

HONDA TECH INSPECTION WORK SHEET

	Class:Honda 120	Division:	Jr	Sr	Heavy
	Name:	Car	·#:	Date:	
	Finish Position:				
	THISTI FOSITION.		_		
1	Exhaust length 20'-26' no steps or tapers, 1' O.D. Ma	x, unaltered scre	w in mu	ffler	
2	External visual check- exhaust shrouds, air cleaner, er	ngine seals in tac	t		
3	Carburetor- # BE 60B Thailand # BE 60 R UT-2 # BE99	9A			
4	Restrictor plate- between carb. & insulator stock gask	kets both sides.	Gasket=	0.025 max	
5	Plate thickness= 0.0625max Hole Diameter: Novice:	= 0.3125 Red Jur	ior= 0.43	375 Blue	
6	Carburetor Bore: Intake end= 0.950 Throttle end= 0.	632			
7	2 gaskets between carb. And plastic adapter is okay				
8	Venturi Bore: No Go= 0.456				
9	Main Jet: Honda No Go #70 Max #28 pin gauge				
10	Main Air Jet: #60 Drill (0.040) No Go at back of hole (0.0394max			
11	Main Jet access passage: #41(0.096) Drill No Go				
12	Main Nozzle Bore: #50 Drill (0.070) No Go				
13	Main Nozzle: Installed Height 0.429				
14	See tech manual for main nozzle are bleed hole dime	nsions			
15	Pilot Jet: #79 Drill (0.0145) No Go				
16	Pilot Air Jet: 0.050 min. 1.25 mm (0.0492) Go				
17	Pilot Seat: #61 Drill (0.039) No Go				
18	Pilot Screw tip: 0.019 min.				
19	Float Bowl Vent: #31 Drill (0.120) No Go				
20	Needle Valve Seat: #51 Drill (0.067) No Go				
21	Remove gear box and sun gear- check for any alterati	ions, except to o	utput en	d of shaft, no po	lishing
22	Remove cooling shrouds- check for all pieces installed	d. No metal add	ed or sub	otracted	
23	Valve Lift Retainer with zero clearance: Intake= 0.245	5 max Exhaust= ().255 ma	ax	
24	Push Rod Length 4.803 max				
25	Visually inspect rocker arms, pivots, and studs for alte	eration. See tech	n manua	I	
26	Coil and Timing: Remove head and check coil positio	n @ .65" btdc- s	ee tech r	nanual	
27	Check timing: if quick check of timing line 27 is in que	estion. 0.665" bt	dc or 20	btdc max	
28	Check Coil Air Gap: 0.016 +008 (not a tech item bu	ıt recommended)		
29	Coil Mounting Bolts: Stock 6mm 1-1/16" long. 3/8" i	max. no thread (0.230 mi	n. threaded dia.	
30	Cylinder Head: Head gasket inner rim thickness = 0.0)40 min.			
31	Valve depth intake and exhaust= 0.210max / 0.178m	in			
32	Combustion Chamber: 10cc with stocking plug Refer	ence			
33	Retainers: (thickness) Intake: 0.228 min Exhaust: 0.	.241 min			
34	Flange thickness: Intake= 0.110 max Exhaust= 0.07	70 max			
35	Flat of Flange to machined surface: Intake = 0.148 Ex	haust= 0.165 mir	n		

Tech Inspector Signature:	Engino:	Pass	Fail
recir inspector signature.	Engine:	P d 3 3	ган
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36	Springs: (120) Wire Diameter= 0.071 max Stacked length= 0.394 O.D. 0.790 max, # of coils = 5.3		
37	(120) = Pressure: 11 lbs max @ inches (0.812)		
38	Springs: (140) Wire Diameter= 0.079 max Stacked length= 0.524 O.D. 0.816 max, # of coils = 7		
39	(140) = Pressure: 16 lbs max @ inches (0.812)		
40	Valve: Single angle= 45 degrees unaltered		
41	Weight: Intake= 18 grams min Exhaust= 16 grams min		
42	Head Diameter: Intake= 0.862/0.870 Exhaust= 0.744/0.752		
43	Overall length: Intake= 2.444/2.458 Exhaust= 2.385/2.395 UT-2 2.470		
44	Stem diameter: Intake= 0.216		
45	See tech manual for additional dimensions		
46			
47			
49			
50	Head thickness@ Flange Bolts: 2.911min/ 2.917max		
51	Ports- stock "AS CAST"- Single 45 degree angle valve seats		
52	Port Diameter @ valve: Intake: 0.745min/ 0.752max Exhaust= 0.665min/ 0.675max	+	
53	Block: Bore= 2.366max Stroke= 1.659max/ 1.640min		
54	Top of Piston Deck: 0.000" to 0.015" below deck		
55	Plastic fan- all blades intact		
56	Degree Cam: See tech manual		
57	Max lift: Intake= 0.227 Exhaust= 0.229		
58	Centerline: Intake= 104-107.5 atdc Exhaust= 107.5-110.5 btdc		
59	Check flywheel and crankshaft keyways for alterations		
60	 		
61	Check flywheel magnet and screw for alteration		
62			
63	Check flywheel diameter magnet area – 6.285 min		
64			
65	Gasket: Stock Honda gasket 0.025 max thickness		
66	Cover to be flat + .005		
67	Piston: Stock Honda standard size no alterations. Triangle or Dot towards push rods		
68	Piston Weight: 106 grams min. With rings and retainers 118 grams min		
69	Height: 1.808-1.813		
70	Skirt diameter= 2.357 min 2.363 max (perpendicular to pin) See tech manual for additional dimensions		
71	See tech manual for additional dimensions		
72	Wrist Pin: O.D.= 0.511 ref. I.D.= 0.354 ref length 1.854+-0.010 Weight: 23 grams min.		
73	Rings: Stock Honda- thickness= compression and scraper 0.57, 3 piece Oil Ring= 0.098 N or T or R		
74	Connection Rod: Big end I.D 1.021 min 1.0265 max		
75	Small end bore= 0.5111 ref.		
76	Length- near edges of bore= 2.101 min 2.111 max		
77	Weight with bolts: 119 grams min or 4.2oz. min.		
78	Crankshaft: Stock Honda no alterations. Governor drive gear in place		
79	Camshaft: Stock Honda no alterations. Compression release intact		
80	Heel to heel: Intake= 0.864 –0.869 Exhaust= 0.865-0.870		
81	Heel to peek: Intake= 1.079-1.093 Exhaust= 1.081-1.095		

82	Length flange to flange: 3.135 min 3.142 max	
83	Cam bearings: 0.547 min- 0.551 max	
84	Tappets: Stock Honda no alterations. Base Diameter= 0.910 min	
85	Stem Diameter= 0.312 min Base thickness= 0.076 min – 0.090 max	
86	Length= 1.180 min- 1.220 max Weight= 16 grams min	
87	Block Stock Honda "AS CAST". Oil level sensor intact	
88	Bore= 2.366 max	
89	Deck Height= 4.527min 4.532 max	
90	Machined side cover surface- to cam thrust face= 3.228/3.240max	
91	Machined side cover surface- to bearing face= 3.429 min/3.442max	