

OPERATION AND PARTS MANUAL



Plate Compactor *Mikasa* **Model** **MVC-40G**

(Robin EH09-2D Gasoline Engine)

Revision #4 (06/06/07)

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publication, visit our website at:
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THIS MANUAL MUST ACCOMPANY THE EQUIPMENT AT ALL TIMES.



CALIFORNIA — Proposition 65 Warning

Gasoline engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects and other reproductive harm.

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Multiquip MVC-40G Plate Compactor

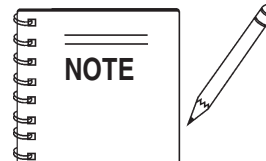
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ROBIN EH09-2D Engine (EPA)

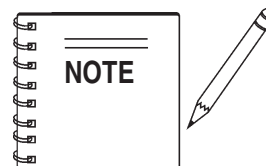
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*Specification and part number
are subject to change without
notice.*



*As a continuing effort to
update our parts book, contact
the **MULTIQUIP** literature
department for the latest
revision of your "Operation
and Parts Manual"*

PARTS ORDERING PROCEDURES

Ordering parts has never been easier! Choose from three easy options:



Order via Internet (Dealers Only):

Order parts on-line using Multiquip's SmartEquip website!

- View Parts Diagrams
- Order Parts
- Print Specification Information



If you have an MQ Account, to obtain a Username and Password, E-mail us at: parts@multiquip.com.

To obtain an MQ Account, contact your District Sales Manager for more information.

Goto www.multiquip.com and click on

Order Parts to log in and save!

Use the **internet** and qualify for a **5% Discount** on *Standard orders* for all orders which include complete part numbers.*

Note: Discounts Are Subject To Change



Order via Fax (Dealers Only):

All customers are welcome to order parts via Fax.

Domestic (US) Customers dial:

1-800-6-PARTS-7 (800-672-7877)

Fax your order in and qualify for a **3% Discount** on *Standard orders* for all orders which include complete part numbers.*

Note: Discounts Are Subject To Change



Order via Phone: Domestic (US) Dealers Call:
1-800-427-1244

Non-Dealer Customers:

Contact your local Multiquip Dealer for parts or call 800-427-1244 for help in locating a dealer near you.



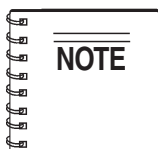
International Customers should contact their local Multiquip Representatives for Parts Ordering information.

When ordering parts, please supply:

- ☐ Dealer Account Number
- ☐ Dealer Name and Address
- ☐ Shipping Address (if different than billing address)
- ☐ Return Fax Number
- ☐ Applicable Model Number
- ☐ Quantity, Part Number and Description of Each Part

☐ Specify Preferred Method of Shipment:

- ☒ Fed Ex/UPS
- ☒ DHL
- ☐ Priority One
- ☐ Truck
- ☐ Ground
- ☐ Next Day
- ☐ Second/Third Day



Unless otherwise indicated by customer, all orders are treated as *Standard Orders* and will ship within 24 hours. We will make every effort to ship *Air Shipments* the same day the order is received, if received prior to 2PM PST. *Stock Orders* must be noted on fax or web order form.

WE ACCEPT ALL MAJOR CREDIT CARDS!



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TABLE 1. COMPACTOR SPECIFICATIONS

| | |
|----------------------------|---------------------------------|
| Model | MVC-40G |
| Centrifugal Force (Blows) | 1,573 ft-lbs (7.2 kN) |
| Vibration Frequency | 6,200 vpm (103 Hz) |
| Maximum Forward Speed | 75~82 ft/min (23~25 meters/min) |
| Plate Size (L x W) | 16.53 x 11.41 in (420 x 290 mm) |
| Operating Weight | 97 lbs. (43 kg) |
| Maximum Area of Compaction | 4,711 sq. ft/hr (438 sq. m/hr) |

Table 2. ENGINE SPECIFICATIONS

| | | |
|------------------------------|--------------------|---|
| Engine | Model | ROBIN EH092D40010 |
| | Type | Air-cooled 4 stroke, Single Cylinder, Horizontal Shaft, OHV Gasoline Engine |
| | Displacement | 86 cc. |
| | Max Output | 2.1 kW/4,200 R.P.M. |
| | Continuous Output | 1.5 kW/3,600 R.P.M. |
| | Fuel Tank Capacity | Approx. .40 U.S. gallons (1.5 liters) |
| | Fuel | Unleaded Automobile Gasoline |
| | Lube Oil Capacity | .317 qts. (0.3 liters) |
| | Spark Plug | NGK BMR4A (Champion RCJ14) |
| Dimension (L x W x H) | | 9.80 x 11.8 x 15.0 in. (249 x 299 x 380 mm) |
| Dry Net Weight | | 21.8 lbs. (9.9 Kg.) |

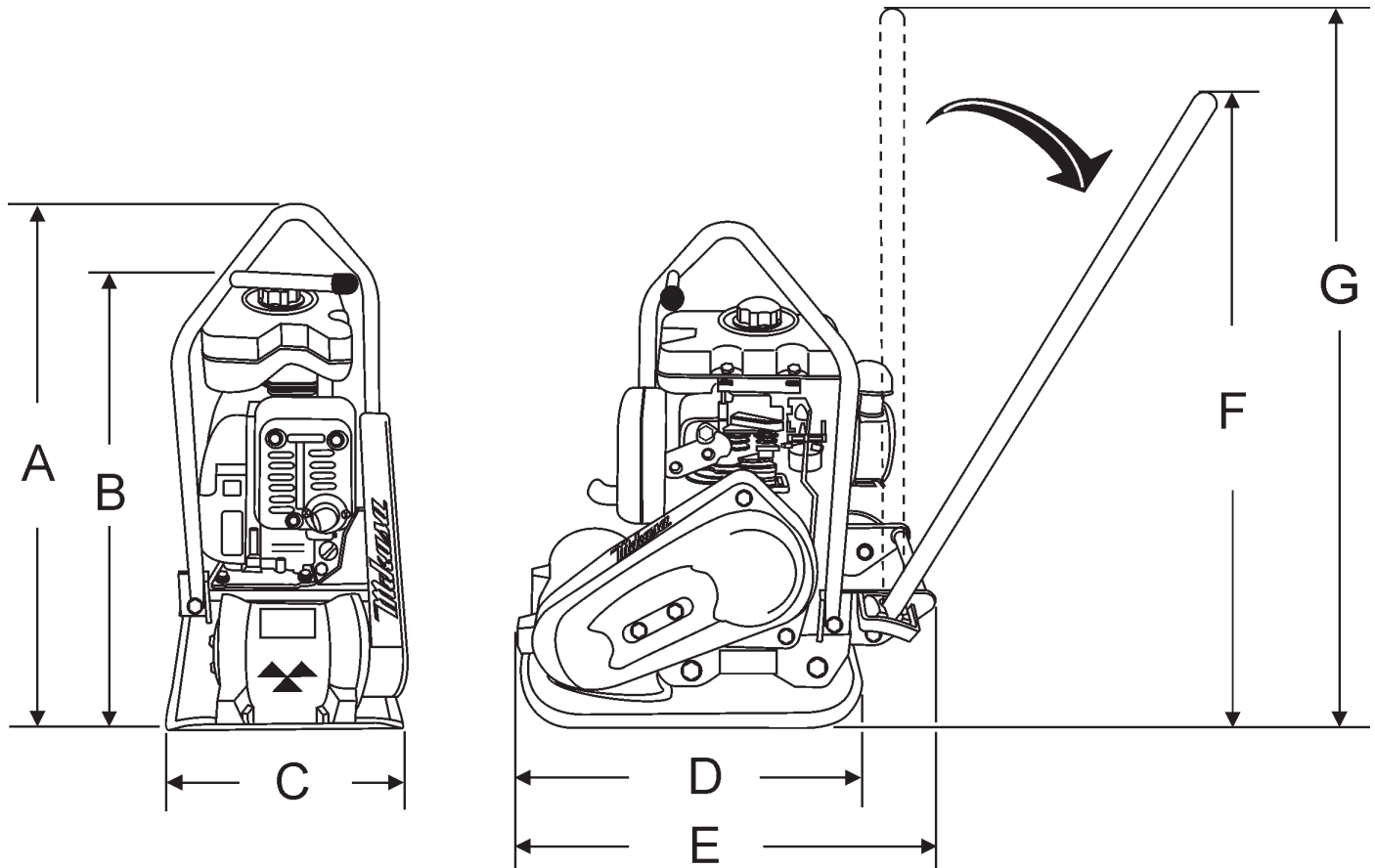


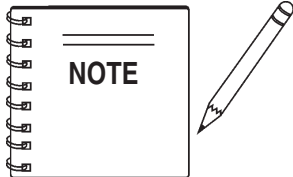
Figure 1. MVC-40G Plate Compactor Dimensions

| TABLE 3. DIMENSIONS | | |
|---------------------|--------------------------|----------------------------------|
| REFERENCE LETTER | DESCRIPTION | DIMENSION in. (mm) |
| A | Height (Lifting Bale) | 23.5 in. (597 mm) |
| B | Height (Lifting Handle) | 20.5 in. (521 mm) |
| C | Width | 11.25 in. (286 mm) |
| D | Length (Plate) | 16.25 in. (413 mm) |
| E | Length (Compactor) | 19.00 in. (483 mm) |
| F | Height (Handle Upright) | 40.50 in. (1,029 mm) |
| G | Height (Handle Tilted) | 36.00 in. (914 mm) |
| | Plate Dimensions (L x W) | 16.53 x 11.41 in. (420 x 290) |

MVC-40G — SAFETY MESSAGE ALERT SYMBOLS

FOR YOUR SAFETY AND THE SAFETY OF OTHERS!

Safety precautions should be followed at all times when operating this equipment. Failure to read and understand the Safety Messages and Operating Instructions could result in injury to yourself and others.



This Owner's Manual has been developed to provide complete instructions for the safe and efficient operation of the **MQ Model MVC-40G Plate Compactor**. Refer to the engine manufacturers instructions for data relative to its safe operation.

Before using this plate compactor, ensure that the operating individual has read and understands all instructions in this manual.

SAFETY MESSAGE ALERT SYMBOLS

The three (3) Safety Messages shown below will inform you about potential hazards that could injure you or others. The Safety Messages specifically address the level of exposure to the operator, and are preceded by one of three words: **DANGER**, **WARNING**, or **CAUTION**.

DANGER

You **WILL** be **KILLED** or **SERIOUSLY** injured if you **DO NOT** follow directions.

WARNING

You **CAN** be **KILLED** or **SERIOUSLY** injured if you **DO NOT** follow directions.

CAUTION

You **CAN** be **INJURED** if you **DO NOT** follow directions.

HAZARD SYMBOLS

Potential hazards associated with the operation of the **MQ Model MVC-40G Plate Compactor** will be referenced with Hazard Symbols which appear throughout this manual, and will be referenced in conjunction with Safety Message Alert Symbols.

WARNING - Lethal Exhaust Gas Hazards

Engine exhaust gases contain poisonous carbon monoxide. This gas is colorless and odorless, and can cause death if inhaled. **NEVER** operate this equipment in a confined area or enclosed structure that does not provide ample free flow air.



DANGER - Explosive Fuel Hazards

Gasoline is extremely flammable, and its vapors can cause an explosion if ignited. **DO NOT** start the engine near spilled fuel or combustible fluids.



DO NOT fill the fuel tank while the engine is running or hot. **DO NOT** overfill tank, since spilled fuel could ignite if it comes into contact with hot engine parts or sparks from the ignition system. Store fuel in approved containers, in

WARNING - Burn Hazards

Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operations. Never operate the engine with heat shields or heat guards removed.



WARNING - Respiratory Hazards

ALWAYS wear approved **respiratory** protection when required.



MVC-40G — SAFETY MESSAGE ALERT SYMBOLS



CAUTION - Rotating Parts Hazards

NEVER operate equipment with covers, or guards removed. Keep fingers, hands, hair and clothing away from all moving parts to prevent injury.

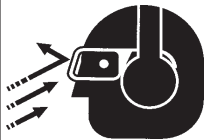


CAUTION - Accidental Starting Hazards

ALWAYS place the power source, circuit breakers or **ON/OFF** switch in the **OFF** position, when the generator is not in use, unless connected to transfer switch.



CAUTION - Eye and Hearing Hazards



ALWAYS wear approved eye and hearing protection.



CAUTION - Equipment Damage Hazards

Other important messages are provided throughout this manual to help prevent damage to your light tower, other property, or the surrounding environment.



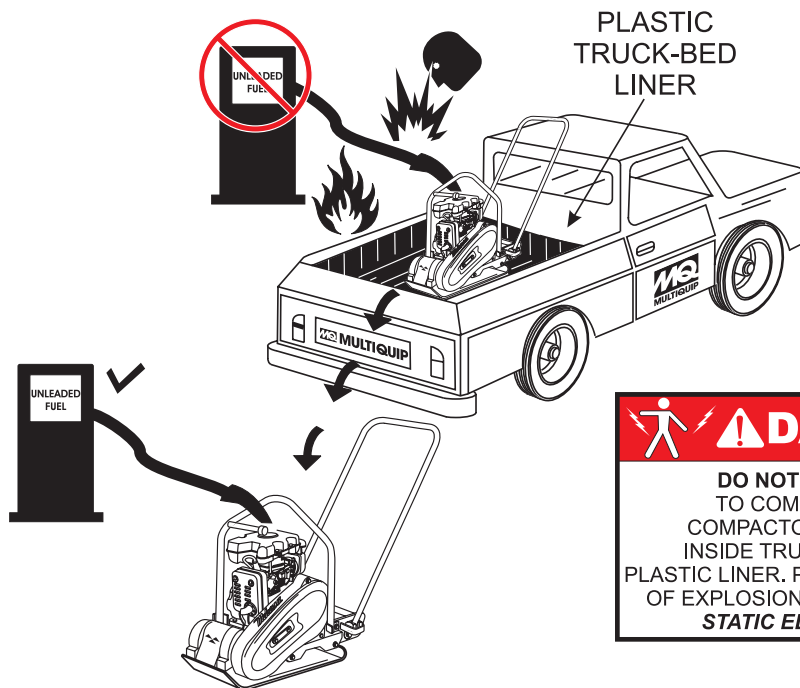
WARNING - Read Manual

Before attempting to operate the plate compactor, and to avoid serious injury to personnel, always read and understand operation manual. Failure to read and understand operation manual could result in serious harm or even death!



DANGER - Refueling Hazard

DO NOT refuel plate compactor if compactor is placed inside truck bed with **PLASTIC LINER**. Possibility exists of explosion or fire due to **static electricity**.



DO NOT ADD FUEL TO COMPACTOR IF COMPACTOR IS PLACED INSIDE TRUCK-BED WITH PLASTIC LINER. POSSIBILITY EXISTS OF EXPLOSION OR FIRE DUE TO **STATIC ELECTRICITY**.

MVC-40G — RULES FOR SAFE OPERATION



CAUTION - Read Manual!

Failure to follow instructions in this manual may lead to serious injury or even death! This equipment is to be operated by trained and qualified personnel only! This equipment is for industrial use only.



The following safety guidelines should always be used when operating the **MQ Mikasa Model MVC-40G Plate Compactor**.

GENERAL SAFETY

- **DO NOT** operate or service this equipment before reading this entire manual.
- This equipment should not be operated by persons under 18 years of age.
- **NEVER** operate this equipment without proper protective clothing, shatterproof glasses, steel-toed boots and other protective devices required by the job.



- **NEVER** operate this equipment when not feeling well due to fatigue, illness or taking medicine.



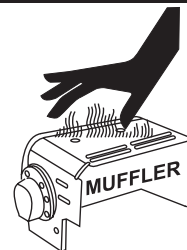
- **NEVER** operate this equipment under the influence of **drugs** or **alcohol**.



- **ALWAYS** wear proper respiratory (mask), hearing and eye protection equipment when operating the plate compactor.
- Whenever necessary, replace nameplate, operation and safety decals when they become difficult read.
- Manufacture does not assume responsibility for any accident due to equipment modifications.
- **NEVER** use accessories or attachments, which are not recommended by Multiquip for this equipment. Damage to the equipment and/or injury to user may result.



- **NEVER** touch the hot exhaust manifold, muffler or cylinder. Allow these parts to cool before servicing engine or mixer.



- **High Temperatures** – Allow the engine to cool before adding fuel or performing service and maintenance functions. Contact with **hot!** components can cause serious burns.

- The engine section of this mixer requires an adequate free flow of cooling air. **NEVER** operate the compactor in any enclosed or narrow area where free flow of the air is restricted. If the air flow is restricted it will cause serious damage to the compactor or engine and may cause injury to people. Remember the plate compactor's engine gives off **DEADLY** carbon monoxide gas.



- **ALWAYS** refuel in a well-ventilated area, away from sparks and open flames.

- **ALWAYS** use extreme caution when working with **flammable** liquids. When refueling, **stop the engine** and allow it to cool. **DO NOT smoke** around or near the machine. Fire or explosion could result from fuel vapors, or if fuel is spilled on a hot engine.



- **NEVER** operate the plate compactor in an explosive atmosphere or near combustible materials. An explosion or fire could result causing severe **bodily harm or even death**.



- Topping-off to filler port is dangerous, as it tends to spill fuel.
- Maintain this equipment in a safe operating condition at all times.
- **ALWAYS** store equipment properly when it is not being used. Equipment should be stored in a clean, dry location out of the reach of children.

MVC-40G — RULES FOR SAFE OPERATION

- **NEVER** run engine without air filter. Severe engine damage may occur.
- **ALWAYS** service air cleaner frequently to prevent carburetor malfunction.
- **ALWAYS** be sure the operator is familiar with proper safety precautions and operations techniques before using compactor.
- **ALWAYS** read, understand, and follow procedures in Operator's Manual before attempting to operate equipment.
- Refer to the **ROBIN Engine Owner's Manual** for engine technical questions or information.

Loading and Unloading (Crane)

- Before lifting, make sure that machine parts (lifting bale and vibration insulator) are not damaged and screws are not loosened or lost.
- **ALWAYS** make sure crane or lifting device has been properly secured to the lifting bale on the compactor.



- **NEVER** lift the compactor while the engine is running.
- Use adequate lifting cable (wire or rope) of sufficient strength.
- Use one point suspension hook and lift straight upwards.
- **NEVER** allow any person or animal to stand underneath the machine while lifting.
- Try not to lift compactor to unnecessary heights.

TRANSPORTING

- **ALWAYS** shutdown engine before transporting.
- Tighten fuel tank cap securely and close fuel cock to prevent fuel from spilling.
- Drain fuel when transporting compactor over long distances or bad roads.

MAINTENANCE

- **NEVER** lubricate components or attempt service on a running compactor.
- **ALWAYS** allow the plate compactor a proper amount of time to cool before servicing.
- Keep the compactor in proper running condition.
- Fix damage to the plate compactor immediately and always replace broken parts.
- Dispose of hazardous waste properly. Examples of potentially hazardous waste are used motor oil, fuel and fuel filters.
- **DO NOT** use food or plastic containers to dispose of hazardous waste.

EMERGENCIES

- **ALWAYS** know the location of the nearest **fire extinguisher** and **first aid kit**.



- In emergencies **always** know the location of the nearest phone or **keep a phone on the job site**. Also know the phone numbers of the nearest **ambulance**, **doctor** and **fire department**. This information will be invaluable in the case of an emergency.



MVC-40G — GENERAL INFORMATION

Definition of Plate Compactor

The Mikasa MVC-40G is a one direction (forward) walk behind, plate compactor designed for the compaction of sand, mixed soils and asphalt. This plate compactor is a powerful compacting tool capable of applying a tremendous force in consecutive high frequency vibrations to a soil surface. Its applications include compacting for road, embankments and reservoirs as well as backfilling for gas pipelines, water pipelines and cable installation work.

The MVC-40G is small and lightweight. It can be easily handled by one person in confined areas. It has an accessible front-mounted vibrator assembly. The sealed belt cover keeps dirt and rocks away from the belt.

Vibratory Plate

The vibratory plate of the compactor produces low amplitude high frequency vibrations, designed to compact granular soils and asphalt.

The resulting vibrations cause forward motion. The engine and handle are vibration isolated from the vibrating plate.

Frequency/Speed

The compactor's vibrating plate has a frequency of 6,200 vpm (vibrations per minute). The travel speed of the compactor is approximately 82 ft./minute (25 meters/minute).

Engine

The MQ Mikasa MVC-40G Plate Compactor is equipped with a air-cooled, 4-stroke ROBIN EH09-2D gasoline engine. When adding fuel, always use unleaded gasoline.

Controls

Before starting the MVC-40G Plate Compactor identify and understand the function of the controls and components as indicated Figure 3.

MVC-40G — COMPONENTS (PLATE COMPACTOR)

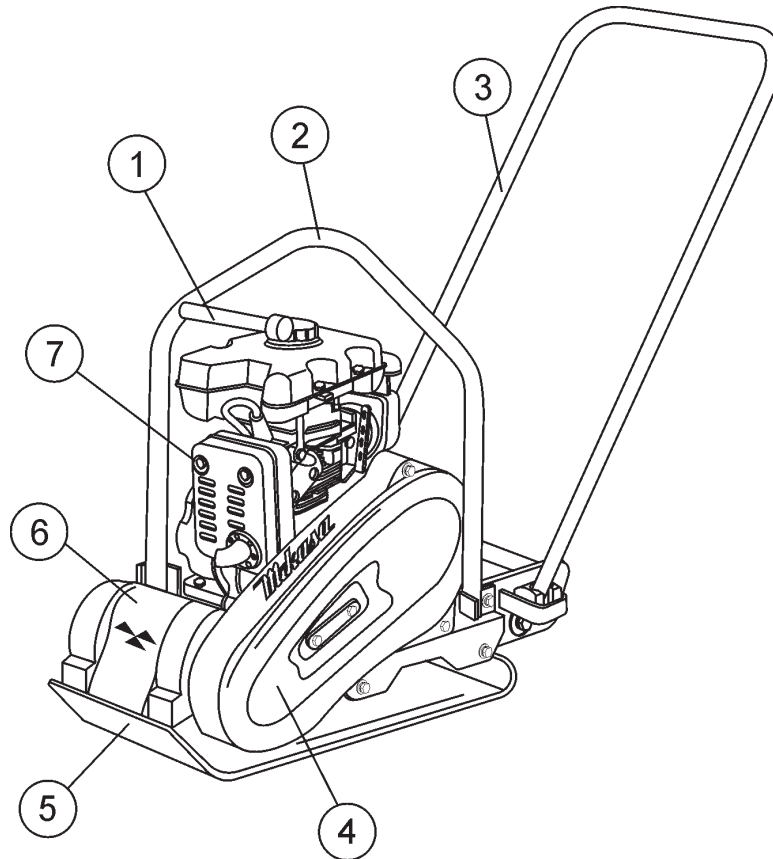


Figure 3. MVC-40G Plate Compactor Components

Figure 3 shows the location of the components and general maintenance parts. The function of each component is described below:

1. **Hand Lift Handle** – When lifting of the compactor by personnel is required, use this hand lift handle. **DO NOT** attach a crane or heavy lifting device to this handle to lift the compactor.
2. **Lifting Bale** – When lifting of the compactor is required either by forklift, crane etc., tie rope or chain around this lifting point.
3. **Handle Bar** – When operating the compactor use this handle bar to maneuver the compactor.
4. **Belt Cover** – Remove this cover to gain access to the V-belts. **NEVER** run the compactor without the V-belt cover. If the V-belt cover is not installed, the possibility exist that your hand may get caught between the V-belt and clutch, thus causing serious injury and bodily harm.
5. **Vibrating Plate** – A flat, open plate made of durable cast iron construction used in the compacting of soil.
6. **Vibration Case** – Encloses the eccentric, gears and counter weights.
7. **Gasoline Engine** – This plate compactor uses a 4-stroke, air cooled ROBIN EH09-2D gasoline engine. Refer to the ROBIN owner's manual for engine information.

MVC-40G — COMPONENTS (ENGINE)

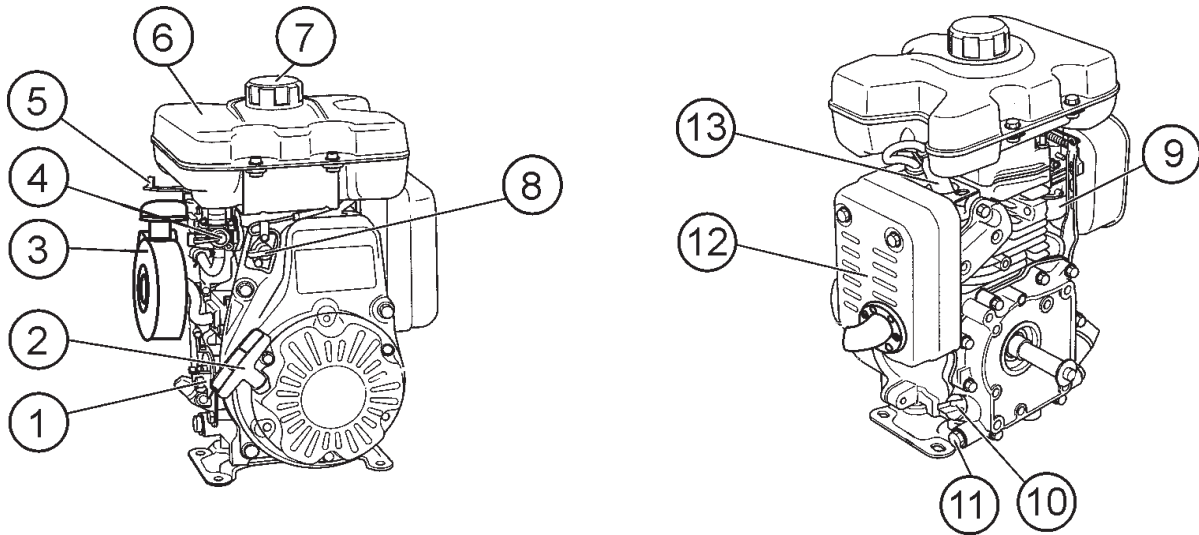


Figure 4. Engine Controls and Components

INITIAL SERVICING

The engine (Figure 4) must be checked for proper lubrication and filled with fuel prior to operation. Refer to the **ROBIN** engine service manual for instructions and details for proper operation and servicing.

1. **Throttle Lever** – Used to adjust engine RPM. Push lever upwards for **SLOW**, and down for **FAST**.
2. **Recoil Starter (pull rope)** – Manual-starting method. Pull the starter grip until resistance is felt, then pull briskly and smoothly
3. **Air Cleaner** – Prevents dirt and other debris from entering the fuel system. Release clips on side of air filter canister to gain access to filter element.
4. **Fuel Valve Lever** – **OPEN** to let fuel flow, **CLOSE** to stop the flow of fuel.
5. **Choke Lever** – Used in the starting of a cold engine, or in cold weather conditions. The choke enriches the fuel mixture.
6. **Fuel Tank** – Holds .40 gals (1.5 liters) unleaded gasoline. For additional information refer to ROBIN engine owner's manual.
7. **Fuel Filler Cap** – Remove this cap to add unleaded gasoline to the fuel tank. Make sure cap is tightened securely. **DO NOT** over fill.
8. **Start/Stop Switch** – Place this switch in the "ON" position (1) to start the engine. Place in the "OFF" position (0) to stop the engine.

9. **Carburetor** – Regulates fuel flow.
10. **Oil Dipstick/ Filler Cap**– Remove the filler cap dipstick when checking the engine oil level. Add engine oil through this filler port. See Table 4 for recommended type engine oil.
11. **Oil Drain Plug** – Remove this plug to drain engine oil from the crankcase.
12. **Muffler** – Used to reduce noise and emissions. **ALWAYS** allow a sufficient amount of time for the muffler to cool before touching.

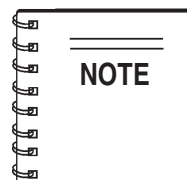


Warning - Hot Surface

Engine components can generate extreme heat. To prevent burns, **DO NOT** touch these areas while the engine is running or immediately after operating. **NEVER** operate the engine with the muffler removed.



13. **Spark Plug** – Provides spark to the ignition system. Set spark plug gap to 0.6 - 0.7 mm (0.028 - 0.031 inch) Clean spark plug once a week.



Operating the engine without an air filter, with a damaged air filter, or a filter in need of replacement will allow dirt to enter the engine, causing rapid engine wear.

Before Starting

1. Read safety instructions at the beginning of manual.
2. Clean the compactor, removing dirt and dust. Particularly, the bottom of the plate, engine cooling air inlet, carburetor and air cleaner.
3. Check the air filter for dirt and dust. If the air filter is dirty, blow through the air filter cartridge from the inside, moving a jet of dry compressed air up and down until all dust is removed. Otherwise replace air filter with a new one.
4. Check carburetor for external dirt and dust. Clean with dry compressed air.
5. Check fastening nuts and bolts for tightness. Loosened screws or bolts due to vibration, could lead to unexpected accident.

Engine Oil Check

1. To check the engine oil level, place the plate compactor on secure level ground with the engine stopped.
2. Remove the filler cap/dipstick from the engine oil filler hole (Figure 5) and wipe it clean.

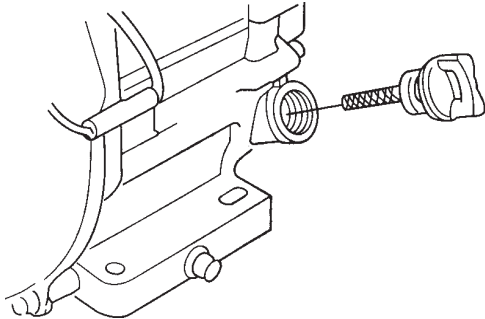


Figure 5. Engine Oil Dipstick

3. Insert and remove the dipstick without screwing it into the filler neck. Check the oil level shown on the dipstick.
4. If the oil level is low (Figure 6), fill to the edge of the oil filler hole with the recommended oil type (Table 4).

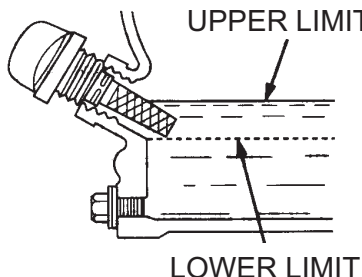
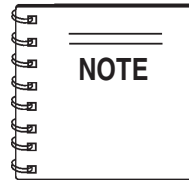


Figure 6. Engine Oil Dipstick



The Oil Alert system will automatically shut-down the engine if the engine oil level falls below safe operating limits. Always be sure to check the engine oil level prior to starting the engine.

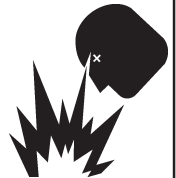
Table 4. Oil Type

| Season | Temperature | Oil Type |
|-------------|----------------|---------------|
| Summer | 25°C or Higher | SAE 10W-30 |
| Spring/Fall | 25°C~10°C | SAE 10W-30/20 |
| Winter | 0°C or Lower | SAE 10W-10 |



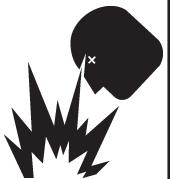
Danger - Flammable Fuel

Motor fuels are highly flammable and can be dangerous if mishandled. **DO NOT** smoke while refueling. **DO NOT** attempt to refuel the compactor if the engine is **hot!**, **running or in the dark.**



Danger - Flammable Fuel

Adding fuel to the tank should be done only when the engine is stopped and has had an opportunity to cool down. In the event of a fuel spill, **DO NOT** attempt to start the engine until the fuel residue has been completely wiped up, and the area surrounding the engine is dry.



Fuel Check

1. Remove the gasoline cap located on top of fuel tank.
2. Visually inspect to see if fuel level is low. If fuel is low, replenish with unleaded fuel.
3. When refueling, be sure to use a strainer for filtration. **DO NOT** top-off fuel. Wipe up any spilled fuel.

V-Belt Check



Caution - V-Belt check

NEVER attempt to check the V-belt with the engine running. Severe injury can occur if your hand (Figure 7) gets caught between the V-belt and the clutch. Always use safety gloves.

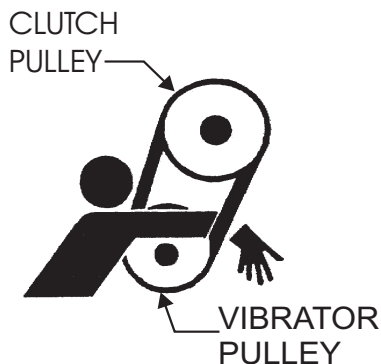


Figure 7. V-Belt Hazard

1. To check the V-belt tension, remove the bolts that secure the belt cover to the frame as shown in Figure 8.

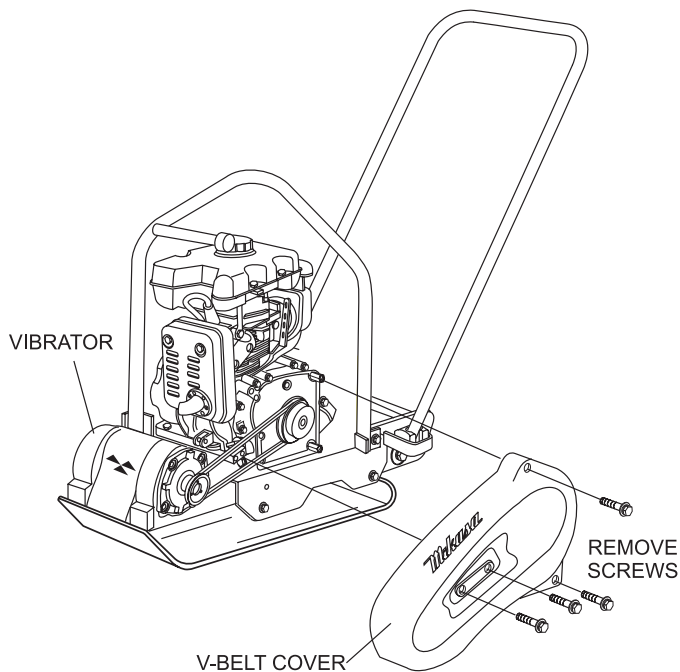


Figure 8. V-Belt Cover Removal

2. The V-belt tension is proper if the V-belt bends 10 to 15 mm (Figure 9) when depressed with finger at midway between the clutch and vibration pulley shafts.

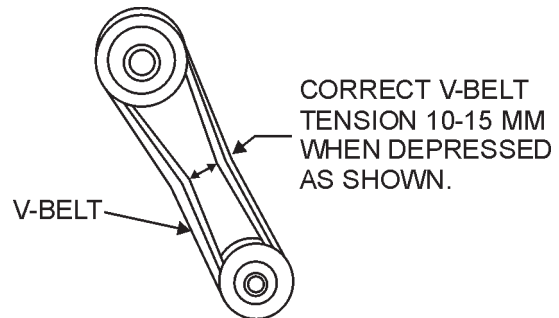


Figure 9. V-Belt Tension

3. A loose V-belt will decrease the power transmission output, causing reduced compaction and premature wear of the belt.
4. If the V-belt becomes worn or loose, replace it.

Vibrator Oil Check

1. Place the MVC-40G plate compactor horizontally on a flat surface. Make sure the compactor is level when checking the oil in the vibrator assembly.
2. Check vibrator oil level by removing the plug (vibrator oil gauge) as shown in Figure 10. The oil level should be up to the oil plug. If oil is required, replace using only SAE 10W-30 motor oil.

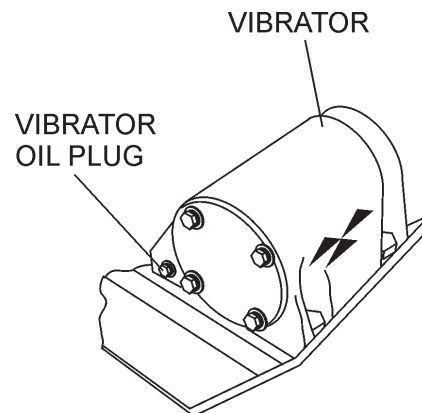


Figure 10. Vibrator Oil Plug



Caution - Read Manual

DO NOT attempt to operate the plate compactor until the Safety, General Information and Inspection sections of this manual have been **read and thoroughly understood**.



This section is intended to assist the operator with the **initial start-up** of the plate compactor. It is extremely important that this section be read carefully before attempting to use the compactor in the field.

Starting the Engine

1. Place the engine **fuel valve lever** (Figure 11) in the "**ON**" position.

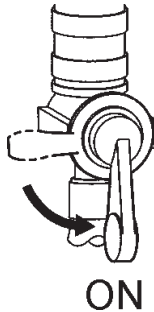


Figure 11. Engine Fuel Valve Lever (ON Position)

2. Place the **engine ON/OFF switch** (Figure 12) in the "**ON**" position.

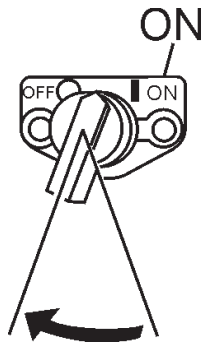


Figure 12. Engine ON/OFF Switch (ON Position)

3. Place the **choke lever** (Figure 13) in the "**CLOSED**" position if starting a **cold** engine, if starting a **warm engine** or the **temperature is warm**, place the **choke lever** in the "**OPEN**" position

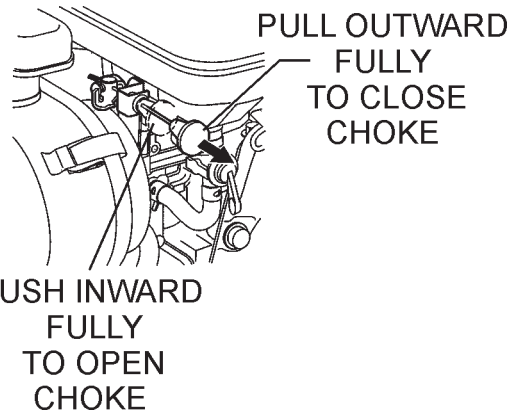


Figure 13. Engine Choke Lever (Closed)

4. Place the **throttle lever** (Figure 14) in the **slow** position (idle)

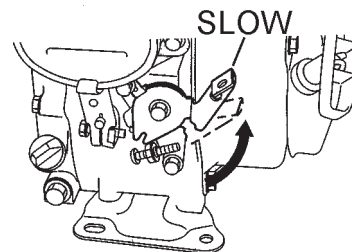


Figure 14. Throttle Lever (Slow)

5. Grasp the starter grip (Figure 15) and slowly pull it out. The resistance becomes the hardest at a certain position, corresponding to the compression point. Pull the starter grip briskly and smoothly for starting.

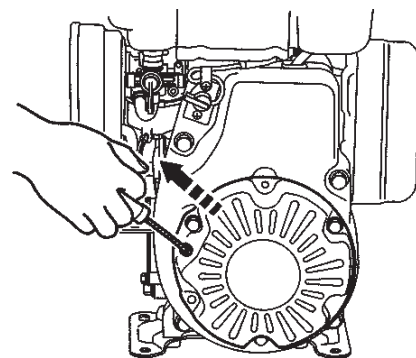


Figure 15. Starter Grip

6. Let the engine warm for a few minutes without a load and check for fuel leaks, and noises that would associate with a loose component.

MVC-40G — INITIAL START-UP

7. If the engine is running properly, slowly return (push inward) the choke lever (Figure 13) to the “**OPEN**” position. If the engine has not started repeat steps 1 through 6.
8. To begin compacting, place the throttle lever (Figure 16) in the “**fast**” (run) position.
2. After the engine **cools**, turn the engine ON/OFF switch to the “**OFF**” position (Figure 18).

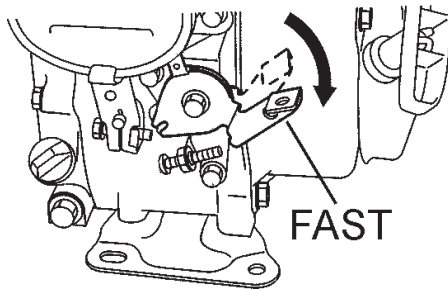


Figure 16. Throttle Lever (Fast)

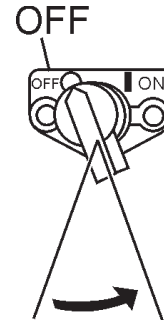


Figure 18. Engine ON/OFF Switch (OFF)

3. Place the **fuel shut-off lever** (Figure 19) in the **OFF** position.

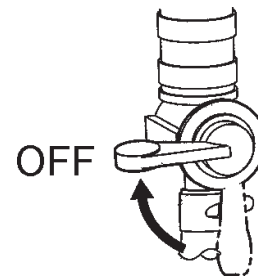


Figure 19. Fuel Valve Lever (OFF)

CAUTION - Compacting Speed

ALWAYS run engine at **full speed** while compacting.

Stopping The Engine

Normal Shutdown

1. Move the throttle lever to the **IDLE** position (Figure 17) and run the engine for three minutes at low speed.

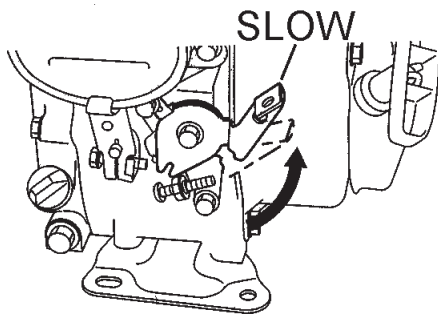


Figure 17. Throttle Lever (Idle)

Emergency Shutdown

1. Move the throttle lever quickly to the **SLOW** position, and place the engine ON/OFF switch in the **OFF** position.

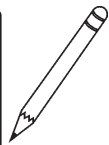
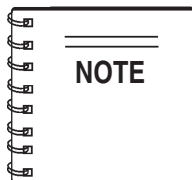
Operation



CAUTION - Safety Rules

Make sure to follow all safety rules referenced in the safety section of this manual before operating compactor. Keep work area clear of debris and other objects that could cause damage to the compactor or bodily injury.

1. Once the engine has started, move the engine throttle lever quickly to the **fast** position.
2. With the throttle lever in the fast position, the engine speed should be around 2,300 RPM, therefore engaging the centrifugal clutch.



Always move the throttle lever quickly without hesitation, because increasing the engine speed slowly causes the clutch to slip.

3. Firmly grasp the compactor's handle bar with both hands, the compactor will begin moving forward.
4. Slowly walk behind the compactor and be on the lookout for any large objects or foreign matter that might cause damage to the compactor or bodily injury.

5. Compactor traveling speed may drop on soils which contain clay, however there may be cases where traveling speed drops because the compaction plate does not leave the ground surface easily due to the composition of the soil. To rectify this problem do the following:

- Check the bottom plate to see if clay or equivalent material has been lodged in the plate mechanism. If so, wash with water and remove.
- Remember the compactor does not work as efficiently on clay or soils that have a high moisture content level.
- If the soil has a high moisture level, dry soil to appropriate moisture content level or carry out compaction twice.

MVC-40G — MAINTENANCE



CAUTION - Inspection

Inspection and other services should **always** be carried out on hard and level ground with the engine shut down.

Inspection and Maintenance Service Tables.

- To make sure your plate compactor is always in good working condition before using, carry out the maintenance inspection in accordance with Tables 5 through 7.

TABLE 5. MVC-40G MACHINE INSPECTION

| ITEM | HOURS OF OPERATION | REMARKS |
|-------------------------------------|---------------------------|-------------|
| Damaged Parts | Every 8 hours (every day) | |
| Loose or Lost Screws | Every 8 hours (every day) | |
| Function of Controlling System Part | Every 8 hours (every day) | |
| Vibrator Oil Check | Every 100 hours | See page 16 |
| Vibrator Oil Replacement | Every 300 hours | See page 21 |
| V-belt (clutch) Check | Every 200 hours | See page 21 |

Table 6. ENGINE MAINTENANCE

| DESCRIPTION (3) | OPERATION | BEFORE | FIRST MONTH OR 10 HRS. | EVERY 3 MONTHS OR 25 HRS. | EVERY 6 MONTHS OR 50 HRS. | EVERY YEAR OR 100 HRS. | EVERY 2 YEARS OR 200 HRS. |
|------------------|-------------------------|--------|--|---------------------------|---------------------------|------------------------|---------------------------|
| Engine Oil | CHECK | X | | | | | |
| | CHANGE | | X | | | | |
| Air Cleaner | CHECK | X | | | | | |
| | CHANGE | | | X (1) | | | |
| All Nuts & Bolts | Re-tighten If Necessary | X | | | | | |
| Spark Plug | CHECK-CLEAN | | | | X | | |
| | REPLACE | | | | | | X |
| Cooling Fins | CHECK | | | | X | | |
| Spark Arrestor | CLEAN | | | | | X | |
| Fuel Tank | CLEAN | | | | | X | |
| Fuel Filter | CHECK | | | | | X | |
| Idle Speed | CHECK-ADJUST | | | | | X (2) | |
| Valve Clearance | CHECK-ADJUST | | | | | | X (2) |
| Fuel lines | CHECK | | Every 2 years (replace if necessary) (2) | | | | |

(1) Service more frequently when used in **DUSTY** areas.

(2) These items should be serviced by your service dealer, unless you have the proper tools and are mechanically proficient. Refer to the ROBIN Manual for service procedures.

(3) For commercial use, log hours of operation to determine proper maintenance intervals.



CAUTION - Inspection Intervals

These inspection intervals are for operation under normal conditions. Adjust your inspection intervals based on the number of hours plate compactor is in use, and particular working conditions.



CAUTION - Inspection Intervals

Fuel piping and connections should be replaced every 2 years.

Daily Service

- Check for leakage of fuel or oil.
- Remove soil and clean the bottom of compaction plate.
- Check engine oil, see page 15.
- Check for loose screws including tightness. See Table 7 below (tightening torque), for retightening:

TABLE 7.

TIGHTENING TORQUE (in. kg/cm) Diameter

| Material | 6mm | 8mm | 10mm | 12mm | 14mm | 16mm | 18mm | 20mm |
|----------|--|-----|------|-------|-------|-------|-------|-------|
| 4T | 70 | 150 | 300 | 500 | 750 | 1,100 | 1,400 | 2,000 |
| 6-8T | 100 | 250 | 500 | 800 | 1,300 | 2,000 | 2,700 | 3,800 |
| 11T | 150 | 400 | 800 | 1,200 | 2,000 | 2,900 | 4,200 | 5,600 |
| * | 100 (6mm) 300 ~ 350 (8mm) 650 ~ 700 (10mm) | | | | | | | |

* (In case counter-part is of aluminum)

(Threads in use with this machine are all right handed)

Material and quality of material is marked on each bolt, and screw.

ENGINE OIL

- Drain the engine oil when the oil is **warm** as shown in Figure 20.
- Remove the oil drain bolt and sealing washer and allow the oil to drain into a suitable container.
- Replace engine oil with recommended type oil as listed in Table 4. Engine oil capacity is .317 quarts (.3 liters). **DO NOT** overfill.
- Install drain bolt with sealing washer and tighten securely.

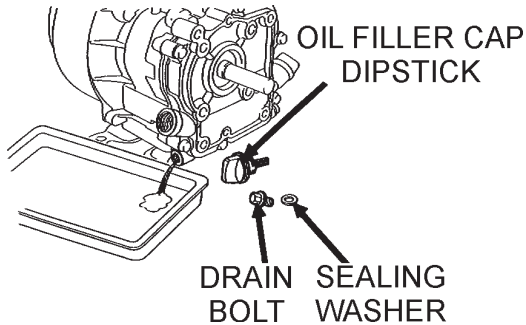


Figure 20. Engine Oil (Draining)

Engine Air Cleaner

1. Remove the air cleaner cover and foam filter element as shown in Figure 21.
2. Wash the gray foam outer filter element in kerosene or diesel fuel. Then saturate it in a mixture of 3 parts kerosene or diesel fuel and 1 part engine oil. Completely squeeze the element to remove the mixture and re-install it back into the air cleaner.

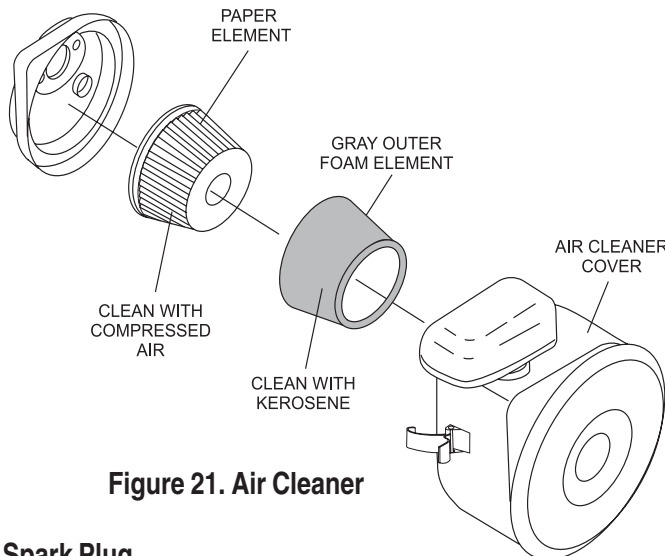


Figure 21. Air Cleaner

Spark Plug

1. Remove and clean the spark plug (Figure 22).
2. Adjust the spark gap to 0.028 ~0.031 inch (0.6~0.7 mm). This unit has electronic ignition, which requires no adjustments.

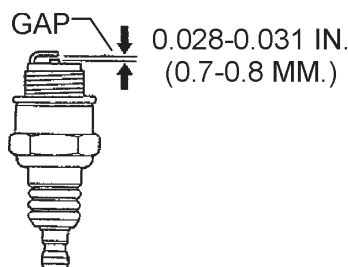


Figure 22. Spark Plug Gap

Changing Vibrator Oil

1. When changing the vibrator oil, remove the drain plug (Figure 10), and simply tip the compactor to drain the oil. Note that the oil will drain more easily while it is hot. Remember to use only 10W-30 motor oil when replacing vibrator oil.

Checking and Replacing the V-Belt and Clutch

1. After 200 hours of operation, remove the upper belt cover to check the V-belt tension. Tension is proper if the belt bends about 10 mm when depressed strongly with finger between shafts. Loose or worn V-belts reduces power transmission efficiency, causing weak compaction and reduces the life of the belt itself.

● Replacing the V-belt

Remove the upper and lower belt covers. Engage an offset wrench (13 mm) or the like to vibrator pulley (lower) fastening bolt. Engage waste cloth or the like at midway of V-belt on the left side and while pulling it back strongly, rotate the offset wrench clockwise so that the V-belt will come off.

● Reinstalling the V-belt

Engage V-belt to lower vibrator pulley and push the V-belt to left side of upper clutch and, in the same manner as in removal, rotate offset wrench clockwise so that the V-belt goes back on.

● Checking Clutch

Check the clutch simultaneously with V-belt checking. With belt removed, check outer drum of the clutch for seizure and "V" groove for wear or damage with your eyes. Clean the "V" groove as necessary. Wear of lining or shoe should be checked with running check. If the shoe is worn, power transmission becomes deficient and slipping will result.

! WARNING - V-belt Hazard

NEVER attempt to check the V-belt with the engine running. Severe injury can occur if your hand (Figure 7) gets caught between the V-belt and the clutch. Always use safety gloves.

! CAUTION - Vibration Check

Whenever the compactor's vibration becomes weak or lost during normal operation regardless of operation hours, check the V-belt and clutch immediately.

MVC-40G— PREPARATION FOR LONG -TERM STORAGE

Compactor Storage

For storage of the compactor for over 30 days, the following is required:

- Drain the fuel tank completely, or add STA-BIL to the fuel.
- Run the engine until the fuel in the fuel in the carburetor is completely consumed.
- Completely drain the oil from the engine crankcase and follow procedures described in the **ROBIN** engine Owner's Manual for engine storage.
- Completely drain the compactor's oil from the vibrating case.
- Clean entire plate compactor, especially the bottom plate removing all dirt and foreign matter.
- Cover plate compactor and engine with plastic covering or equivalent and store in a clean, dry place.

MVC-40G — TROUBLESHOOTING (ENGINE)

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, please take a remedial action following the diagnosis based on the Engine Troubleshooting (Table 8) information shown below and on the proceeding page. If the problem cannot be remedied, please leave the unit just as it is and consult our company's business office or service plant.

TABLE 8. ENGINE TROUBLESHOOTING

| SYMPTOM | POSSIBLE CAUSE | SOLUTION |
|---|---|--|
| Difficult to start, "fuel is available, but no SPARK at spark plug". | Spark plug bridging? | Check gap, insulation or replace spark plug. |
| | Carbon deposit on spark plug? | Clean or replace spark plug. |
| | Short circuit due to deficient spark plug insulation? | Check spark plug insulation, replace if worn. |
| | Improper spark plug gap? | Set to proper gap. |
| Difficult to start, "fuel is available, and SPARK is present at the spark plug". | ON/OFF switch is shorted? | Check switch wiring, replace switch. |
| | Ignition coil defective? | Replace ignition coil. |
| | Improper spark gap, points dirty? | Set correct spark gap and clean points. |
| | Condenser insulation worn or short circuiting? | Replace condenser. |
| | Spark plug wire broken or short circuiting? | Replace defective spark plug wiring. |
| Difficult to start, "fuel is available, spark is present and compression is normal" | Wrong fuel type? | Flush fuel system, and replace with correct type of fuel. |
| | Water or dust in fuel system? | Flush fuel system. |
| | Air cleaner dirty? | Clean or replace air cleaner. |
| Difficult to start, "fuel is available, spark is present and compression is low" | Suction/exhaust valve stuck or protruded? | Re-seat valves. |
| | Piston ring and/or cylinder worn? | Replace piston rings and or piston. |
| | Cylinder head and/or spark plug not tightened properly? | Torque cylinder head bolts and spark plug. |
| | Head gasket and/or spark plug gasket damaged? | Replace head and spark plug gaskets. |
| No fuel present at carburetor. | Fuel not available in fuel tank? | Fill with correct type of fuel. |
| | Fuel cock does not open properly? | Apply lubricant to loosen fuel cock lever, replace if necessary. |
| | Fuel filter clogged? | Replace fuel filter. |
| | Fuel tank cap breather hole clogged? | Clean or replace fuel tank cap. |
| | Air in fuel line? | Bleed fuel line. |

TABLE 8. ENGINE TROUBLESHOOTING (CONTINUED)

| SYMPTOM | POSSIBLE CAUSE | SOLUTION |
|---|--|---|
| "Weak in power" compression is proper and does not misfire. | Air cleaner not clean? | Clean or replace air cleaner |
| | Improper level in carburetor? | Check float adjustment, re-build carburetor. |
| | Defective Spark plug? | Clean or replace spark plug. |
| | Defective Spark plug? | |
| "Weak in power" compression is proper but misfires. | Water in fuel system? | Flush fuel system, and replace with correct type of fuel. |
| | Dirty spark plug? | Clean or replace spark plug. |
| | Ignition coil defective? | Replace ignition coil. |
| Engine overheats. | Spark plug heat value improper? | Replace with correct type of spark plug. |
| | Correct type of fuel? | Replace with correct type of fuel |
| | Cooling fins dirty? | Clean cooling fins. |
| Rotational speed fluctuates. | Governor adjusted correctly? | Adjust governor. |
| | Governor spring defective? | Replace governor spring. |
| | Fuel flow restricted? | Check entire fuel system for leaks or clogs. |
| Recoil starter malfunction. | Recoil mechanism clogged with dust and dirt? | Clean recoil assembly with soap and water. |
| | Spiral spring loose? | Replace spiral spring. |

MVC-40G — TROUBLESHOOTING (PLATE COMPACTOR)

Practically all breakdowns can be prevented by proper handling and maintenance inspections, but in the event of a breakdown, please take a remedial action following the diagnosis based on the Compactor Troubleshooting (Table 9) information shown below and on the proceeding page. If the problem cannot be remedied, please leave the unit just as it is and consult our company's business office or service plant.

| TABLE 9. PLATE COMPACTOR TROUBLESHOOTING | | |
|--|----------------------------------|--|
| SYMPTOM | POSSIBLE CAUSE | SOLUTION |
| Travel speed too low, and vibration is weak. | Engine speed too low? | Set engine speed to correct RPM. |
| | Clutch slips? | Check or replace clutch. |
| | V-belt slips? | Adjust or replace V-belt. |
| | Excessive oil in vibrator? | Drain excess oil and fill to proper level. |
| | Malfunction in vibrator housing? | Check eccentric, gears and counter weights. |
| Does not travel forward. | V-belt slips? | Replace V-belt. |
| | Clutch slips? | Check clutch springs and shoes. |
| | Vibrator locked? | Check vibrator housing (eccentric, gears and counterweights) |

MVC-40G— EXPLANATION OF CODE IN REMARKS COLUMN

The following section explains the different symbols and remarks used in the Parts section of this manual. Use the help numbers found on the back page of the manual if there are any questions.

The contents and part numbers listed in the parts section are subject to change **without notice**. Multiquip does not guarantee the availability of the parts listed.

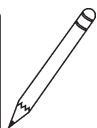
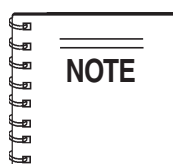
Sample Parts List:

| NO. | PART NO. | PART NAME | QTY. | REMARKS |
|-----|----------|----------------------|--------|---------------------|
| 1 | 12345 | BOLT | 1 | INCLUDES ITEMS W/* |
| 2* | | WASHER, 1/4 IN. | | NOT SOLD SEPARATELY |
| 2* | 12347 | WASHER, 3/8 IN. | 1 | MQ-45T ONLY |
| 3 | 12348 | HOSE | A/R .. | MAKE LOCALLY |
| 4 | 12349 | BEARING | 1 | S/N 2345B AND ABOVE |

NO. Column

Unique Symbols - All items with same unique symbol (*, #, +, %, or >) in the number column belong to the same assembly or kit, which is indicated by a note in the "Remarks" column.

Duplicate Item Numbers - Duplicate numbers indicate multiple part numbers are in effect for the same general item, such as different size saw blade guards in use or a part that has been updated on newer versions of the same machine.



When ordering a part that has more than one item number listed, check the remarks column for help in determining the proper part to order.

PART NO. Column

Numbers Used - Part numbers can be indicated by a number, a blank entry, or TBD.

TBD (To Be Determined) is generally used to show a part that has not been assigned a formal part number at time of publication.

A blank entry generally indicates that the item is not sold separately or is not sold by Multiquip. Other entries will be clarified in the "Remarks" Column.

QTY. Column

Numbers Used - Item quantity can be indicated by a number, a blank entry, or A/R.

A/R (As Required) is generally used for hoses or other parts that are sold in bulk and cut to length.

A blank entry generally indicates that the item is not sold separately. Other entries will be clarified in the "Remarks" Column.

REMARKS Column

Some of the most common notes found in the "Remarks" Column are listed below. Other additional notes needed to describe the item can also be shown.

Assembly/Kit - All items on the parts list with the same unique symbol will be included when this item is purchased.

Indicated by:

"INCLUDES ITEMS W/(unique symbol)"

Serial Number Break - Used to list an effective serial number range where a particular part is used.

Indicated by:

"S/N XXXXX AND BELOW"

"S/N XXXX AND ABOVE"

"S/N XXXX TO S/N XXX"

Specific Model Number Use - Indicates that the part is used only with the specific model number or model number variant listed. It can also be used to show a part is NOT used on a specific model or model number variant.

Indicated by:

"XXXXX ONLY"

"NOT USED ON XXXX"

"Make/Obtain Locally" - Indicates that the part can be purchased at any hardware shop or made out of available items. Examples include battery cables, shims, and certain washers and nuts.

"Not Sold Separately" - Indicates that an item cannot be purchased as a separate item and is either part of an assembly/kit that can be purchased, or is not available for sale through Multiquip.

MVC-40G— SUGGESTED SPARE PARTS

MQ MIKASA MVC-40G PLATE COMPACTOR WITH
ROBIN EH09-2D GASOLINE ENGINE

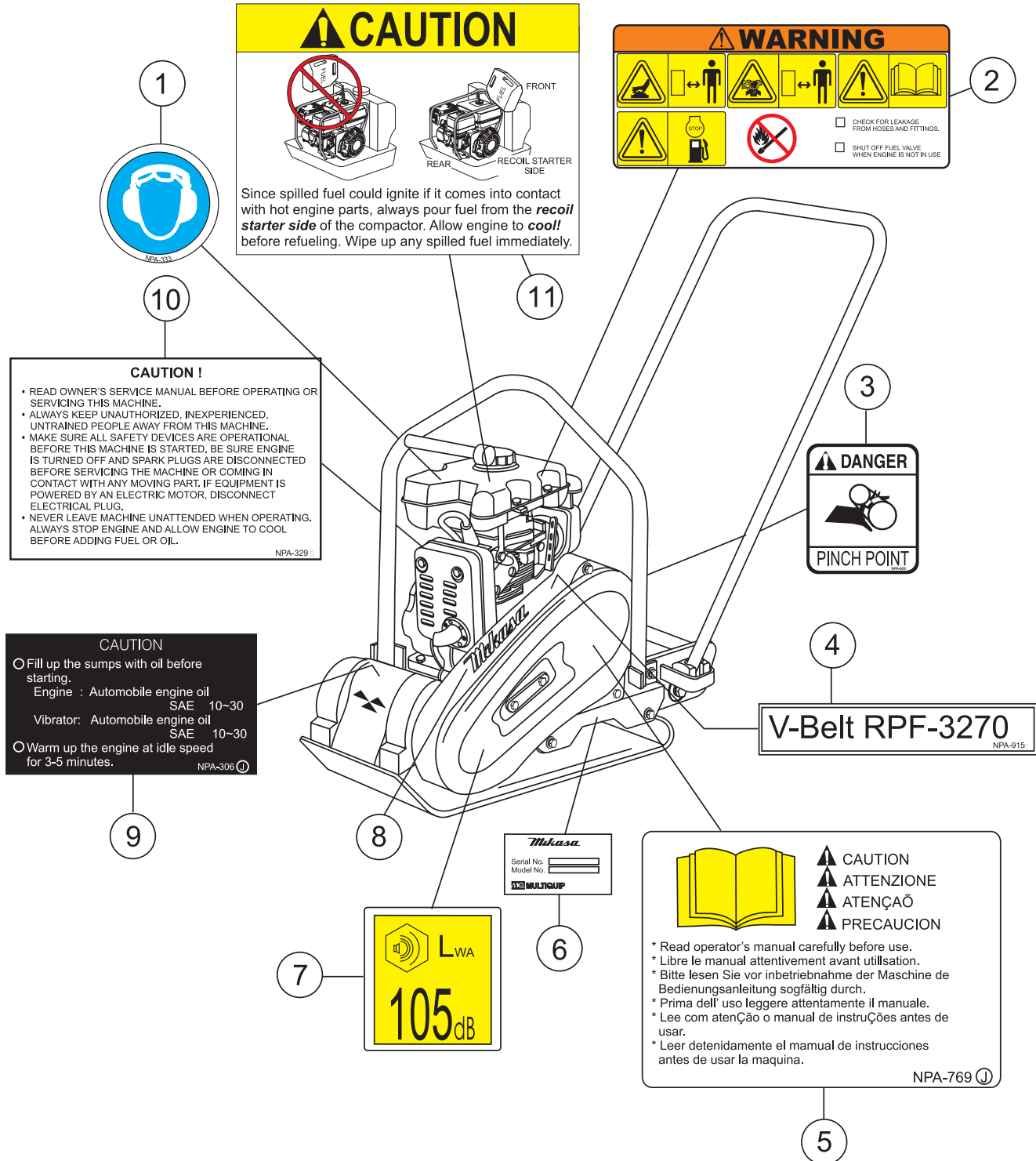
1 to 3 Units

| <u>Qty.</u> | <u>P/N</u> | <u>Description</u> |
|-------------|------------------|------------------------------|
| 3 | 070100272 | V-BELT, A-27 BLUE |
| 4 | 939010160 | SHOCK ABSORBER |
| 6 | 2263261007 | ELEMENT SET, AIR CLEANER |
| 3 | 0650140380 | SPARK PLUG |
| 1 | 2745011208 | ROPE STARTER |
| 1 | 0430440132 | FUEL TANK CAP, ASSY. |
| 1 | 0641420040 | FUEL FILTER, TANK |
| 3 | 0642004420 | FILTER, V-STD, FUEL STRAINER |

MVC-40G— NAME PLATE AND DECALS

Machine Safety Decals

The MVC-40G Plate Compactor is equipped with a number of safety decals. These decals are provided for operator safety and maintenance information. The illustration below shows these decals as they appear on the machine. Should any of these decals become unreadable, replacements can be obtained from your dealer.



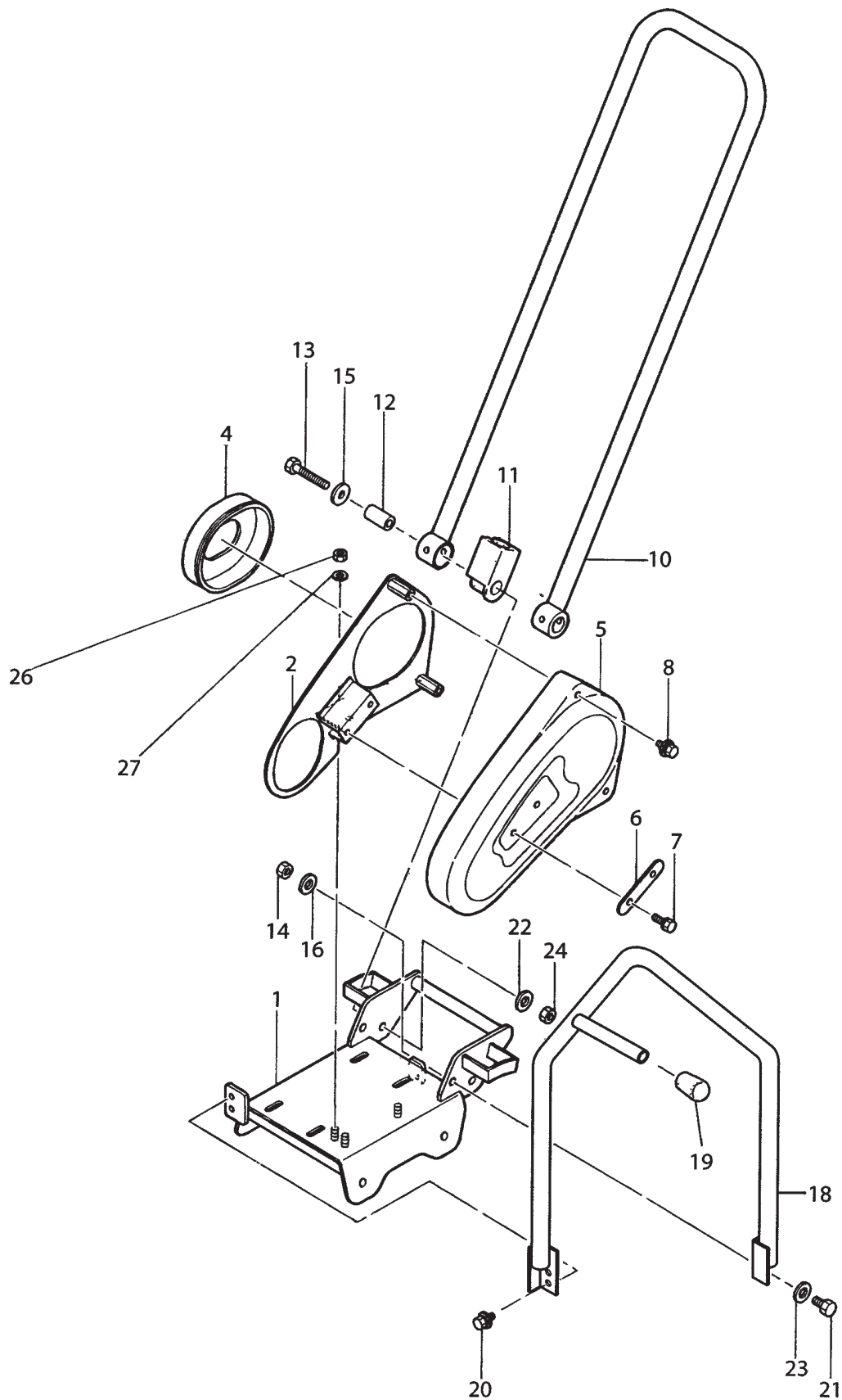
MVC-40G— NAMEPLATE AND DECALS

NAMEPLATE AND DECALS

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|-------------------|------------------------|---|--------------------|------------------------|
| 1 | 920203330 | DECAL; EAR PROTECTION LABEL | 1 | NPA-333 |
| 2 | 0732005181 | DECAL; WARNING, HOT SURF., FUMES, GAS, READ . | 1 | |
| 3 | 920206280 | DECAL; DANGER | 1 | NPA-628 |
| 4 | 920209150 | DECAL; V-BELT/ RPF-3270 | 1 | NPA-915 |
| 5 | 920207690 | DECAL; CAUTION, READ MANUAL | 1 | NPA-769 |
| 6 | | NAMEPLATE | 1 | CONTACT MQ PARTS DEPT. |
| 7 | 920210330 | DECAL; EC NOISE REQ. LWA105 | 1 | NPA-1033 |
| 8 | 920109530 | DECAL; MIKASA, 125MM YELLOW | 1 | NP-953 |
| 9 | 920203060 | DECAL; CAUTION | 1 | NPA-929 |
| 10 | 920203290 | DECAL; CAUTION | 1 | NPA-329 |
| 11 | 920212320 | DECAL: CAUTION REFUELING | 1 | NPA-1232 |

MVC-40G— BASE AND HANDLE ASSY.

BASE AND HANDLE ASSY.



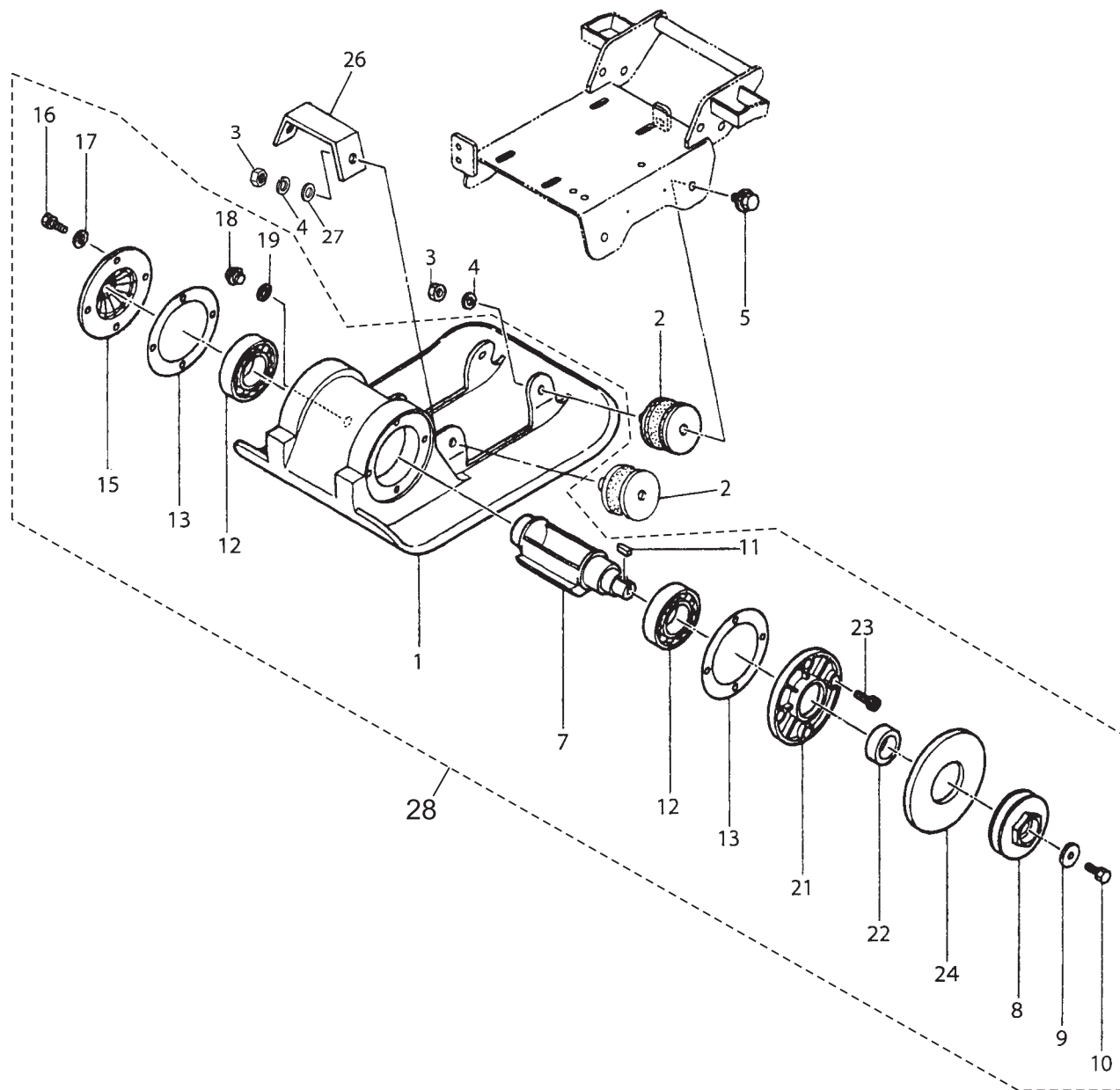
MVC-40G— BASE AND HANDLE ASSY.

BASE AND HANDLE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|------------------------|-------------|----------------|
| 1 | 417116270 | BASE | 1 | |
| 2 | 417116820 | BELT COVER, IN | 1 | |
| 4 | 417339980 | COVER SEAL, E/G | 1 | |
| 5 | 417116290 | BELT COVER, OUT | 1 | |
| 6 | 417454400 | PLATE, BELT COVER | 1 | |
| 7 | 002210820 | BOLT, 8X20 H, SW | 2 | |
| 8 | 002410815 | BOLT, 8X15 H, SW, PW | 2 | |
| 10 | 417118330 | HANDLE | 1 | |
| 11 | 417454410 | HANDLE STOPPER | 2 | |
| 12 | 417454420 | COLLAR, 10.5-20-37.5L | 2 | |
| 13 | 001221052 | BOLT, 10X60 T | 2 | |
| 14 | 020310080 | NUT, M10 | 1 | |
| 15 | 952401660 | WASHER, 103045 | 2 | |
| 16 | 030210250 | WASHER, LOCK M10 | 1 | |
| 18 | 417215510 | HOOK | 1 | |
| 19 | 953406430 | RUBBER CAP, 16D KP-622 | 1 | |
| 20 | 002410820 | BOLT, 8X20 H, SW, PW | 2 | |
| 21 | 001211025 | BOLT, 10X25 H | 1 | |
| 22 | 030210250 | WASHER, LOCK M10 | 2 | |
| 23 | 031110160 | WASHER, FLAT M10 | 1 | |
| 24 | 020310080 | NUT, M10 | 2 | |
| 26 | 020308060 | NUT, M8 | 3 | |
| 27 | 030208200 | WASHER, LOCK M8 | 3 | |

MVC-40G—VIBRATING PLATE AND VIBRATOR ASSY.

VIBRATING PLATE AND VIBRATOR ASSY.

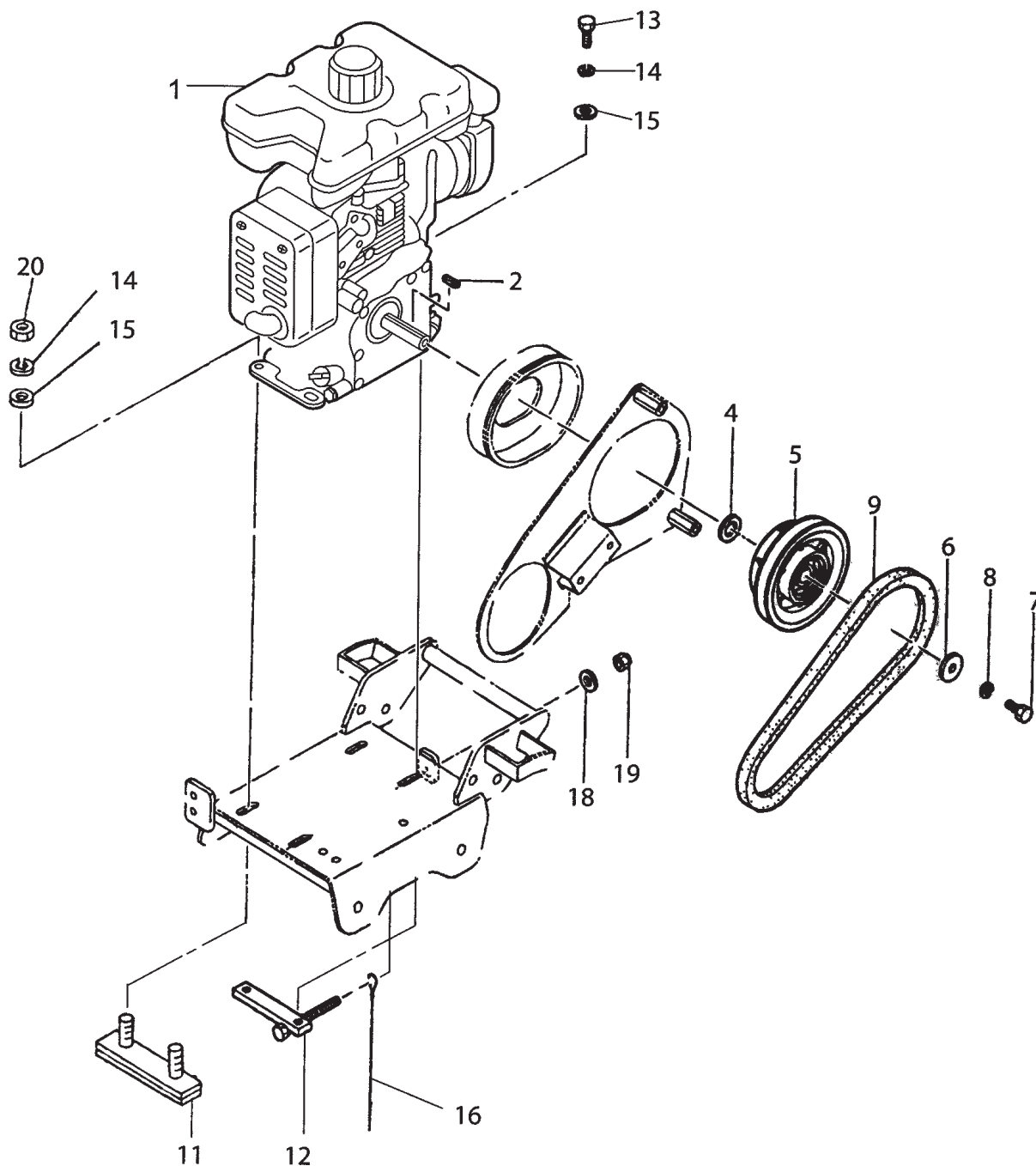


MVC-40G—VIBRATING PLATE AND VIBRATOR ASSY.

VIBRATING PLATE AND VIBRATOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|----------------------------|-------------|--------------------|
| 1# | 417116663 | VIBRATING PLATE | 1 | |
| 2 | 939010160 | SHOCK ABSORBER TAK-50 | 4 | |
| 3 | 020310080 | NUT, M10 | 4 | |
| 4 | 030210250 | WASHER, LOCK M10 | 4 | |
| 5 | 002411025 | BOLT, 10X25 H, SW, PW | 4 | |
| 7# | 417215500 | ECCENTRIC ROTATOR | 1 | |
| 8# | 417339920 | PULLEY, A1-82-S22 | 1 | |
| 9# | 952400130 | WASHER, FLAT | | |
| 10# | 002210825 | BOLT, 8X25 H, SW | 1 | |
| 11# | 951405240 | KEY, 7X7X19 R | 1 | |
| 12# | 040406208 | BEARING, 6208C4 | 2 | |
| 13# | 417454390 | PACKING, VIB | 2 | |
| 15# | 417339890 | CASE COVER, R | 1 | |
| 16# | 002210820 | BOLT, 8X20 H, SW | 4 | |
| 17# | 031108160 | WASHER, FLAT M8 | 4 | |
| 18# | 953400270 | PLUG, 1/4X14 10L | 1 | |
| 19# | 953405260 | PACKING, 1/4 CU | 1 | |
| 21# | 417339900 | CASE COVER, L | 1 | |
| 22# | 060403020 | OIL SEAL, TC-30458 | 1 | |
| 23# | 001520820 | SOCKET HEAD BOLT, 8X20 T | 4 | |
| 24# | 417339910 | COVER SEAL, VIB. | 1 | |
| 26 | 417342700 | SUPPORT OF STOPPER | 1 | |
| 27 | 031110160 | WASHER, FLAT M10 | 2 | |
| 28 | 417910010 | VIBRATING PLATE ASSY | 1 | INCLUDES ITEMS W/# |

ENGINE ASSY.

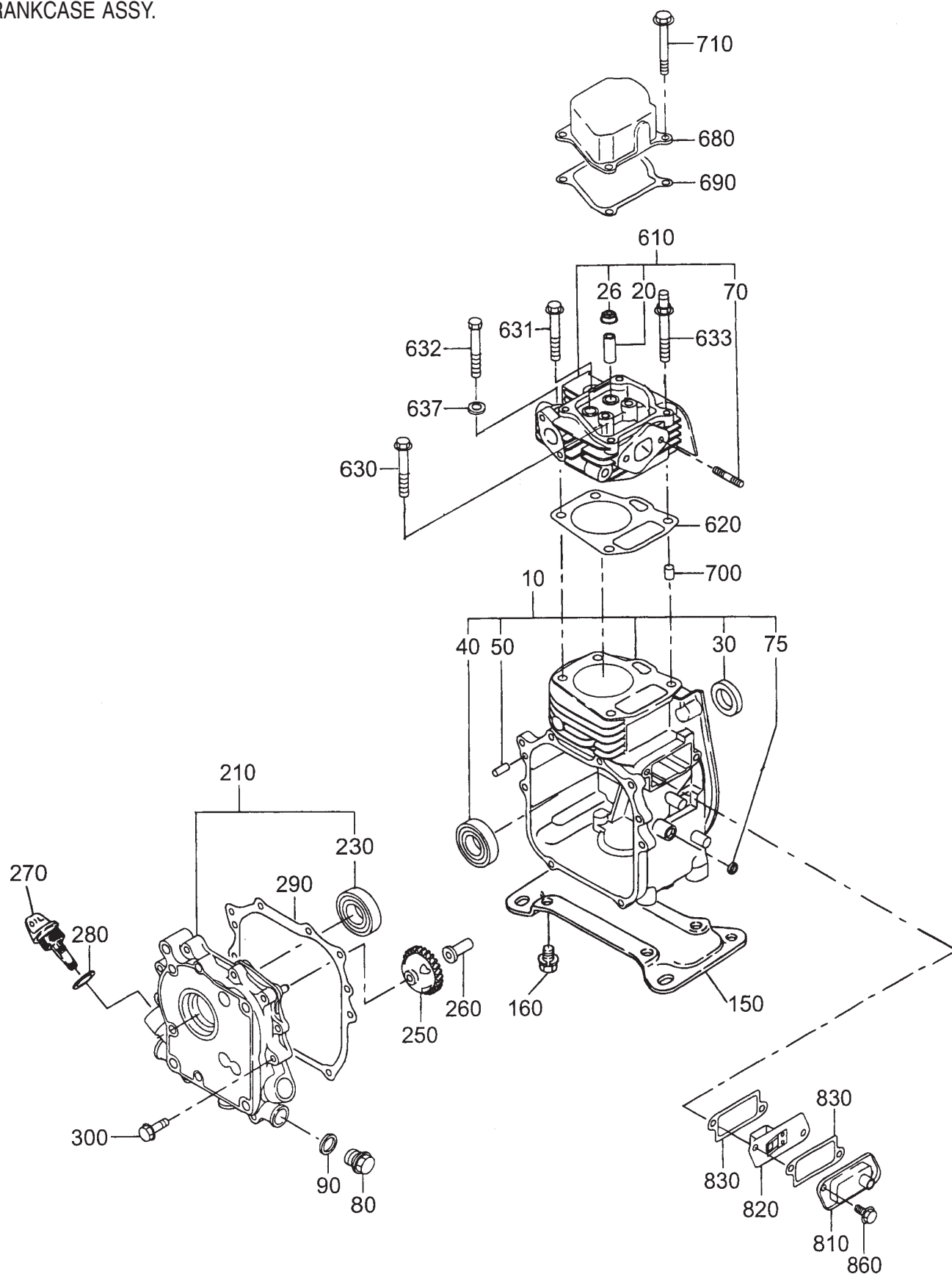


ENGINE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|-------------------|------------------------|----------------------------|--------------------|-----------------------|
| 1 | 911210907 | ENGINE ASSY., EH09-2D | 1 | |
| 2 | 951401740 | KEY, 5X5X20 | 1 | |
| 4 | 952404610 | COLLAR, 17X30X3 | 1 | |
| 5 | 417456390 | CLUTCH ASSY. D-17 | 1 | |
| 6 | 952400130 | WASHER, FLAT | 1 | |
| 7 | 001220820 | BOLT, 8X20 T | 1 | |
| 8 | 030208200 | WASHER, LOCK M8 | 1 | |
| 9 | 070100272 | V-BELT, A-27 BLUE/RPF-3270 | 1 | |
| 11 | 417456380 | PLATE, BOLT W/RUBBER | 1 | |
| 12 | 413436870 | ENGINE NUT | 1 | |
| 13 | 001220825 | BOLT, 8X25 T | 4 | |
| 14 | 030208200 | WASHER, LOCK M8 | 4 | |
| 15 | 031108160 | WASHER, FLAT M8 | 4 | |
| 16 | 959404350 | EARTH WIRE | 1 | |
| 18 | 031108160 | WASHER, FLAT M8 | 1 | |
| 19 | 022710809 | NYLON, NUT M8 | 1 | |
| 20 | 020308060 | NUT, M8 | 2 | |

ROBIN EH09-2D — CRANKCASE ASSY.

CRANKCASE ASSY.



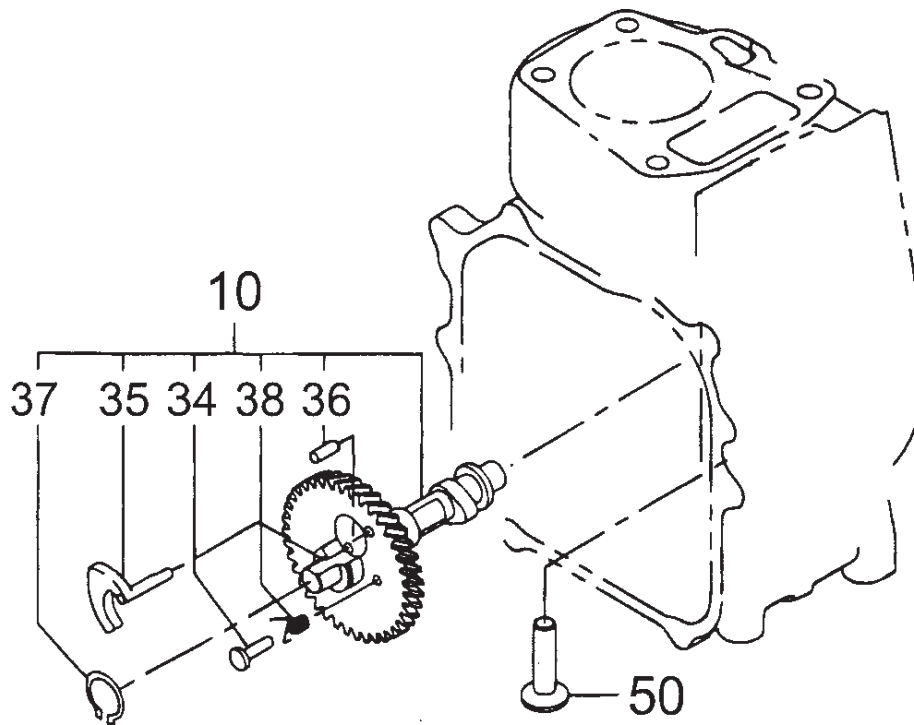
ROBIN EH09-2D — CRANKCASE ASSY.

CRANKCASE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|-------------------------------|-------------|---------------------|
| 10 | 2841010101 | CRANKCASE ASSY. | 1 | INCLUDES ITEMS W/% |
| 20 # | 2371420203 | VALVE GUIDE O/S | 2 | |
| 26 # | 2771601001 | STEM SEAL | 1 | |
| 30% | 0440200070 | OIL SEAL TB20326 | 1 | |
| 40% | 0600200110 | BALL BEARING 6004C3 | 1 | |
| 50% | 0310060020 | DOWEL PIN | 2 | |
| 70 # | 0105060430 | STUD | 2 | |
| 75% | 0440060020 | OIL SEAL | 1 | |
| 80 | 0401140030 | PLUG | 2 | |
| 90 | 0211140020 | GASKET | 2 | |
| 150 | 2841340101 | BASE | 1 | |
| 160 | 0011308180 | BOLT AND WASHER ASSY. | 4 | |
| 210 | 2841100121 | MAIN BEARING COVER ASSY. | 1 | INCLUDES ITEMS W/* |
| 230* | 0600200110 | BALL BEARING 6004C3 | 1 | |
| 250 | 2844500301 | GOVERNOR GEAR | 1 | |
| 260 | 2054190103 | GOVERNOR SLEEVE | 1 | |
| 270 | 2306360101 | DIPSTICK | 1 | |
| 280 | TBD | O-RING | 1 | |
| 290* | 2841600303 | GASKET, BEARING COVER | 1 | |
| 300 | 0110060101 | FLANGE BOLT | 8 | |
| 610 | 2841300110 | CYLINDER HEAD ASSY. | 1 | INCLUDES ITEMS W/ # |
| 620 | 2841500113 | GASKET, HEAD | 1 | |
| 630 | 0110080210 | FLANGE BOLT | 1 | |
| 631 | 0100080410 | BOLT | 1 | |
| 632 | 0100080420 | BOLT | 1 | |
| 633 | 0110080301 | FLANGE BOLT | 1 | |
| 637 | 0200080210 | WASHER, FLAT | 1 | |
| 680 | 2841550103 | ROCKET COVER | 1 | |
| 690 | 2841600703 | GASKET, ROCKET COVER | 1 | |
| 700 | 2771501103 | PIPE KNOCK | 2 | |
| 710 | 0100060400 | BOLT | 4 | |
| 810 | 2841430101 | BREATHER COVER | 1 | |
| 820 | 2841440101 | BREATHER PLATE | 1 | |
| 830 | 2301600613 | GASKET TAPPET COVER | 2 | |
| 860 | 0110060020 | FLANGE BOLT | 2 | |

ROBIN EH09-2D — CAMSHAFT ASSY.

CAMSHAFT ASSY.



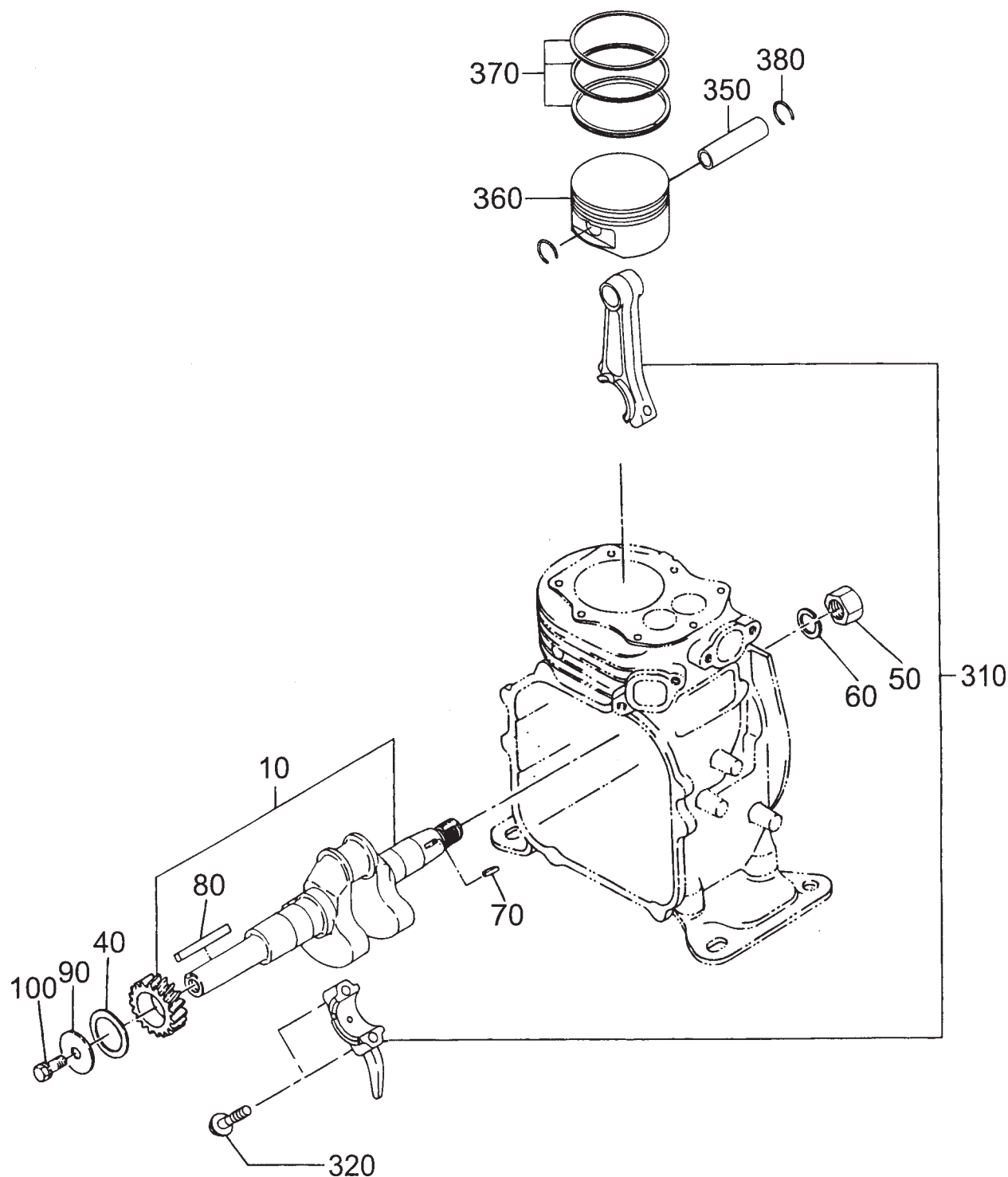
ROBIN EH09-2D — CAMSHAFT ASSY.

CAMSHAFT ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------|-------------|--------------------|
| 10 | 2843170211 | CAMSHAFT ASSY. | 1 | INCLUDES ITEMS W/* |
| 34* | 2273860123 | PIN, SPRING | 1 | |
| 35* | 2843640103 | RELEASE LEVER | 1 | |
| 36* | 0051904100 | SPRING PIN | 1 | |
| 37* | 0031517000 | SNAP RING | 1 | |
| 38* | 2743870123 | RETURN SPRING | 1 | |
| 50 | 2743330103 | TAPPET | 1 | |

ROBIN EH09-2D — CRANKSHAFT AND PISTON ASSY.

CRANKSHAFT AND PISTON ASSY.



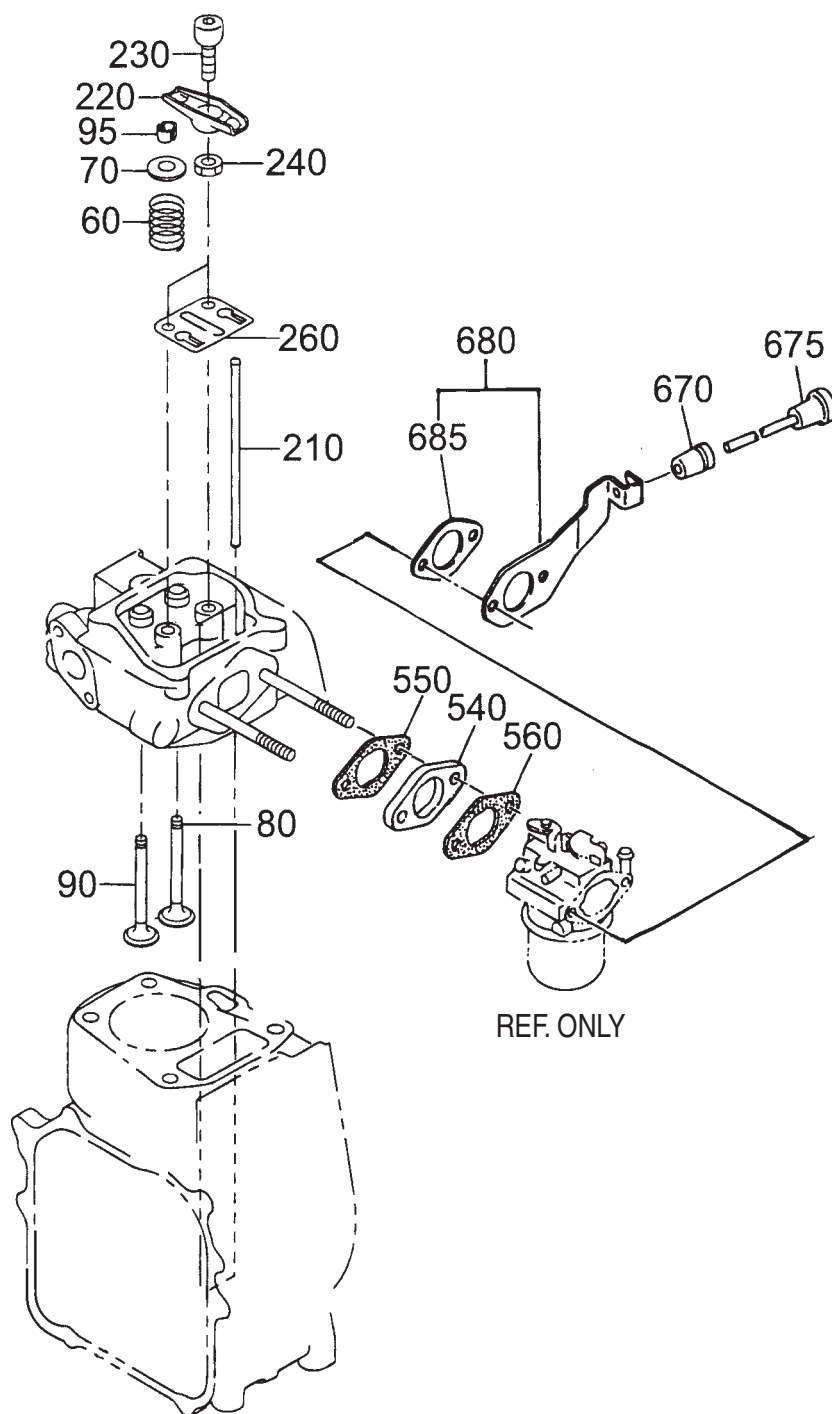
ROBIN EH09-2D — CRANKSHAFT AND PISTON ASSY.

CRANKSHAFT AND PISTON ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|-------------------|------------------------|---------------------------|--------------------|-----------------------|
| 10 | 2842070111 | CRANKSHAFT CP | 1 | INCLUDES ITEMS W/* |
| 40 | 0230200100 | SPACER 0.8T | 1 | |
| 40 | 0230200110 | SPACER 1.0T | 1 | |
| 40 | 0230200120 | SPACER 1.2T | 1 | |
| 50# | 0021814000 | NUT | 1 | |
| 60# | 0032014000 | SPRING WASHER | 1 | |
| 70# | 0053203101 | WOODRUFF KEY | 1 | |
| 80* | 0320050010 | KEY | 1 | |
| 90 | 0200080050 | WASHER | 1 | |
| 100 | 0011308160 | BOLT AND WASHER ASSY. | 1 | |
| 310 | 2842250120 | CONNECTING ROD ASSY. | 1 | INCLUDES ITEMS W/# |
| 320 | 2842300103 | CONNECTING ROD BOLT | 2 | |
| 350 | 2302330103 | PISTON PIN | 1 | |
| 360 | 2742340103 | PISTON STD. | 1 | |
| 360 | 2742340203 | PISTON 25 MM. O.S. | 1 | |
| 360 | 2742340303 | PISTON 50 MM. O.S. | 1 | |
| 370 | 2842352107 | PISTON RING SET, STD. | 1 | |
| 370 | 2842352207 | PISTON RING SET, 25 MM. | 1 | |
| 370 | 2842352307 | PISTON RING SET, 50 MM. | 1 | |
| 380 | 0565110010 | CLIP | 2 | |

ROBIN EH09-2D — INTAKE EXHAUST ASSY.

INTAKE EXHAUST ASSY.



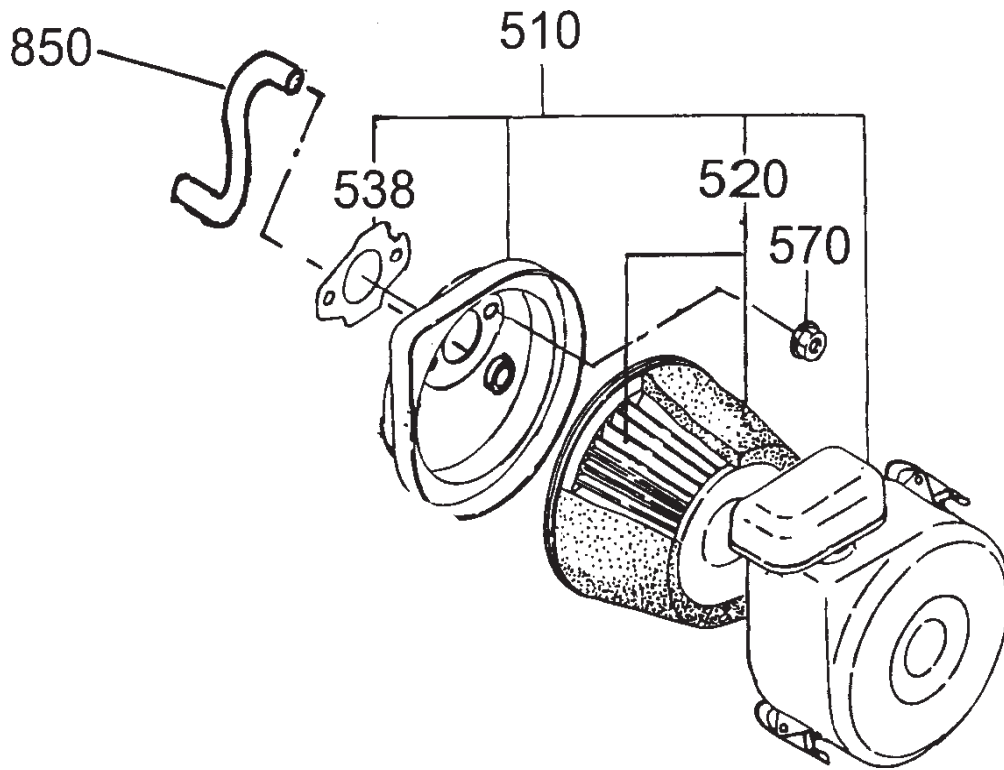
ROBIN EH09-2D — INTAKE EXHAUST ASSY.

INTAKE EXHAUST ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|-------------------|------------------------|-------------------------|--------------------|-----------------------|
| 60 | 2743360103 | VALVE SPRING | 2 | |
| 70 | 2743370203 | SPRING RETAINER | 2 | |
| 80 | 2743340103 | INTAKE VALVE | 1 | |
| 90 | 2743350103 | EXHAUST VALVE | 1 | |
| 95 | 13210KA031 | COLLET VALVE | 4 | |
| 210 | 2743530103 | PUSH ROD | 2 | |
| 220 | 2743600303 | ROCKER ARM | 2 | |
| 230 | 2693580103 | BOLT, PIVOT | 2 | |
| 240 | 0170060090 | NUT | 2 | |
| 260 | 2743650103 | GUIDE PLATE | 1 | |
| 540 | 1063291203 | INSULATOR | 1 | |
| 550 | 2843590203 | GASKET, INTAKE | 1 | |
| 560 | 1573500103 | GASKET, INSULATOR | 1 | |
| 670 | 0241020010 | GROMMET | 1 | |
| 675 | 2064390101 | KNOB | 1 | |
| 680 | 2844710101 | CHOKE BRACKET | 1 | |
| 685 | 2273590403 | GASKET, 2 IN. NEWPUSTD | 1 | |

ROBIN EH09-2D — AIR CLEANER ASSY.

AIR CLEANER ASSY.



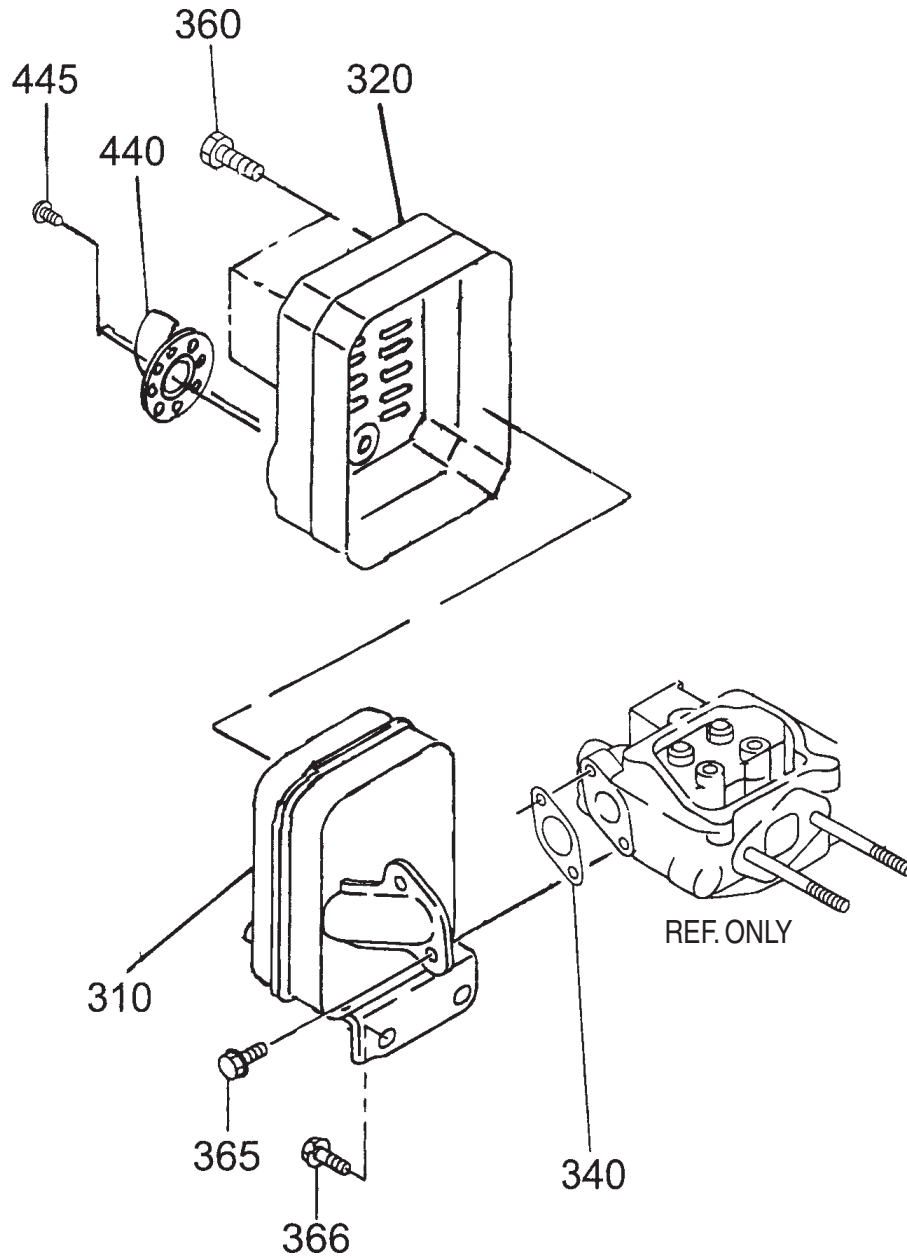
ROBIN EH09-2D — AIR CLEANER ASSY.

AIR CLEANER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|-------------------|------------------------|---------------------------|--------------------|-----------------------|
| 510 | 2843261000 | AIR CLEANER ASSY. | 1 | INCLUDES ITEMS W/* |
| 520* | 2263261007 | ELEMENT SET | 1 | |
| 538* | 2273590403 | GASKET, 2 IN. NEW PU STD. | 1 | |
| 570* | 2263921200 | NUT & WASHER ASSY. | 2 | |
| 850 | 2841610103 | RUBBER PIPE | 1 | |

ROBIN EH09-2D — MUFFLER ASSY.

MUFFLER ASSY.



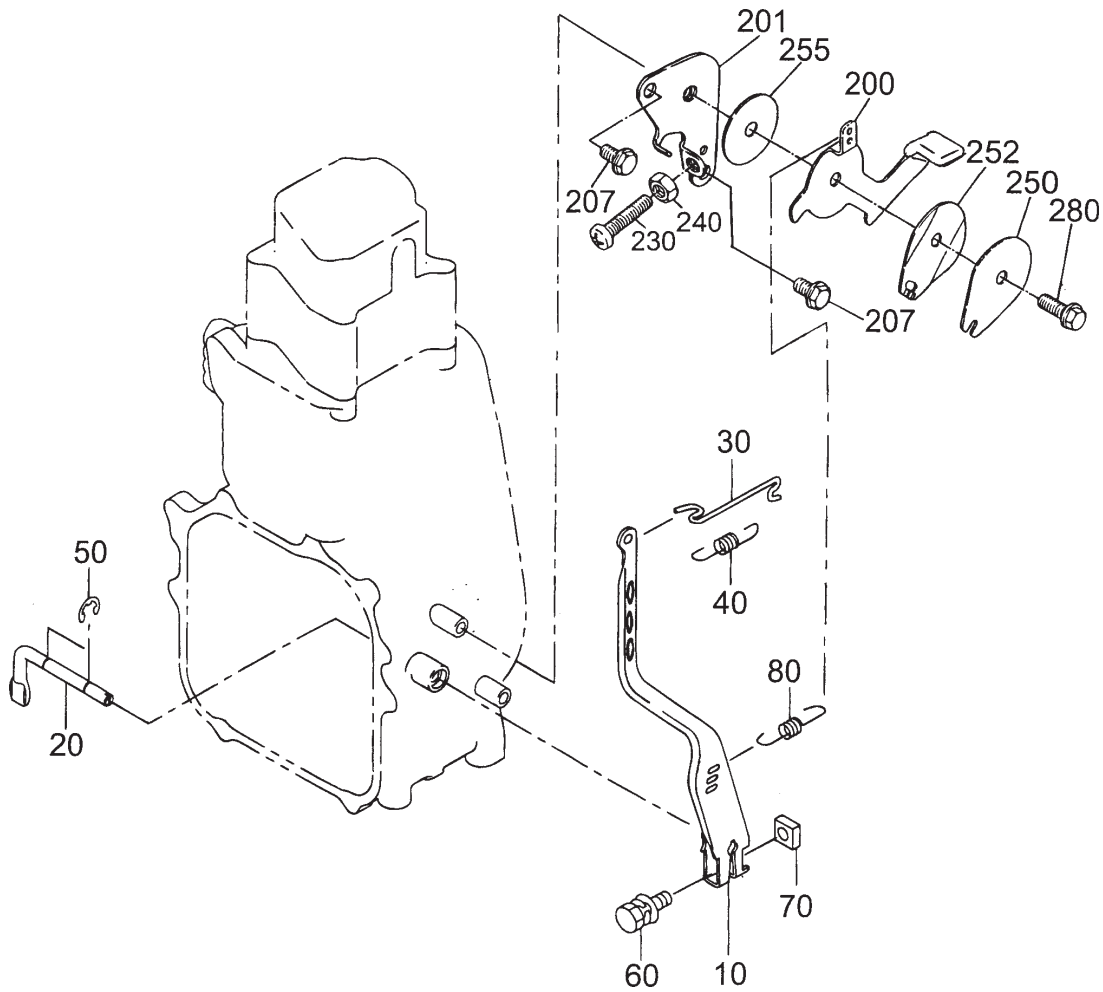
ROBIN EH09-2D — MUFFLER ASSY.

MUFFLER ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|-------------------|------------------------|-------------------------|--------------------|-----------------------|
| 310 | 2843010112 | MUFFLER | 1 | |
| 320 | 2843420101 | MUFFLER COVER | 1 | |
| 340 | 2843520103 | GASKET, EXHAUST | 1 | |
| 360 | 0152060090 | TAPPING BOLT | 3 | |
| 365 | 0011306160 | BOLT & WASHER ASSY | 2 | |
| 366 | 0011408160 | BOLT/WASHER 8X16 | 2 | |
| 440 | 2363700101 | DEFLECTOR | 1 | |
| 445 | 0150040050 | TAPPING SCREW | 2 | |

ROBIN EH09-2D — GOVERNOR ASSY.

GOVERNOR ASSY.



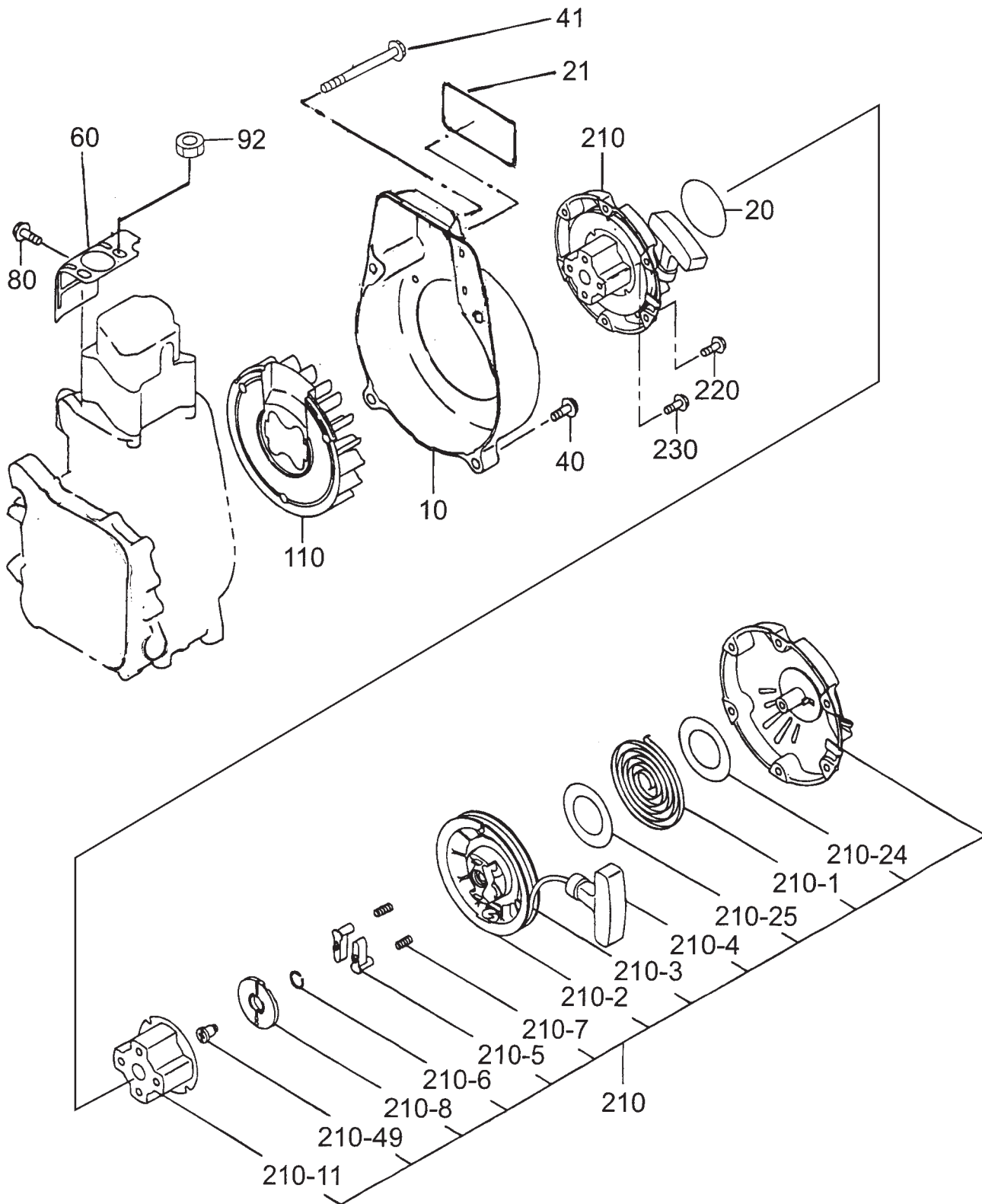
ROBIN EH09-2D — GOVERNOR ASSY.

GOVERNOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------|-------------|----------------|
| 10 | 2844230603 | GOVERNOR LEVER | 1 | |
| 20 | 2304220103 | GOVERNOR SHAFT | 1 | |
| 30 | 2344270101 | GOVERNOR ROD | 1 | |
| 40 | 2344280113 | ROD SPRING | 1 | |
| 50 | 0031305000 | CLIP | 2 | |
| 60 | 0011406250 | BOLT & WASHER ASSY. | 1 | |
| 70 | 0186060020 | NUT | 1 | |
| 80 | 2844250603 | GOVERNOR SPRING | 1 | |
| 200 | 2844330101 | SPEED CONTROL CP | 1 | |
| 201 | 2304500111 | BASE PLATE CP | 1 | |
| 207 | 0110060010 | FLANGE BOLT | 2 | |
| 230 | 0043106300 | SCREW | 1 | |
| 240 | 0022706000 | NUT | 1 | |
| 250 | 2274350113 | STOP PLATE STD. | 1 | |
| 252 | 2274500203 | SPRING WASHER | 1 | |
| 255 | 0217060030 | FRICTION WASHER | 1 | |
| 280 | 0110060030 | FLANGE BOLT | 1 | |

ROBIN EH09-2D — COOLING, AND STARTING ASSY.

COOLING STARTING ASSY.



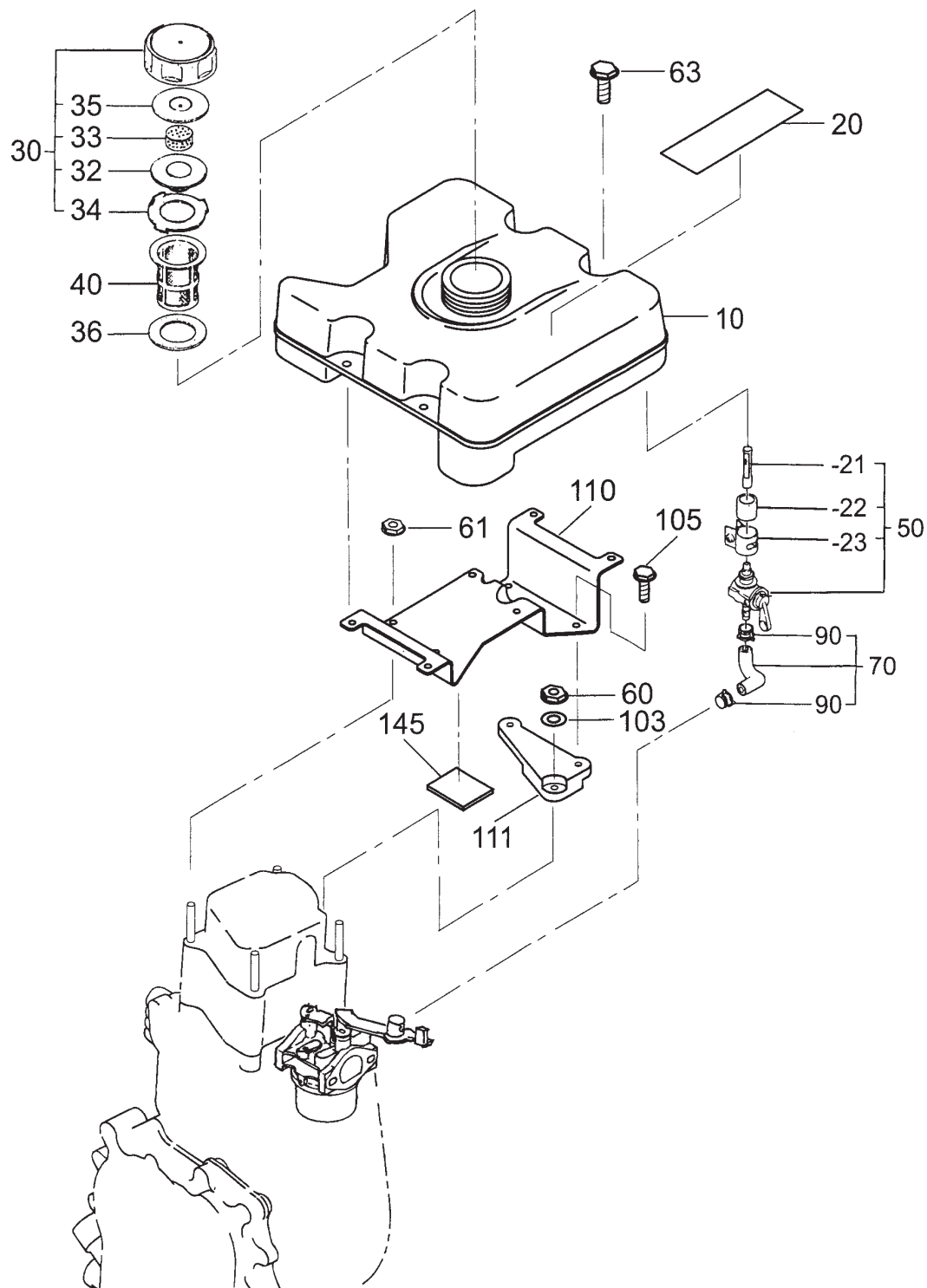
ROBIN EH09-2D — COOLING, STARTING ASSY.

COOLING STARTING ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------------|-------------|--------------------|
| 10 | 2845130101 | BLOWER HOUSING | 1 | |
| 20 | 2849510203 | LABEL, MODEL | 1 | |
| 21 | 0732005470 | LABEL, TM | 1 | |
| 40 | 0010408160 | FLANGE BOLT | 3 | |
| 41 | 0010408505 | FLANGE BOLT | 1 | |
| 60 | 2845260123 | CYLINDER BAFFLE | 1 | |
| 80 | 0110060010 | FLANGE BOLT | 1 | |
| 92 | 0023808000 | FLANGE NUT | 1 | |
| 110 | 2845410103 | COOLING BLOWER | 1 | |
| 210 | 2845021120 | RECOIL STARTER ASSY. | 1 | INCLUDES ITEMS W/* |
| 210-1* | 2745011508 | SPIRAL SPRING | 1 | |
| 210-2* | 2745012018 | REEL | 1 | |
| 210-3* | 2745011208 | STARTER ROPE | 1 | |
| 210-4* | 2615010008 | STARTER KNOB | 1 | |
| 210-5* | 2705012508 | RATCHET | 1 | |
| 210-6* | 2745013108 | FRICTION SPRING | 1 | |
| 210-7* | 2275013508 | RETURN SPRING | 1 | |
| 210-8* | 2705026108 | RATCHET GUIDE | 1 | |
| 210-11* | 2845014508 | STARTER PULLEY | 1 | |
| 210-24* | 2745015208 | SLIDE PLATE B | 1 | |
| 210-25* | 1315015008 | SLIDE PLATE | 1 | |
| 210-49* | 22745015208 | SET SCREW | 1 | |
| 220 | 0110060010 | FLANGE BOLT | 3 | |
| 230 | 0110060020 | FLANGE BOLT | 4 | |

ROBIN EH09-2D — FUEL TANK ASSY.

FUEL TANK ASSY.



ROBIN EH09-2D — FUEL TANK ASSY.

FUEL TANK ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|--------------------------|-------------|--------------------|
| 10 | 2846010102 | FUEL | 1 | |
| 20 | 0732005181 | LABEL, EXP. | 1 | |
| 30 | 0430440132 | FUEL TANK CAP ASSY. | 1 | INCLUDES ITEMS W/* |
| 32* | 0434180012 | INNER CAP | 1 | |
| 33* | 0841260020 | SPONGE | 1 | |
| 34* | 0210260050 | GASKET CAP | 1 | |
| 35* | 0232420012 | PARTITION PLATE | 1 | |
| 36 | 0213310020 | GASKET (FILTER) | 1 | |
| 40 | 0641420040 | FUEL FILTER | 1 | |
| 50 | 0642004402 | FUEL STRAINER ASSY. | 1 | INCLUDES ITEMS/W# |
| 50-21# | 0642004420 | FILTER, V-STD | 1 | |
| 50-22# | 0642004490 | JYJOINT PIPE, V-STD | 1 | |
| 50-23# | 0642004460 | HOSE BAND ASSY. V-STD. | 1 | |
| 60 | 0023808000 | FLANGE NUT | 1 | |
| 61 | 0023806000 | FLANGE NUT | 4 | |
| 63 | 0110060020 | FLANGE BOLT | 4 | |
| 70 | 2846260201 | FUEL PIPE ASSY. | 1 | INCLUDES ITEMS/W% |
| 90% | 0561080020 | HOSE CLAMP | 2 | |
| 103 | 0200080220 | WASHER | 1 | |
| 105 | 0110060570 | FLANGE BOLT | 2 | |
| 110 | 2846160102 | FUEL TANK BRACKET | 1 | |
| 111 | 2846160203 | BRACKET, 2 TANK | 1 | |
| 145 | 2846500103 | SPONGE, TANK BRACKET | 1 | |

CARBURETOR ASSY.



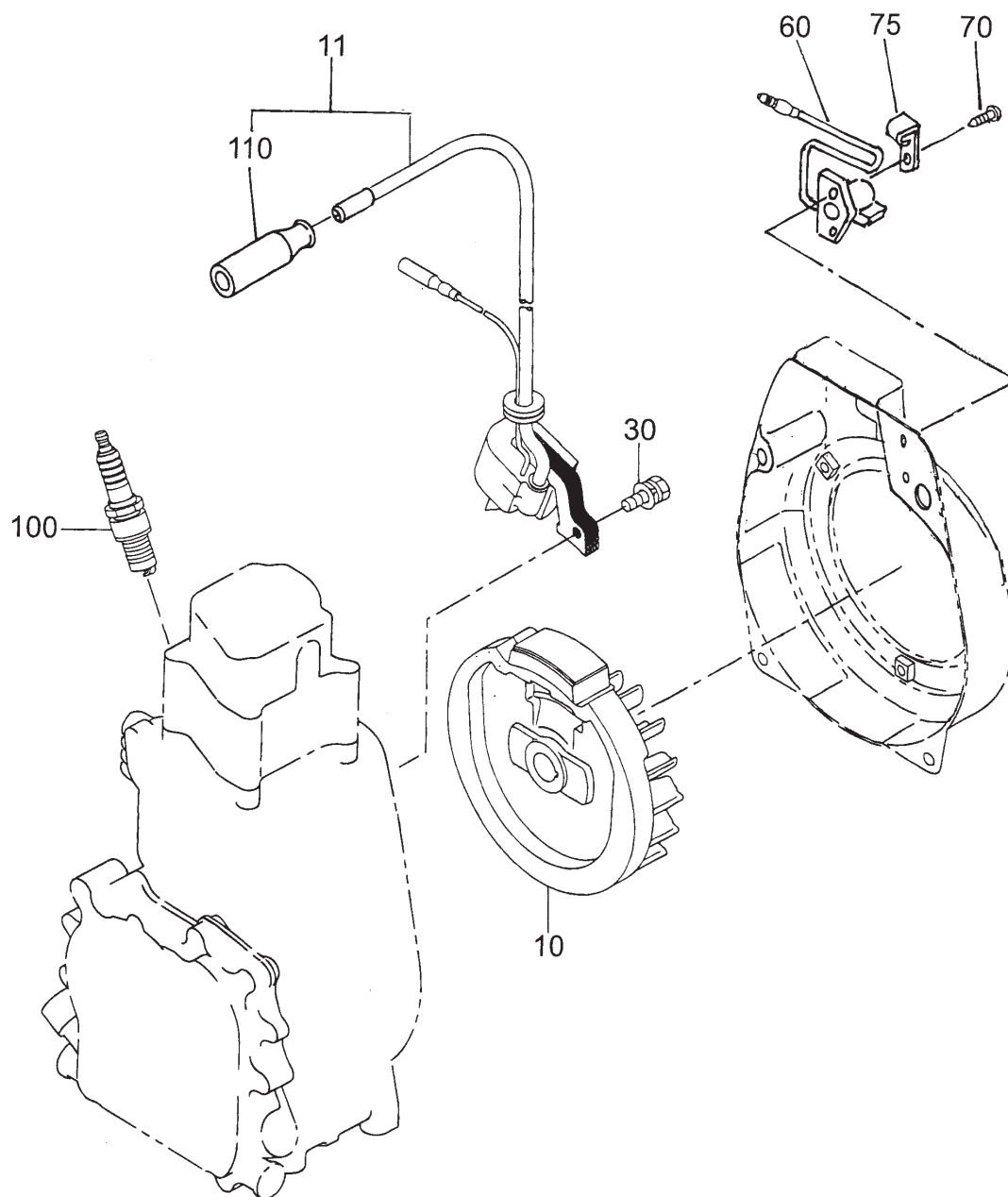
ROBIN EH09-2D — CARBURETOR ASSY.

CARBURETOR ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|-------------------|------------------------|-------------------------|--------------------|-----------------------|
| 210 | 2846232200 | CARBURETOR ASSY. | 1 | INCLUDES ITEMS W/* |
| 211* | 2846253508 | THROTTLE VALVE | 1 | |
| 212* | 2846245508 | CSREW | 2 | |
| 213* | 2846252708 | VALVE CHOKE | 1 | |
| 215* | 2846242008 | SLOW JET | 1 | |
| 218* | 2846252208 | LEVER ASSY. CHOKE | 1 | |
| 219* | 2796256318 | COLLAR SHAFT, 1 | 1 | |
| 221* | 2846253208 | SHAFT SUB. ASSY. TH. | 1 | |
| 222* | 2846235508 | SCREW | 1 | |
| 223* | 2796256408 | COLLAR SHAFT, 2 | 1 | |
| 224* | 2796250008 | VALVE NEEDLE ASSY. | 1 | |
| 225* | 2846251508 | PIN, FLOAT LEVER | 1 | |
| 226* | 2846255208 | CHAMBER ASSY. FLOAT | 1 | |
| 227* | 2516235008 | GASKET | 1 | |
| 228* | 2846254008 | GASKET CHAMBER | 1 | |
| 229* | 2846250508 | FLOAT ASSY. | 1 | |
| 232* | 2846240008 | MAIBN JET | 1 | |
| 233* | 2846245608 | SCREW | 1 | |
| 238* | 2516266108 | DRAIN SCREW | 1 | |
| 250* | 2776258108 | SCREW ADJUST | 1 | |
| 251* | 2516244908 | SPRING | 2 | |
| 312* | 2516255908 | BUSH | 1 | |
| 313* | 2846256008 | COLLAR | 1 | |
| 361* | 2846245008 | O-RING | 1 | |
| 362* | 2846245108 | O-RING | 1 | |
| 363* | 2846256308 | PLATE | 1 | |
| 364* | 2846245608 | SCREW | 1 | |

ROBIN EH09-2D — ELECTRIC DEVICE ASSY.

ELECTRIC DEVICE ASSY.

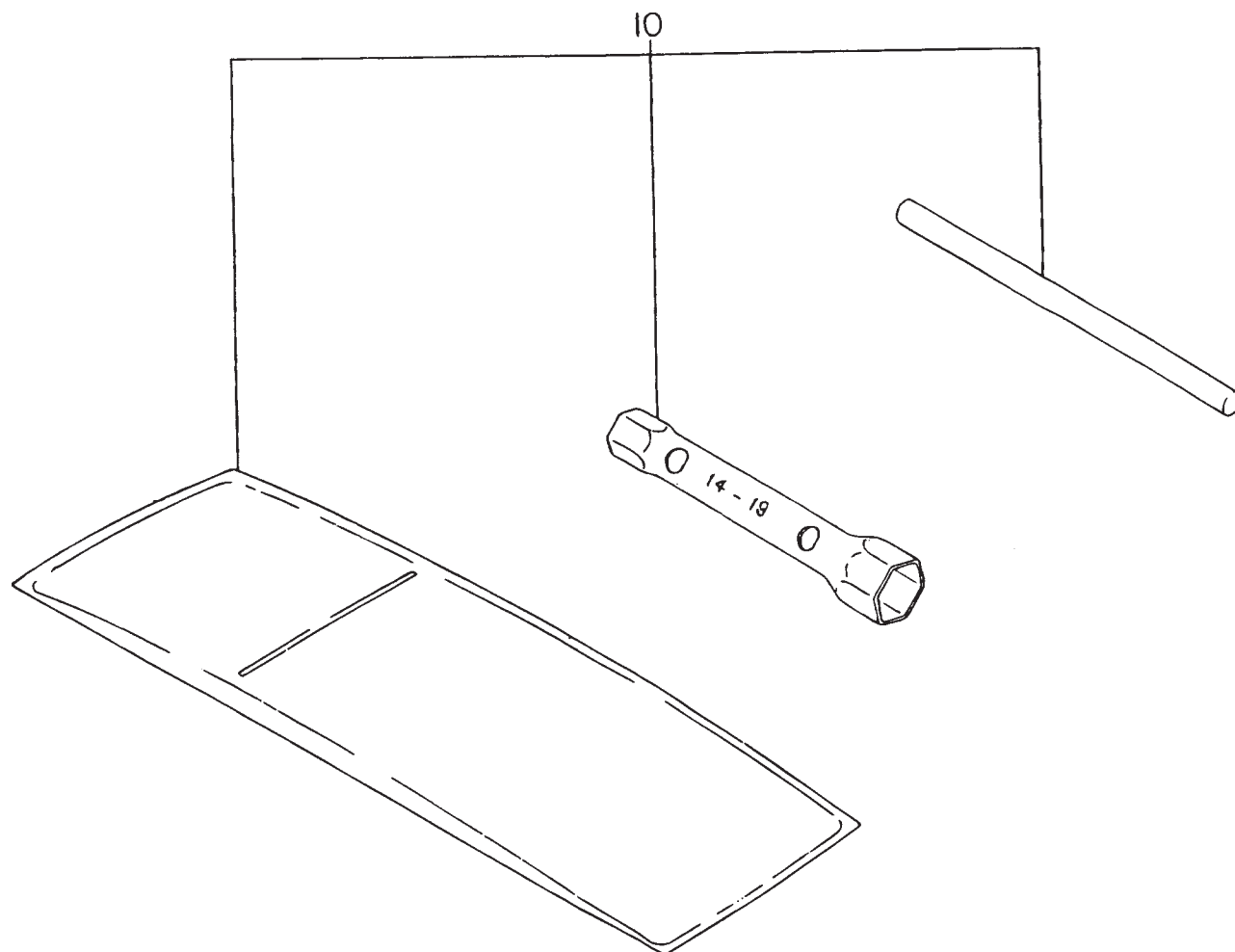


ROBIN EH09-2D — ELECTRIC DEVICE ASSY.

ELECTRIC DEVICE ASSY.

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|---------------------------|-------------|----------------|
| 10 | 2847934001 | FLY WHEEL CP | 1 | |
| 11 | 2847943021 | IGNITION COIL CP | 1 | |
| 30 | 0011706250 | BOLT & WASHER ASSY. | 2 | |
| 60 | 0660000371 | STOP SWITCH ASSY., ON-OFF | 1 | |
| 70 | 0150040090 | TAPPING SCREW | 2 | |
| 75 | 0566030010 | CLAMP | 1 | |
| 100 | 0650140380 | SPARK PLUG | 1 | |
| 110 | 2847510203 | SPARK PLUG CAP | 1 | |

ACCESSORY TOOL KIT



ROBIN EH09-2D — ACCESSORY TOOL KIT.

ACCESSORY TOOL KIT

| <u>NO.</u> | <u>PART NO.</u> | <u>PART NAME</u> | <u>QTY.</u> | <u>REMARKS</u> |
|------------|-----------------|--------------------|-------------|----------------|
| 10 | 2269030710 | ACCESSORY TOOL KIT | 1 | |

PAYMENT TERMS

Terms of payment for parts are net 30 days.

FREIGHT POLICY

All parts orders will be shipped collect or prepaid with the charges added to the invoice. All shipments are F.O.B. point of origin. Multiquip's responsibility ceases when a signed manifest has been obtained from the carrier, and any claim for shortage or damage must be settled between the consignee and the carrier.

MINIMUM ORDER

The minimum charge for orders from Multiquip is \$15.00 net. Customers will be asked for instructions regarding handling of orders not meeting this requirement.

RETURNED GOODS POLICY

Return shipments will be accepted and credit will be allowed, subject to the following provisions:

1. A Returned Material Authorization must be approved by Multiquip prior to shipment.
2. To obtain a Return Material Authorization, a list must be provided to Multiquip Parts Sales that defines item numbers, quantities, and descriptions of the items to be returned.
 - a. The parts numbers and descriptions must match the current parts price list.
 - b. The list must be typed or computer generated.
 - c. The list must state the reason(s) for the return.
 - d. The list must reference the sales order(s) or invoice(s) under which the items were originally purchased.
 - e. The list must include the name and phone number of the person requesting the RMA.
3. A copy of the Return Material Authorization must accompany the return shipment.
4. Freight is at the sender's expense. All parts must be returned freight prepaid to Multiquip's designated receiving point.

5. Parts must be in new and resalable condition, in the original Multiquip package (if any), and with Multiquip part numbers clearly marked.

6. The following items are not returnable:

- a. Obsolete parts. (If an item is in the price book and shows as being replaced by another item, it is obsolete.)
- b. Any parts with a limited shelf life (such as gaskets, seals, "O" rings, and other rubber parts) that were purchased more than six months prior to the return date.
- c. Any line item with an extended dealer net price of less than \$5.00.
- d. Special order items.
- e. Electrical components.
- f. Paint, chemicals, and lubricants.
- g. Decals and paper products.
- h. Items purchased in kits.

7. The sender will be notified of any material received that is not acceptable.

8. Such material will be held for five working days from notification, pending instructions. If a reply is not received within five days, the material will be returned to the sender at his expense.

9. Credit on returned parts will be issued at dealer net price at time of the original purchase, less a 15% restocking charge.

10. In cases where an item is accepted, for which the original purchase document can not be determined, the price will be based on the list price that was effective twelve months prior to the RMA date.

11. Credit issued will be applied to future purchases only.

PRICING AND REBATES

Prices are subject to change without prior notice. Price changes are effective on a specific date and all orders received on or after that date will be billed at the revised price. Rebates for price declines and added charges for price increases will not be made for stock on hand at the time of any price change.

Multiquip reserves the right to quote and sell direct to Government agencies, and to Original Equipment Manufacturer accounts who use our products as integral parts of their own products.

SPECIAL EXPEDITING SERVICE

A \$35.00 surcharge will be added to the invoice for special handling including bus shipments, insured parcel post or in cases where Multiquip must personally deliver the parts to the carrier.

LIMITATIONS OF SELLER'S LIABILITY

Multiquip shall not be liable hereunder for damages in excess of the purchase price of the item with respect to which damages are claimed, and in no event shall Multiquip be liable for loss of profit or good will or for any other special, consequential or incidental damages.

LIMITATION OF WARRANTIES

No warranties, express or implied, are made in connection with the sale of parts or trade accessories nor as to any engine not manufactured by Multiquip. Such warranties made in connection with the sale of new, complete units are made exclusively by a statement of warranty packaged with such units, and Multiquip neither assumes nor authorizes any person to assume for it any other obligation or liability whatever in connection with the sale of its products. Apart from such written statement of warranty, there are no warranties, express, implied or statutory, which extend beyond the description of the products on the face hereof.

[illegible]

OPERATION AND PARTS MANUAL

HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL
NUMBER *ON-HAND* WHEN CALLING

UNITED STATES

Multiquip Corporate Office

18910 Wilmington Ave. Tel. (800) 421-1244
Carson, CA 90746 Fax (800) 537-3927
Contact: mq@multiquip.com

Mayco Parts

800-306-2926 Fax: 800-672-7877
310-537-3700 Fax: 310-637-3284

Service Department

800-421-1244 Fax: 310-537-4259
310-537-3700

MQ Parts Department

800-427-1244 Fax: 800-672-7877
310-537-3700 Fax: 310-637-3284

Warranty Department

800-421-1244, Ext. 279 Fax: 310-537-1173
310-537-3700, Ext. 279

Technical Assistance

800-478-1244 Fax: 310-631-5032

MEXICO

MQ Cipsa

Carr. Fed. Mexico-Puebla KM 126.5 Tel: (52) 222-225-9900
Momoxpan, Cholula, Puebla 72760 Mexico Fax: (52) 222-285-0420
Contact: pmastretta@cipsa.com.mx

CANADA

Multiquip

4110 Industriel Boul. Tel: (450) 625-2244
Laval, Quebec, Canada H7L 6V3 Fax: (450) 625-8664
Contact: jmartin@multiquip.com

UNITED KINGDOM

Multiquip (UK) Limited Head Office

Hanover Mill, Fitzroy Street, Tel: 0161 339 2223
Ashton-under-Lyne, Fax: 0161 339 3226
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Contact: sales@multiquip.co.uk

BRAZIL

Multiquip

Av. Evandro Lins e Silva, 840 - grupo 505 Tel: 011-55-21-3433-9055
Barra de Tijuca - Rio de Janeiro Fax: 011-55-21-3433-9055
Contact: cnavarro@multiquip.com.br, srentes@multiquip.com.br

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This manual MUST accompany the equipment at all times. This manual is considered a permanent part of the equipment and should remain with the unit if resold.

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