



(UT-2 ONLY) HONDA TECH INSPECTION WORK SHEET (UT-2 GCBPT)

Class: UT-2 Honda 160

Division LT HVY

Driver Name: _____ **Car #:** _____ **Date:** _____

Finish Position: _____

1	Exhaust length 20"-36" no steps or tapers, 1' O.D. Max, unaltered screw in muffler	
2	External visual check - exhaust shrouds, air cleaner, engine seals in tact	
3	Carburetor- # BE 65B Thailand # BE 65 Q UT-2 BE54D	
4	Insulator stock gaskets both sides. Gasket= 0.025 max	
5	Carburetor Bore: Intake end= 0.952 Throttle end= 0.710	
6	Venturi Bore: Go= 0.522 No Go = 0.523	
7	Main Jet: Honda #82 max (0.033) No Go Silver ok Jet: #53	
8	Main Air Drill (0.0595) No Go at back of hole	
9	Main Jet access passage: #41 Drill No Go	
10	Main Nozzle Bore: #47 Drill (0.078) No Go	
11	Main Nozzle: Installed Height 0.424 No Go	
12	See tech manual for main nozzle are bleed hole dimensions	
13	Pilot Jet #79 Drill (0.0145) No Go	
14	Pilot Air Jet: 0.050 min. 1.25 mm #55 Drill (0.052) No Go	
15	Pilot Seat : #61 Drill (0.039) No Go	
16	Pilot screw tip : 0.020 min.	
17	Float Bowl Vent: #31 Drill (0.120) No Go	
18	Needle valve seat (0.070) No Go	
19	Remove gear box and sun gear- check for any alterations, except to output end of shaft, no polishing	
20	Remove cooling shrouds check for all pieces installed. No metal added or subtracted	
21	Valve Lift Retainer with zero clearance: Intake= 0.245 max Exhaust= 0.255 max	
22	Push Rod Length 5.279 max Aluminum Rods Only	
23	Visually inspect rocker arms, pivots, studs for alteration. See tech manua	
24	Coil and Timing: Remove head and check coil position @ .115" btdc- see tech manual	
25	Check timing if quick check of timing line 27 is in question. 0.104 btdc or 20 btdc max (off set key allowed)	
26	Check Coil Air Gap: 0.020 max	
27	Coil Mounting Bolts: Stock 6mm 1-1/16" long. 3/8" max. no thread 0.230 min. threaded dia.	
28	Cylinder Head: Head gasket inner rim thickness = 0.008 min.	
29	Valve depth intake: 0.264max / 0.242min Exhaust: 0.250 max / 0.225 min	
30	Combustion Chamber: 17.2cc with Stock spark plug Reference	
31	Retainers: (thickness) 0.225 min	
32	Flange thickness: 0.110 max	
33	Flat of Flange to machined surface: 0.145 min-0.155 max	
34	Springs: Wire Dia.; 160: 0.071 max Stacked length= 0.394; 140: 0.079 max Stacked length= 0.524	
35	160: O.D. 0.790 max, # of coils= 5.3 140: O.D. 0.808, # of coils= 7	
36	Pressure: 160: 11 lbs max, 140: 16 lbs max @ 0.812	
37	Valve: Single angle= 45 degrees unaltered	
38	Weight: Intake= 22 grams min Exhaust= 20.5 grams min	
39	Head Diameter: Intake= 1.023/1.026 Exhaust= 0.904/0.9 8	
40	Overall length: Intake= 2.500/2.514 Exhaust= 2.505/2.510	

Tech Official Signature: _____

Engine: Pass Fail

41	Stem diameter: Intake=0.212/0.216 Exhaust= 0.212/0.216	
42	See tech manual for additional dimensions	
43	Head Surface to Valve Seat: Intake and exhaust= 0.287min/0.305max	
44	-to Valve Guide: 1.010max	
45	- to lowest machined area in port: Intake= 1.162max Exhaust= 1.122max	
46	Ports- stock "AS CAST"- Single 45 degree angle valve seats	
47	Port Diameter @ valve: Intake: 0.946 max Exhaust= 0.830 max	
48	Block: Bore= 2.682max Stroke= 1.778max/ 1.758min	
49	Top of Piston Deck: 0.000" to 0.013" below deck	
50	Plastic fan- all blades intact	
51	Degree Cam: See tech manual	
52	Max lift: Intake= 0.227 Exhaust= 0.229	
53	Check flywheel and offset key allowed	
54	Check key for alteration	
55	Check flywheel magnet and screw for alteration	
56	Check flywheel weight: 2300 grams min	
57	Check flywheel diameter magnet area – 6.285 min	
58	Crankcase cover: Stock "AS CAST"	
59	Gasket: Stock Honda gasket 0.025 max thickness	
60	Cover to be flat + .005	
61	Piston: Stock Honda standard size no alterations. Dot toward push rod	
62	Piston Weight: With rings, pin and retainers 195 grams min	
63	Height: 1.786 - 1.789	
64	Skirt diameter= 2.674 min 2.678 max (perpendicular to pin)	
65	Wrist Pin: Stock OD 0.709 ID 0.556 length 2-125ref	
66	Rings: Stock Honda- thickness= compression and scraper 0.036, 3 piece Oil Ring= 0.076 N or T Top rings marked 1R Second Ring R	
67	Connection Rod: Big end I.D.- 1.176 min 1.184 max	
68	Small end bore= 0.710 ref.	
69	Length- near edges of bore = 2.441 max	
70	Weight with Bolts: 140 grams min.	
71	Crankshaft: Stock Honda no alterations. Governor drive gear in place	
72	Camshaft: Stock Honda no alterations. Compression release intact.	
73	Heel to heel: Intake= 0.865 –0.869 Exhaust= 0.866-0.870	
74	Heel to peek: Intake= 1.079-1.093 Exhaust= 1.081-1.095	
75	Length flange to flange: 3.135min 3.142 max	
76	Cam bearings: 0.547 min- 0.551 max	
77	Tappets Stock Honda no alterations. Base Diameter= 0.910 min	
78	Stem Diameter= 0.073 min Base thickness= 0.076 min – 0.090 max	
79	Length= 1.180 min- 1.220 max Weight= 17 grams min	
80	Block Stock : Honda "AS CAST". Oil level sensor intact-Deck finish non-tech	
81	Bore= 2.682 max	
82	Machined side cover surface- to cam thrust face= 3.220/3.240max	
83	Machined side cover surface- to bearing face= 3.430min/3.442max	
84	200 Carb Spec	
85		
86		