

# PCX

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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.

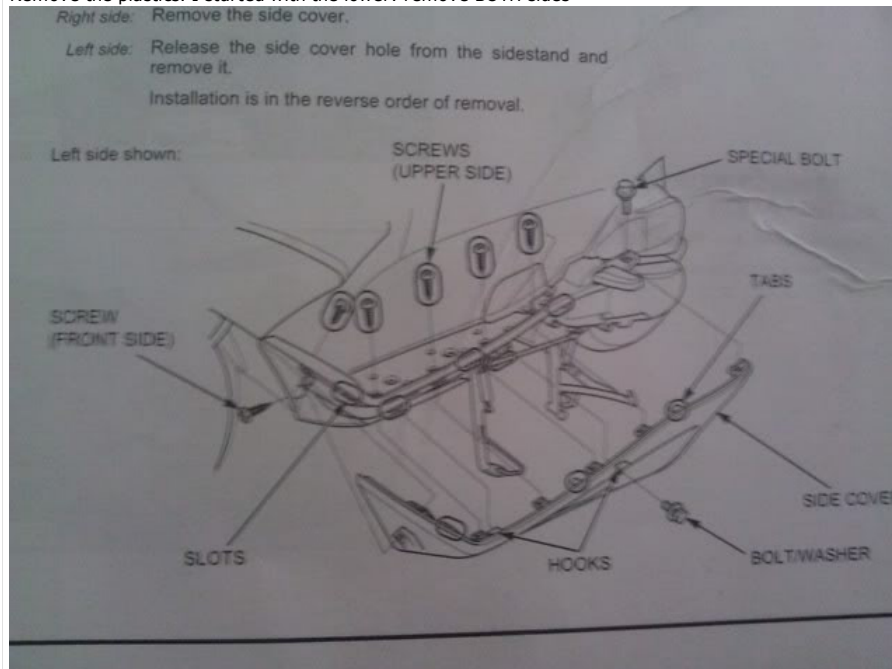
Tools needed. Plastic removing tools, feeler gauges, 8,9,10,12,22mm open end wrenches, 8,10,12mm sockets with extension, phillips head s

**maddiedog wrote:**

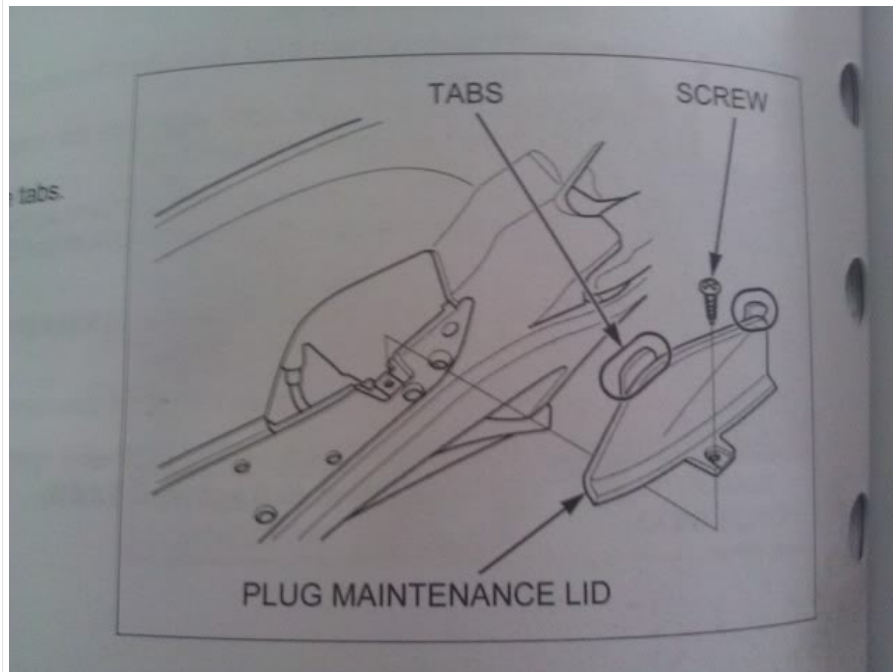
Your bike must be cold when doing a valve adjustment. You should wait at least 4 or 5 hours since it has been on last. If you do not, you ma clearances too tight, since the metal expands slightly when hot.

Some people even like to wait overnight (like me)

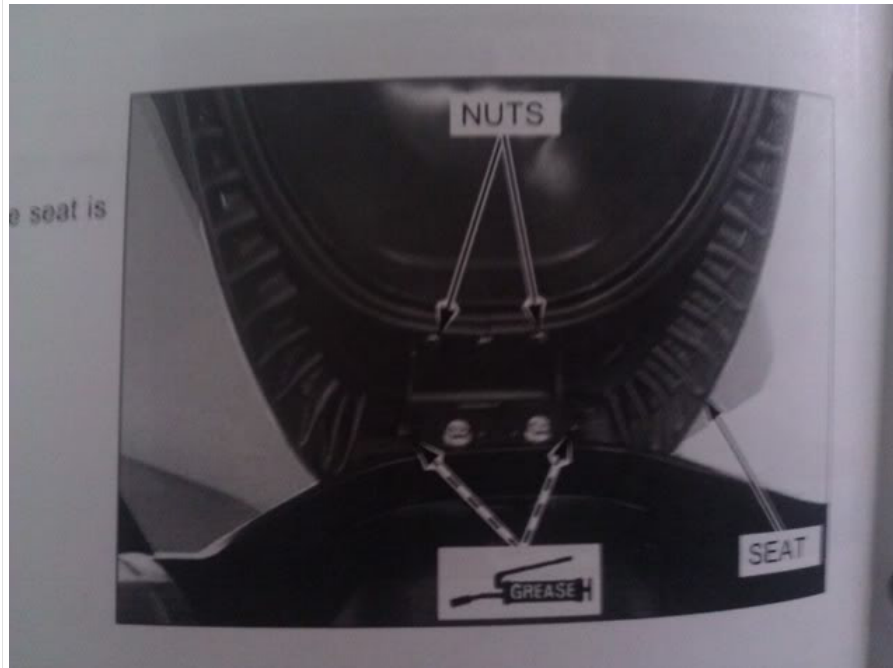
Remove the plastics. I started with the lower: remove BOTH sides



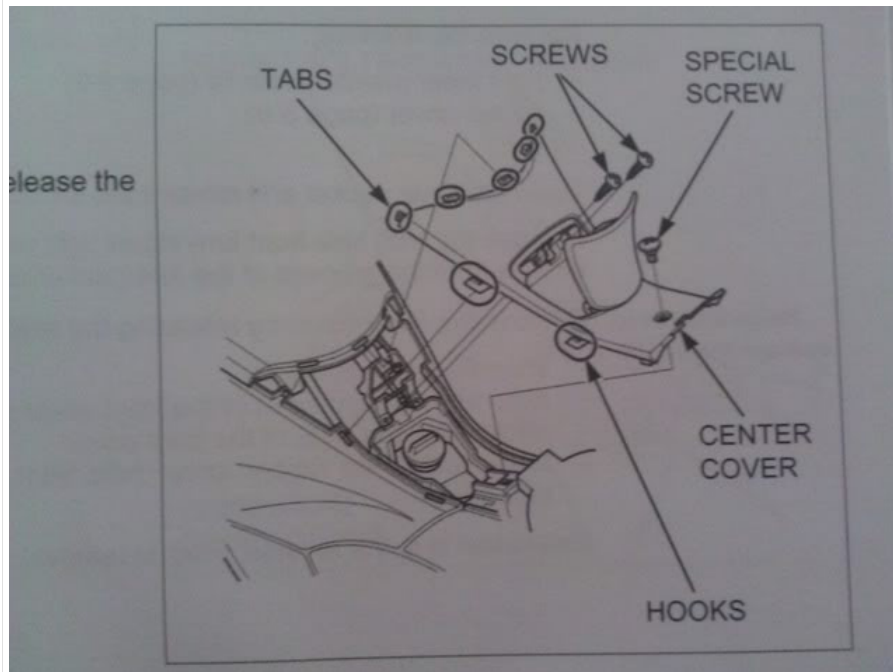
dont forget!



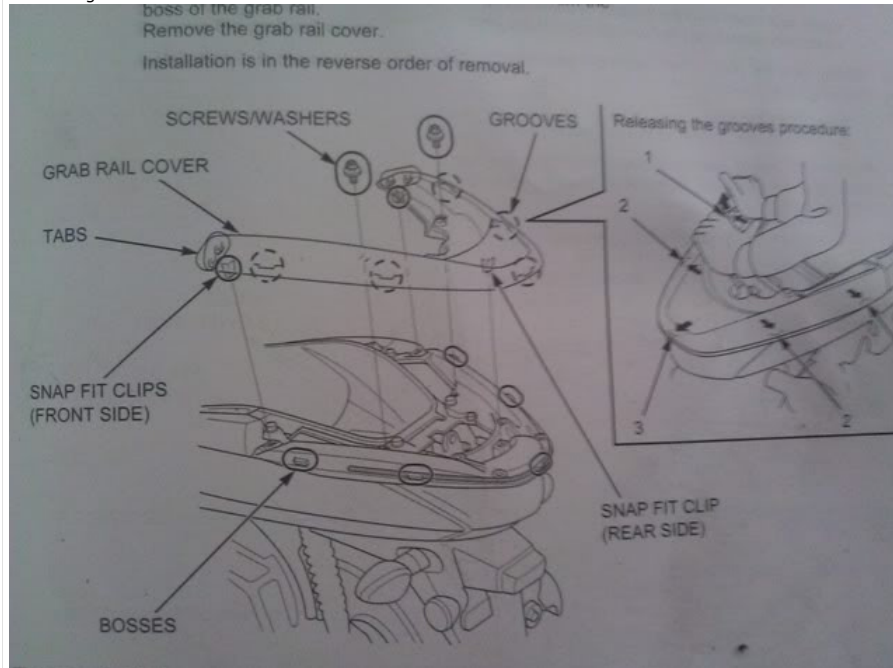
then the seat:



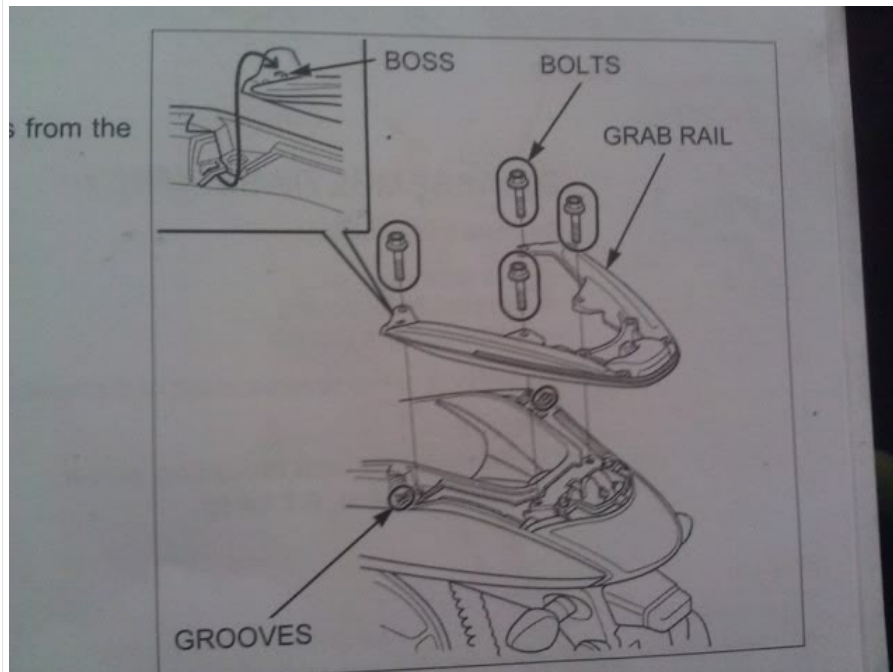
then the center cover:



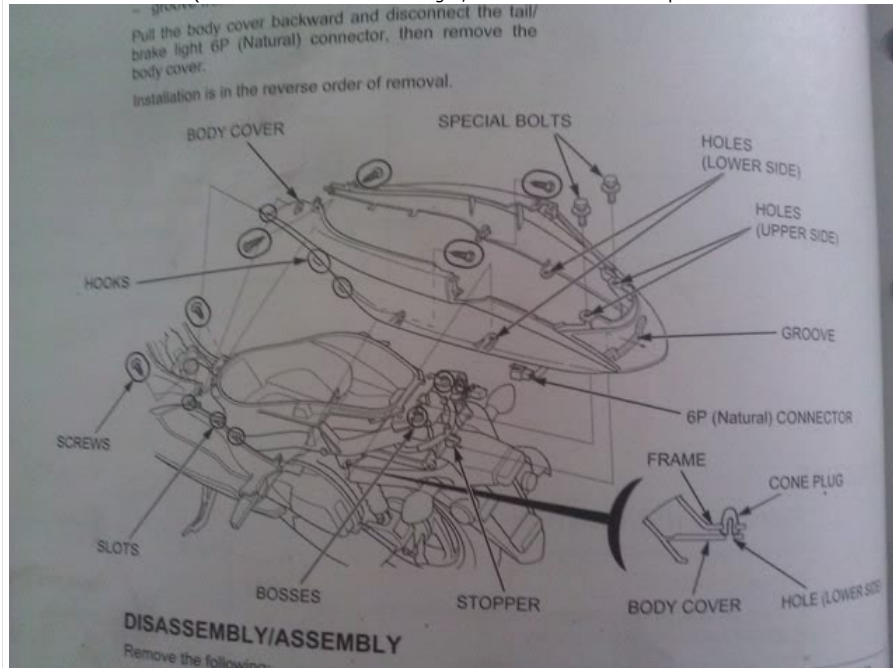
then the grab rail cover:



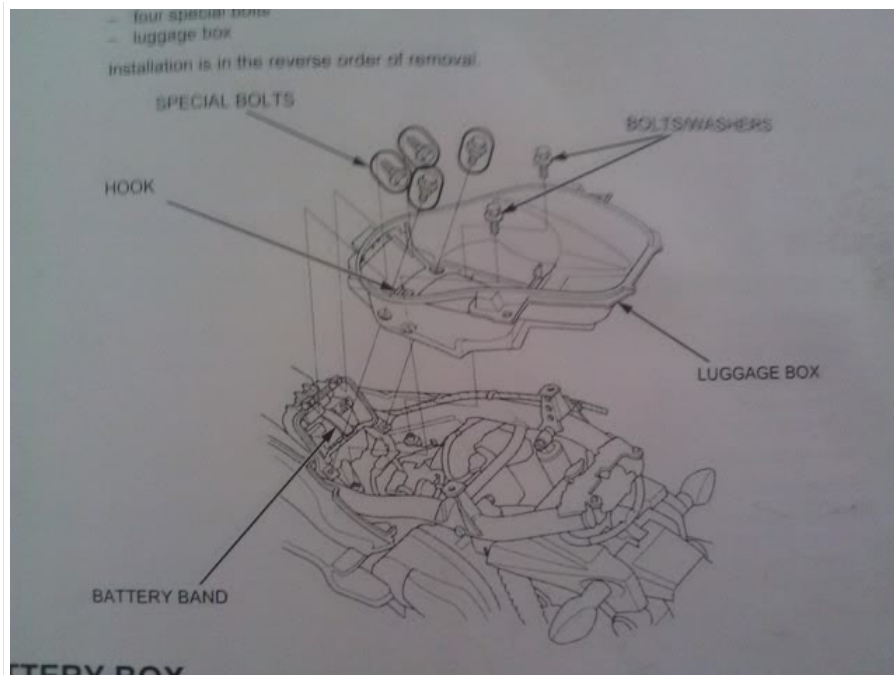
then the grab rail:



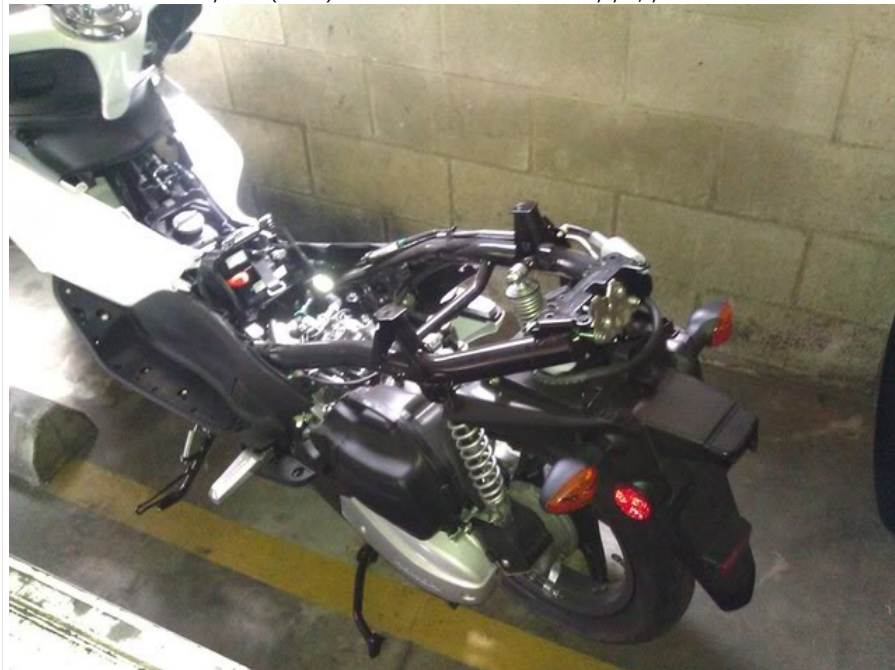
then the side covers: (no need to remove the taillight, will all come off in one piece)



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:



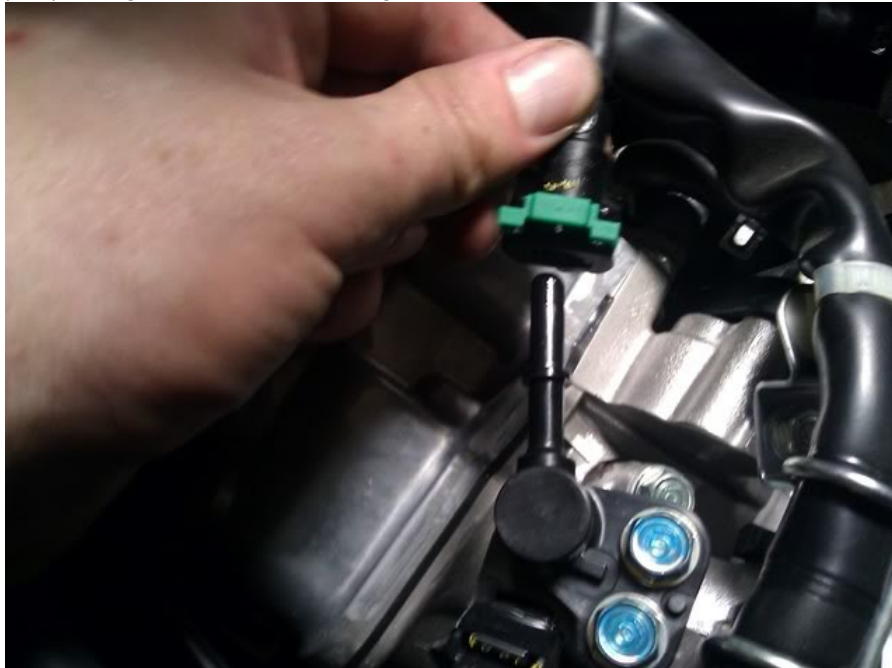


then relieve the fuel pressure. turn ignition on and press the starter for 5 seconds. After that, remove the fuel line, fuel line clamp bolt, and th





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





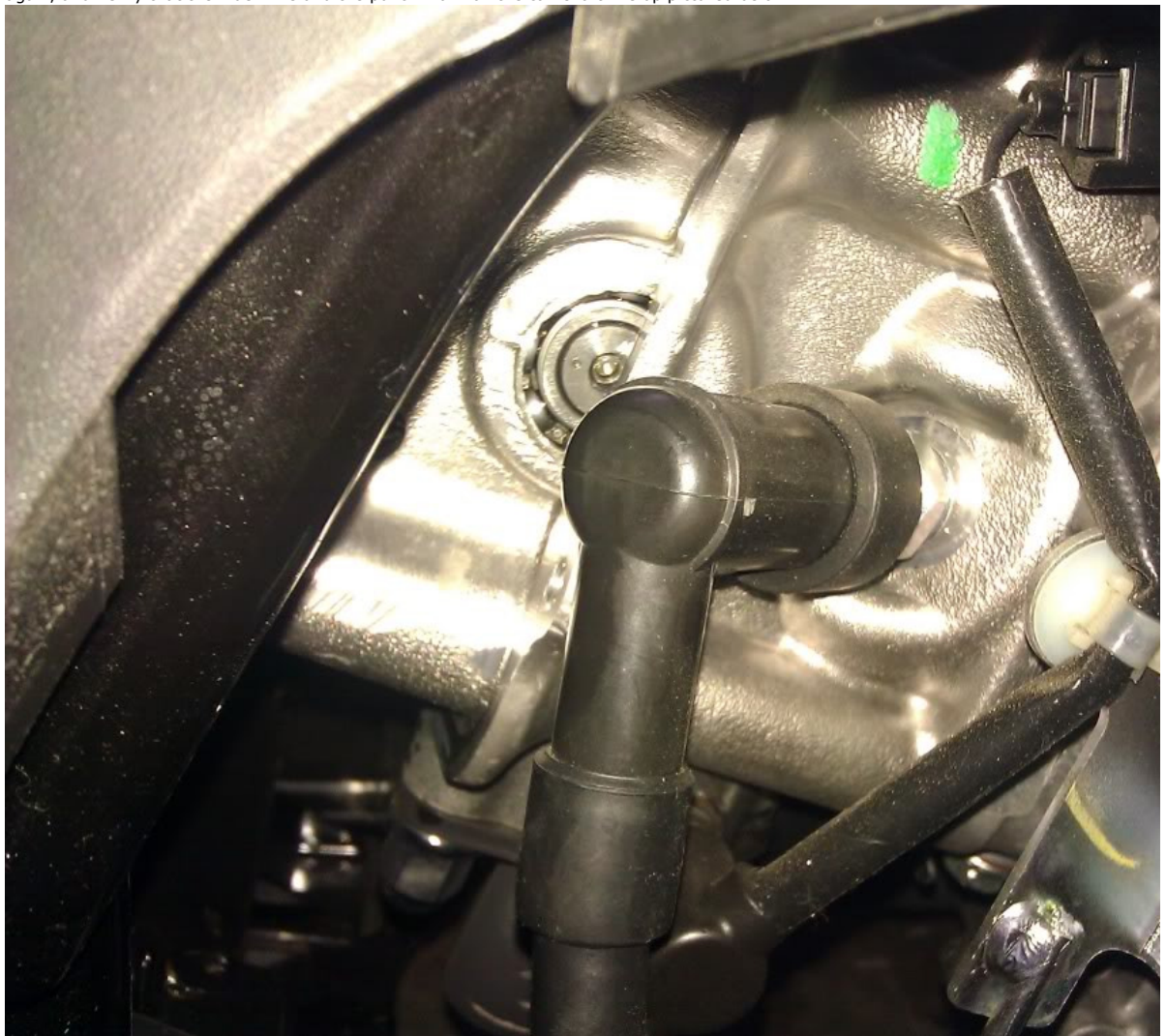
Remove the right side radiator cover (3 bolts) and remove the 4 bolts holding the radiator on to expose the fan. Do not disconnect any hoses



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



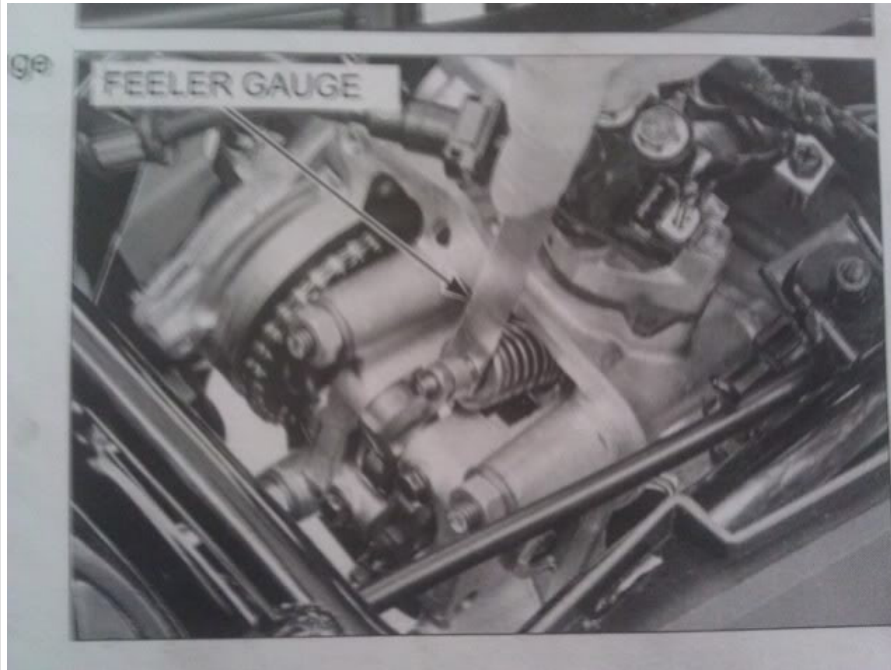
if it feels like its not moving then you will need to spin the crankshaft a full 360 degrees to be at top dead center. Verify that the index mark a again, and verify that the index line and the punch mark on the camshaft line up pictured below:



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)



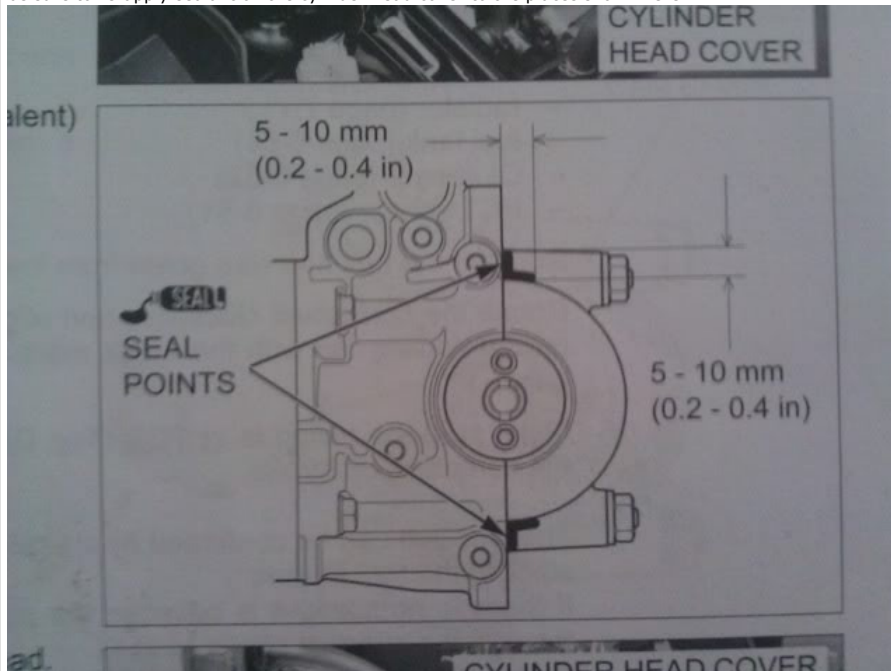
**Quote:**

If the valve clearance is incorrect, loosen the valve adjusting screw lock nut and adjust the valve clearance by turning the adjusting screw up or down 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.

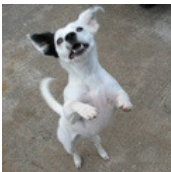


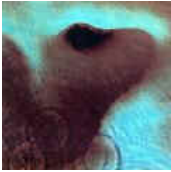



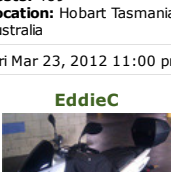

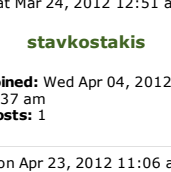



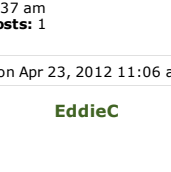

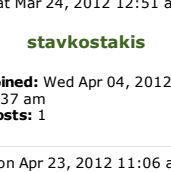

be sure to re-apply sealant on the cylinder head cover to the places shown here:



Hope this helps! 😊

Thu Nov 03, 2011 2:35 pm

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<div> <div>maddiedog</div> <div>  </div> <div> <b>Joined:</b> Tue Nov 01, 2011 7:04 pm  <b>Posts:</b> 1845  <b>Location:</b> Atlanta, GA, USA         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <p>Awesome, thanks for posting this up. Since the valves need checked every 4000 miles according to the manual, doing this yourself saves a lot of money.</p> </div> <div> <hr/> <p><b>Currently own:</b> 2011 Honda PCX, 1987 Honda Spree, 2003 Honda Silverwing, 2007 Genuine Buddy 125, 2000 KTM 125SX  <b>Previously owned:</b> 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> <div> <div> <div>PCX - 2011 Honda PCX</div> <div> <div>21 fuel-ups</div> <div>ridden by maddiedog</div> </div> <div>   <div> <div>95.1</div> <div>Avg MPG</div> </div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> <div>WUUU</div> </div> </div>
<div> <div>gn2</div> <div>  </div> <div> <b>Joined:</b> Tue Dec 06, 2011 7:54 pm  <b>Posts:</b> 1404         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <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> </div> <div> <hr/> <p>JCosta, tailors to the Emperor?</p> </div> <div> <div>  <div> <div>96.3</div> <div>UK MPG</div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> </div> </div>
<div> <div>edscoot</div> <div>  </div> <div> <b>Joined:</b> Fri Nov 11, 2011 3:55 pm  <b>Posts:</b> 302  <b>Location:</b> Cumbria, UK         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <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 cover off.</p> </div> <div> <hr/> <p>JCosta, tailors to the Emperor?</p> </div> <div> <div>  <div> <div>96.3</div> <div>UK MPG</div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> <div>WUUU</div> </div> </div>
<div> <div>gn2</div> <div>  </div> <div> <b>Joined:</b> Tue Dec 06, 2011 7:54 pm  <b>Posts:</b> 1404         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <p>Cheers edscoot, hopefully I'll suss it out as you suggest.</p> </div> <div> <hr/> <p>JCosta, tailors to the Emperor?</p> </div> <div> <div>  <div> <div>96.3</div> <div>UK MPG</div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> </div> </div>
<div> <div>Taz</div> <div>  </div> <div> <b>Joined:</b> Fri Feb 03, 2012 3:55 pm  <b>Posts:</b> 489  <b>Location:</b> Hobart Tasmania Australia         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <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 the valves or just have them adjust the rest of the bike. Also I plan to ask if they can do a rear shock upgrade.</p> </div> <div> <hr/> <p>JCosta, tailors to the Emperor?</p> </div> <div> <div>  <div> <div>96.3</div> <div>UK MPG</div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> </div> </div>
<div> <div>EddieC</div> <div>  </div> <div> <b>Joined:</b> Thu Nov 03, 2011 2:25 pm  <b>Posts:</b> 472  <b>Location:</b> Hollywood/Los Angeles CA USA         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <p>Honda will usually charge you for more labor than what it actually takes, just FYI</p> </div> <div> <hr/> <p>JCosta, tailors to the Emperor?</p> </div> <div> <div>  <div> <div>96.3</div> <div>UK MPG</div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> </div> </div>
<div> <div>stavkostakis</div> <div>  </div> <div> <b>Joined:</b> Wed Apr 04, 2012 5:37 am  <b>Posts:</b> 1         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <p>Hello there... Nice job with the pictures.            Can i ask if is possible for a copy of this manual???</p> </div> <div> <hr/> <p>JCosta, tailors to the Emperor?</p> </div> <div> <div>  <div> <div>96.3</div> <div>UK MPG</div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> </div> </div>
<div> <div>EddieC</div> <div>  </div> <div> <b>Joined:</b> Thu Nov 03, 2011 2:25 pm  <b>Posts:</b> 472  <b>Location:</b> Hollywood/Los Angeles CA USA         </div> </div>	<div> <div>           • <b>Re: How to: Valve Adjustment for Honda PCX</b> </div> <div> <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 will chime in and hey, we all like to help</p> </div> <div> <hr/> <p>JCosta, tailors to the Emperor?</p> </div> <div> <div>  <div> <div>96.3</div> <div>UK MPG</div> </div> </div> </div> <div> <div>PROFILE</div> <div>PM</div> </div> </div>



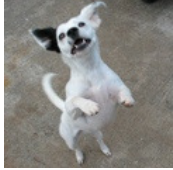


**Joined:** Thu Nov 03, 2011  
2:25 pm  
**Posts:** 472  
**Location:** Hollywood/Los  
Angeles CA USA

Mon Apr 23, 2012 11:35 am

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#### 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

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#### 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

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#### 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	<a href="#">PROFILE</a> <a href="#">PM</a>
<div><b>rainburg</b> </div> <div><b>Joined:</b> Sat Nov 05, 2011 10:14 am <b>Posts:</b> 114 <b>Location:</b> Seattle, WA, USA</div>	<div><b>Re: How to: Valve Adjustment for Honda PCX</b> 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 valve adjustment. We 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.</div> <div><b>2011 Honda PCX, 2007 Suzuki Burgman 400</b> 2 Honda Civics, 5 bicycles and 1 more on order</div> <div><a href="#">PROFILE</a> <a href="#">PM</a></div>
Thu May 24, 2012 9:39 pm	<a href="#">PROFILE</a> <a href="#">PM</a>
<div><b>EddieC</b> </div> <div><b>Joined:</b> Thu Nov 03, 2011 2:25 pm <b>Posts:</b> 472 <b>Location:</b> Hollywood/Los Angeles CA USA</div>	<div><b>Re: How to: Valve Adjustment for Honda PCX</b> 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 did 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 on the second check, it would possibly do 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.</div> <div>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, or 4000 mile 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 to 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 yourself.</div>
Fri May 25, 2012 12:32 am	<a href="#">PROFILE</a> <a href="#">PM</a>
<div><b>rainburg</b> </div> <div><b>Joined:</b> Sat Nov 05, 2011 10:14 am <b>Posts:</b> 114 <b>Location:</b> Seattle, WA, USA</div>	<div><b>Re: How to: Valve Adjustment for Honda PCX</b> 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.</div> <div>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/adjustment?</div> <div><b>2011 Honda PCX, 2007 Suzuki Burgman 400</b> 2 Honda Civics, 5 bicycles and 1 more on order</div>
Fri May 25, 2012 9:12 am	<a href="#">PROFILE</a> <a href="#">PM</a>
<div><b>maddiedog</b> </div> <div><b>Joined:</b> Tue Nov 01, 2011 7:04 pm <b>Posts:</b> 1845 <b>Location:</b> Atlanta, GA, USA</div>	<div><b>Re: How to: Valve Adjustment for Honda PCX</b> Mine were out straight from the factory, at first service. They've been behaving since, though.</div> <div>The tolerances for the valves on the PCX are HUGE, so you don't have much to worry about unless you hear clicking. 😊</div> <div><b>Currently own:</b> 2011 Honda PCX, 1987 Honda Spree, 2003 Honda Silverwing, 2007 Genuine Buddy 125, 2000 KTM 125SX <b>Previously owned:</b> 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</div> <div><div>PCX - 2011 Honda PCX 21 fuel-ups ridden by maddiedog</div><div></div><div>95.1 Avg MPG</div></div>
Mon May 28, 2012 6:16 pm	<a href="#">PROFILE</a> <a href="#">PM</a> <a href="#">WWW</a>
<div><b>C-Note</b> <b>Joined:</b> Fri May 18, 2012 1:27 pm <b>Posts:</b> 63 <b>Location:</b> Yorkville, IL USA</div>	<div><b>Re: How to: Valve Adjustment for Honda PCX</b> Anyone know how to get a service manual that has these procedures?</div> <div><div>Bad Motor Scooter - 2011 Honda PCX 10 fuel-ups ridden by Tadd</div><div></div><div>92.7 Avg MPG</div></div>
Thu May 31, 2012 3:41 pm	<a href="#">PROFILE</a> <a href="#">PM</a>
<div><b>maddiedog</b> </div>	<div><b>Re: How to: Valve Adjustment for Honda PCX</b> Helm is the publisher for the official Honda Service Manual, I think. You can buy it here: <a href="http://www.helminc.com/helm/product2.asp?item=1">http://www.helminc.com/helm/product2.asp?item=1</a></div> <div>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 a 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.</div> <div><b>Currently own:</b> 2011 Honda PCX, 1987 Honda Spree, 2003 Honda Silverwing, 2007 Genuine Buddy 125, 2000 KTM 125SX <b>Previously owned:</b> 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</div>

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**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

Sat Jul 28, 2012 6:51 pm

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• **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.

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