

# ENGINE OIL PRESSURE GAUGE OIL FILTER ACCESS TOOL P/N KT28





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## Parts List

Storage Case	KT28BX-001
Gauge- Hose and Boot assembly	KT28GHB-001
Gauge	KT28G100-001
Hose assembly	KT28H001-3
Boot	IKT28B-001
Oil Filter Access Tool	KT280FAT-001
1/4' Elbow Key	KT28EK-001
Piercing Quick Connect Coupler	KT28PQCC-001
Male Connector Fitting	KTMCF-001
1/8-27 NPT Street Elbow 90	KT28SE-90
1/8-27 NPT Street Elbow 45	KT28SE-45
Silicone Washer	KT28SW-001-3
3/16-Rubber Cap	KT28RC-001-2
Instruction Manual	KT28IM-001

TPR1 Division, TPR 2331 W. Hampden Ave. 130 Englewood, CO 80110 303.781.9449 www.tpr1.com



**KT28** 

## ENGINE OIL PRESSURE GAUGE OIL FILTER ACCESS TOOL

## **Safety Information** IMPORTANT SAFETY INSTRUCTIONS

This manual contains important safety and operating instructions for the TPR1 ENGINE OIL PRESSURE GAUGE, OIL FILTER ACCESS TOOL. Refer to the information in this manual often for safe operation.

#### **READ ALL INSTRUCTIONS**

Read, understand and follow all safety messages and instructions in this manual and on the test equipment. Safety messages in this section of the manual contain a signal word, a one to three-part message and, in some instances, an icon. An icon, when present, gives a graphical description of the potential hazard.



! WARNING

RISK OF FLYING PARTICLES • WEAR SAFETY GOGGLES, USER AND BYSTANDER. • DO INTEXPEED 400 DOI (700 LD-)

BO NOT EXCEED 100 PSI (700 kPa).
 BE SURE ALL CONNECTIONS ARE SECURE.
 FLYING PARTICLES CAN CAUSE INJURY.

RISK OF SUDDEN VEHICLE MOVEMENT. • BLOCK DRIVE WHEELS BEFORE PERFORMING OIL PRESSURE TEST. • SET PARKING BRAKE AND PUT GEAR

SELECTOR IN NEUTRAL FOR STANDARD TRANSMISSION OR PARK FOR AUTOMATIC TRANSMISSION. • CHECK MANUFACTURERS SERVICE MANUAL

FOR PROCEDURES. A MOVING VEHICLE CAN CAUSE INJURY.

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#### SAVE THESE INSTRUCTIONS

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EEP	YOURSE	ELF,	CLOTHIN	IG AND	TEST	
QUII	PMENT C	LE/	R OF MC	<b>WING F</b>	ARTS.	
TANO	GLEMENT	IN	MOVING	PARTS	CAN	
USE	INJURY.					



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RISK OF BURNS. \* DO NOT TOUCH HOT ENGINE COMPONENTS. \* AVOID CONTACT WITH HOT ENGINE OIL HOT COMPONENTS CAN CAUSE INJURY.



GLASS LENS ON GAUGE CAN BREAK. \* DO NOT DROP OR HIT GAUGE FACE. \* DO NOT USE GAUGE IF GLASS LENS IS CRACKED OR BROKEN. BROKEN GLASS CAN CAUSE INJURY.



RISK OF HIGH PRESSURE OIL SPRAY. \* DO NOT REMOVE GAUGE-HOSE ASSEMBLY WHILE ENGINE IS RUNNING. \* DO NOT REMOVE OIL FILTER ACCESS TOOL WHILE ENGINE IS RUNNING. HIGH PRESSURE OIL SPRAY CAN CAUSE INJURY.

 ! WARNING

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 Image: Cause

 Cause

Safety Information (Continued)







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## Test Procedure (Continued)

3. Connect the male connector, gauge-hose assembly to the quick connect coupler on the OIL FILTER ACCESS TOOL assembly. Place the gauge-hose assembly away from the exhaust manifold, exhaust pipes, or any moving parts of the engine.

4. Start engine and check for oil leaks at the OIL FILTER ACCESS TOOL adapter connection. If there is any leakage immediately turn the engine off and correct the problem. Restart the engine and proceed with the engine oil pressure testing.

**! WARNING** 

RISK OF HIGH PRESSURE OIL SPRAY. \* DO NOT REMOVE GAUGE-HOSE ASSEMBLY WHILE ENGINE IS RUNNING. \* DO NOT REMOVE OLI FILTER ACCESS TOOL WHILE ENGINE IS RUNNING. HIGH PRESSURE OIL SPRAY CAN CAUSE INJURY.

\*Oil pressure readings should be checked at operating engine temperatures. Refer to manufacturers service manual for accurate engine oil pressure specifications and testing procedures.

5. After completing the engine oil pressure test. Turn engine off. Remove connector, gauge-hose assembly from OIL FILTER ACCESS TOOL. Use rubber cap to seal the male connector from unwanted leakage when storing gauge-hose assembly. To remove OIL FILTER ACCESS TOOL assembly, INSERT °" elbow wrench or " drive ratchet, unload the tension from the thumb-locking piece. ALWAYS TURN with elbow wrench or ratchet to open tool. NEVER SNAP TOOL OPEN by releasing thumb piece. This will DAMAGE the locking thumb piece holding-release capabilities. Remove the OIL FILTER ACCESS TOOL assembly. Remove and discard punctured oil filter. REPLACE with new one.

6. Check oil level and correct as necessary.

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## **Tool Maintenance**

Wipe off excess oil, grease and dirt from OIL FILTER ACCESS TOOL assembly and hose-gauge assembly after every use. Visually inspect the silicone washer for damage or worn out. There are two extra silicone washers in each kit. Additional silicone washers and parts are available from TPR1. Keep all moving parts lightly oiled for years of good service.

#### TOOL REMEDIES

- A. Locking Thumb Piece is not holding Ratchet: Remove pivot pin, thumb piece, and spring. Bend open spring for more tension. Reinstall components.
- B. Locking Thumb Piece is not holding Ratchet: Remove pivot pin, thumb piece, and spring. Bend thumb piece slightly downward (locking tooth end) to change engagement angle on ratchet. Reinstall components. C. Pivot Pin loose:
- Remove pivot pin, thumb piece, and spring. Bend pivot pin eye tabs (slightly twist). Reinstall components. D. Piercing Quick Connect Coupler Probe edge damaged: Resharpen angle on probe with emery paper only.

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#### **ENGINE OIL PRESSURE GAUGE OIL FILTER ACCESS TOOL** Limited One (1) Year Warranty

TPR1 COMPANY WARRENTS THIS OIL PRESSURE GAUGE **OIL FILTER ACCESS TOOL TO BE FREE FROM DEFECTS IN** WORKMANSHIP AND MATERIALS FOR ONE (1) YEAR FROM THE DATE OF PURCHASE BY THE ORIGINAL COMSUMER. TPR1 will repair or replace this gauge set if it fails to give satisfactory service due to defective workmanship or materials. Repair or replacement shall be at the election and expense of TPR1. Product must be returned to TPR1 for warranty service, unless such return is unreasonable. Proof of purchase date is required to make warranty claim.

TPR1 dose NOT provide any warranty for products subjected to abnormal use. Abnormal use includes misuse, accident, modification, unreasonable use, neglect, lack of maintenance, use in production related service, or use after tool is significantly worn.

TPR1 SHALL NOT BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL COST OR DAMAGES INCURRED BY THE PURCHASER OR OTHERS (including without limitation, lost profits, revenues, anticipated sales, business opportunities, goodwill, or interruption of business and any other injury or damage). some states do not allow the exclusion or limitations of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty is your exclusive remedy and is in place of all other rights and remedies. You may have other rights which vary from state to state or country.

> For further information contact: **TPR1 Division, TPR** 2331 W. Hampden Ave. 130 Englewood, CO 80110 303.781.9449 www.tpr1.com

