

# ENGINE CAM TOOL KIT INSTRUCTIONS



Read Carefully Before Use  
Keep for Future Reference

# SAFETY INFORMATION

## Warning!

- Use these tools **ONLY** in accordance with these instructions and for their intended purpose of servicing engine camshafts.
- Keep your work area clean and well lit. Cluttered or dark areas invite accidents.
- Keep children and bystanders away while using these tools.
- **DO NOT** use these tools while you are tired or under the influence of drugs, alcohol, or medication.
- Use the appropriate safety equipment for your job. Wear ANSI and OSHA-approved eye protection and heavy-duty work gloves when using these tools.
- **DO NOT** wear loose clothing or jewelry while using these tools. Keep your hair, clothing, and gloves away from any moving parts.
- Prior to servicing a vehicle, turn off its engine and refer to its manufacturer's service and repair manual for instructions on how to safely secure the vehicle in place with chocks, jacks, stands, etc.
- Keep careful track of the exact placement of each part during removal and replacement.
- **DO NOT** allow people unfamiliar with these tools or these instructions to operate it.
- **DO NOT** overreach. Keep proper footing and balance at all times.
- Maintain these tools. Check for misalignment or binding of parts, breakage of parts, and any other condition that may affect these tools' operation. If these tools become damaged, have them repaired before further use.

## SPECIFICATIONS

Material		45# Steel, Chromoly Steel	
Camshaft Holding Tools	Dimensions	7.4×2.8×0.5 in.	18.7×7.2×1.2 cm
	Net Weight	1.5 lb.	0.7 kg
Chain Tensioner Holder Tool	Dimensions	5.9×0.6×0.1 in.	15×1.4×0.3 cm
	Wrench Fitment	½ in.	12.7 mm
	Net Weight	0.3 oz.	10 g
Camshaft Phaser Bolt Removal Socket	Dimensions	3.1×1×1 in.	7.8×2.5×2.5 cm
	Net Weight	3.9 oz.	110 g
Storage Box Dimensions		12.7×9.7×3.1 in.	32.3×24.7×8 cm

# PARTS LIST

No.	Name	Qty.
A	Camshaft Holding Tools	2
B	Camshaft Phaser Bolt Removal Socket	1
C	Chain Tensioner Holder Tool	1
D	Storage Box	1



# OPERATION

## Camshaft Holding Tools

1. Rotate the first cylinder to top dead center.
2. Install the tools on the flats of the camshaft as shown in Fig. 1.
3. Service your camshaft as needed.
4. Refer to the vehicle service manual for the correct camshaft to crankshaft timing procedure.

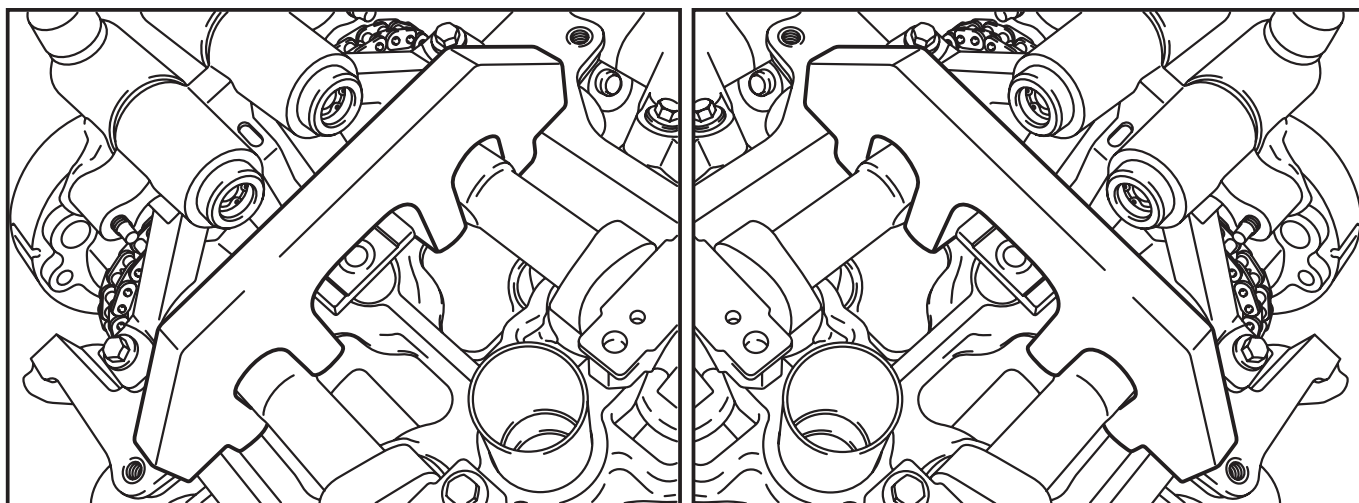


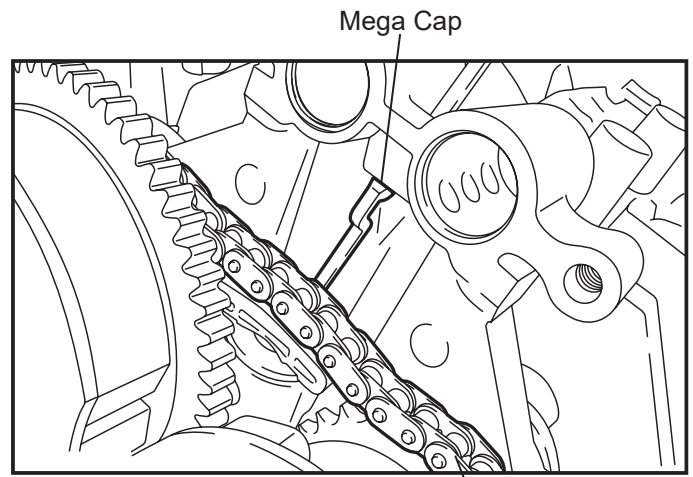
Fig. 1

Fitment	
2007–2014	3.5L Edge
2007–2011	3.5L Milan
2007–2012	3.5L MKX, MKZ
2008–2012	3.5L Sable
2008–2014	3.5L Taurus, Taurus X
2009–2014	3.7L MKS
2010–2012	3.5L Fusion Hybrid
2010–2014	3.5L MKS, MKT

Fitment	
2010–2014	3.7L MKT
2011–2014	4.0L Edge
2011–2014	3.5L Explorer, F-150
2011–2014	3.7L F-150, MKX
2011–2012	4.0L F-150, MKX, Mustang
2011–2014	3.7L Mustang
2012–2014	3.5L Flex
2013–2014	3.7L MKZ

## Chain Tensioner Holder Tool

1. Insert the tool through the hole in the top of the mega cap as shown in Fig. 2.
2. Compress the secondary timing chain tensioner and install the chain tensioner holder tool in the hole on the rear of the secondary timing chain tensioner guide. Position it against the mega cap to retain the tensioner in the compressed position.
3. Service the secondary timing chain as required according to vehicle service manual.



Secondary Timing Chain Tensioner

Fig. 2

Fitment	
2007–2014	3.5L Edge
2007–2011	3.5L Milan
2007–2012	3.5L MKX, MKZ
2008–2012	3.5L Sable
2008–2014	3.5L Taurus, Taurus X
2009–2014	3.7L MKS
2010–2012	3.5L Fusion Hybrid
2010–2014	3.5L MKS, MKT

Fitment	
2010–2014	3.7L MKT
2011–2012	4.0L F-150, MKX, Mustang
2011–2014	4.0L Edge
2011–2014	3.5L Explorer, F-150
2011–2014	3.7L F-150, MKX
2011–2014	3.7L Mustang
2012–2014	3.5L Flex
2013–2014	3.7L MKZ

## Camshaft Phaser Bolt Removal Socket

1. Attach the wide end of the socket to a ½" ratchet wrench (not included) and insert the narrow end into the phaser bolt.
2. Hold the camshaft in place with an adjustable wrench (not included) or camshaft holding tool while you use the ratchet wrench to loosen or fasten the phaser bolt.

Fitment	
Ford	3.5L
	3.7L

## CONTACT US

Thank you for choosing our products! If you have any questions or comments, contact us at [help@cs-supportpro.com](mailto:help@cs-supportpro.com) and we'll resolve your issue ASAP!

For a .pdf copy of the latest version of these instructions, use the appropriate app on your smartphone to scan the QR code to the right.

