Replacing timing belt

ENGINE

•FREE POSITIONING **WRENCH**





●FLAT TYPE EXTRA-LONG OPEN END WRENCH

Removing belts

CRANK PULLEY HOLDER

No. AE701	▼ kg 3.9	₩1	
Crank pulley holder (body)		1	
Pin		2	
Set bolt for the pin (hex hole attac	hed) M8 Length:	25: 2	
Set bolt (hex hole attached)	M6 Length: 35	·40·50·60·70·80·90: 2 of	each
	M8 Length: 40	·45·60·75·85·100: 2 of ea	ach
Washers	M6 ·2 M8 ·4		

A new crank pulley holding tool that can deal with various shapes

- Mainly for crank pulley removal operations (timing belt replacement, oil seal replacement, engine O/H operations) in automobiles (FR vehicles) with vertically placed engines.
 Can be used together with a crank pulley double-strength wrench to loosen the crank
- pulley puller manual type (AE702), or the hydraulic type (CPU13) is essential when removing the crank pulley.

Application

- Mainly used in vehicles with vertically placed engines. Especially in Toyota JZ type/1G
- type, Nissan RB type/VG type/VQ type. (Excluding diesel types)

 Exclusive to the V-ribbed belt

 Pulley outer diameter: φ90~180

 Where a service tap is included: fits with M6, M8

Characteristics

Easy to attach

• Simply attach the rotation claw onto the groove of the crank pulley and use the grip to tighten. (The center sliding position can be lined up when fitting the crank pulley.)

Thin Design! (Thickness 45mm)

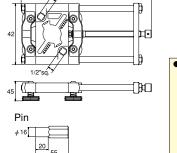
It is not necessary to remove the radiator condenser when carrying out work. (Excluding some vehicles)

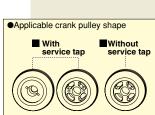
Replacement parts

Product name	No.	Contents	8		
Pin set	AE701-1	Pins: 2	1		
		M8 set bolts for pins (hex hole included): length 25: 2 bolts Washer M8: 2			
Set bolt set	-2	Set bolt (hex hole included) M6: Length: 35-40-50-60-70-80-90: 2 M8: Length: 40-45-60-75-85-100: 2 Washer M6: 2 M8: 2	1		

OCRANK PULLEY HOLDER PAT Set bolts for pin Washer Holder







CRANK PULLEY HOLD PLATE

0.0	······································					
No. CPH1	▼kg 2 😭 1					
Crank Pulley Hold Plate	1					
Set Bolt	M6: Length: 30·40·50·60·70·80·90: 2					
	M8: Length: 40·45·60·75·85·100: 2					
Washer	M6: 2, M8: 2					
ADAPTER	M10: 2					

- · Use to hold and take out pulley: plate as fixed with service tap of crank pulley; spinner handle (1/2"sq.) is set in.
- · Applicable to crank pulley with service tap.
- Prevents pulley from rotating together and enables fastening/loosening of center lock bolt.
- Usable with AE-10.
- or removing a crank puller, AE702 OR CPU 13 is required

Spare parts (set bolts and washers) are No. CPH128 (Crank Pulley Hold Plate Spare Set). For the details, refer to page 213 (Crank Pulley Tool No. CPHU2).



CRANK PULLEY LOCK BOLT WRENCH

	No.	Handle Opening	Square Drive	L	W	Н	▼kg	8	
	AE-10	125~1,160	12.7	862	70	60	4.3	1	
	Accessories								
Square Drive S37mm L80mm Each 1 pcs.									
	Set Bolt M8×1.25(Length30mm)				2 pcs.				

Supply Square Drive Short Long

No.	L	
AE-10-1	37(Short)	
AE-10-2	80(Long)	

Purpose

- Removing Crank Pulley Lock Bolt for changing Timing Belt, Crank Short, Oil Seal, etc.) Application
- Crank Pulley installed car with service tap except diesel engine over 3,000cc, Toyota3F, 1FZ Type Engine, Nissan VH Type. Engine, RB26DETT Type Engine.
- Can be used on vehicles with crank pulleys that do not have service taps when used with the AF701

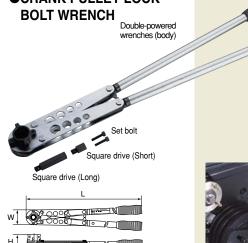
Special Feature

- Newly developed multiplying mechanism (Double Reverse) enables to loosen lock bolts without using impact wrenches.
- Can be used without removing radiators and condensers for shorter work time.
- CPH1 or AE701 is necessary for this operation.
- Cannot be used with AE11.
- * Replacement parts are available. Check with your dealer for details.



• THIS TOOL IS EXCLUSIVELY FOR LOOSENING BOLTS.





■ M8X1.25 ■ LENGTH 30mm



Removing the crank pulley lock bolt



e situation (AE703)



OCRANK PULLEY HOLD WRENCH FOR



(AE703)



(AE703A)

1/2"sq spinner handle is necessary for this operation.

CRANK PULLEY HOLD WRENCH

No.	▼ g	Θ	
AE703	450	1	
AE703A	400	1	

Usage

• Crank pulley turn prevention tool for Hondas

Crank pulley removal is not possible

Use the AE701(or the CPH1) and the AE702 (or the CPU13) or carry out crank pulley removal.

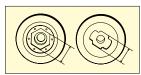
Application

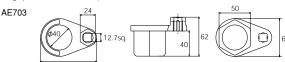
AE703

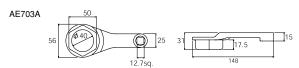
- The crank pulley shown in the right hand diagram is a 50mm 2-faced flat type used in Honda cars.
- Cannot be used on some NSX models.



- For Honda Life since 2003 (modelJB5-JB8)
- Cannot be used on some of the old model of Honda Lifes (working space: less than 30mm)











Example of AE701 + AE702 Use



Example of CPH1 + AE702 Use

● CRANK PULLEY PULLER CRANK PULLEY PULLER (MANUAL TYPE)



Crank pulley puller (body) 87 Stroke 37 φ 60 faced width

Adapter A Adapter B

0.						
No. AE702	▼ g500	⊜1				
Crank pulley puller (body)		1				
Adapter A		1				
Adapter B		1				

Manual type crank pulley removal tool

Usage

· Crank pulley removal.

- * The crank pulley holder (AE701) or the crank pulley hold plate (CPH1) is essential when removing the crank pulley.
- The clawed crank pulley puller (AE11) cannot be used in a combination.

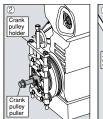
Characteristics

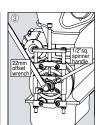
- · Ideal for work in tight places due to its light weight and compactness.
- Stroke adjustment is possible due to 2 types of adapters.

Operating example

When a crank pulley holder (AE701) is utilized

① Set the crank pulley holder (AE701 or CPH1) to the crank pulley and remove the lock holt





② Select the adapter A/B combination and then fit it to the crank pulley holder

Select the adapter A/B combination according the required crank pulley removal stroke.

(3) Use the spinner handle to lock, Using a 22mm offset wrench or a drive tool turn the screw of the crank pulley puller and remove the crank pulley

Replacement parts

Product name	No.	Contents	8	
Adapter A	AE702-1	Adapter A 1	1	
Adapter B	-2	Adapter B 1	1	

Example of CPH1 + CPU13 Use

•CRANK PULLEY PULLER (HYDRAULIC TYPE)



89 700 115	50
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CRANK PULLEY PULLER

OHAMICI GEEET I GEEEN					
No. CPU13	▼ kg 1.7	⊕1			
Crank Pulley Puller	1 pcs.				
Cylinder Adapter	2 pcs.				

Purpose

Pulling out crank pulley.

- Features
- · Strong power by hydraulic pressure.
- The remote control facilitates use of the tools in the limited space of engine room.
- For removing the crank pulley AE901 AE11 and CPH1 are required.
- * Replacement parts are available. Check with your dealer for details.

Service Parts CHANK PULLEY PULLER SPARE SET					
No. CPU12					
Cylinder Adapter Long, Short	Each 1 pcs.				

CRANK PULLEY TOOL SET A

No. AT	E7A	▼ kg 6.8	⊎1
AE701	Crank pulley holder (body)		1
	Pin		2
	Set bolt for the pin (hex hole included)	M8: Length 25: 2	
	Set bolt (hex hole included)	M6: Length: 35·40	0·50·60·70·80·90: 2 each
		M8: Length: 40·45	5·60·75·85·100: 2 each
	Washers	M6: 2 M8: 4	
AE702	Crank pulley puller (body)		1
	Adapter A		1
	Adapter B		1
Metal c	ase (390×245×75)		

The application is of a broad variety with a low price on the standard type. Usage

- Tightening/loosening of the crank pulley lock bolt
- Crank pulley removal, manual type

Application

Sets which are available with the either service taps included/excluded.

CRANK PULLEY TOOL SET A

CRANK PULLEY TOOL SET B

No. AT	E7B	▼ kg 8	⊕1	
AE701	Crank pulley holder (body)		1	
	Pin		2	
	Set bolt for the pin (hex hole included)	M8: Length 25: 2		
	Set bolt (hex hole included)	M6: Length: 35·4	0·50·60·70·80·90: 2 each	
		M8: Length: 40·4	5·60·75·85·100: 2 each	
	Washers	M6: 2 M8: 4		
CPU13	Crank pulley puller (body)		1	
	Adapter A		1	
	Adapter B		1	
Metal c	Metal case (390×245×75)			

A wide variety of easy, correct removal techniques is possible due to hydraulics.

Usage

- Tightening/loosening of the crank pulley lock bolt
- Crank pulley removal, hydraulic type

ApplicationSets which are available with the either service taps included/excluded.



CRANK PULLEY TOOL SET C

No. Al	E7C	▼kg 1.9 ⊜ 1	
CPH1	Crank pulley hold plate (body)	1	
	Set bolt (hex hole included)	M6: Length: 30·40·50·60·70·80·90: 2 each	
		M8: Length: 40·45·60·75·85·100: 2 each	
	Washers	M6: 2 M8: 2	
	Adapter	M10: 2	
AE702	Crank pulley puller (body)	1	
	Adapter A	1	
	Adapter B	1	

* Metal case is not included.

OCRANK PULLEY TOOL SET C



Reasonable type at a low price.

Usage

- Tightening/loosening of the crank pulley lock bolt
- Crank pulley removal, manual type

Application

Sets applicable for pulleys with fitted service taps.

CRANK PULLEY TOOL

No. CF		▼kg 6	₩1		
CPU13	Crank pulley puller (body)		1		
	Output cylinder adapter		2		
CPH1	Crank pulley hold plate (body)		1		
	Set bolt (hex hole included)	M6: 14 M8: 12			
	Washers	M6: 2 M8: 2			
	Adapter	M10: 2			
Metal c	Metal case				

Usage • Crank pulley removal with the service tap fitted

- ristics Work time is reduced, as the radiator, condenser does not need to be removed. (Some vehicles may not be included.)
 - When outside of the garage, it is not necessary to turn drive tools in the narrow confines of an
 - engine compartment making the job easier.
 Other companies do not stock the outer parts of crank pulleys. However, as the CPHU2 uses service taps, and as the torsion damper rubber does not break down, it can be used freely.

 - Torque can be controlled when tightening.
- Service taps are fitted to crank pulleys of vehicles ranging from light weight to normal passenger type and small trucks. (Excluding diesel vehicles that exceed 3000cc)

Replacement parts: Crank pulley holder spare set

No. CPH128	
Set bolt (hex hole included)	M6: Length: 30·40·50·60·70·80·90: 2 each M8: Length: 40·45·60·75·85·100: 2 each
Washers	M6: 2 M8: 2
Adapter	M10: 2

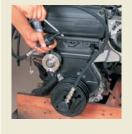
OCRANK PULLEY TOOL



Crank pulley removal

lock nut

Removing and fitting crank pulley

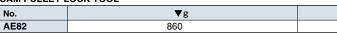




Cam pulley lock







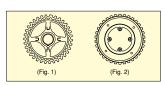
Timing belt replacement The cam pulley ensures excellent locking. It supports smooth timing belt removal. • This is a tool that helps hold the 2-cam pulley's position, and helps prevent

slippage when removing the timing belt in DOHC gasoline engines Application • Ranges from domestic light weight to normal passenger type vehicles with DOHC gasoline engines (FF, FR vehicles).

Fitting the crank pulley, tightening the lock bolt

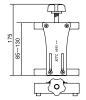
As the insides of cam pulleys in some Honda and Mitsubishi vehicles are uneven, the pulley can move when tools that are in a fixed position are forced from the outside. (Fig. 1)

It may not be possible to use this tool on some vehicles with adjustable valve timing as the shape can differ. (Fig. 2)

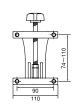












Characteristics

- It is possible to fix the cam pulley in a set position during timing belt replacement before removing the timing belt and up to the end of
- Install by the use of the knob only
- Operating space is saved when installing/removing the timing belt as the center bolt is in an offset position.
- Is possible to be used in vehicles where there are obstacles between the 2 cam pulleys. Make sure that all operators read the Owner's Operator Manual carefully before usage.

Disassembling, Inspecting and Installing Engine



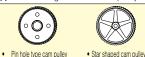
CAM PULLEY HOLD WRENCH

No. AE81	▼kg 1.1	⊕1	
Cam pulley hold wrench (body)		1	
Straight pin		2	
Flange fitted pin		2	

Usage

• Exclusive cam pulley stopper tool

Application Diagram below: Cam pulley shape

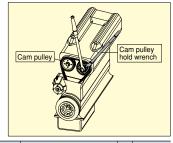


Characteristics

- · The arm is opened/closed by a spring mechanism: this keeps constant tension on the opening action of the tool increasing safety.
- There are 2 types of stopping pins, both of them fit the 2 types of cam pulleys mentioned above.
- The grip part is knurled, is easy to grasp and power is easy to apply.

Method of use

- Select the correct pin (straight/flange fitted) depending on the shape of the cam pulley and then attach it to the arm.
- · Adjust the cam pulley so that it touches the pin and does not turn, then using a wrench, loosen (or tighten) the holding bolt.



Replacement parts

Product name	No.	Contents	8	
Straight pin	AE81-5	Straight pin: 2	1	
Flanged pin	-6	Flanged pin: 2	1	

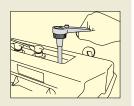


• Make sure that all operators read the Owner's Operator Manual carefully before usage.

Removing **Head Cover**

OHEXAGONAL WRENCHES

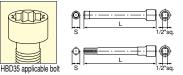
Removing **Head Bolt**



●1/2"sq. CYLINDER HEAD **BOLT WRENCH · SET**







CYLINDER HEAD BOLT WRENCH-SET

		·
No. HBD353	▼g355	
HBD35-8, 10		
B360-10		
•		

No.	s	L	▼ g	#	
HBD35- 8	8	100	110	5	
-10	10	115	115	5	
B360 -10	10	130	130	5	

• For fastening/loosening head bolts when removing/installing cylinder heads of engines

