



**HONDA**

**ADV 160/A-P**





## TORQUE VALUE

- Each fastener should be tightened to the standard torque value except the fasteners specified torque value.
- Q'TY: Quantity, DIA: Thread diameter (mm), TRQ: Tightening torque (N·m)

### STANDARD TIGHTENING TORQUE

FASTENER TYPE	TRQ	FASTENER TYPE	TRQ
5 mm hex bolt and nut	5.2	5 mm screw	4.2
6 mm hex bolt and nut	10	6 mm screw	9.0
8 mm hex bolt and nut	22	6 mm flange bolt	12
10 mm hex bolt and nut	34	8 mm flange bolt and nut	27
12 mm hex bolt and nut	54	10 mm flange bolt and nut	39

### FUEL PUMP UNIT

ITEM	Q'TY	DIA	TRQ	REMARKS
Fuel pump unit set plate nut	4	6	12	→2-4

### AIR CLEANER

ITEM	Q'TY	DIA	TRQ	REMARKS
Air cleaner housing cover screw	8	5	1.1	
Air cleaner duct cover screw	3	4	0.79	

### THROTTLE BODY

ITEM	Q'TY	DIA	TRQ	REMARKS
Insulator band bolt	2	5	5.0	
Sensor unit screw	2	4	2.1	
IACV screw	3	4	2.1	
Throttle cable bracket screw	1	5	3.4	
Throttle cable lock nut (Throttle body side)	2	8	8.0	

### LUBRICATION SYSTEM

ITEM	Q'TY	DIA	TRQ	REMARKS
Engine oil drain bolt	1	12	24	
Engine oil strainer screen cap	1	30	20	
Oil pump bolt	2	6	10	

### COOLING SYSTEM

ITEM	Q'TY	DIA	TRQ	REMARKS
Radiator cap	1	-	-	→2-18
Radiator drain bolt	1	10	1.0	
Radiator cover bolt	3	6	6.0	
Radiator mounting bolt	4	6	10	

### CYLINDER HEAD

ITEM	Q'TY	DIA	TRQ	REMARKS
Valve adjusting screw lock nut	4	5	10	Apply engine oil to the thread seating surface.
Cam sprocket bolt	2	5	8.0	Apply engine oil to the thread seating surface.
Camshaft stopper bolt	1	6	10	
Rocker arm shaft bolt	2	5	5.0	Apply engine oil to the thread seating surface.
Cylinder head nut	4	8	30	Apply engine oil to the thread seating surface.

### CYLINDER/PISTON

ITEM	Q'TY	DIA	TRQ	REMARKS
Cylinder stud bolt	4	8	-	→2-29





### GENERAL INFORMATION

#### DRIVETRAIN

ITEM	QTY	DIA	TRQ	REMARKS
Drive pulley face nut	1	14	59	Apply engine oil to the threads seating surface.
Clutch outer nut	1	12	49	
Clutch/driven pulley nut	1	28	54	

#### FINAL REDUCTION CASE

ITEM	QTY	DIA	TRQ	REMARKS
Final reduction oil drain bolt	1	8	23	
Final reduction oil check bolt	1	8	23	
Final reduction case bolt	6	8	23	

#### ALTERNATOR/STARTER

ITEM	QTY	DIA	TRQ	REMARKS
Cooling fan mounting bolt	3	6	8.5	
Flywheel nut	1	12	69	
Stator mounting bolt	3	6	10	
Stator mounting socket bolt	1	6	10	

#### CRANKCASE/CRANKSHAFT

ITEM	QTY	DIA	TRQ	REMARKS
Engine top cover bolt	2	6	10	
Left crankshaft bearing set plate bolt	2	6	12	Apply locking agent to the threads. Coating width: 6.5 ± 1.0 mm except 2.0 ± 1.0 mm from tip
Piston oil jet bolt	1	6	10	Apply locking agent to the threads. Coating width: 6.5 ± 1.0 mm except 2.5 ± 0.5 mm from tip → 2-38

#### ENGINE UNIT

ITEM	QTY	DIA	TRQ	REMARKS
Engine hanger link pivot nut	1	10	69	Self lock nut
Engine hanger link bolt	2	10	59	
Brake hose clamp bolt	2	6	12	Replace with a new one.
Shock absorber lower mounting bolt	2	8	24	
Rear brake caliper mounting bolt	2	8	30	Replace with a new one.

#### BODY PANELS

ITEM	QTY	DIA	TRQ	REMARKS
Rearview mirror lock nut	2	10	34	Left-hand threads
Rearview mirror adaptor	2	10	34	
Upper inner garnish bolt	2	5	4.2	
Front fender bolt	4	6	12	
Floor garnish bolt	2	5	4.2	
Windscreen bolt	4	5	1.0	
Combination meter mounting screw	4	5	1.0	
Luggage box bolt	5	6	5.2	
Rear center lower cover bolt	4	5	4.2	
Rear inner fender bolt (Engine side)	2	6	10	
Rear inner fender bolt (Air cleaner side)	1	6	3.5	

#### SIDESTAND

ITEM	QTY	DIA	TRQ	REMARKS
Sidestand pivot bolt	1	10	10	
Sidestand pivot nut	1	10	29	Tighten while holding the pivot bolt.
Sidestand switch bolt	1	6	10	Replace with a new one.



**MUFFLER**

ITEM	Q'TY	DIA	TRQ	REMARKS
Exhaust pipe stud bolt	2	7	-	→ 3-34
Exhaust pipe joint nut	2	7	29	
Muffler mounting bolt	3	10	49	
Muffler cover bolt	3	6	10	
Muffler tail cap bolt	3	6	10	
Muffler protector bolt	1	6	10	

**FRONT WHEEL**

ITEM	Q'TY	DIA	TRQ	REMARKS
Axle nut	1	12	59	Self lock nut
Brake disc bolt	6	6	20	Replace with a new one.
Pulser ring bolt (ADV160A)	3	5	7.0	Replace with a new one.

**FORK**

ITEM	Q'TY	DIA	TRQ	REMARKS
Fork pinch bolt	4	10	49	
Fork socket bolt	2	8	20	Apply locking agent to the threads.

**HANDLEBAR**

ITEM	Q'TY	DIA	TRQ	REMARKS
Handlebar switch housing screw	4	5	2.5	
Handlebar upper holder bolt	4	8	27	
Handlebar lower holder nut	2	10	44	Self lock nut
Handlebar post nut	1	10	39	Self lock nut
Throttle cable A lock nut (Grip side)	1	10	1.5	
Throttle cable B lock nut (Grip side)	1	10	1.5	
Throttle cable A adjust nut	1	7	3.8	

**STEERING STEM**

ITEM	Q'TY	DIA	TRQ	REMARKS
Steering stem top thread	1	26	-	
Steering stem lock nut	1	26	74	

**REAR WHEEL**

ITEM	Q'TY	DIA	TRQ	REMARKS
Axle nut	1	16	118	Self lock nut Apply engine oil to the thread seating surface.
Brake disc bolt	4	8	42	Replace with a new one.

**REAR SUSPENSION**

ITEM	Q'TY	DIA	TRQ	REMARKS
Shock absorber upper mounting bolt	2	10	39	

**CBS**

ITEM	Q'TY	DIA	TRQ	REMARKS
Brake hose oil bolt	2	10	34	
Brake pipe joint nut	1	10	14	





### GENERAL INFORMATION

FRONT BRAKE				REMARKS
ITEM	Q'TY	DIA	TRQ	
Front brake master cylinder reservoir cap	2	4	1.5	
screw	1	6	1.0	
Front brake lever pivot bolt	1	6	6.0	
Front brake lever pivot nut	1	4	1.0	
Front brake light switch screw	2	6	12	
Front brake master cylinder holder bolt	2	8	5.4	
Front brake caliper bleed valve	1	8	5.4	
	1	10	17	
Front brake pad pin	2	8	30	Replace with a new one.
Front brake caliper mounting bolt	2	8	17	
Front brake caliper bracket pin	1	8	17	
Front brake hose oil bolt	3	10	34	
	2	10	34	

REAR BRAKE				REMARKS
ITEM	Q'TY	DIA	TRQ	
Rear brake master cylinder reservoir cap	2	4	1.5	
screw	1	6	1.0	
Rear brake lever pivot bolt	1	6	6.0	
Rear brake lever pivot nut	1	4	1.0	
Rear brake light switch screw	2	6	12	
Rear brake master cylinder holder bolt	2	6	5.4	
Rear brake caliper bleed valve	1	8	22	
Rear brake caliper sub slide pin bolt	1	8	22	
Rear brake hose oil bolt	2	10	34	

PGM-FI SYSTEM				REMARKS
ITEM	Q'TY	DIA	TRQ	
ECT sensor mounting bolt	1	6	10	
O <sub>2</sub> sensor	1	12	25	

IGNITION SYSTEM				REMARKS
ITEM	Q'TY	DIA	TRQ	
Spark plug	1	10	16	

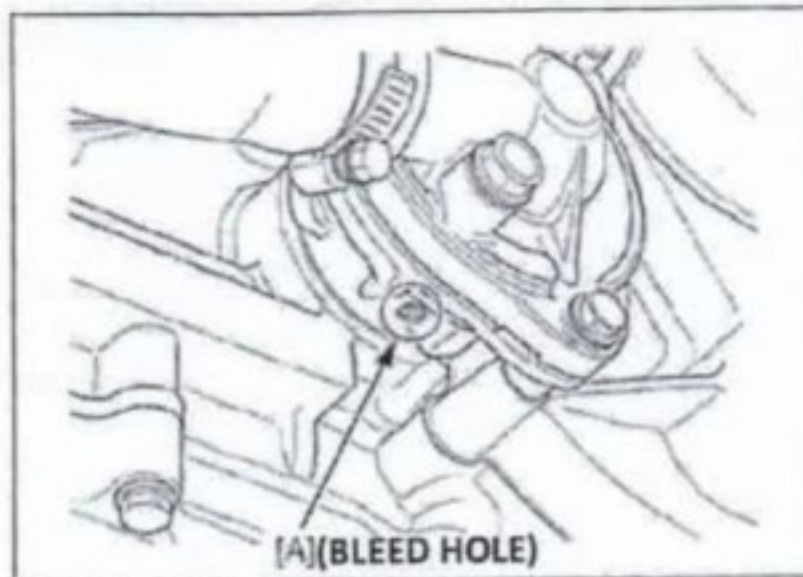
ABS				REMARKS
ITEM	Q'TY	DIA	TRQ	
Brake hose oil bolt (ADV160A)	2	10	34	
Modulator stay bolt (ADV160A)	2	6	10	
Front wheel speed sensor bolt (ADV160A)	1	6	11.9	Replace with a new one.


COMBINATION METER				REMARKS
ITEM	Q'TY	DIA	TRQ	
VS sensor protector bolt	2	6	10	Apply locking agent to the threads. Coating width: 6.5 ± 1.0 mm except 2.0 ± 1.0 mm from tip
VS sensor mounting bolt	1	6	10	
Combination meter screw	5	3	1.0	

LIGHTING SYSTEM				REMARKS
ITEM	Q'TY	DIA	TRQ	
Reflector nut	1	5	1.5	
License light screw	2	4	1.2	



## WATER PUMP DURING OPERATION



-  Check Bleed hole [A] of the water pump assy. for signs of coolant leakage.
- Make sure there is no continuous coolant leakage from the bleed hole while operating the engine.
- A small amount of weeping from the bleed hole is normal.

*Refer to: BASIC SHOP MANUAL (Page 3-23)*

### CHECKING GUIDE FOR WATER PUMP ASSY.:

CHECKING POINTS	GOOD CONDITION	NO GOOD CONDITION
Water Pump Bleed Hole	Coolant Weep/Moist/Mark	Continuous coolant leakage
Reserve Tank Condition	Within Standard Level	- Below standard level

Should you have any clarifications and technical concerns please feel free to contact your assigned HPI Field Service Engineer or reach out to our Customer Relations team/Service Helpdesk.





# Service Bulletin

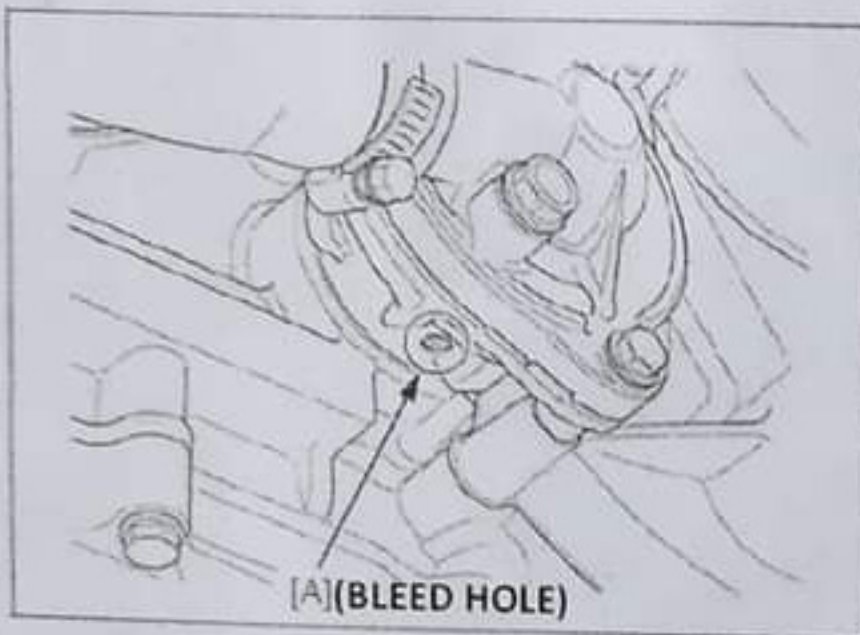
The Official Communication of Honda Philippines Inc.'s  
Customer Service Operations


Honda Philippines, Inc.  
Head Office & Manufacturing Plant  
Lot 34 Phase 1-B, Road 3  
First Philippine Industrial Park  
Tanauan City, 4234 Batangas  
Tel Nos. (632) 581-6700 to 99  
(632) 756-7300 to 59  
E-mail: [webmaster@hondaph.com](mailto:webmaster@hondaph.com)  
Website: [www.hondaph.com](http://www.hondaph.com)

TO : ALL DEALERS  
SUBJECT : Technical Information on Water Pump Assy. for all Liquid Cooled Models  
DATE : April 8, 2022  
REF NO. : CSOB-22-006  
CC : File

Recently, we are receiving a number of inquiries on how to determine the coolant leakage on the **Water Pump Assembly** for liquid cooled models. With this, we would like to give you some "SERVICE TIPS" on how to confirm the coolant leakage.

## WATER PUMP DURING OPERATION



-  Check Bleed hole [A] of the water pump assy. for signs of coolant leakage.
- Make sure there is no continuous coolant leakage from the bleed hole while operating the engine.
- A small amount of weeping from the bleed hole is normal.

Refer to: *BASIC SHOP MANUAL (Page 3-23)*


### CHECKING GUIDE FOR WATER PUMP ASSY.:


CHECKING POINTS	GOOD CONDITION	NO GOOD CONDITION
Water Pump Bleed Hole	Coolant Weep/Moist/Mark	Continuous coolant leakage
Reserve Tank Condition	Within Standard Level	Below standard level

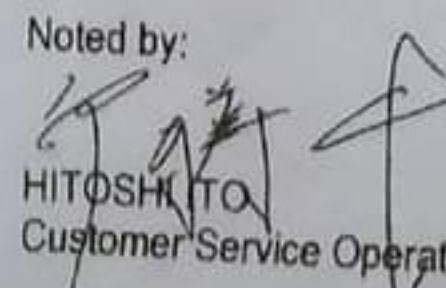
Should you have any clarifications and technical concerns please feel free to contact your assigned HPI Field Service Engineer or reach out to our Customer Relations team/Service Helpdesk.

Thank you very much and we look forward to your support and cooperation.

In Service,

  
CYRUS PAGARAN  
Section Manager, Service Section 1

  
NOLI MINOR JR.  
Section Manager, Service Section 2

Noted by:  
  
HITOSHI ITO  
Customer Service Operations, AVP



## COOLING SYSTEM

### WATER PUMP

#### MECHANICAL SEAL INSPECTION

Check the bleed hole [1] of the water pump for signs of coolant leakage.

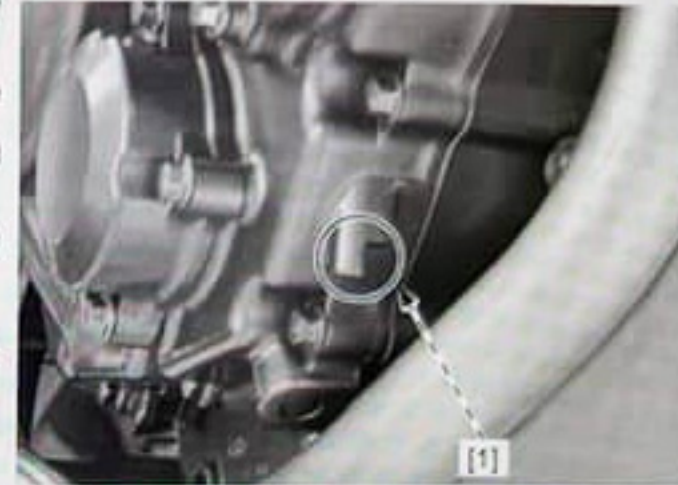
If water leaks through the bleed hole, replace the mechanical seal (page 9-9).

If oil leaks through the bleed hole, replace the oil seal (page 9-9).

Make sure that there are no continuous coolant leakage from the bleed hole while operating the engine.

#### NOTE:

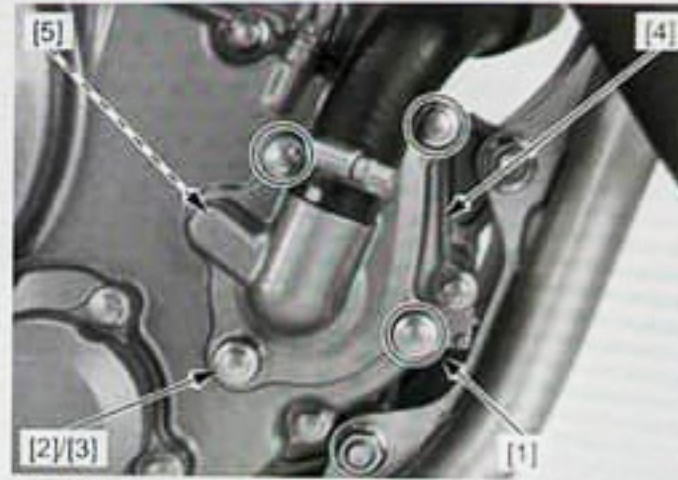
A small amount of weeping from the bleed hole is normal.



#### REMOVAL

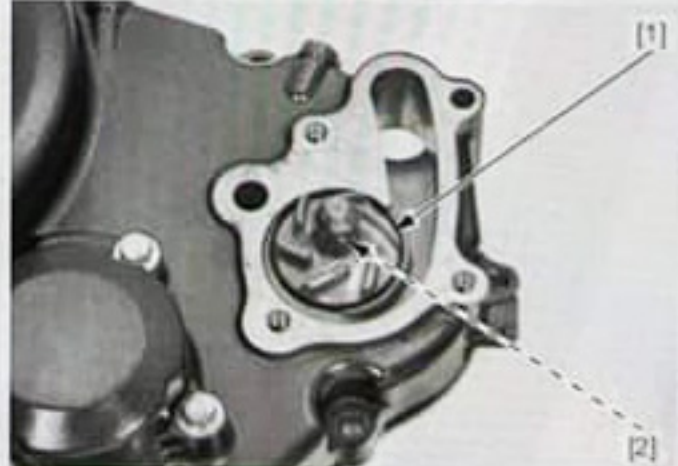
Drain the coolant (page 9-5).

Remove the bolts [1], drain bolt [2], sealing washer [3], water pump cover [4] and O-ring [5].



Remove the right crankcase cover (page 12-4).

Hold the water pump shaft and remove the impeller [1] and plain washer [2].



Remove the water pump shaft [1] from the right crankcase cover.

