The following instructions are intended to assist the user with the mounting of the Honda engine onto the trowel base.

**REQUIRED TOOLS**
- Ratchet/Socket Set
- Wire Cutters
- Pliers
- 1/8" Allen Wrench
- 1/2" Open End Wrench
- Phillips Head Screwdriver
- Blue Loctite™ #246

**PARTS**
Verify that all parts are accounted for. See Figure 1 and Table 1.

**WORK SAFELY!**
Only a **qualified service technician** with proper training should perform this installation. Follow all shop safety rules when performing this installation.

### Table 1. Engine Mounting Parts

<table>
<thead>
<tr>
<th>Item</th>
<th>Part No.</th>
<th>Description</th>
<th>Qty</th>
<th>Remarks</th>
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<tr>
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<td>Engine, Honda GX160UT20X2</td>
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<td>Deflector, Honda 5 HP Exhaust</td>
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<td>Screw, THP 1/4-20 x 3/4 SS</td>
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<td>21679</td>
<td>Spacer 1&quot; x .78 x .69 L</td>
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<td>End Plug, Clutch</td>
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<td>21678</td>
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<td>Connector, Splice Tap</td>
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<td>15173</td>
<td>Washer, Flat, #8</td>
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</table>

![Figure 1. Parts](image-url)
ENGINE INSTALLATION

Refer to Figure 2.

1. Place and align the four engine spacers P/N 21996 with the engine mounting holes located on the trowel base plate.

2. Next, lift the engine onto the trowel base plate and align the engine mounting holes with the spacers on the trowel base plate.

3. Locate the four 5/16-24 X 1-3/4" engine mounting HHC screws (P/N 22024) and apply Blue Loctite™ 246 (P/N 60097) to each screw.

4. Insert engine mounting screws (4) with a 5/16" washer (P/N 933241) through engine mounting holes and associated spacer.

5. Tighten each of the four engine mounting screws securely.

Figure 2. Engine Mounting

LIFTING BALE INSTALLATION

Refer to Figure 3.

1. Locate the four 5/16-24 X 1" lifting bale mounting HHC screws (P/N 10229) and apply Blue Loctite™ 246 (P/N 60097) to each screw.

2. Insert lifting bale mounting screw (4) with a 5/16" washer (P/N 933241) through any one of the lifting bale mounting holes.

3. Next, align any one of the holes on the lifting bale spacer (P/N 21915) with the HHC screw.

4. Repeat this procedure for the remaining 3 lifting bale mounting holes.

5. With all four screws in place carefully align lifting bale and spacer with lifting bale mounting holes on engine.

6. Hand tighten all four screws, then tighten all four screws securely.

Figure 3. Lifting Bale Installation
CLUTCH INSTALLATION
Refer to Figure 4.
1. Place clutch spacer (P/N 21679) onto engine shaft and slide it all the way back until it touches engine body.

2. Next, place clutch (P/N 0255) onto engine shaft and slide it all the way back until it comes in contact with spacer.
3. After clutch has been properly seated onto engine shaft, insert end plug into clutch.
4. Apply Blue Loctite™ 246 (P/N 60097) to the FHSC 5/16-24 X 1-3/4", clutch retaining screw (P/N 21678), then insert screw into engine drive shaft.
5. Tighten clutch retaining screw securely.

GEARBOX PULLEY INSTALLATION
Refer to Figure 5.
1. Insert 3/16 x 1-1/4" key into key way on gearbox drive shaft.
2. Next slide pulley onto gearbox driveshaft.
3. Using a rubber mallet tap the pulley into the approximate position.

Pulley Alignment
Refer to Figure 6.
1. Next, using a straight edge ruler align lower pulley with the clutch V-belt grooves. Ruler should be placed on the back side of the pulley.

2. Once the clutch and gearbox pulley have been properly aligned secure the gearbox pulley to gearbox shaft by applying Blue Loctite™ 246 to the two supplied set screws.
3. Insert both screws into the pulley hub and tighten each set screw securely.
V-Belt Installation
Refer to Figure 7.

1. Place the V-belt (P/N 0152 3) over the clutch and into the clutch pulley grooves.

2. Next, walk the V-belt over the gearbox pulley until the V-belt is fully seated.

V-Belt Guard Cover Installation
Refer to Figure 8.

1. Attach V-belt guard cover P/N 23866 to lifting bale P/N 21988 using three 1/4-20 X 3/4 screws P/N 12887. Use 5/16 " flat washer P/N 0300 B on left side of guard cover.

2. Tighten all 3 screws securely.

Exhaust Deflector Installation
Refer to Figure 9.

1. Attach exhaust deflector P/N 1834 to muffler using two 8/32 X 3/8 screws P/N 1273.

2. Tighten both screws securely.

Splice Tap Connector Installation
Refer to Figure 10.

1. Locate oil alert unit on engine, it is adjacent to the engine ON/OFF switch.

2. Open the splice tap connector body P/N 1475.
3. Notice the U-shape splice tap inside the connector body.

4. Next, locate the BLACK wire coming from the oil alert unit.

5. With the splice tap connector body open, place the BLACK wire from the oil alert unit into the U-shape splice tap. For best results push the wire down until it is fully seated into the connector body.

6. Close the splice tap connector body. To ensure that a good connection has been made, squeeze the connector body with pliers (Figure 11). This will ensure that the BLACK wire inside the body has had its insulation removed and is now making contact with the adjacent terminal.

![Figure 11. Squeezing Connector Body](image)

**SPLICE TAP CONNECTOR BODY**

**PLIERS**

**SQUEEZE**

**OIL ALERT UNIT**

**GROUND WIRE CONNECTOR BODY**

**MALE**

**FEMALE**

**Figure 11. Squeezing Connector Body**

**Safety Switch Ground Wire Installation**

Refer to Figure 12.

1. Locate BLACK ground wire (safety switch) P/N 1488 and insert the male end into the splice tap connector body.

2. Using cable tie (Figure 13) P/N 1662 secure female end of BLACK ground wire (safety switch) P/N 1488 to guard ring.

![Figure 13. Cable Tie Connection Point](image)

**Throttle Swivel Installation**

Refer to Figure 14.

1. Insert brass swivel housing P/N 20844 into throttle body hole opening.

2. Insert and hand tighten a 8/32 X 1/4" pan head screw P/N 20842 into the top of the brass swivel housing.

3. Next, insert a 8/32 X 1/4" SHC screw P/N 20968 and #8 flat washer P/N 15173 into the bottom of the brass swivel housing.

4. Using a 1/8" allen wrench tighten bottom screw securely.

![Figure 14. Swivel Housing Installation](image)

**PAN HEAD SCREW P/N 20842**

**SWIVEL HOUSING P/N 20844**

**SWIVEL INSERTION HOLE**

**FLAT WASHER P/N 15173**

**SHC SCREW P/N 20968**

**1/8" ALLEN WRENCH**
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. Carson, CA 90746
Contact: mq@multiquip.com
Tel. (800) 421-1244
Fax (310) 537-3927

MQ Parts Department
800-427-1244
310-537-3700

Service Department
800-421-1244
310-537-3700

Technical Assistance
800-478-1244

UNITED KINGDOM
Multiquip (UK) Limited Head Office
Unit 2, Northpoint Industrial Estate,
Globe Lane,
Dukinfield, Cheshire SK16 4UJ
Contact: sales@multiquip.co.uk
Tel: 0161 339 2223
Fax: 0161 339 3226

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

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

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