

### 4 Cleaning Head



#### ● CERAMIC SCRAPER



#### CERAMIC SCRAPER

No.	A	T	L	▼g	📦
KZ4-12	11	3	145	30	5
-18	18	3	175	52	5

#### Purpose

- Scraping and finishing the surface of automotive engines and gaskets of industrial machinery, etc.

#### Special feature

- Superb wear resistance, and smooth cutting.
- Ceramic tip for preventing rust and deformation.
- The blade does not dig in and provides a smooth scraping action.
- Tip is not adhered to sticky gasket, seal, gum, etc.
- Both sides of the blade can be used.
- Care should be taken when handling as dropping or hitting may cause the tools to chip or be damaged.

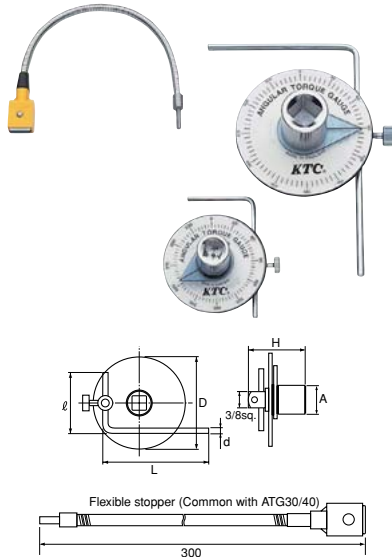
\* Ceramic tips are not sold separately.

**CAUTION** • DO NOT USE AS A SUBSTITUTE OF A CHISEL, LEVER, CUTTER, ETC.

### 5 Installing and Fastening Head Bolt



#### ● ANGULAR TORQUE GAUGE



#### ANGULAR TORQUE GAUGE

No.	sq.	A	H	D	L	ℓ	d	▼g	📦
ATG30	1/2"	24.2	55	78.5	97	52	4.8	365	10
40	3/4"	34.5	76	105.5	190	120	6.4	700	10

#### Purpose

- Measuring fastening angles of specified angle fastening bolts.

#### Special feature

- Because the gauge measures in small 5° units, it can be used in many ways and on a variety of different manufacturers' engines. (The gauge can be used not only on domestic vehicles, but also on a wide range of foreign vehicles made outside of Japan.)
- The gauge is equipped with an effective Flexible Stopper for cases when the L-shaped stoppers cannot stop the rotation.

**CAUTION** • BEFORE USING ANY TOOL, READ THE PROVIDED INSTRUCTION.  
• DO NOT USE AS A SUBSTITUTE OF A CHISEL, LEVER, CUTTER, ETC.

#### How to use the gauge

1. Pre-fasten head bolt with specified torque.



2. Set angle torque gauge and fix it with L-stopper or flexible stopper.



3. Set hand of gauge to zero.



4. Fasten gauge to specified angle with spinner handle.

### 6 Torque checks

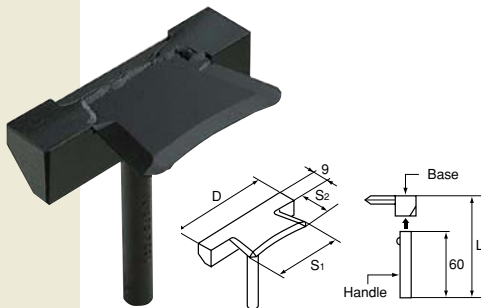
#### ● TORQUE WRENCH

## ENGINE

## Removing oil pan

### 1 Cutting seal

#### ● OIL PAN SEAL CUTTER



#### OIL PAN SEAL CUTTER

No.	D	L	S <sub>1</sub>	S <sub>2</sub>	▼g	📦
TAG-48	70	78	48	24	180	10

#### Purpose

- Applied for removing oil pans with seal packings.

#### Special feature

- Arc shaped cutter for hitting into seal part.
- The side cutter is sharp and when it digs into the base from the side it can slide easily.
- Sharp angled (α°) side cutter for deep contact and secure operation.
- Can be used in narrow spaces without handle.

**CAUTION** • USE ANTI-DUST GLASSES WHEN USING THIS TOOL.

### 2 Scraping Seal

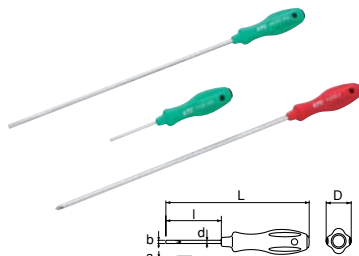
#### ● CERAMIC SCRAPER

## ENGINES

## Adjustment of idling

### 1 Fastening/Loosening Adjustment Screw

#### ● CARBURETOR SCREWDRIVER SET



#### CARBURETOR SCREWDRIVER SET

No.	CD3	▼g	380	📦	5
Carbjet Screwdriver	CDZ-165				
Long Screwdriver, Flat	MDDZ-400				
Long Screwdriver, Cross	PDDZ-2				

No.	Type	a	b	d	D	L	ℓ	▼g	📦
CDZ-165	Flat	0.7	3.5	3.5	27	155	60	40	5
PDDZ-2	Cross No.2	-	-	6	27	385	290	100	5
MDDZ-400	Flat	0.7	5.5	5.5	27	385	290	90	5

- For adjusting carburetors.

**WARNING** • DO NOT USE THESE TOOLS WITH ELECTRIFIED OBJECTS.  
• DO NOT USE A TOOL FOR PURPOSES OTHER THAN ADJUSTING CARBURETORS.