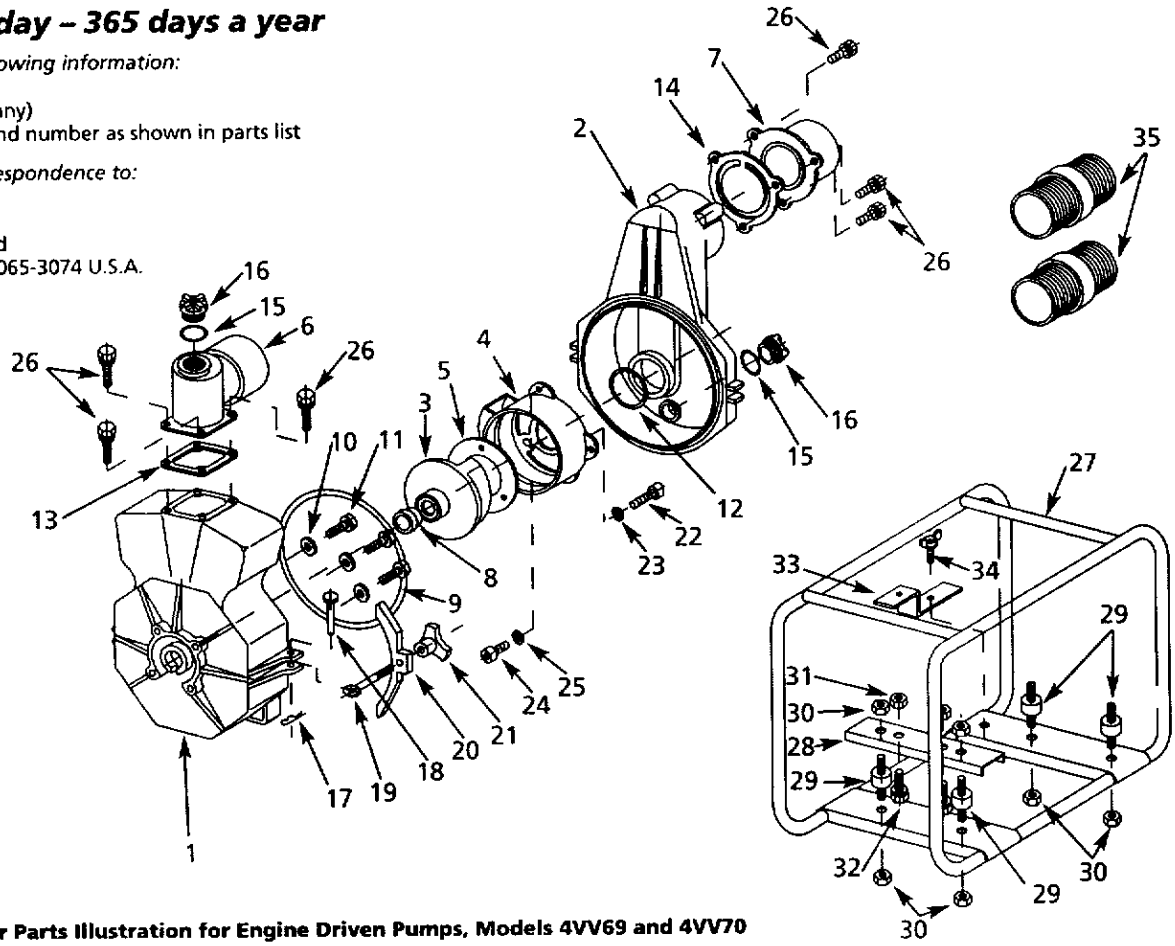

Figure 5 – Repair Parts Illustration for Engine Driven Pumps, Models 4VV69 and 4VV70

Repair Parts List for Engine Driven Pumps, Models 4VV69 and 4VV70

Ref. No.	Description	Part No.	Qty.
1	Pump Casing	●	1
2	Pump Casing Cover	●	1
3	Impeller	200 210 170	1
4	Volute	●	1
5	Wear Plate	●	1
6	Discharge Flange	●	1
7	Suction Flange	●	1
8	Mechanical Seal	201 100 061	1
9	O-ring	200 800 060	1
10	Washer	●	4
11	Flange Bolt	●	4
12	O-ring	●	1
13	Discharge Flange Gasket	●	1
14	Check Valve	●	1
15	O-ring	●	2
16	Plug	●	2
17	Snap Pin	●	2
18	Rivet	●	2

Ref. No.	Description	Part No.	Qty.
19	Bolt	●	2
20	Casing Cover Flange	●	2
21	Casing Cover Knob	●	2
22	Hex Socket Head Bolt	●	3
23	Spring Washer	●	3
24	Hex Socket Head Bolt	●	3
25	Spring Washer	●	3
26	Hex Bolt	●	7
27	Frame	●	1
28	Engine Base	●	1
29	Anti-Vibration Mount	●	4
30	Spring Nut	●	6
31	Flange Nut	●	2
32	Hex Bolt	●	2
33	Service Wrench	●	1
34	Wing Bolt	●	1
35	Pipe Nipple	Δ	2

NOTE: Engine not available as a repair part.
(●) Only available in a repair parts kit. See repair parts kit listing.
(Δ) Hardware item available locally.

Repair Kits List for Engine Driven Pumps

Ref. No.	Description	Kit No.	Qty.
	PUMP CASING KIT	202 300 380	
1	Pump Casing		1
9	O-ring		1
10	Washer		4
11	Flange Bolt		4
	CASING COVER KIT	202 300 390	
2	Pump Casing Cover		1
9	O-ring		1
12	O-ring		1
15	O-ring		1
16	Plug		1
	PLUG KIT	202 300 440	
15	O-ring		2
16	Plug		2
	VOLUTE KIT	202 300 400	
4	Volute		1
5	Wear Plate		1
12	O-ring		1
22	Hex Socket Head Bolt		3
23	Spring Washer		3
24	Hex Socket Head Bolt		3
25	Spring Washer		3
	WEAR PLATE KIT	202 300 410	
5	Wear Plate		1
22	Hex Socket Head Bolt		3
23	Spring Washer		3

Ref. No.	Description	Kit No.	Qty.
	DISCHARGE FLANGE KIT	202 300 420	
6	Discharge Flange		1
13	Discharge Flange Gasket		1
15	O-ring		1
16	Plug		1
26	Hex Bolt		4
	SUCTION FLANGE KIT	202 300 430	
7	Suction Flange		1
14	Check Valve		1
26	Hex Bolt		3
	CLEAN-OUT FLANGE KIT	202 300 450	
17	Snap Pin		2
18	Rivet		2
19	Bolt		2
20	Casing Cover Flange		2
21	Casing Cover Knob		2
	SERVICE TOOL KIT	202 300 320	
33	Service Wrench		1
34	Wing Bolt		1
	FRAME KIT	202 300 460	
27	Frame		1
28	Engine Base		1
29	Anti-Vibration Mount		4
30	Spring Nut		6
31	Flange Nut		2
32	Hex Bolt		2
	VIBRATION MOUNT KIT	202 300 470	
29	Anti-Vibration Mount		4
30	Spring Nut		6

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24 hours a day – 365 days a year

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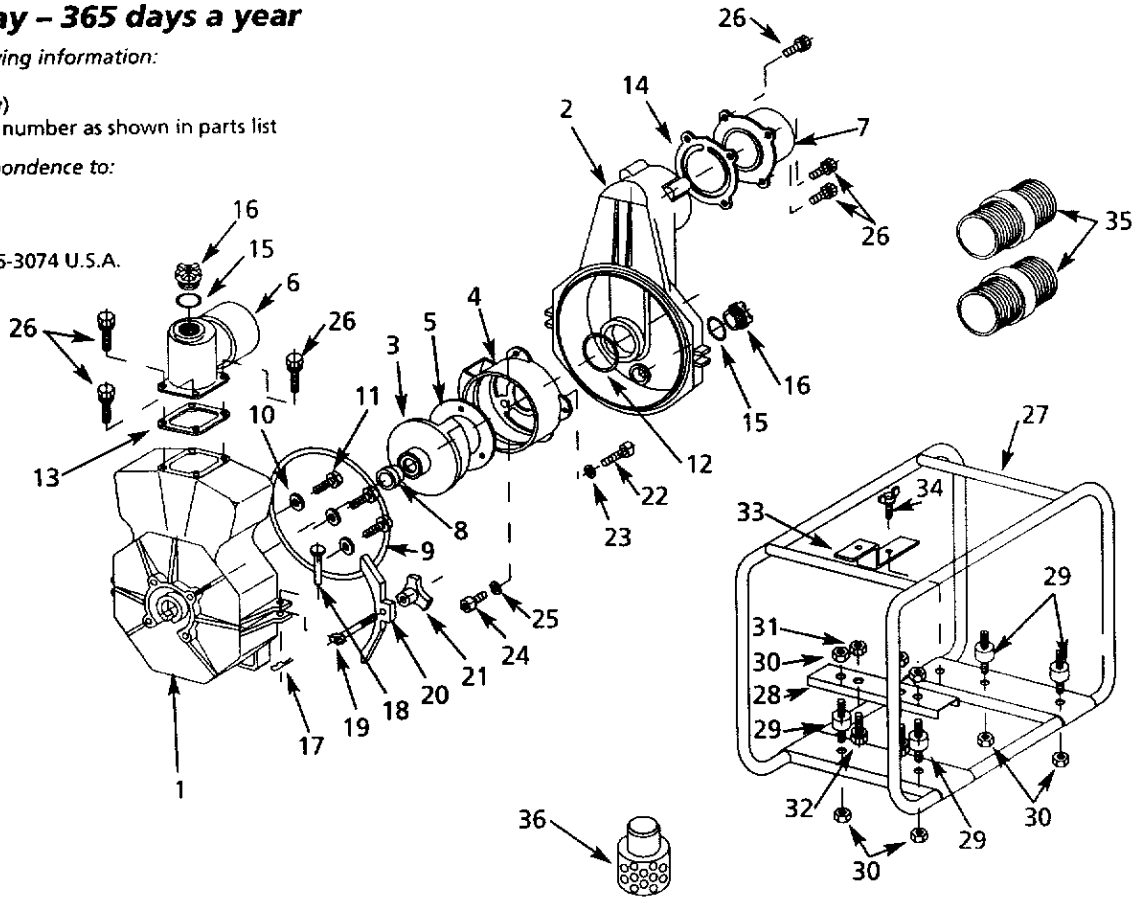

Figure 6 – Repair Parts Illustration for Engine Driven Pumps, Models 4VV71 and 4VV72

Repair Parts List for Engine Driven Pumps, Models 4VV71 and 4VV72

Ref. No.	Description	Part No.	Qty.
1	Pump Casing	●	1
2	Casing Cover	●	1
3	Impeller	200 210 210	1
4	Volute	●	1
5	Wear Plate	●	1
6	Discharge Flange	●	1
7	Suction Flange	●	1
8	Mechanical Seal	201 100 061	1
9	O-ring	200 800 060	1
10	Washer	●	4
11	Flange Bolt	●	4
12	O-ring	●	1
13	Discharge Flange Gasket	●	1
14	Check Valve	●	1
15	O-ring	●	2
16	Plug	●	2
17	Snap Pin	●	2
18	Rivet	●	2
19	Clean-out Cover Bolt	●	2
20	Casing Cover Flange	●	2
21	Casing Cover Knob	●	2
22	Hex Socket Head Bolt	●	3
23	Spring Washer	●	3
24	Hex Socket Head Bolt	●	3
25	Spring Washer	●	3
26	Hex Bolt	●	8
27	Frame	●	1
28	Engine Base	●	1
29	Anti-vibration Mount	●	4
30	Spring Nut	●	6
31	Flange Nut	●	2
32	Hex Bolt	●	2
33	Service Wrench	●	1
34	Wing Bolt	●	1
35	Pipe Nipple	Δ	2
36	Strainer	201 200 260	1

NOTE: Engine not available as a repair part.
(●) Only available in a repair parts kit. See repair parts kit listing.
(Δ) Hardware item available locally.

Repair Kits List for Engine Driven Pumps

Ref. No.	Description	Kit No.	Qty.
	PUMP CASING KIT	202 300 480	
1	Pump Casing		1
9	O-ring		1
10	Washer		4
11	Flange Bolt		4
	CASING COVER KIT	202 300 490	
2	Casing Cover		1
9	O-ring		1
12	O-ring		1
15	O-ring		1
16	Plug		1
	PLUG KIT	202 300 440	
15	O-ring		2
16	Plug		2
	VOLUTE KIT	202 300 500	
4	Volute		1
5	Wear Plate		1
12	O-ring		1
22	Hex Socket Head Bolt		3
23	Spring Washer		3
24	Hex Socket Head Bolt		3
25	Spring Washer		3
	WEAR PLATE KIT	202 300 510	
5	Wear Plate		1
22	Hex Socket Head Bolt		3
23	Spring Washer		3

Ref. No.	Description	Kit No.	Qty.
	DISCHARGE FLANGE KIT	202 300 520	
6	Discharge Flange		1
13	Discharge Flange Gasket		1
15	O-ring		1
16	Plug		1
26	Hex Bolt		4
	SUCTION FLANGE KIT	202 300 530	
7	Suction Flange		1
14	Check Valve		1
26	Hex Bolt		4
	CLEAN-OUT FLANGE KIT	202 300 450	
17	Snap Pin		2
18	Rivet		2
19	Clean-out Cover Bolt		2
20	Casing Cover Flange		2
21	Casing Cover Knob		2
	SERVICE TOOL KIT	202 300 320	
33	Service Wrench		1
34	Wing Bolt		1
	FRAME KIT	202 300 540	
27	Frame		1
28	Engine Base		1
29	Anti-Vibration Mount		4
30	Spring Nut		6
31	Flange Nut		2
32	Hex Bolt		2
	VIBRATION MOUNT KIT	200 300 470	
29	Anti-Vibration Mount		4
30	Spring Nut		6

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Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Pump will not prime or pump water	1. No water in pump casing	1. Fill pump casing with water
	2. Leak in suction hose	2. Replace or repair suction line to eliminate air leak
	3. Clogged suction strainer	3. Clean strainer and re-prime pump
	4. Engine speed to slow	4. Adjust throttle to increase engine speed
	5. Suction head more than 25 feet	5. Reduce suction lift to less than 25 feet by raising suction strainer and hose or lowering pump
	6. Leak in suction flange	6. Re-tighten suction flange and/or replace suction flange gasket/check valve
	7. Pump clogged	7. Turn off pump. Disconnect spark plug. Ground spark plug wire. Remove pump casing cover and clear debris from pump casing, volute and impeller
Engine will not start	Various	See engine manufacturers' owners' operation and instruction manual for proper starting procedures, troubleshooting guide and local engine repair facility network

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