

HONDA 160 TECH INSPECTION WORK SHEET

	Class:Honda 160	Division	:	_LT	Hvy	
	Driver Name:	Car #:	Date	:		
	Finish Position:					
1	Exhaust length 20'-26' no steps or tapers, 1' O.D. M	lax, unaltered s	crew i	in muf	fler	
2	External visual check-exhaust shrouds, air cleaner, o	engine seals in	tact			
	Carburetor - # BE 65B Thailand # BE 65 Q or BE540					
4	Insulator stock gaskets both sides. Gasket= 0.025 n	nax				
5	Carburetor Bore: Intake end= 0.951 Throttle end=	0.710				
6	Venturi Bore: Go= 0.522					
7	Main Jet: Honda #82 max #67 Drill (0.033) No Go	Silver ok				
8	Main Air Jet: #53 Drill (0.0595) No Go at back of ho	le				
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 din	nensions				
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: #51 Drill (0.070) No Go					
19	Remove gear box and sun gear - check for any alter	ations, except	to out	put en	nd of shaft, no polishing	
20	Remove cooling shrouds-check for all pieces installe	ed. No metal a	dded (or subt	tracted	
21	Valve Lift Retainer with zero clearance: Intake= 0.2	.45 max Exhau	st= 0.2	255 ma	ax	
22	Push Rod Length 5.279 max					
23	Visually inspect rocker arms, pivots, studs for altera	ation. See tech	manu	al		
24	Coil and Timing: Remove head and check coil posit	ion @ .115" bt	dc- see	e tech	manual	
25	Check timing: if quick check of timing line 27 is in q	uestion. 0.104	btdc c	or 26 b	tdc max	
26	Check Coil Air Gap: 0.016 +.008 not a tech item b	out recommend	ded			
27	Coil Mounting Bolts: Stock 6mm 1-1/16" long. 3/8	" max. no thre	ad 0.2	30 mir	n. threaded dia.	
28	Cylinder Head: Head gasket inner rim thickness = 0	.040 min				
29	Valve depth intake: 0.264max / 0.242min Exhaust	t: 0.250 max / 0).225 r	nin		
30	Combustion Chamber: 10cc with stock spark plug F	Reference				
31	Retainers: (thickness) Intake: 0.228 min Exhaust:	0.241 min				
32	Flange thickness: Intake= 0.110 max Exhaust= 0.	070 max				
33	Flat of Flange to machined surface: Intake= 0.148	Exhaust= 0.165	min			
34	Springs: Wire Dia.; 160: 0.071 max Stacked length	= 0.394; 140: 0	.079 m	nax Sta	acked length= 0.524	
35	160: O.D. 0.790 max, # of coils= 5.3 140: O.D. 0.8	08, # of coils=	7			
	Pressure: 160: 11 lbs max, 140: 16 lbs max @ 0.81	25				
37	Valve: Single angle= 45 degrees unaltered					
	Weight: Intake= 22 grams min Exhaust= 22 grams					
39	Head Diameter: Intake= 0.980/0.988 Exhaust= 0.	941/0.949				
40	Overall length: Intake= 2.500/2.514 Exhaust= 2.4	43/2.453				
	Tech Official Signature:			En	gine:PassFail	

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-	Stem diameter: Intake=0.212/0.216 Exhaust= 0.212/0.216	-				
_	2 Stem diameter: Intake=0.212/0.216 Exhaust= 0.212/0.216Head Surface to Valve Seat:					
_	Intake and exhaust= 0.287min/0.305max					
_	-to Valve Guide: 1.000max					
	- to lowest machined area in port: Intake= 1.162max Exhaust= 1.122max					
46	Head thickness@ Flange Bolts: 2.911min/ 2.917maxThailand Heads 2.909 min					
47	7 Ports- stock "AS CAST"- Single 45 degree angle valve seats					
48	8 Port Diameter @ valve: Intake: 0.900min/ 0.915max Exhaust= 0.858min/ 0.869max					
49	9 Block: Bore= 2.682max Stroke= 1.778max/ 1.758min					
50	Top of Piston Deck: 0.000" to 0.013" below deck					
51	1 Plastic fan- all blades intact					
52	2 Degree Cam: See tech manual					
53	3 Max lift: Intake= 0.227 Exhaust= 0.229					
54	4 Centerline: Intake= 104-107.5 atdc Exhaust= 107.5-110.5 btdc					
55	55 Check flywheel and crankshaft keyways for alterations					
56	6 Check key for alteration					
57	7 Check flywheel magnet and screw for alteration					
	68 Check flywheel weight: 2360 grams min					
59	9 Check flywheel diameter magnet area – 6.285 min					
60	O Crankcase cover: Stock "AS CAST"					
61	1 Gasket: Stock Honda gasket 0.025 max thickness					
62	2 Cover to be flat +005					
63	3 Piston: Stock Honda standard size no alterations. Triangle or dot toward push rod					
64	4 Piston Weight: With rings and retainers 200 grams min					
65	5 Height: 2.103-2.108 Piston #13101-24M-000 Height 1.928 Reference					
66	6 Skirt diameter= 2.674 min 2.678 max (perpendicular to pin)					
67	7 Wrist Pin: Stock OD 0.709 ID 0.556 length 2-125ref					
	Rings: Stock Honda- thickness= compression and scraper 0.036, 3 piece Oil Ring= 0.096 N or T Thai rings marked					
68	R or N/T					
69	Connection Rod: Big end I.D 1.021 min 1.0265 max					
70	Small end bore= 0.5111 ref.					
71	Length- near edges of bore= 2.101 min 2.111 max					
72	2 Weight with Bolts: 140 grams min.					
73	Crankshaft: Stock Honda no alterations. Governor drive gear in place					
74	Camshaft: Stock Honda no alterations. Compression release intact.					
75	Heel to heel: Intake= 0.865 –0.869 Exhaust= 0.866-0.870					
76	Heel to peek: Intake= 1.079-1.093 Exhaust= 1.081-1.095					
77	Length flange to flange: 3.135 min 3.142 max					
	Cam bearings: 0.547 min- 0.551 max					
	Tappets: Stock Honda no alterations. Base Diameter= 0.930 min					
_	Stem Diameter= 0.312 min Base thickness= 0.076 min – 0.090 max					
-	Length= 1.180 min- 1.220 max Weight= 17 grams min					
	Block Stock Honda "AS CAST". Oil level sensor intact (Honda replacement block allowed					
	Bore= 2.682 max					
	Deck surface non tech					
-	Machined side cover surface- to cam thrust face= 3.228/3.240max					
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