FIRSTINFO
FIT YOUR NEEDS

良匠工具
FIRSTINFO TOOLS



Parking Sensor Hole Cutter Set for Car Bumpers

MODEL NO. F3385

Safety Instruction (安全規範)

Please follow all workshop safety rules, regulations, and conditions as below when using our air tools

- **ALWAYS** inspect the tool and parts before use, replacing all the defective parts. Defective parts may create a danger. Unauthorized components may also cause a malfunction and will invalidate the warranty.
- **WARNING!** Use of incorrect size or type of attachments suitable for our tools may cause a hazard or a unstable working environment. Please choose correct size or type of attachments before using.
- **WARNING!** Applying too much force to the tool or parts may lead to lack of control. Increased vibration, or failure of components, which may cause injury.
- **DO NOT** use the tool if any part is missed or damaged because it may cause a malfunction or personal injury.
- **DO NOT** use power tools, such as impact wrenches, air tools, or power drills to tighten the force screw. High speed kinetic friction will instantly gall the fine threads and ruin the tool assembly. Tighten manually using hand ratchets only.
- **MATERIAL CHECK :** This kit is engineered exclusively for automotive plastic bumpers (ABS, PP, fiberglass-reinforced composites). ***DO NOT*** attempt to use these dies to punch sheet metal, steel panels, or structural aluminum parts.
- **STORAGE :** Clean each cutter component thoroughly after use. Apply a light protective layer of anti-rust oil or industrial grease before restoring the pieces into their designated slots within the blow-molded case.
- **ALWAYS** wear correct personal protective accoutrements: like glasses, gloves, mask, hard helmet, ear plugs, shoes or boots when operating air tools.
- **ALWAYS** keep hands/body clear of working parts, remove unnecessary ill-fitting clothing ; for example, ties, rings, watches, other loose jewelry etc. or with long hair.

Features :

- A comprehensive, professional-grade hole-cutting kit designed for vehicle bumpers — cutting dimensionally accurate, clean, and burr-free holes when installing, upgrading, or refitting parking sensors after accident repairs.
- Hole Cutter Sizes: 17mm, 18mm, 18.2mm, 19mm, 20mm, 22.5mm, 24mm, 26mm, 26.7mm, 27mm, 28.1mm, 29.3mm, 32mm, and 38.9mm
- Application Material: Plastic automotive bumpers and panels up to 5mm in thickness.
- 5/16" High-Speed Steel (HSS) drill bit included for drilling a pilot hole.
- Cutting Principle: Manual screw-driven mechanical punch (compatible with standard ratchets/wrenches).



Master Kit Components

Component Type	Description & Markings
Hole Cutters (Dies/ Plates)	Double-sided cutting pieces clearly laser-etched with exact metric diameters. Double-stacked layout ranging from 17mm up to 38.9mm.
Pilot Drill Bit	5/16" HSS straight shank twist drill bit for precise centering.
Drive Assembly	High-tensile Force Screw (Thrust Bolt) with hex head end and matching locking Nut/Bearing assembly.
Storage Case	Heavy-duty, custom-molded orange blow-case for organized storage and quick component selection.

NOTE: It is our duty to keep improving produts and we reserve the right to modify contents, specifications and parts without prior advice.

IMPORTANT: No responsibility is accepted for improper use of product.

886-6-2586129
886-6-2586126
https://www.firstinfo.com.tw
sales@firstinfo.com.tw
@fit-tools
良匠工具 Firstinfotools
良匠工具 FirstinfoTools
良匠工具 Firstinfotools

MIT FIRSTINFO

FIRSTINFO
FIT YOUR NEEDS

FIRSTINFO TOOLS

INSTRUCTIONS FOR :
Parking Sensor Hole Cutter Set for Car Bumpers,17-38.9mm
MODEL NO. : F3385

Operating Instructions

Step 1. Mark and Center the Hole Position

Determine the exact mounting location for the parking sensor on the bumper panel. Mark the center point on the **painted/outer side** of the bumper. It is recommended to apply a piece of masking tape over the area before marking to protect the surrounding paint surface.

Step 2. Drill the Pilot Hole





Using the included **5/16" HSS drill bit**, drill a clean pilot hole straight through the marked center point. Keep the drill bit perpendicular (90°) to the plastic surface to prevent the hole from becoming oval or off-center.

Step 3. Select the Correct Cutter Size

Measure the exact diameter of the replacement sensor pod.
Select the matching sized double-sided cutting plate from the kit.
Note that the plates are marked with dual-step dimensions for maximum versatility (e.g., 18mm / 20mm ; 28.1mm / 38.9mm).



Step 4. Assemble the Tool onto the Bumper

1. Take the **Force Screw** and slide the matching **Matrix (Receiving Die/Cup)** onto it.
2. Insert the threaded of the Force Screw through the 5/16" drilled pilot hole from the **inside (back)** of the bumper panel.
3. From the **outside (front/painted side)** of the bumper, thread the selected **Cutting Plate (Punch)** onto the protruding screw threads. Ensure the sharp cutting edge of the plate faces directly toward the painted plastic surface.

Step 5. Execute the Punch Cut



1. Using hand tools only, such as **a reversible ratchet with the correct socket or an appropriately sized wrench**, slowly turn the force screw head to tighten the assembly.
2. As the screw tightens, it will pull the Cutting Plate smoothly through the plastic material into the receiving cup.
3. Continue tightening until the cutter completely shears through the plastic panel. A sudden drop in resistance indicates that the cut is complete.

PRO TIP: Pulling the Cutting Plate from the outside toward the inside helps direct any slight deformation or plastic flash toward the inside of the bumper, leaving a clean, crisp edge on the visible outer surface.

Step 6. Disassembly and Clean Up

Back off the force screw threads to disassemble the tool components. Remove the waste plastic slug trapped between the die and punch. Wipe away any excess structural debris or lubrication residue before inserting the new parking sensor housing.

886-6-2586129
886-6-2586126
https://www.firstinfo.com.tw
sales@firstinfo.com.tw
@fit-tools
良匠工具 Firstinfotools
良匠工具 FirstinfoTools
良匠工具 Firstinfotools