1.	Remove engines from create				
	Install exhaust, air filter housing and add	l oil			
	Remove spark plug and check compressi	ion with gauge			
	Set choke to OFF, set throttle to 1/2				
	Pull the engine over with 4 quick pulls ar	nd recorded your read	ing	psi.	
2.	install the test fuel tank and test run eng	gine			
		Pass	Fail	symptoms	
	Be sure it runs with the choke off				
	Check low speed idle				
	Check high speed idle				
	Verify that it holds a steady speed with r	no surging or rough ru	nning		
3.	Remove valve cover and set engine to Top Dead Center (TDC)				
	check valve lash with Feeler Gauge, have Clearance should be .004-006 intake and		rfindings		
		Clearance (before)	Clearance	(after, if adjuster)	
	Intake valve lash				
	Exhaust valve lash				
Pull the engine over with 4-5 quick pulls and recorded your readingpsi.					
	Drain oil back into the quart of oil you got it from				

Name\_\_\_\_\_

4.	Begin disassembly			
	Air filter housing			
	muffler			
	Remove carburetor and throttle assemble			
	Remove cylinder head			
	Remove valves from head			
	Measure valve stem diameter			
Intake valve stem				
	Exhaust valve stem			
Measure valve guide diameter				
	Intake guide diameter			
	Exhaust guide diameter			
Calculate valve stem to guide clearance				
	Intake guide dia.	Exhaust guide dia		
Minus Intake stem dia.		Minus		
		Exhaust stem dia		
	Equals clearance	Clearance		
Have th	ne instructor check your work			
Re-inst	Re-install the valve cover onto cylinder head			

Stop

1.	Measure the bore and stroke of this engine		
	Calculate displacement		
	Bore2 x stroke x .7854 x number of cylinders		
	To convert, CID/61.02 = liters		
	Bore		
	Stroke		
	Displacement in cubic inches		
2.	Remove any small items bolted to the block.		
3.	Measure crank shaft end play with the dial indicator		
	record your reading inches		
4.	Remove flywheel; use an impact gun to get the nut off. Have instructor help with removing		
	flywheel from crankshaft		
_	Pamova angina covar DO NOT DAMAGE THE GASKET! Have the instructor help if needed		
Э.	Remove engine cover, <b>DO NOT DAMAGE THE GASKET!</b> Have the instructor help if needed.		
	Remove the low oil sensor		
	Remove connecting rod cap and remove piston.		
	Remove crankshaft from block		

6.	Measure crankshaft		
	Rod journal		
	Main bearing journal, flywheel side _		_
	Main bearing journal, output side		
7.	Measure oil clearance of the rod on t	he crank	
	Plastigage reading		
8.	Remove wrist pin and measure Pin hole in piston		
	Pin hole in connecting rod		
Cal	Measure wrist pin dia		
Cai			
	Piston to pin		
9.	Measure camshaft intake		exhaust
	Heel to Nose	Heel to Nose	
	Base circle	Base circle	
	Lobe lift	Lobe lift	

10. Measure cylinder bore with T-gauge in more at 90 degrees.	in 3 places top to	bottom on the thrus	st surface then 3			
Тор	Тор					
Middle	Middle	·				
Bottom	Botton	1				
11. Measure piston Skirt ½ inch above the	ne bottom of skirt	<u> </u>	_			
12. Calculate piston to cylinder wall clear	rance	Minus	rement			
<ul> <li>13. Reassemble the bottom end. Have your instruct inspect the cam timing before you install the cover.</li> <li>14. Install the cylinder head and adjust the valves.</li> <li>15. With the valve cover removed and the engine set to Top Dead Center (TDC) check valve lash with Feeler Gauge, have instructor verify your findings</li> </ul>						
Clearance should be .004-006 intake and	Clearance should be .004-006 intake and .006008 exhaust					
Intake valve lash	Clearance 	_				
Exhaust valve lash		_				
<ul><li>16. Install the carburetor, muffler and other external components test fuel tank and test run engine.</li><li>17. The magneto must be set to .009012 clearance. Have you instructor assist and inspect</li></ul>						
	Pass	Fail	symptoms			
Be sure it runs with the choke off						
Check low speed idle						

Check high speed idle
Verify that it holds a steady speed with no surging or rough running
Write down the Targue speed for the halts
Write down the Torque specs for the bolts
6mm
8mm
OHIII
10mm

## **Honda Multi-Point Vehicle Inspection Checklist**





R/O TAG NUMBER	NEXT SERVICE DUE
VIN	MILEAGE
SERVICE ADVISOR	TECHNICIAN

Satisfactory	May Require F	uture Atter	ntion	Requires Immediat	te Attention
Interior/Exterior			Tire	Condition	
Headlights (check high and low beams)/Taillights/Brake		Left Front			Right Front
lights/Hazard warning lights/Turn signals/Exterior lamps			Wear pattern	Wear pattern	
Interior light			Tire tread 32nds		
Windshield washer spray/Wiper operation/Wiper blades/ Windshield condition		Left Rear	The treatoznac	January Strategy Stra	Right Rear
Parking brake			Wear pattern	Wear pattern	
Horn operation			Tire tread32nds		
Clutch operation (if applicable)		Spare	Tille treati52iius	5   Tile treat521ius	
Cabin air filter		Spare	пинин	Front tire inflation set to	nei
			Wear pattern	- I B	•
Battery Performance (see attached ED-18 printout)	•		Tire tread32nds	·	psi
	(H)	Spare tire	not checked at this time [		
Replace			Brake	Condition	
	The same of the sa	Left Front			Right Front
Under Hood			mms	mms	
Check fluid levels: Oil/Coolant/Power steering fluid/Brake		Left Rear			Right Rear
fluid*/Windshield washer fluid/Automatic transmission fluid			mms	mms	
External drive belts and radiator hoses				•	
Hydraulic clutch reservoir fluid (M/T vehicles)		Comment	's		
Engine air filter					
Under Vehicle					
Brake lines/Hoses/Parking brake cable					
Shock absorbers/Struts/Suspension/Tie rod ends and boots/ Steering gear and dust seals					
Exhaust system					
Engine oil and/or fluid leaks					
Drive shaft boots/Constant velocity boots and bands					
Comments					
	<del></del>				

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