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ENGINEER pz-58 GT

Engineer PZ-58 GT Neji-saurus Multi-Function Gripping Pliers User Manual

Model: PZ-58 GT | Brand: ENGINEER

1. Introduction

The Engineer PZ-58 GT Neji-saurus pliers are a specialized tool designed for the efficient removal of damaged, stripped, rusted, or tamper-proof screws. Unlike conventional pliers, these feature a unique patented jaw groove and lip design that allows for a firm grip on screw heads, preventing slippage. Crafted in Japan, these pliers are an essential addition to any toolkit for tackling stubborn fasteners.

2. Product Features

- **Damaged Screw Extraction:** Quickly extract screws with rounded, stripped, or specialized heads.
- **Unique Jaw Design:** Specially shaped and uniquely serrated gripping jaws provide superior grip, preventing slippage common with ordinary pliers.
- **Versatile Compatibility:** Effective on screw head diameters from 3mm to 9.5mm (M1.6 to M5 for Roundhead screws and M2 to M4 for Truss Head screws).
- **Slim Nose Design:** Allows access to screws in confined and hard-to-reach spaces.
- **Wire Cutting Function:** Integrated jaws for cutting copper wire up to 3.2mm.
- **Durable Construction:** Made from high-quality Carbon Steel with black plastic grips for comfort and durability.
- **Spring-Loaded Mechanism:** Features a spring to hold jaws open for ease of use.



The Engineer PZ-58 GT Neji-saurus pliers, showcasing their overall design and black grips.



The pliers casting a shadow resembling a dinosaur, referencing the 'Neji-saurus' name.



A close-up view of the pliers, highlighting the integrated spring mechanism that keeps the jaws open.

3. Setup

The Engineer PZ-58 GT Neji-saurus pliers require no complex setup. Upon receiving, simply remove them from their packaging. Before first use, inspect the jaws for any manufacturing defects or damage during transit. Ensure the pivot moves smoothly and the grips are secure. No assembly or calibration is required.

4. Operating Instructions

4.1. Screw Extraction

These pliers are specifically designed to grip and remove screws with damaged or unusual heads. The unique vertical serrations on the jaws maximize friction and prevent slipping.

1. **Identify the Screw:** Ensure the screw head diameter is within the pliers' capacity (3mm to 9.5mm).
2. **Position the Pliers:** Open the pliers and position the jaws around the head of the damaged screw. The slim nose allows access in tight spaces.
3. **Grip Firmly:** Close the pliers firmly around the screw head. The unique serrations will bite into the screw head.
4. **Twist and Remove:** While maintaining a firm grip, twist the pliers counter-clockwise to loosen and remove the screw. Apply steady, even pressure.



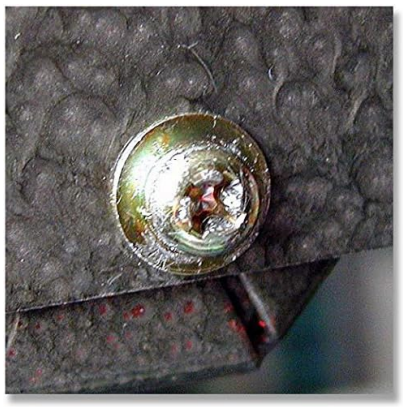
The pliers demonstrating their ability to firmly grip a screw for extraction.



A top-down perspective showing how the pliers' jaws engage with a screw head.



Detailed view of the unique vertical serrations on the pliers' jaws, designed for maximum grip.



An example of a screw with a damaged head, which these pliers are designed to remove.

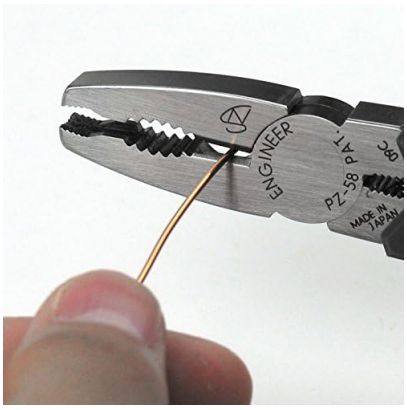


A close-up of a pan head screw, illustrating a type of screw these pliers can extract.

4.2. Wire Cutting

The pliers also feature integrated wire cutting jaws.

1. **Position Wire:** Place the wire to be cut into the designated cutting area of the jaws.
2. **Apply Pressure:** Squeeze the handles firmly to cut the wire.



The pliers demonstrating their wire cutting capability on a copper wire.

5. Safety Guidelines

To ensure safe operation and prolong the life of your pliers, please observe the following:

- **Eye Protection:** Always wear appropriate eye protection when using these pliers, especially during screw extraction or wire cutting, as small pieces may fly off.
- **Sharp Jaws:** The jaws are sharp. Exercise caution to avoid injury to fingers or hands.
- **Material Limitations:** Do not use these pliers for cutting steel wire or piano wire, as these materials are outside the cutting capacity of the jaws and can damage the tool.
- **Screw Limitations:** This tool is not suitable for removing screws held in place with glue or screws severely corroded with heavy rust, as this may damage the pliers or be ineffective.
- **Proper Use:** Do not use the tool near live electrical wires or fixtures.

6. Maintenance

Proper maintenance will ensure the longevity and performance of your Engineer PZ-58 GT Neji-saurus pliers:

- **Cleaning:** After each use, wipe the pliers clean with a dry cloth to remove any dirt, debris, or moisture.
- **Lubrication:** Periodically apply a small amount of light machine oil to the pivot point to ensure smooth operation and prevent rust.
- **Storage:** Store the pliers in a dry environment to prevent corrosion. A tool box or drawer is ideal.
- **Inspection:** Regularly inspect the jaws for wear or damage. While durable, excessive force or improper use can affect their effectiveness.

7. Troubleshooting

If you encounter issues while using your pliers, consider the following:

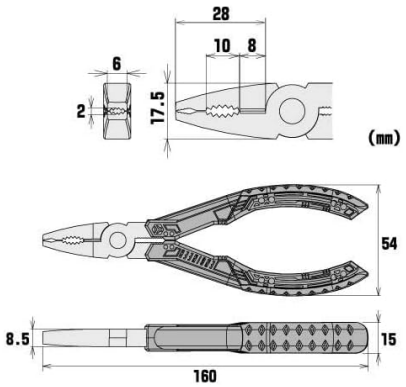
- **Pliers are slipping on the screw head:**

- Ensure the screw head is within the specified size range (3mm to 9.5mm).
- Apply more firm and even pressure when gripping the screw.
- Verify the screw is not heavily rusted or glued, as these conditions can prevent effective gripping.

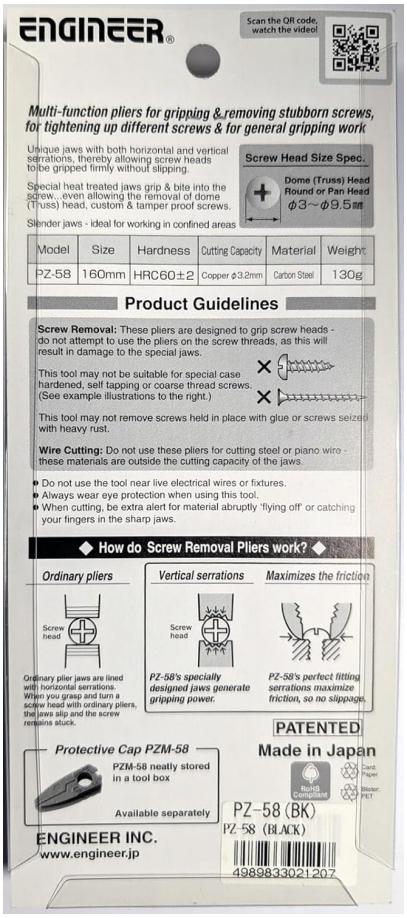
- **Pliers feel stiff or difficult to open/close:**
  - Apply a small amount of light machine oil to the pivot joint.
  - Clean any accumulated dirt or debris from the pivot area.
- **Wire cutting is ineffective:**
  - Ensure you are not attempting to cut materials beyond the pliers' capacity (e.g., steel or piano wire). These pliers are designed for copper wire up to 3.2mm.

8. Specifications

Specification	Detail
Model Number	PZ-58 GT
Brand	ENGINEER
Material	Carbon Steel (Jaws), Plastic (Handle)
Product Dimensions (L x W)	6.1" x 2.56" (160mm x 54mm)
Item Weight	149 Grams (5.3 ounces)
Screw Head Compatibility	Ø3mm to Ø9.5mm (M1.6-M5 Roundhead, M2-M4 Truss Head)
Wire Cutting Capacity	Copper wire up to 3.2mm
Specification Met	RoHS Compliant
Manufacturing Origin	Japan
Part Number	PZ-58(bk)
Date First Available	January 20, 2016



Technical drawing illustrating the dimensions of the PZ-58 GT pliers in millimeters.



Back of the product packaging, detailing product guidelines, screw head size specifications, and how the pliers work.

9. Warranty & Support

Specific warranty information for the Engineer PZ-58 GT Neji-saurus pliers is not provided in the product data. For details regarding warranty coverage, technical support, or replacement parts, please contact the manufacturer, ENGINEER, directly through their official website or authorized distributors.

Product Barcode (GTIN): 4989833021207

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