



**OWNER'S  
MANUAL**

**PARTS  
BOOK**

# CONCRETE VIBRATOR MANUAL

SERIES 2



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**ORIGINAL LANGUAGE OPERATING MANUAL FOR  
BARTELL RIDE-ON TROWELS**

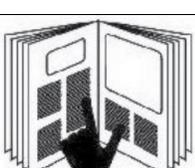
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<b>REV.</b>	<b>DATE</b>	<b>DESCRIPTION</b>	<b>APPROVED BY:</b>
00	11/20	ORIGINAL RELEASE	AN
01	11/24	Updated Logos	AN

<b>SAFETY PRECAUTIONS</b>	
	<p style="text-align: center;"><b>DANGER</b> <b>EXPLOSION HAZARD</b></p> <p>Never operate the machine in an explosive atmosphere, or near combustible materials.</p>
	<p style="text-align: center;"><b>WARNING</b> <b>BURN HAZARD</b></p> <p>Never come into contact with the motor when operating or shortly after it is turned off. Serious burns may occur.</p>
	<p style="text-align: center;"><b>CAUTION</b> <b>MOVING PARTS</b></p> <p>Before starting the machine, ensure that all guards and safety devices are in place and functioning properly.</p>
	<p style="text-align: center;"><b>ATTENTION</b> <b>READ OWNER'S MANUAL</b></p> <p>Read and understand owner's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.</p>

<b>Personal Protective Equipment (PPE)</b>	
	<p style="text-align: center;"><b>Hearing Protection</b></p> <p>Wear earplugs or earmuffs to protect hearing from potentially damaging noise levels</p>
	<p style="text-align: center;"><b>Eye Protection</b></p> <p>Wear eye protection to protect eyes from blowing dust, splattering concrete, and other foreign objects</p>
	<p style="text-align: center;"><b>Safety Footwear</b></p> <p>Wear safety footwear to protect feet from falling objects, compression and punctures or cuts from surrounding and below</p>
	<p style="text-align: center;"><b>Hand Protection</b></p> <p>Protect exposed skin surfaces when working with fresh concrete to avoid skin irritation or chemical burns</p>

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## **QUALITY ASSURANCE/ MACHINE BREAK IN**

The Morrison Concrete Vibrator is the product of extensive engineering development designed to give long life and unmatched performance. You can help ensure that your Concrete Vibrator will perform at top levels by observing a simple routing on first use. Consider that your new Concrete Vibrator is like a new car. Just as you would break in a new car to the road or any new machine to the job, you should start gradually and build up to full use. Learn what your machine can do and how it will respond. Refer to the engine manufacturer's manual for run-in times. Full throttle and control may be used after this time, as allowed by material. This will serve to further break in the machine on your specific application, as well as provide you with additional practice using the machine.

We thank you for the confidence you have placed in us by purchasing a Morrison Concrete Vibrator wish you many years of satisfied use.

## **WARRANTY INFORMATION**

All products sold by Bartell Morrison Inc. and Bartell Morrison (USA) LLC (the “Company”) are warranted against defects in materials and/or workmanship; excluding normal wear on wearing components and components covered by a separate original manufacturers warranty, for a period of 12 months from the date of sale to the original end user purchaser provided that certain conditions have been met.

### Conditions:

1. The equipment serial number has been registered with the Company or its approved dealers.
2. The equipment has been operated in an appropriate manner by qualified individuals.
3. The equipment has been properly maintained as per the instructions included in the Owner’s Manual.
4. All claims for warranty must be filed on proper forms and include the serial number of the equipment along with proof of purchase

Any evidence of failure to meet these conditions may result in a denial of a warranty claim.

- Consideration of warranty claims will be at the sole discretion of the Company, or its authorized dealers, distributors, representatives, or agents.
- The company may, at our discretion, repair or replace a part or the whole of the defective component or equipment.
- Our Warranty coverage is limited to the cost to repair or replace the defective portion of the equipment and a reasonable (as determined by the Company) amount of labour to conduct the repair or replacement. Under no circumstances shall the Company be liable for any additional or exceptional costs beyond the cost to repair or replace the defective portion of the equipment. The Company shall not be held accountable for; costs associated with travel to inspect or repair defective equipment, costs for transporting equipment at any facility other than one authorized by the Company or ancillary damage caused by or as a result of the defective equipment.
- Under no circumstances shall equipment be returned to the Company or its authorized dealers, distributors, representatives, or agents without the approval of the company as evidenced by a Returned Goods Number. To obtain a Returned Goods Number, contact the factory or your authorized dealer, distributor, representative or agent.
- This warranty is for the sole benefit of the original end user purchaser and is not transferable to any other company or person.



**ROUTINE SERVICE SCHEDULE**

Routine Service Intervals		Each Use	First months or 10 hrs	Every 3 months or 25 hrs	Every 6 months or 50 hrs	Every year or 100 hrs	Every 2 years or 300 hrs
<b>General Inspection</b>							
Warning Stickers	Check	○	○	○	○	○	○
Test run:	Operation		○	○	○	○	○
<b>Engine</b>							
Engine Oil	Check level	○					
	Change		○		○		
Spark Plug	Check-adjust					○	
	Replace						○
Cooling Fins	Check				○		
Air Cleaner (2)	Check-clean	○ (1)		○			
	Replace					○	
Air Intake Line	Check				○		
	Replace						2 yrs
Nuts, bolts, fasteners	Check (Retighten if necessary)	○					
Clutch Shoes	Check				○ (2)		
Idle Speed	Check-adjust					○ (2)	
Valve Clearance	Check-adjust				○ (2)		○
Combustion Chamber	Clean	After every 300 hrs (2)					
Fuel Filter	Clean					○ (2)	
Fuel Tank	Clean					○ (2)	
Fuel Tubes	Check	Every 2 years (Replace if necessary) (2)					
Oil Tube	Check	Every 2 years (Replace if necessary) (2)					
<b>Electric Motor</b>							
Brushes	Check			○		○	
	Replace						○
Air Filter	Check Clean	○		○			
	Replace					○	
Power Cord	Check	○					
<b>Shafts</b>							
Inner Core	Check/Lube				○		

- (1) Service more frequently in dusty areas
- (2) Refer to engine owner’s manual for servicing instructions and a detailed maintenance schedule. Some items should be serviced by your servicing dealer unless you have the proper tools and are mechanically proficient. Refer to the Honda shop manual for service procedures

## MAINTENANCE AND CLEANING

### Electric Motor

- Keep housing and air filter clean to allow motor to cool properly
- Check brushes, switch boot and electrical cord for wear and replace when worn
- Motor bearings do not require additional lubrication, replace when worn

### Honda Engine

- Refer to the Honda owner’s manual

### Shafts

- Inspect inner cores for lubrication after approximately 50 hours of operation as follows: remove core on a clean surface free of dirt and grit, inspect core for dry areas, if lubrication is required wipe core with cloth, reinsert core in to casing applying approximately 1/16” thick coating of high quality lithium grease. (available in 1lbs cans) Do not over grease the flexible shafts as this will cause excess drag on the motor, and the shaft to get hot.

### Heads

- Heads are sealed at the factory, since it is extremely important to keep contaminants, therefore they require no field maintenance.

## SPECIFICATIONS

### Electric Versions

Model	S2MVM134	S2MVM225	S2MVM325
Power, HP (kW)	1.75 (1.30)	2.25 (1.68)	3.25 (2.42)
Voltage	115	115	115
Hz	50/60	50/60	50/60
Amps	13	15	19
Weight lbs (kg)	16.2 (7.3)	17.8 (8)	23.2 (10.5)
Plug (amp)	15	15	20, Twist lock
Max Head Size	1.5 inch	2.5 inch	2.5 inch

### Gas Version

Model	S2MVBP212
Engine	GXH50
Power, HP (kW)	2.1 (1.6)
Max Head Size IN (MM)	2.5 inch

## **CONCRETE VIBRATOR INFORMATION**

### **GENERAL HEALTH AND SAFETY TIPS**

- Keep work areas well illuminated and clean.
- Do not operate in areas where flammable liquids or gases are present
- Operate away from bystanders
- Power tool plugs must be matched with the outlet, do not modify the outlet or the power tool plug
- Avoid contact with earthed or grounded surfaces
- Do not use electric power tools in wet or rainy conditions
- Do not use power tool if cord or plug is broken
- Use suitable extension cords when needed
- Keep alert when using power tools and do not operate if tired, or under the influence of drugs, alcohol, or medication
- Use personal protection equipment when using power tools
- Ensure on/off switch is in off position before plugging tool into power source
- Remove any adjusting keys or wrenches before starting equipment
- Do not overreach and keep proper footing/balance while using power tools
- Do not wear loose clothing or jewelry and tie up long hair. Keep clothing, hair, and gloves away from moving parts
- Do not force the power tool and always use the correct tool for the application
- Do not use power tool if on/off switch is broken
- Disconnect from power source when making any adjustments or tooling changes
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.
- Keep tools clean before and after use
- Use power tools in accordance with their instructions.

## **ASSEMBLY INSTRUCTIONS**

Be sure concrete vibratory is switched off and unplugged before proceeding.

### **Installing the Head to the Shaft**

- Use an adhesive sealant on the shaft threads to prevent water from entering the head as well as securing the head to the shaft
- Then screw on the head by hand and use a wrench and the provided wrench flats on the head to secure the head to the shaft.

### **Installing the motor quick disconnect to the shaft**

- Screw on the Quick Disconnect onto the shaft and use a wrench and the provided wrench flats on the Quick Disconnect to secure Quick Disconnect to the shaft.

### **Installing the Shaft to motor**

- Once the quick Disconnect is secured to the shaft. Slide the Quick Disconnect into the Quick Disconnect receiver on the motor, while you are pulling the pin on the receiver out.
- When fully inserted, release the pin and rotate the shaft until the pin drops into a hole in the Quick Disconnect and locks in place

## ELECTRICAL INFORMATION

When using electric vibrators, basic safety precautions should always be followed to eliminate the risk of electricity shock, fire, personal injury, and property damage.

Any tool not in proper working order, or one that develops a defect, should not be used until properly repaired.

### **FOR ALL GROUNDED TOOLS GROUNDING INSTRUCTIONS**

This tool should be grounded while in use to protect the operator from electric shock.

The tool is equipped with a 3-conductor cord and a 3-prong grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

- If your unit is for use on less than 150 volts, it has a plug that looks like that shown in sketch [A].

- If your unit is for use on 150 to 250 volts, it has a plug that looks like shown in sketch [D].

- An adapter, shown in sketches [B] and [C] is available for connecting sketch [A] type plugs to 2-prong receptacles. The green coloured rigid ear, lug, or the like, extending from the adapter must be connected to a permanent ground, such as a properly grounded outlet box.

- No adapter is available for a plug as shown in sketch [D]

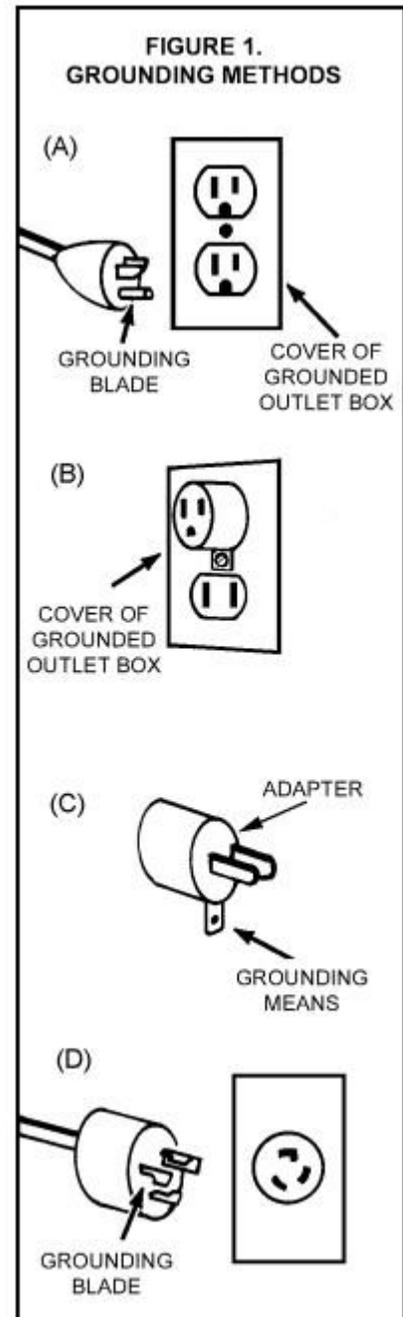
- Morrison Motors operate on 115V single phase 60-cycle (230V optional).

- They will also operate on 50-cycle AC current.

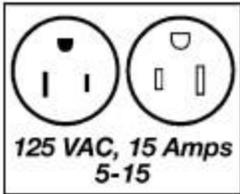
- All motors have AC/DC universal Windings.

- Frequencies range from 10,000 to 12,000 vibrations per minute.

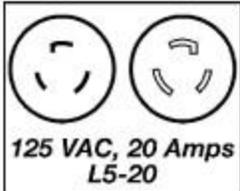
See next page for extension cord specs.



## PLUGS, RECEPTACLES AND EXTENSION CORDS



Morrison Models S2MVM134 and S2MVM225 have a male 15A plug (NEMA 5-15P), which plugs into a 15A female receptacle (NEMA 5-15R).



Morrison Model S2MVM325 have a male 20A plug (NEMA L5-20P), which plugs into a 20A female receptacle (NEMA L5-20R)

### Extension Cords

- Use only 3-wire extension cords that have 3-prong grounding-type plugs and 3-pole receptacles that accept the tool's plug. Repair or replace damaged cords.
- Always use the right extension cord, too light an extension cord can cause poor performance and motor burnout.

<b>MINIMUM GAGE FOR EXTENSION CORDS, PER UL SPECIFICATIONS</b>						
<b>Morrison Model</b>	<b>Amperes @120V</b>	<b>50ft</b>	<b>100ft</b>	<b>150ft</b>	<b>200ft</b>	<b>300ft</b>
S2MVM134	13	14	12	10	8	8
S2MVM225	15	14	12	8	8	8
S2MVM325	19	12	12	8	8	8

## OPERATION OF THE CONCRETE VIBRATOR

### **ELECTRIC MODELS**

- Match vibrator motor, shaft, and head to the job. Select the largest vibrator suitable for the job. Select the shortest shaft possible to do the job to assure maximum power to the vibrator head.
- Avoid sharp bends in the flexible shaft for highest efficiency
- Use the toggle switch to turn the motor ON and OFF. "I" = ON, "O" = OFF
- Insert vibrator vertically, allow it to sink into desired depth by its own weight; forcing it may lock between rebars.
- Hold the vibrator 5-15 seconds then slowly lift vibrator up, staying behind the trapped air's upward movement, allowing about 15 seconds for a 2-foot distance, to avoid trapping air.
- A slight up and downward movement will close the hole formed by the vibrator.
- Withdraw the vibrator quickly when near the top, to prevent churning air into the top layer.
- Move vibrator and re-insert at a distance of 1 1/2 times the Radius of Action.
- Allow vibrator to penetrate 3 to 6 inches into the preceding layer to knit the two layers together to prevent "lift lines" when forms are removed.
- Try to limit pours to 2 feet high, so air has less resistance to escape.
- Do not use Vibrator to move concrete laterally as it can cause segregation (use a shovel).
- Place vibrator in center of mounds to knock them down.
- **Never** operate head out of the mix for more than a few minutes to prevent overheating. Wet concrete keeps head at proper operating temperature.

## **GAS MODELS**

- Your Morrison Backpack unit is equipped with a Honda 4-Stroke gas engine and has specific lubrication and fueling requirements. Please refer to the Honda Engine Owner's Manual enclosed.
- Place the Backpack on an elevated flat level surface (such as a table). This will enable you to get the unit on your back after you start it.
- To start the motor, brace it with one hand. Pull the recoil handle and guide the line back (just like a lawnmower engine).
- Your Backpack unit attaches very much like a hiker's knapsack. Place your arms through the space between the shoulder straps and frame.
- Adjust any straps to your comfort and preference.
- Squeeze the throttle to increase the engine speed which will engage the clutch causing the vibrator head to vibrate
- Insert vibrator vertically, allow it to sink into desired depth by its own weight; forcing it may lock between rebars.
- Hold the vibrator 5-15 seconds then slowly lift vibrator up, staying behind the trapped air's upward movement, allowing about 15 seconds for a 2-foot distance, to avoid trapping air.
- A slight up and downward movement will close the hole formed by the vibrator.
- Withdraw the vibrator quickly when near the top, to prevent churning air into the top layer.
- Move vibrator and re-insert at a distance of 1 1/2 times the Radius of Action.
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- Do not use Vibrator to move concrete laterally as it can cause segregation (use a shovel).
- Place vibrator in center of mounds to knock them down.
- **Never** operate head out of the mix for more than a few minutes to prevent overheating. Wet concrete keeps head at proper operating temperature.

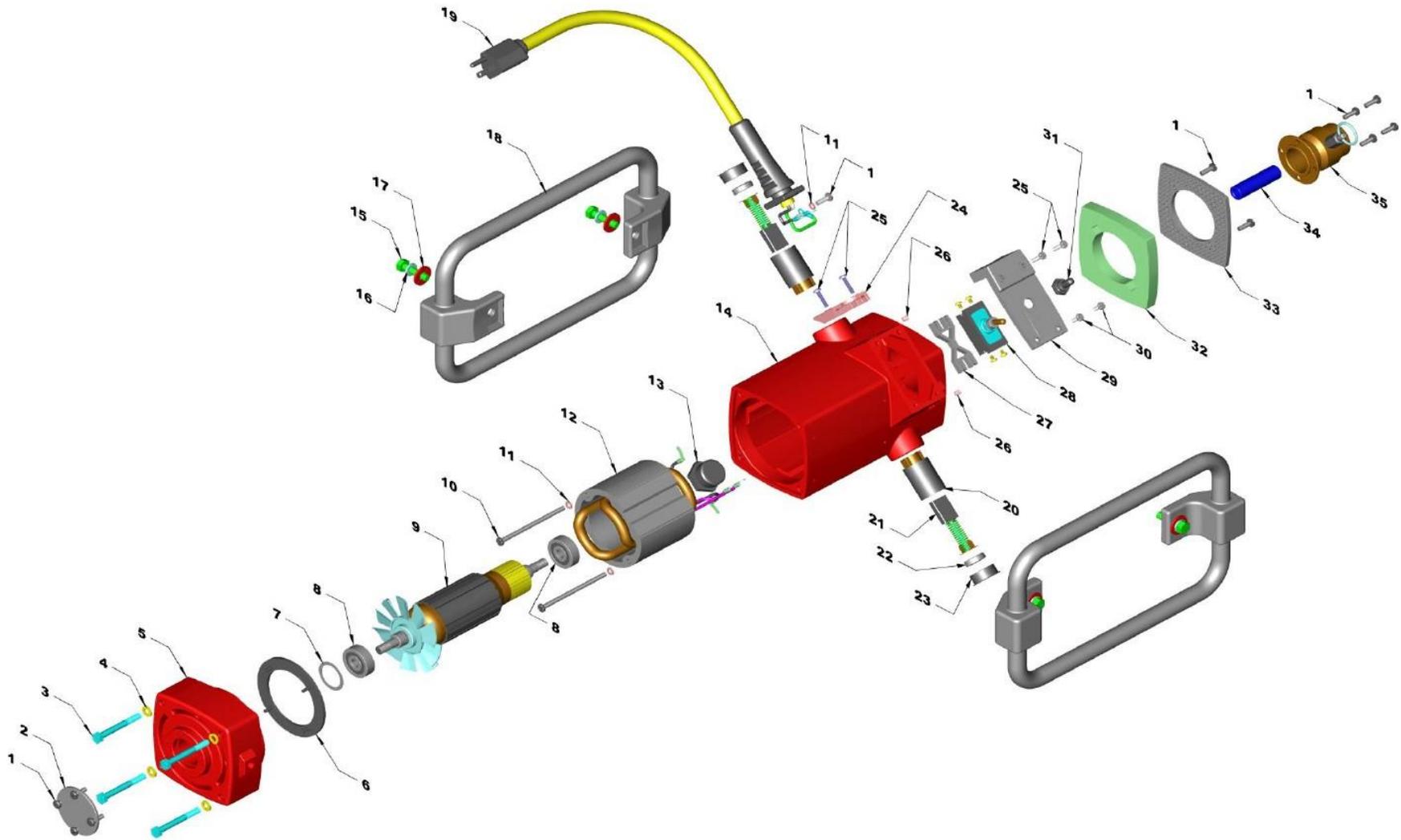
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## ASSEMBLY DRAWING AND PARTS LIST



## PARTS LIST 1 – CONCRETE VIBRATORS

### ELETRIC MOTOR ASSEMBLY - SERIES 2

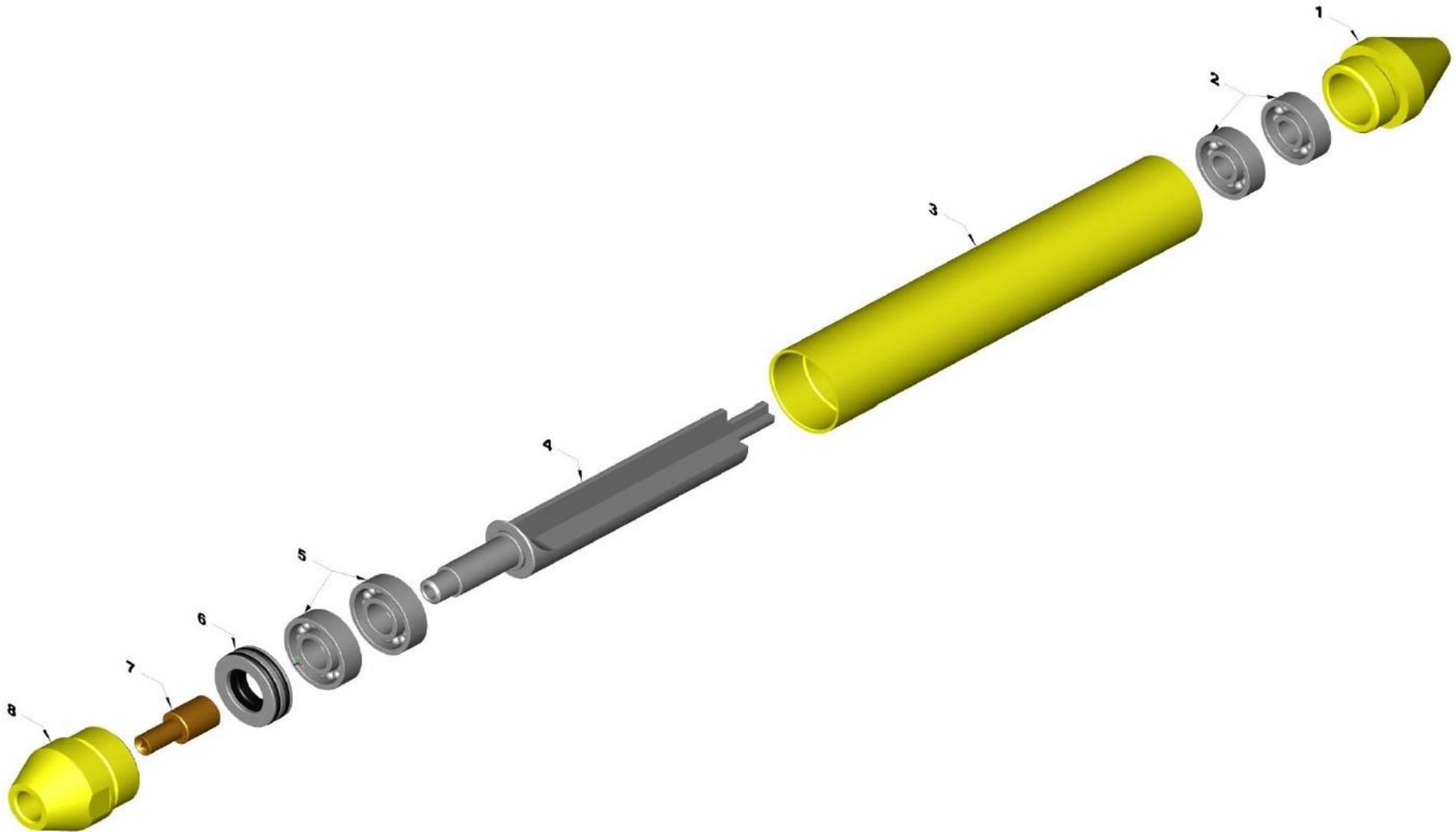


**PARTS LIST 1: ELECTRIC MOTOR ASSEMBLY**

Item #	S2MVM134 Part #	S2MVM225 Part #	S2MVM325 Part #	Description	QTY
1	78190F150	78190F150	78190F150	SCREW	11
2	78215M1	78215M1	78215M1	END CAP	1
3	78280A225	78280A225	78280A225	BOLT	4
4	78285A250	78285A250	78285A250	LOCKWASHER	4
5	78420B1	78420B1	78420D1	END BELL	1
6	78470E1	78470E1	78470F1	BAFFLE FILTER (END BELL SIDE)	1
7	78380A1	78380A1	78380A1	SPRING WASHER	1
8	78140C300	78140C300	78140C300	BALL BEARING	2
9	78475B1	78475A1	78475C1	ARMATURE	1
10	78190E127	78190E135	78190E140	SCREW	2
11	78285A187	78285A187	78285A187	LOCK WASHER	3
12	78480B1	78480A1	78480C1	FIELD	1
13	78400B1	78400B1	78400B1	CAP FOR COMUTATOR SERVICE PORT	1
14	78105AC1	78105AC1	78105AG1	MOTOR HOUSING	1
15	78280A312	78280A312	78280A312	BOLT	4
16	78285A312	78285A312	78285A312	LOCK WASHER	4
17	78370A312	78370A312	78370A312	WASHER	4
18	78440C1	78440C1	78440D1	FRAME ASSEMBLY	2
19	78505H1	78505H1	78505J1	GROUNDING ELECTRICAL CORD	1
20	78495A1	78495A1	78495A1	BRUSH HOLDER	2
21	78490A1	78490A1	78490A1	BRUSH	2
22	78500A1	78500A1	78500A1	BRUSH CAP	2
23	78400C1	78400C1	78400C1	COUTER PROTECTIVE BURSH CAP	2
24	78215CC1	78215CC1	78215CC1	ELECTRIC CORD MOUNTING PLATE	1
25	78190F875	78190F875	78190F875	SCREW	4
26	78190B125	78190B125	78190B125	SET SCREW	2
27	78467C1	78467C1	78467C1	ELECTRIC WIRE CLIP	1
28	78425B1	78425B1	78425B1	ELECTRIC SWITCH (W/TERMINAL SCREW)	1
29	78215CB1	78215CB1	78215CB1	SWITCH MOUNT PLATE	1
30	78190F850	78190F850	78190F850	SCREW	2
31	78430A1	78430A1	78430A1	WATER RESISTANT SWITCH SEAL	1
32	78470A1	78470A1	78470A1	AIR FILTER	1
33	78215N1	78215N1	78215X1	AIR FILTER COVER	1
34	78160CW1	78160CW1	78160CW1	CORE ADAPTOR	1
35	78150DE1	78150DE1	78150DE1	CASING ADAPTOR	1

## PARTS LIST 2 – CONCRETE VIBRATORS

### HEAD ASSEMBLY – SERIES 2



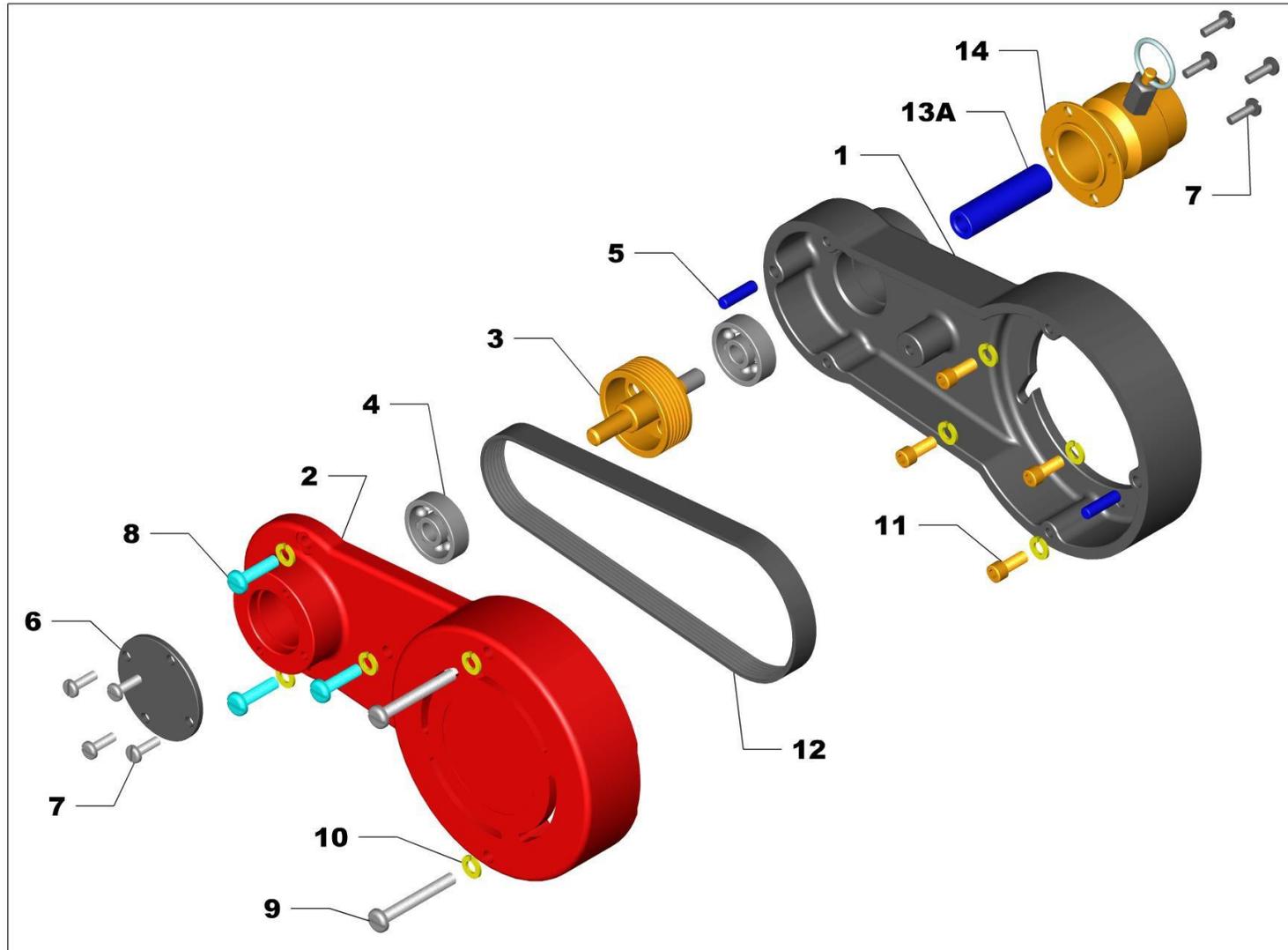
**PARTS LIST 1: HEAD ASSEMBLY**

Item #	MVH75P ¾" Head Part #	MVH100 1" Head Part #	MVH125 1 ¼" Head Part #	MVH112 1 ½" Head Part #	Description	QTY
1	78100A75	78100B1	78100C12	78100D15	NOSEPIECE	1
2	78140F4	78140A608	78140A000	78140A201	BEARING (NOSE END)	2
3	78105A75	78105B1	78105C12	78105D15	SHELL	1
4					ROTOR	1
5	78140F4	78140A608	78140A000	78140A201	BEARING (CASING ADAPTOR END)	2
6	78110A1	78125H1	78125J1	78125K1	SEAL CARRIER ASSEMBLY	1
7					CORE ADAPTOR	1
8					CASING ADAPTOR	1

Item #	MVH134 1 ¾" Head Part #	MVH200 2" Head Part #	MVH212 2 ½" Head Part #	Description	QTY
1	78100E17	78100F2	78100G25	NOSEPIECE	1
2	78140A301	78140A302	78140A205	BEARING (NOSE END)	2
3	78105E17	78105F2	78105G25	SHELL	1
4				ROTOR	1
5	78140A203	78140A204	78140A205	BEARING (CASING ADAPTOR END)	2
6	78125L1	78125M1	78125N1	SEAL CARRIER ASSEMBLY	1
7				CORE ADAPTOR	1
8				CASING ADAPTOR	1

## PARTS LIST 3 – CONCRETE VIBRATORS

### BACKPACK TRANSMISSION

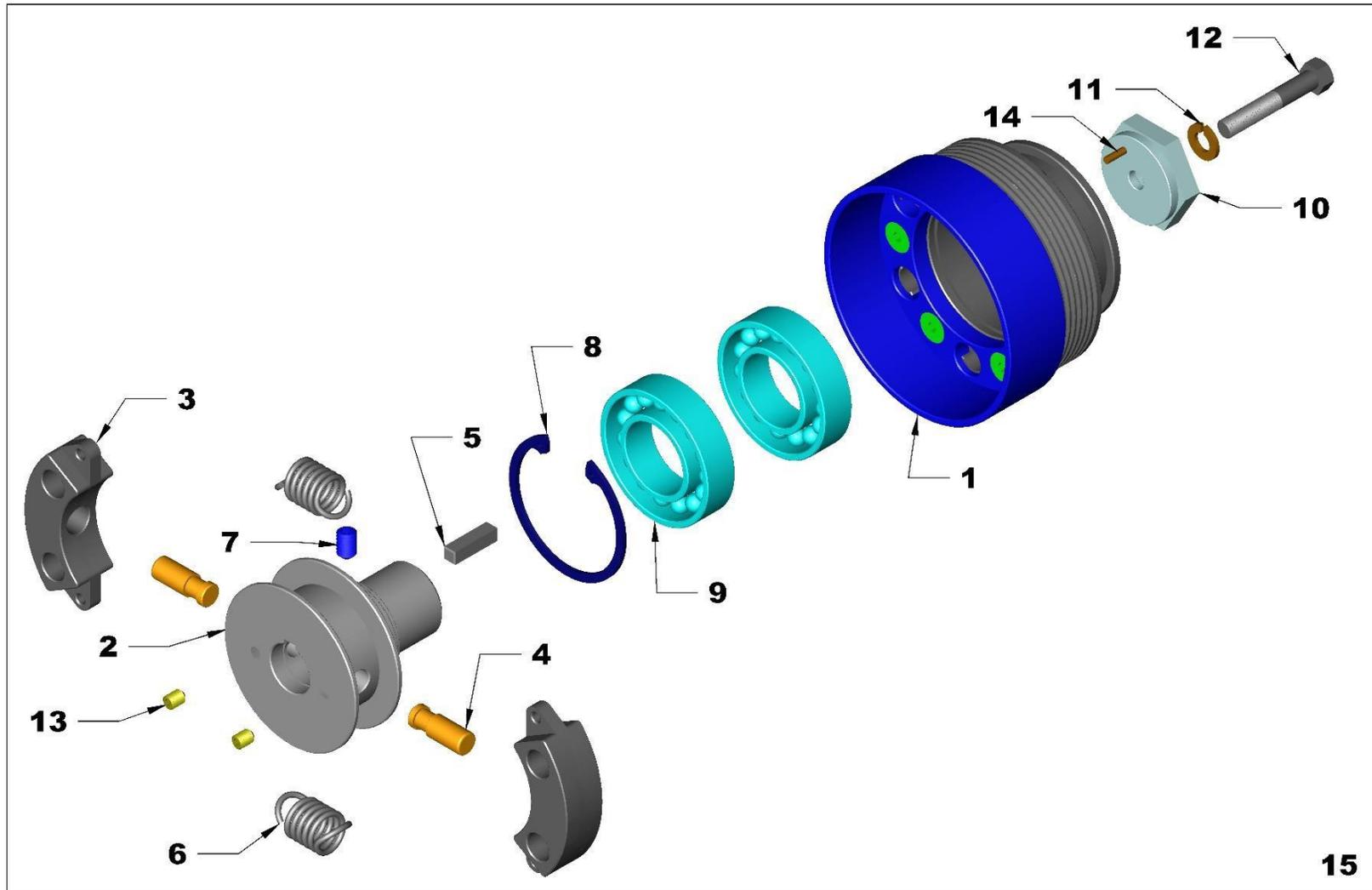


**PARTS LIST 3: BACKPACK TRANSMISSION**

Item #	Part #	Description	QTY
1	78635A1	TRANSMISSION BOX	1
2	78635B1	TRANSMISSION BOX COVER	1
3	78295N1	DRIVEN PULLEY	1
4	78140C300	BEARING, DOUBLE SEALED	2
5	78180G87	DOWEL PIN	2
6	78215M1	END CAP	1
7	78190F150	SCREW	8
8	78190F208	SCREW	3
9	78190F220	SCREW	2
10	78285A250	LOCK WASHER	9
11	78320B206	SOCKET CAP SCREW	4
12	78390B1	MICRO V BELT	1
13A	78160CW1	L.H. DRIVE CORE ADAPTOR	1
13B	78160CW2	R.H. DRIVE CORE ADAPTOR (NOT SHOWN)	1
14	78150DE1	CASING ADAPTOR	1

## PARTS LIST 4 – CONCRETE VIBRATORS

### BACKPACK CLUTCH

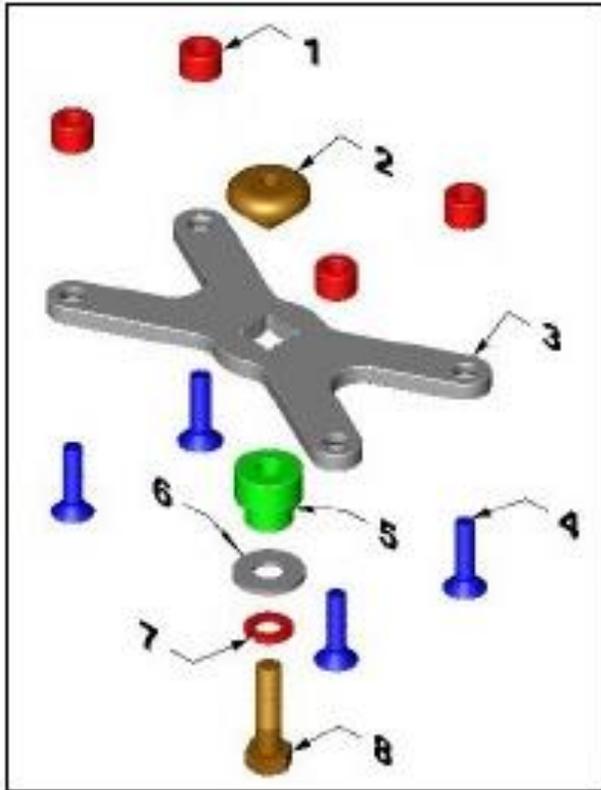


**PARTS LIST 4: BACKPACK CLUTCH**

Item #	Part #	Description	QTY
1	78295S1	PULLEY, CLUTCH DRUM ASSEMBLY	1
2	78630A1	CLUTCH ADAPTOR	1
3	78625A1	CLUTCH SHOE	2
4	78180F308	DOWEL PIN	2
5	78575D75	KEY	1
6	78465D1	CLUTCH SPRING	2
7	78320A203	SET SCREW	1
8	78255F1	RETAINING RING	1
9	78140D005	BEARING, DOUBLE SHEILD	2
10	78370D1	WASHER	1
11	78285A250	LOCK WASHER	1
12	78280B150	SCREW	1
13	78190B125	SET SCREW	2
14	78180A1	SPRING PIN	1
15	7825BA1	COMPLETE CLUTCH ASSEMBLY	1

## PARTS LIST 5 – CONCRETE VIBRATORS

### BACKPACK FRAME

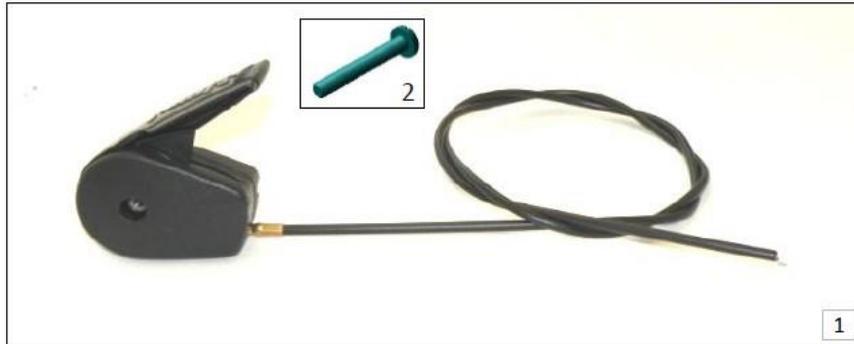


### PARTS LIST 5: BACKPACK FRAME

Item #	Part #	Description	QTY
1	78200AJ1	STAND-OFFS ENGINE PLATE	4
2	78211F1	NUT, FRAME	1
3	78215BR1	ENGINE MOUNTING PLATE	1
4	78190J30	SCREW ENGINE MOUNT	4
5	78200AW1	SPACER, FRAME	1
6	78370A312	WASHER	1
7	78285A312	LOCK WASHER	1
8	78280A312	BOLT	1
9	78440AT1	FRAME	1
10	78445E1	PAD, FRAME	1
11	78440AV1	COMPLETE FRAME ASSEMBLY	1

## PARTS LIST 6 – CONCRETE VIBRATORS

### BACKPACK THROTTLE ASSEMBLY



### BACKPACK THROTTLE ASSEMBLY

Item #	Part #	Description	QTY
1	78605F1	THROTTLE CONTROL ASSEMBLY	1
2	78190F217	SCREW	1

## PARTS LIST 7 – CONCRETE VIBRATORS

### BACKPACK ENGINE



### BACKPACK ENGINE

Item #	Part #	Description	QTY
1	816850X1	ENGINE, HONDA GXH50	1

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