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ENGINE SERVICE CLARIFICATION SHEET

EVERY ENGINE IS “BROKEN IN” ON MY PERSONAL DYNO/BIKE TO ENSURE QUALITY BEFORE SHIPPING BACK TO YOU

How to Box Up Your Engine & Ship it

Step 1: *Call if you have questions about any of this.* **Clean Engine of Excessive Dirt/Oil/Clay** so you can visually pre-inspect for any existing engine damage(s). Note: Excessive Dirt/Oil removal at our shop **will incur a \$50 upcharge** due to the additional time and cleaners involved. Please send pictures to my cell phone if you are uncertain about this policy.

Step 2: Drain the crankcase oil. Unbolt your intake manifold from cylinder head. Unscrew your flywheel cover from engine. Send these with engine to be cleaned and restored. Remove & keep your engine sprocket, foot shifter and foot kickstarter levers. I will use my own.

Step 3: Purchase a 48qt Igloo Cooler (~\$27.00 @ Walmart), roll of duct tape and padding. This is the vessel for securely shipping your engine to and from VHM.

Step 4: Wrap engine + other components with padding & place securely inside the cooler so that all items are snug. Place a note with all your contact info inside the cooler. If paying with a check, also provide a \$800.00 half down deposit check made out to “JE Vintage Honda Minis”. Close off the cooler by strapping with duct tape multiple times in (3) areas - The middle and both Left/Right sides.

Step 5: Price Check with FedEx or UPS. Those are the carriers I have used. The cooler is about 55lbs packed and should be 25”x14”x14” in dimension.

Step 6: Please notify me when your engine is on its way. I will inspect the cooler contents within a few days of its arrival & provide pictures of those contents to you for both of our records.

ENGINE REBUILD PRICING SCHEDULE

Cash, Check or Zelle Prices are below – Add 3.5% Fee for Credit or Debit Card Use

STOCK ENGINE REBUILD (EXCLUDES CARB WORK)

3 Speed CT70/Z50/Z50R/XR&CRF50/70 -- \$1600.00 + tax

4 Speed CT70H/SL70/XL70/CL70 -- \$1600.00 + tax

ATC70/TRX70 -- \$1600.00 + tax (*Excludes Pull Starter Refurb, See Below*)

Pull Starter Refurb – ATC70/TRX70 \$125.00 Labor + parts (Spring, Rope, Handle, Decals Etc...) + tax

OEM CARB REBUILD

ADD \$145.00 labor + Rebuild Parts Needed (~\$45 generally) + tax

Sometimes it is a good idea to purchase a new OEM or quality replacement carb when available. I can provide pricing on new options when appropriate.

88cc Upbore For The OEM Stock Cylinder Head

ADD \$90.00 Raw Aluminum or I can paint HT black/Silver + tax

TBparts 88cc Aluminum Cylinder and matching piston for a stock OEM head

Thread Repairs / Welding / Machining

\$100/hr Labor Rate + Parts & Materials

- Extraction / Drill outs for broken screws or studs
- Case Thread Repairs – Time-Sert inserts are used, not heli-coils
- Spark Plug Hole – Time-Sert inserts are used, not heli-coils
- Welding Repairs – TIG / MIG Welding *To Be Determined*

Carburetor Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Test and tune your rebuilt engine with my personal carb, airbox & Intake manifold setup ● No carb cleaning service or replacement Carb included with base build cost – Must ADD this service to base cost and ship your carb and intake manifold with your engine 	<ul style="list-style-type: none"> ● New carb purchase option ● Rebuild of your supplied carb (Ultrasonic + Vapor Hone + Carb Packing Parts) ● Gaskets / Hardware / Heat Spacers ● Fuel lines / inline filters

Cylinder Head Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Normal dirt/gasket removal ● Multi-Stage cleaning with Vapor Honing as final step ● New Valves (Int/Ex) ● New Honda Valve Springs (Inner/Outer) ● New Honda Tappet Screws/Nuts 	<ul style="list-style-type: none"> ● Removal of seized exhaust pipe in port ● Bolt extraction/thread repair ● Excessive Dirt / RTV covered gasket surface ● Paint Removal @ Head ● New camshaft/rockers ● Missing /Broken Parts ● Worn Valve Guide = Remove & Replace

<ul style="list-style-type: none"> ● New Honda Valve stem seal(s) ● New Hardware/Screws ● Acorn nuts / thick sealing washers ● High Quality Aftermarket Gaskets ● New valve seats cut + & leak tested ● NGK Spark Plug ● OEM Cam chain + New Roller(s) ● Light Polishing of your OEM Round Cam Cover ● New tappet covers ● Valve lashes set to spec 	<ul style="list-style-type: none"> ● New covers, if broken ● Aftermarket Performance Cylinder Head /Parts / Carb ● Time-Sert repairs - Bolt Holes & Spark Plug Hole
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Jug/Cylinder Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Normal dirt/gasket removal ● New Aftermarket Aluminum Piston / Rings / Wrist Pin & Clips (Piston Sized to Bore Requirements) ● Re-Boring + Honing of Cylinder Wall 	<ul style="list-style-type: none"> ● RTV covered gasket surface ● Excessive Grime ● New OEM Honda Cylinder (49 or 72 cm3) ● 88cc Aluminum Cylinder (52mm Bore Option)

<ul style="list-style-type: none"> ● Media Blasted Exterior and Proper Color Heat Resistant Paint ● Spark Wire Clip/Holder (CT70) ● New Specialty Hardware ● New Cam Roller Wheel ● Gaskets 	
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Crankshaft Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Rebuild of your OEM crankshaft assembly (ConRod & Bearings) ● Inspection of crankshaft & notification if concerns arise ● Re-true on bench center to OEM tolerances 	<ul style="list-style-type: none"> ● Due to excessive damage, replacement of original crankshaft ● Stroker Crank Upgrade

Engine Case (Aluminum Center Cases) Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Normal dirt/gasket removal ● Complete Splitting of cases ● New Transmission Radial Bearings 	<ul style="list-style-type: none"> ● Scratch & defect removal - polishing of center cases ● RTV covered gasket surface ● Excessive Dirt / Grime

- All threads chased with proper thread chaser tool (Not a tap)
- Late model Case – trans Needle Bearings Inspected / ADD \$25 per bearing if needed to be replaced
- Multi-Stage Cleaning with Vapor Honing as final step (Satin finish)
- New cam chain tensioner Plug & Oil drain Plug
- New Zinc Case Screws
- New Zinc Carb Drain Retaining Clip
- New Plastic Plug @ Exterior Shift Drum Retaining Bolt
- New Engine Seals
- New Gaskets
- New Crankcase Vent Hose

- Paint removal on center case
- Replacement of Jug/Cylinder head studs
- TIG welding Repairs of Aluminum Casting
- Thread repair @ footpeg bolt holes or 6mm case screw holes.
- Replacement of faulty late model needle bearings @ transmission shafts

Clutch Assembly Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Total breakdown and cleaning of clutch basket assembly / Inspection ● New OEM Fiber Based Friction Discs ● Standard or Heavy Duty Clutch Springs (Your Option) ● New Clutch Basket access cover gasket and screws 	<ul style="list-style-type: none"> ● Worn/Broken Clutch basket Parts ● Missing Parts ● New Metal clutch disc plates (Friction Discs are replaced in base charge, Metal Discs are upcharge if needed) ● Drive gear behind basket ● Bronze bushing ● Switching from semi-auto to manual clutch or vice versa ● Heavy Duty Complete clutch basket assembly for race head kits

Clutch "Right Side" Cover Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Normal dirt/gasket removal ● Media Blast and Repainting of your cover with Hue of Honda Silver ● New Seals ● New Gaskets 	<ul style="list-style-type: none"> ● RTV covered gasket surface ● TIG Welding Repairs ● Filling of deeper scratches before painting cover – If

<ul style="list-style-type: none"> ● New clutch adjustment stud, oring, nut, washer ● New Zinc Case Screws ● 3 Speed semi – New external clutch adjustment stud ● New CT70H/SL70/CL70 Model External Clutch Cable Arm & Spring 	<p>desired extra labor charge</p> <ul style="list-style-type: none"> ● Polishing of entire aluminum clutch side cover
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Oil Pump Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Oil Pump - New Quality High Volume Oil Pump - HV pump requires ~2mm drill out of orifice ● New Oil Pump Cam Chain Sprocket ● New Gaskets ● Cleaning of OEM filter screen or replace if torn 	<ul style="list-style-type: none"> ● N/A

Kickstart Shaft Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none">● New internal kickstart shafts on manual and semi auto engines● Circlips replaced	<ul style="list-style-type: none">● Chrome External Kickstarter lever● Kickstart lever rubber● Broken engagement gear

Shifter Shaft Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none">● New internal shifter shafts on semi auto & manual clutch engines	<ul style="list-style-type: none">● Chrome External Shifter Foot lever● Shifter lever rubber

Transmission Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none">● Re-Use of your transmission Gears/Main & Secondary Shafts/Assemblies● Tear down, Cleaning & Inspection of your components (Gears, Drum, Primary Gear)	<ul style="list-style-type: none">● Broken / Worn hard items (Ex. Gears/shafts)● Output shaft drive sprocket (Aka front sprocket) – I can supply front sprocket if desired● Conversions – 3 speed to 4 speed or vice versa

<ul style="list-style-type: none"> ● New spline washers & circlips ● New OEM Honda Left & Right Shift Forks and Shift fork Pins installed – ALWAYS REPLACED 	
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Stator & Flywheel Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Rebuild of your stator with new, quality aftermarket Kit (Primary & Lighting coil, condenser, point, hardware, o-rings, seal) ● Vapor honing of All Flywheels and Re-lubricating of <u>CT70H/SL70/CL70</u> spark advancing mechanism ● New Flywheel Nut/Washer ● Spark timing set with dynamic timing light ● Reuse of your neutral switch components (Certain models) 	<ul style="list-style-type: none"> ● Replacement of faulty/damaged flywheel ● Thread repair at flywheel or repair needed to pull flywheel ● 6v Adjustable CDI upgrade kit - Available option (Capacitor Discharge Ignition) in lieu of point setup – Add \$150 for the premium adjustable kit

<ul style="list-style-type: none"> ● Replacement of crankshaft key if needed 	
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Flywheel / Stator “Left Side” Cover Scope

INCLUDED	UPCHARGE
<ul style="list-style-type: none"> ● Refurbishing of your supplied Honda flywheel cover (Media blast, paint main body, lightly polish/brush round emblem) ● Securement screws 	<ul style="list-style-type: none"> ● New/Missing Cover parts

Photo and Video Documentation with Every Engine Rebuild

When completed, you will receive a link to a downloadable file of photos and videos of your particular engine rebuild. It will contain photos of the engine before, during and after the meticulous restoration process. Videos will cover the rebuilt crankshaft indicated on the truing stand and of the engine starting, idling with timing light and running under load (Riding in test bike or Dyno).