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How to: Valve Adjustment for Honda PCX

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How to: Valve Adjustment for Honda PCX

Author

EddieC



Joined: Thu Nov 03, 2011 2:25 pm
Posts: 472
Location: Hollywood/Los Angeles CA USA

Message

How to: Valve Adjustment for Honda PCX

Valve Adjustment How-To

Alright guys... here we go... Disclaimer first!

Disclaimer:

I am not at all a professional mechanic... I have taught myself about engines on a couple other bikes I have had. A "71 CB500, then a "01 SV internet and friends. I will do my best to describe a valve adjustment but will not be held responsible if anything goes haywire with your bike maintenance. This is not professional advice. Please correct me if I mixed something up or used incorrect terms and I will edit to perfection. 1

SOURCES: (pictures and quotes)

Honda Motor Co., Ltd. Honda Service Manual 2011 PCX125. N.p.: Service Publication Office, 2010. Print.

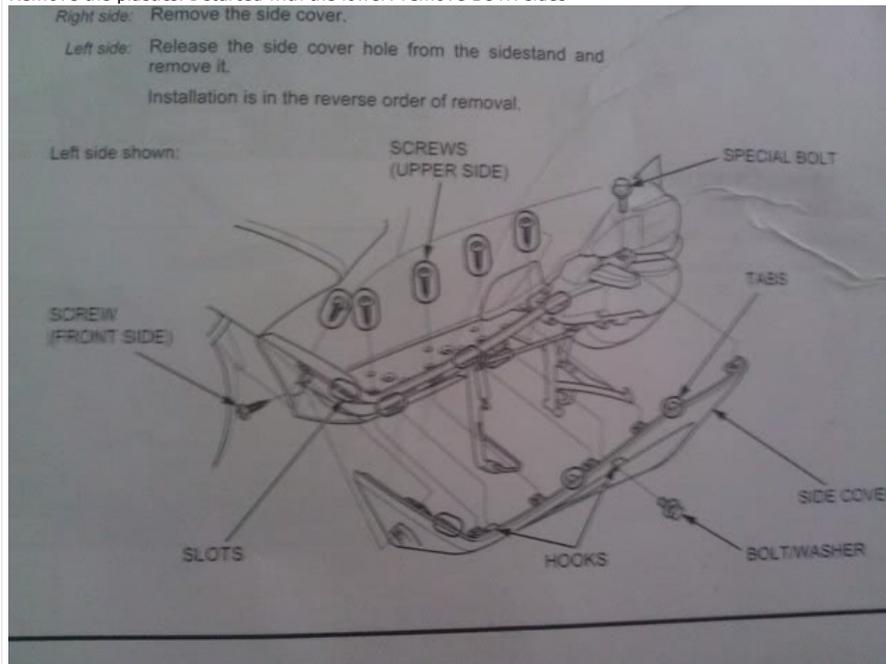
Tools needed. Plastic removing tools, feeler gauges, 8,9,10,12,22mm open end wrenches, 8,10,12mm sockets with extension, phillips head s

maddiedog wrote:

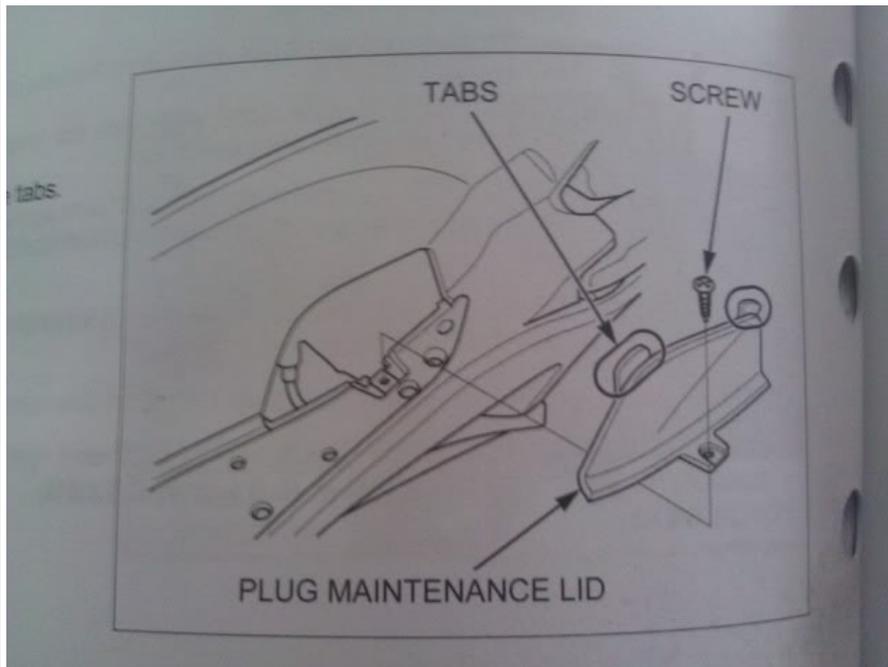
Your bike must be cold when doing a valve adjustment. You should wait at least 4 or 5 hours since it has been on last. If you do not, you ma clearances too tight, since the metal expands slightly when hot.

Some people even like to wait overnight (like me)

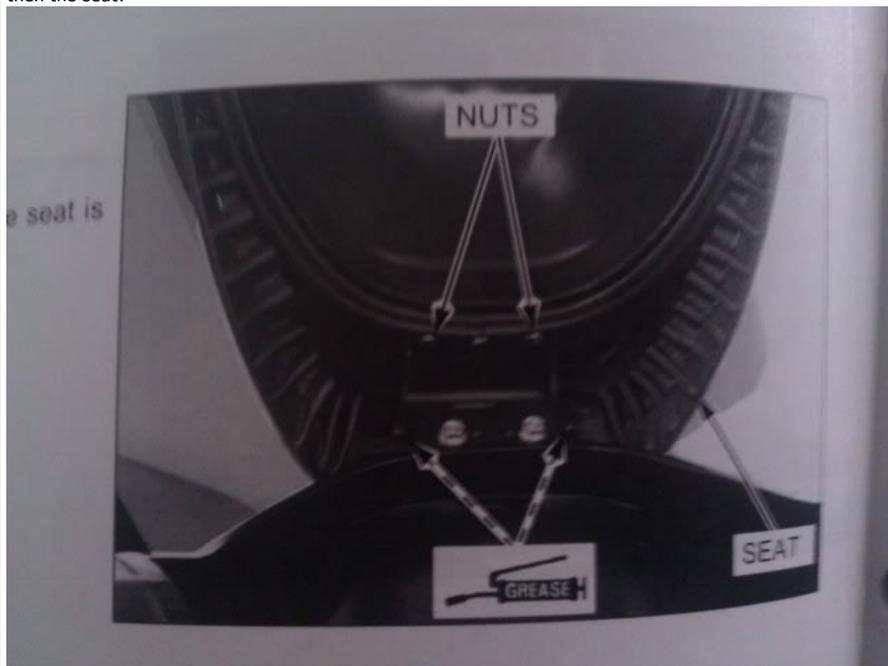
Remove the plastics. I started with the lower: remove BOTH sides



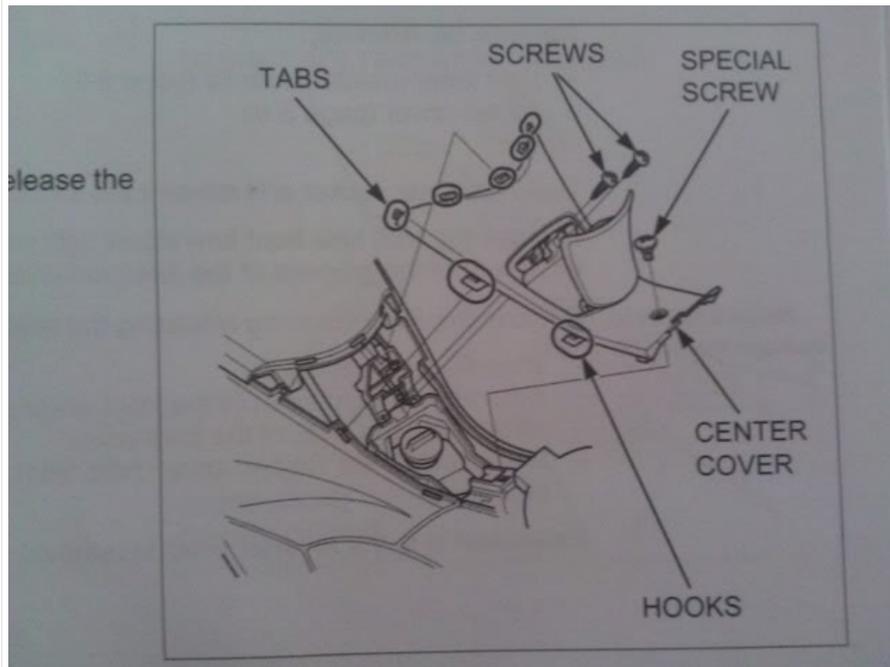
dont forget!



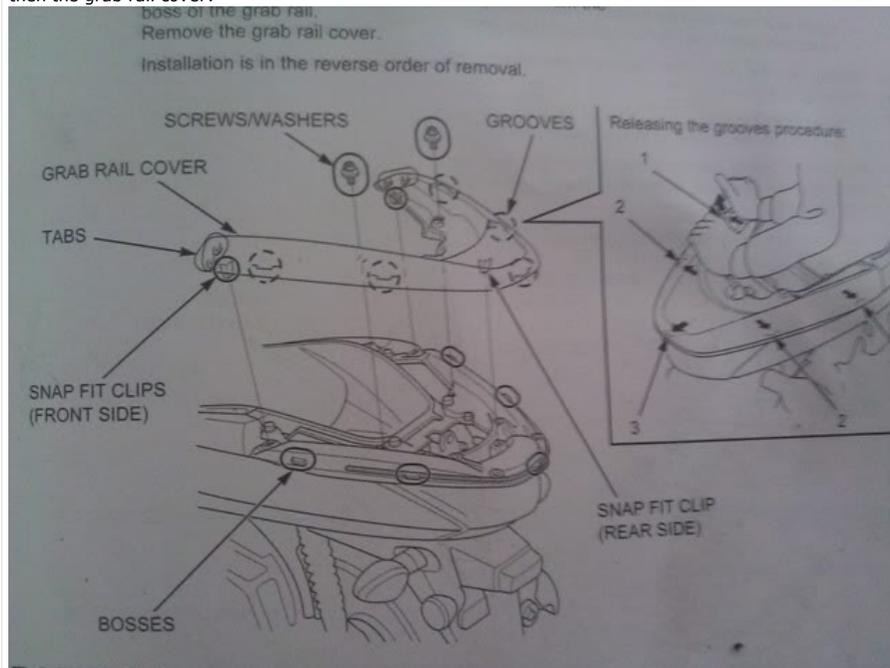
then the seat:



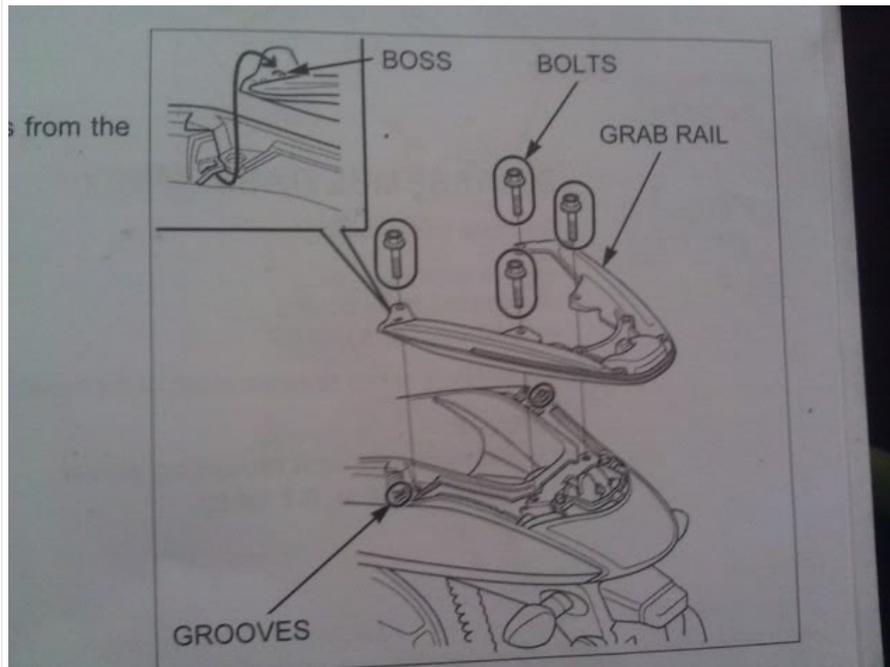
then the center cover:



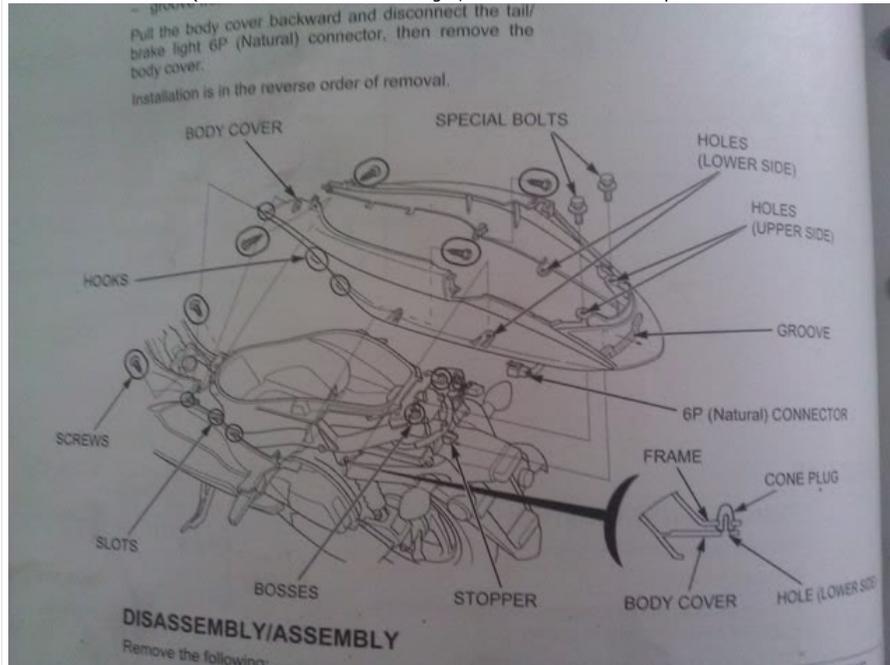
then the grab rail cover:



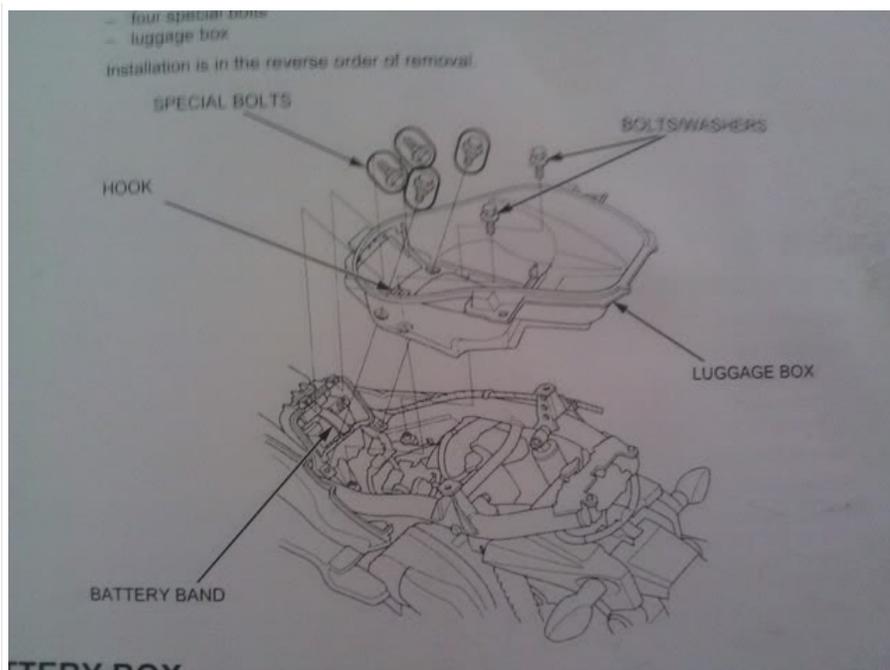
then the grab rail:



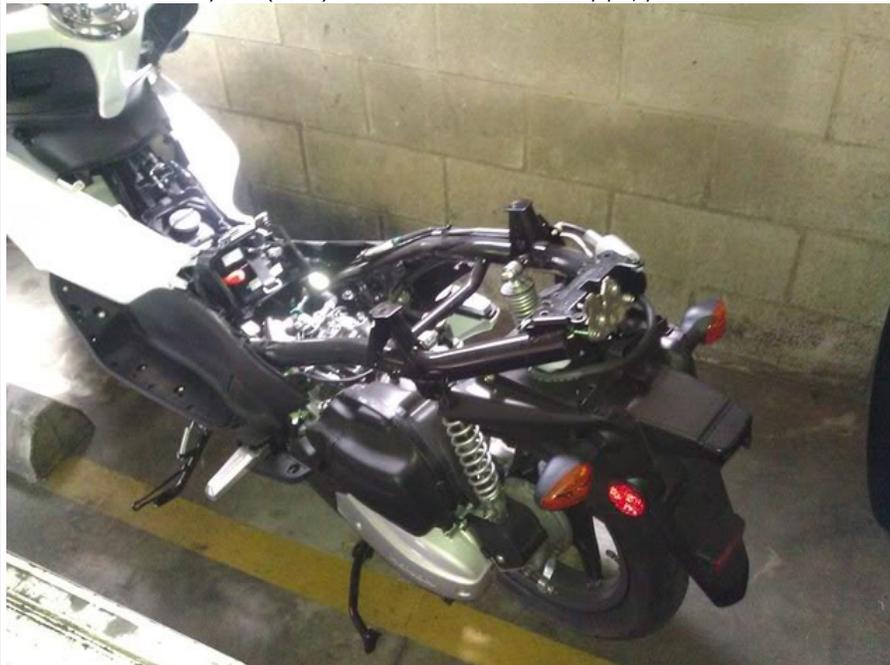
then the side covers: (no need to remove the taillight, will all come off in one piece)



then the cargo box:



Then remove the battery box. (1 bolt). DO NOT disconnect the battery yet, you will need it in a moment. when you're done it will look somet



Disconnect the fuel pump:

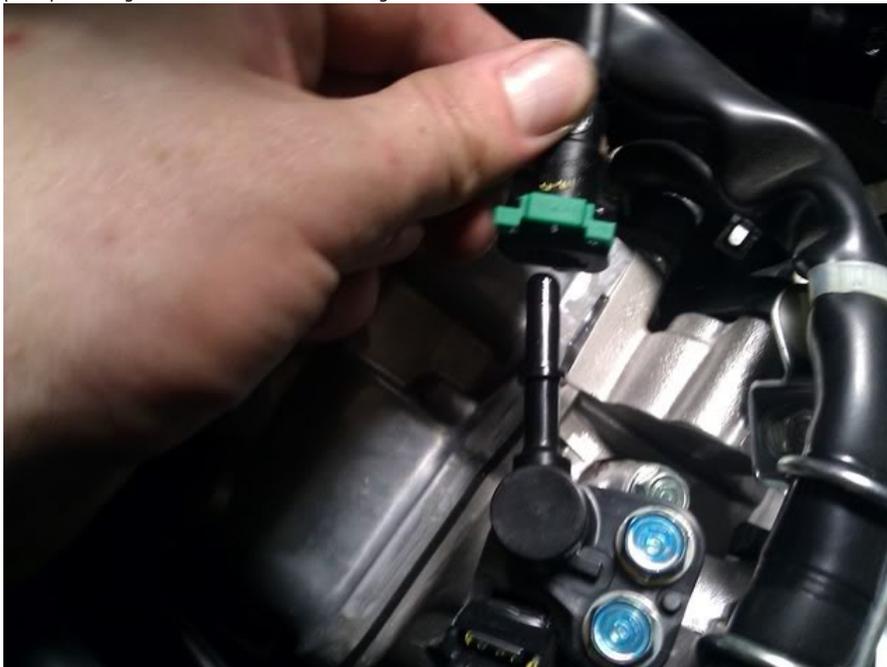


then relieve the fuel pressure. turn ignition on and press the starter for 5 seconds. After that, remove the fuel line, fuel line clamp bolt, and th





pull up on the green tab to remove: use a rag to catch excess fuel



Then remove the cylinder head itself, Exposing the valves. 3 bolts



then remove 3 bolts on the left cover exposing the crankshaft



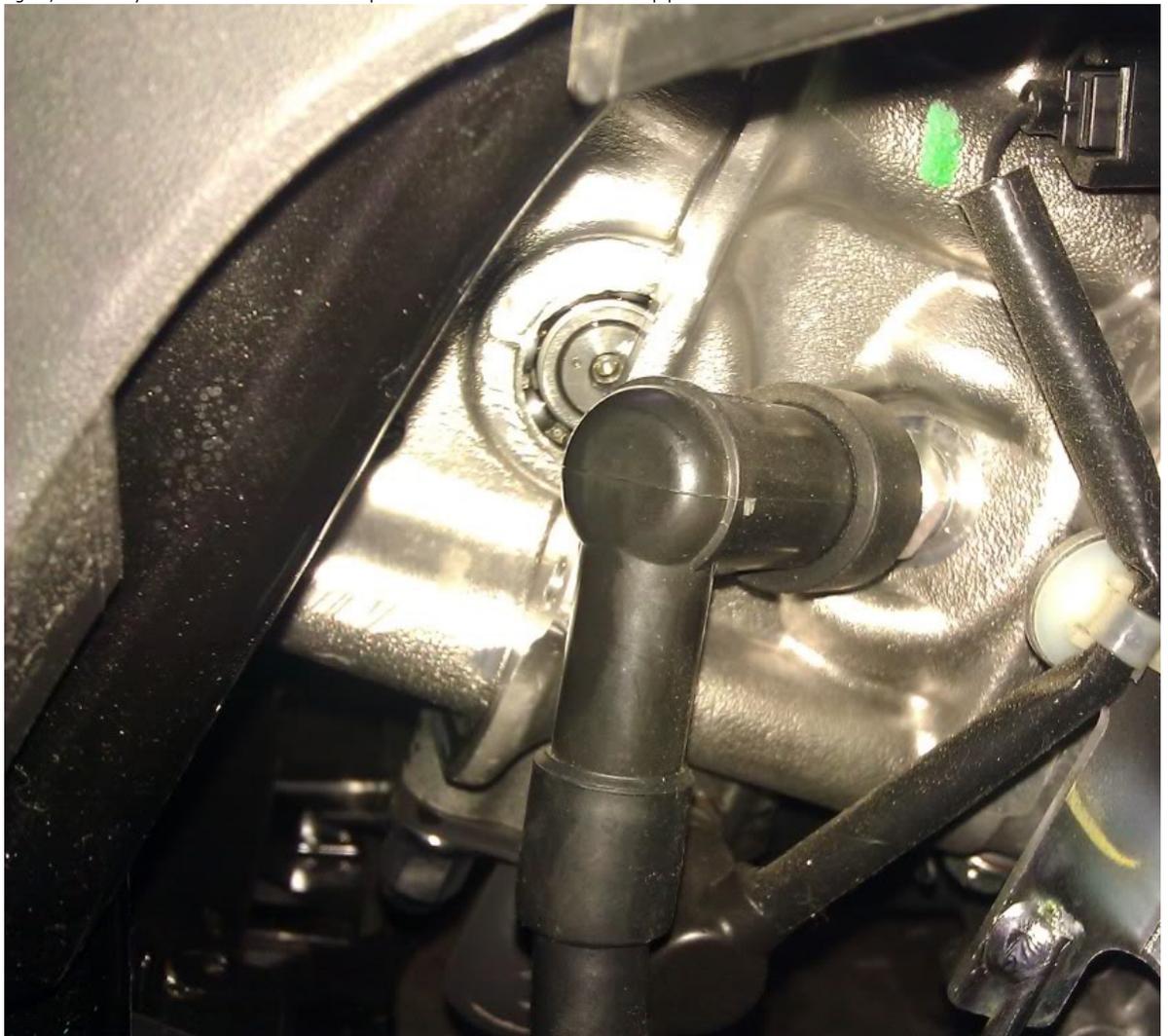
Remove the right side radiator cover (3 bolts) and remove the 4 bolts holding the radiator on to expose the fan. Do not disconnect any hoses



turn the crankshaft COUNTER CLOCKWISE until the index mark and the cutout on the fan line up as pictured above, test to see if there is slack giving it a wiggle

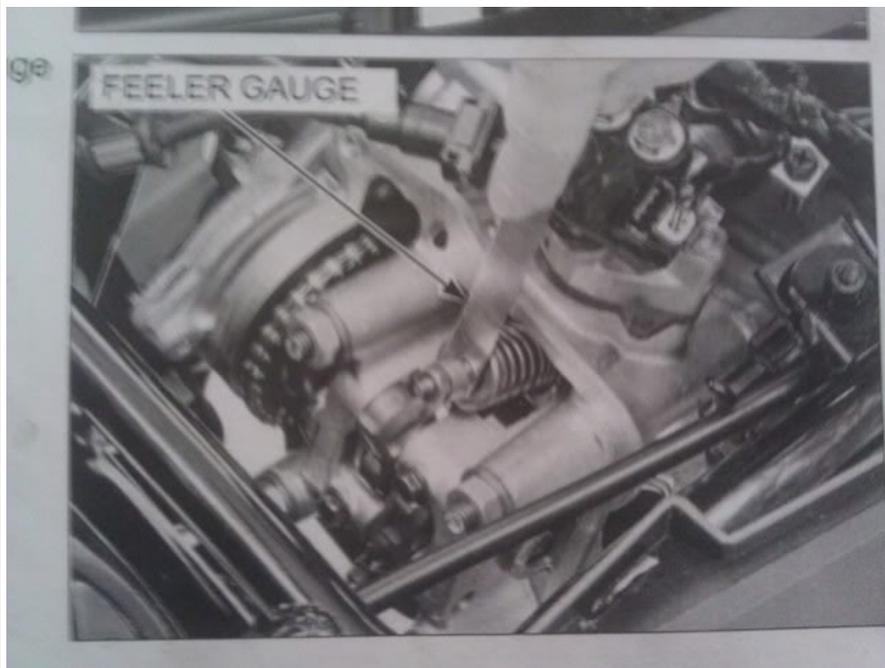


if it feels like its not moving then you will need to spin the crankshaft a full 360 degrees to be at top dead center. Verify that the index mark a again, and verify that the index line and the punch mark on the camshaft line up pictured below:



once the piston is in the correct place, use your feeler gauges to measure the clearance between the valve adjusting screw and valve stem. T engine is intake, and the valve on the bottom is exhaust. the clearance is

INTAKE: 0.10 +/- .02mm (0.004 +/- 0.001in)
EXHAUST: 0.24 +/- .02mm (0.009 +/- 0.001in)



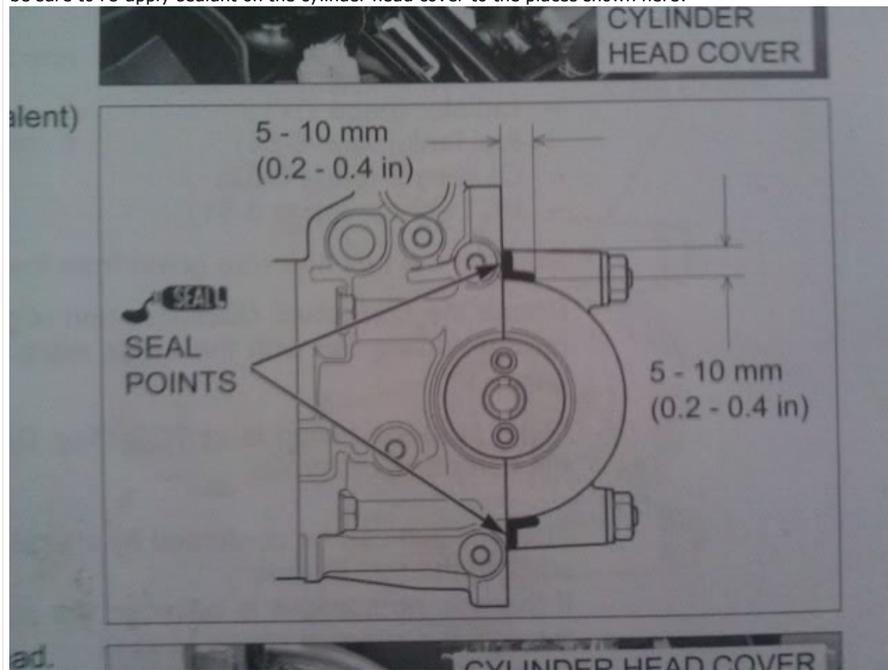
Quote:

If the valve clearance is incorrect, loosen the valve adjusting screw lock nut and adjust the valve clearance by turning the adjusting screw up on the feeler gauge.

I found it easiest to loosen the nut a lot and just twisted the adjusting screw by hand, gave me better control than pliers.

once you're done reassemble in the reverse order.

be sure to re-apply sealant on the cylinder head cover to the places shown here:



Hope this helps! 😊

<p>maddiedog</p>  <p>Joined: Tue Nov 01, 2011 7:04 pm Posts: 1845 Location: Atlanta, GA, USA</p> <p>Thu Nov 03, 2011 2:48 pm</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>Awesome, thanks for posting this up. Since the valves need checked every 4000 miles according to the manual, doing this yourself saves a lo</p> <hr/> <p>Currently own: 2011 Honda PCX, 1987 Honda Spree, 2003 Honda Silverwing, 2007 Genuine Buddy 125, 2000 KTM 125SX Previously owned: 1998 Honda PC800, 2x 2008 Buddy 125, 2001 Honda Reflex, 1987 Honda Elite, 1988 Honda Spree, 2007 Yamaha Vino, 2007 Honda Metro, 2x 125cc dirt bikes</p> <div data-bbox="344 268 1036 352"> <p>PCX - 2011 Honda PCX</p>   <p>21 fuel-ups ridden by maddiedog</p> <p>95.1 Avg MPG</p> </div> <p>PROFILE PM WWW</p>
<p>gn2</p>  <p>Joined: Tue Dec 06, 2011 7:54 pm Posts: 1404</p> <p>Mon Mar 19, 2012 7:04 am</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>Bit confused about the "gasket sealant"...? What type of sealant to use, exactly where to put it and isn't there a gasket on the valve cover anyway...?</p> <hr/> <p>JCosta, tailors to the Emperor?</p> <div data-bbox="344 598 487 672">  <p>96.3 UK MPG</p> </div> <p>PROFILE PM</p>
<p>edscoot</p> <p>Joined: Fri Nov 11, 2011 3:55 pm Posts: 302 Location: Cumbria, UK</p> <p>Mon Mar 19, 2012 1:13 pm</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>I use liquid gasket/sealer that you can get from Halfords for about a fiver (check it's use by date). You don't need to use much. There is a rub think the sealer is a bit belt and braces. When you remove the cover and gasket you will be able to see where to put the sealer by where the gasket. If you've got a spare Stanley knife blade lying about use it to scrape the old seal off. It all makes sense when you take the valve cove</p> <p>PROFILE PM WWW</p>
<p>gn2</p>  <p>Joined: Tue Dec 06, 2011 7:54 pm Posts: 1404</p> <p>Mon Mar 19, 2012 7:36 pm</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>Cheers edscoot, hopefully I'll suss it out as you suggest.</p> <hr/> <p>JCosta, tailors to the Emperor?</p> <div data-bbox="344 1071 487 1144">  <p>96.3 UK MPG</p> </div> <p>PROFILE PM</p>
<p>Taz</p> <p>Joined: Fri Feb 03, 2012 3:55 pm Posts: 489 Location: Hobart Tasmania Australia</p> <p>Fri Mar 23, 2012 11:00 pm</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>How long does it take to do this, once experienced? My bike is going in for its first service shortly and I wonder whether to ask them to adjust them to adjust my combo brake lever which is too loose. Also I plan to ask if they can do a rear shock upgrade.</p> <p>PROFILE PM</p>
<p>EddieC</p>  <p>Joined: Thu Nov 03, 2011 2:25 pm Posts: 472 Location: Hollywood/Los Angeles CA USA</p> <p>Sat Mar 24, 2012 12:51 am</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>Honda will usually charge you for more labor than what it actually takes, just FYI</p> <p>Now that i know what I'm doing, I can do a full valve adjustment in about an hour and a half. The first time around easily took me twice as lo was being extremely careful learning how to remove the plastics the first time. Also, the combo brake lever is an easy fix, if you're planning yourself.</p> <p>PROFILE PM</p>
<p>stavkostakis</p> <p>Joined: Wed Apr 04, 2012 5:37 am Posts: 1</p> <p>Mon Apr 23, 2012 11:06 am</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>Hello there... Nice job with the pictures. Can i ask if is possible for a copy of this manual???</p> <p>PROFILE PM</p>
<p>EddieC</p>	<p>Re: How to: Valve Adjustment for Honda PCX</p> <p>Hello. I don't have a scanner but if you need help with anything here just ask and I can provide pictures. I'm sure a bunch of other people wo chime in and hey, we all like to help</p>



Joined: Thu Nov 03, 2011
2:25 pm
Posts: 472
Location: Hollywood/Los Angeles CA USA

Mon Apr 23, 2012 11:35 am

[PROFILE](#) [PM](#)

maddiedog



Joined: Tue Nov 01, 2011
7:04 pm
Posts: 1845
Location: Atlanta, GA, USA

Re: How to: Valve Adjustment for Honda PCX

stavkostakis wrote:

Hello there... Nice job with the pictures.
Can i ask if is possible for a copy of this manual???

Unfortunately, the manual is copyrighted. You can easily buy one from Helm Inc, they are the publishers of the manual. Occasionally, they po is no (legal or otherwise) digital copy of the manual.

Specific pages can be posted as reference under fair use (like the pages above), but posting or sharing of the entire manual would be illegal.

Currently own: 2011 Honda PCX, 1987 Honda Spree, 2003 Honda Silverwing, 2007 Genuine Buddy 125, 2000 KTM 125SX

Previously owned: 1998 Honda PC800, 2x 2008 Buddy 125, 2001 Honda Reflex, 1987 Honda Elite, 1988 Honda Spree, 2007 Yamaha Vino, 2007 Honda Metro, 2x 125cc dirt bikes

PCX - 2011 Honda PCX

21 fuel-ups

ridden by maddiedog



95.1

Avg MPG

Mon Apr 23, 2012 1:56 pm

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EddieC



Joined: Thu Nov 03, 2011
2:25 pm
Posts: 472
Location: Hollywood/Los Angeles CA USA

Thu May 24, 2012 12:09 pm

[PROFILE](#) [PM](#)

Re: How to: Valve Adjustment for Honda PCX

did a valve adjustment to a friends brand new PCX. He held off on doing the first valve adjustment until 1200 miles. Both the intake and exha needed adjustment. I just hit 8500 miles myself. I'll prob be doing another valve check on the PCX this sunday and will report back if I need t

Also, told my friend about this site, but I guess he's not one for forums. =]

rainburg



Joined: Sat Nov 05, 2011
10:14 am
Posts: 114
Location: Seattle, WA, USA

Thu May 24, 2012 2:42 pm

[PROFILE](#) [PM](#)

Re: How to: Valve Adjustment for Honda PCX

Quote:

Both the intake and exhaust valves were tight and needed adjustment

How far out of spec were they Eddie? It would be nice to know when people inspect their valves and what they find at different mileages. We our intention is to check them less frequently if we think we can get away with it. So far I don't think I've heard of anyone's being that far out that plan.

2011 Honda PCX, 2007 Suzuki Burgman 400

2 Honda Civics, 5 bicycles and 1 more on order

EddieC



Joined: Thu Nov 03, 2011
2:25 pm
Posts: 472
Location: Hollywood/Los Angeles CA USA

Re: How to: Valve Adjustment for Honda PCX

The intake was about 0.002 inches tight as I could barely squeeze the correct feeler gauge in the gap and the exhaust was about 0.003 inches not get the correct feeler gauge in the gap.

When I did mine the valves were within spec but a little tight at 600 but needed to be adjusted at 2500 miles. At 6000 they were within spec. next adjustment around 9000 miles but will do it a little early just because I have some free time. Then probably not until I have 12,500 mile

I think doing a valve check is very important for the 600 mile and 2500 mile checks, but after that you could probably get away with doing th

How many miles are on your scoot now rainburg? You haven't done a check at all?

Thu May 24, 2012 5:14 pm

[PROFILE](#) [PM](#)**rainburg****Joined:** Sat Nov 05, 2011 10:14 am
Posts: 114
Location: Seattle, WA, USA

Thu May 24, 2012 9:39 pm

[PROFILE](#) [PM](#)**Re: How to: Valve Adjustment for Honda PCX**

Oh no, I guess I'll have to confess that I only have about 650 miles on my PCX. We bought it in September at the start of the rainy season, a much of the cold, rainy winter. I took it out every week or two for an errand run, but that was about it for much of winter. We've done the first were planning to wait until around 1,000-1,200 miles for the valve check. Then perhaps every 4,000 miles if we think that it isn't too risky.

2011 Honda PCX, 2007 Suzuki Burgman 400
2 Honda Civics, 5 bicycles and 1 more on order**EddieC****Joined:** Thu Nov 03, 2011 2:25 pm
Posts: 472
Location: Hollywood/Los Angeles CA USA

Fri May 25, 2012 12:32 am

[PROFILE](#) [PM](#)**Re: How to: Valve Adjustment for Honda PCX**

That oil change is definitely the most important thing to do at 600 miles, so good job there. I take it you cleaned the oil filter too? I think you the initial valve adjustment but try to get it done more around 1000 miles. My friends was OUT of spec (no good) at 1200 miles. If he went possibly done some damage to the engine. After your first check, I would still do the second after an additional 2500 miles. For the third fourth would be fine checking every 4000 miles.

There is actually a third PCX that I have done valve checks on. On that third PCX we never needed to make an adjustment at the 600, 2500, owner sticks to his maintenance schedule and so far has never needed to touch the valve adjusters. But the only way you can know for sure is look. it's sad but true. Once you have done it once it's super easy the next time around, and doesn't cost you a dime if you plan on doing it y

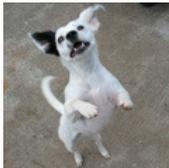
rainburg**Joined:** Sat Nov 05, 2011 10:14 am
Posts: 114
Location: Seattle, WA, USA

Fri May 25, 2012 9:12 am

[PROFILE](#) [PM](#)**Re: How to: Valve Adjustment for Honda PCX**

Thanks Eddie for all the information! We did clean the oil filter, although there really wasn't anything noticeable on it. It all looked very clean.

Just out of curiosity, has anyone else found that the valves were out of spec? If so, at what mileage and when had the previous check/adjust

2011 Honda PCX, 2007 Suzuki Burgman 400
2 Honda Civics, 5 bicycles and 1 more on order**maddiedog****Joined:** Tue Nov 01, 2011 7:04 pm
Posts: 1845
Location: Atlanta, GA, USA

Mon May 28, 2012 6:16 pm

[PROFILE](#) [PM](#) [WWW](#)**Re: How to: Valve Adjustment for Honda PCX**

Mine were out straight from the factory, at first service. They've been behaving since, though.

The tolerances for the valves on the PCX are HUGE, so you don't have much to worry about unless you hear clicking. 😊

Currently own: 2011 Honda PCX, 1987 Honda Spree, 2003 Honda Silverwing, 2007 Genuine Buddy 125, 2000 KTM 125SX
Previously owned: 1998 Honda PC800, 2x 2008 Buddy 125, 2001 Honda Reflex, 1987 Honda Elite, 1988 Honda Spree, 2007 Yamaha Vino, 2007 Honda Metro, 2x 125cc dirt bikesPCX - 2011 Honda PCX
21 fuel-ups
ridden by maddiedog95.1
Avg MPG**C-Note****Joined:** Fri May 18, 2012 1:27 pm
Posts: 63
Location: Yorkville, IL USA

Thu May 31, 2012 3:41 pm

[PROFILE](#) [PM](#)**Re: How to: Valve Adjustment for Honda PCX**

Anyone know how to get a service manual that has these procedures?

Bad Motor Scooter - 2011 Honda PCX
10 fuel-ups
ridden by Tadd92.7
Avg MPG**maddiedog****Re: How to: Valve Adjustment for Honda PCX**

Helm is the publisher for the official Honda Service Manual, I think. You can buy it here: [http://www.helminc.com/helm/product2.as ... itemy](http://www.helminc.com/helm/product2.as...itemy)

Small snippets like these are considered "fair use." If you want any sections uploaded to help you with miscellaneous tasks, you can ask and send picture or two from their manual. I have a manual, Eddie has a manual, and I think a few others have access to one as well.

Currently own: 2011 Honda PCX, 1987 Honda Spree, 2003 Honda Silverwing, 2007 Genuine Buddy 125, 2000 KTM 125SX
Previously owned: 1998 Honda PC800, 2x 2008 Buddy 125, 2001 Honda Reflex, 1987 Honda Elite, 1988 Honda Spree, 2007 Yamaha Vino, 2007 Honda Metro, 2x 125cc dirt bikes

Joined: Tue Nov 01, 2011
7:04 pm
Posts: 1845
Location: Atlanta, GA, USA

PCX - 2011 Honda PCX
21 fuel-ups
ridden by maddiedog



95.1
Avg MPG

Thu May 31, 2012 5:24 pm

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EddieC



Joined: Thu Nov 03, 2011
2:25 pm
Posts: 472
Location: Hollywood/Los Angeles CA USA

Re: How to: Valve Adjustment for Honda PCX

Just did another valve check this morning. I waited about 4300 miles since my last one. Everything was exactly in spec and didn't need to be people will be fine doing the valve adjustment every 5000 miles. However, I would still be sure to do the first two on schedule (600 mile and the engine seeing that thats when both my friend and myself needed adjustments.

Sat Jul 28, 2012 6:51 pm

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