

[manuals.plus](#) /

› [KTC](#) /

› [KTC PD-2 Wooden Handle Screwdriver User Manual](#)

KTC PD-2

KTC PD-2 Wooden Handle Screwdriver User Manual

Model: PD-2

1. PRODUCT OVERVIEW

The KTC PD-2 Wooden Handle Screwdriver is a traditional cross-penetrating type screwdriver designed for general fastening and loosening tasks. It features a durable wooden handle for a comfortable grip and a robust S55C shaft (for PD-1, 2, 3 models) or S45C shaft (for PD-4 model) for effective torque transfer.



Image: KTC PD-2 Wooden Handle Screwdriver, showcasing its wooden handle and metal shaft.

2. SPECIFICATIONS

The KTC PD-2 screwdriver is engineered with specific dimensions and materials to ensure optimal performance and durability.

木柄ドライバ クロス貫通タイプ



WOODEN GRIP SCREWDRIVER

No.	番手	d	D	L	ℓ	▼g
PD-1	No.1	5	24	170	75	60
PD-2	No.2	6	28	220	100	110
PD-3	No.3	8	33	285	150	190
PD-4	No.4	9	34	350	200	260

●暖かみのある木の質感を生かした伝統的なドライバです。

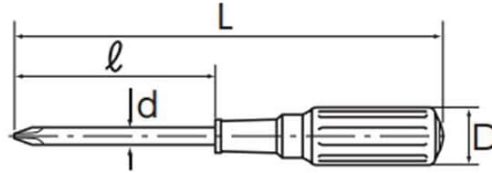


Image: Diagram illustrating the dimensions (L, ℓ, d, D) for various KTC PD series screwdrivers, including PD-2.

KTC PD Series Screwdriver Specifications

Model No.	Tip Size (No.)	Shaft Diameter (d)	Overall Length (L)	Shaft Length (ℓ)	Weight (g)
PD-1	No.1	5	170	75	60
PD-2	No.2	6	220	100	110
PD-3	No.3	8	285	150	190
PD-4	No.4	9	350	200	260

- **Shaft Material:** S55C (for PD-1, PD-2, PD-3), S45C (for PD-4)
- **Handle Material:** Wood
- **Head Style:** Phillips (Cross Penetrating Type)
- **Usage:** Penetration (designed for loosening tight screws by striking the end of the handle)

3. SETUP

The KTC PD-2 screwdriver is ready for use out of the box. No assembly is required. Ensure the screwdriver tip matches the screw head size for optimal performance and to prevent damage to both the screw and the tool.

ドライバの基本構造



ドライバは、家庭などでもよく見られる一般的な工具で、ねじを締めつけたり緩めたりする時に使用します。プラスドライバ(KTCではプラスドライバのことをクロスドライバと呼んでいます)のサイズは、プラスねじの大きさを表す番手(呼び)で表します。KTCのクロスドライバはNo.00、No.0、No.1、No.2、No.3、No.4の各サイズをラインナップしていますが、良く使われているサイズはNo.1～No.3です。マイナスドライバのサイズ表示は軸の付け根から先端までの長さで表す方法と、先端幅で表す方法があります。軸長では75mmから150mm、先端幅では5.5mmから8mmのものがよく使われています。

Image: Illustration of a screwdriver's basic components: tip, shaft, bolster, and grip.

Key Components:

- **Tip:** The working end that engages with the screw head.
- **Shaft:** The metal rod connecting the tip to the handle.
- **Bolster:** A hexagonal section at the base of the shaft, allowing a wrench to be used for additional torque if needed.

- **Grip (Handle):** The wooden part designed for comfortable and secure holding.

4. OPERATING INSTRUCTIONS

Using the KTC PD-2 screwdriver effectively involves applying the correct technique and selecting the appropriate size.

4.1. Basic Operation

The fundamental method for using a screwdriver is to apply pressure while turning. For Phillips head screws, it is crucial to apply significant downward force to prevent cam-out (where the screwdriver slips out of the screw head). The ideal ratio of pushing force to turning force is approximately 7:3. When loosening a tightly fastened screw, increase the pushing force.

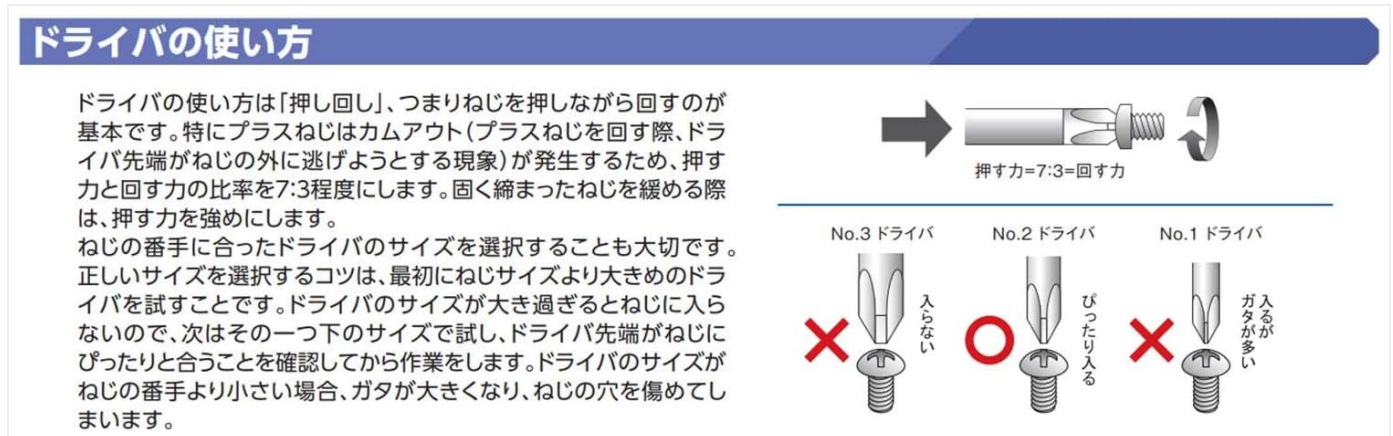


Image: Diagram illustrating the importance of matching screwdriver tip size to the screw head and the proper force application.

4.2. Selecting the Correct Size

It is essential to select a screwdriver size that perfectly matches the screw head. The best practice is to start with a screwdriver that appears slightly larger than the screw head and then try a smaller size if it does not fit. If the screwdriver tip is too large, it will not fit into the screw head. If it is too small, there will be excessive play, which can damage the screw head. The KTC PD-2 is a No.2 Phillips head screwdriver, suitable for common No.2 Phillips screws.

4.3. Penetrating Type Feature

The PD-2 is a "Cross Penetrating Type" screwdriver. This design allows for the application of impact force (e.g., by striking the end of the handle with a hammer) to loosen extremely tight or rusted screws. While this feature is useful, repeated heavy impacts can shorten the tool's lifespan. Use this feature judiciously.

5. MAINTENANCE

Proper maintenance ensures the longevity and performance of your KTC PD-2 screwdriver.

- **Cleaning:** Wipe the shaft and tip clean after each use to remove dirt, grease, or debris. The wooden handle can be wiped with a dry or slightly damp cloth. Avoid harsh chemicals that may damage the wood.
- **Storage:** Store the screwdriver in a dry place to prevent rust on the metal parts and to protect the wooden handle from moisture damage.
- **Inspection:** Regularly inspect the tip for wear, chipping, or bending. A damaged tip can strip screw heads. If the tip is significantly worn, consider replacing the screwdriver.
- **Handle Care:** The wooden handle offers a warm feel and good grip. While durable, avoid exposing it to extreme temperatures or prolonged moisture to prevent cracking or warping.

6. SAFETY PRECAUTIONS

Always observe the following safety precautions when using the KTC PD-2 screwdriver to prevent injury or damage to the tool or workpiece.

正しい工具の使い方



警告 ドライバ類

●電気が流れているものには、使用しないでください。グリップの樹脂は絶縁のためのものではありません。



注意

●片手に材料を持ち、片手にドライバを持って作業する等、不安定な状態で作業しないでください。

●ハンマー等で叩いて衝撃を加えないでください。

●たがねやレバーの代わりには使用しないでください。

●ハンマー代わりには使用しないでください。



●ハンマー等でたたいて衝撃を加えないでください。

●ドライバはねじのサイズに合ったものを使用してください。

●保護めがねのご使用をお勧めします。

●先端が磨耗、欠け、ヒビ割れしたドライバは使用しないでください。



Image: Visual warnings for safe screwdriver use, including avoiding electrical currents, unstable work, hammering, and using damaged tools.



WARNING: Do not use this screwdriver on live electrical circuits. The handle is not insulated for electrical work.

CAUTION: Do not work in an unstable position while holding the workpiece with one hand and the screwdriver with the other. Ensure a stable work environment.

CAUTION: Do not strike the screwdriver with a hammer unless it is a penetrating type designed for impact (like the PD-2, but use judiciously). Do not use it as a pry bar or chisel.

CAUTION: Always use a screwdriver that matches the size of the screw head. Using the wrong size can damage the screw or the tool.

CAUTION: Wear appropriate eye protection (safety glasses) when using hand tools to protect against flying debris.

CAUTION: Do not use screwdrivers with worn, chipped, or bent tips. This can lead to cam-out and potential injury.

7. TROUBLESHOOTING

Screwdrivers are simple tools, but issues can arise from improper use or tool condition.

- **Screwdriver slips out of screw head (Cam-out):**
 - Ensure you are using the correct size Phillips head screwdriver (PD-2 is No.2).
 - Apply sufficient downward pressure while turning.
 - Check if the screw head is stripped or damaged.
 - Inspect the screwdriver tip for wear; a worn tip will not grip properly.
- **Screw is too tight to turn:**

- Apply more downward pressure.
- For extremely tight screws, utilize the penetrating feature by gently striking the end of the handle with a hammer while applying turning force.
- Consider using a penetrating oil on rusted screws.
- **Screwdriver tip is damaged:**
 - Avoid using the screwdriver as a pry bar or chisel.
 - Ensure the tip size matches the screw head to prevent excessive stress.
 - If the tip is significantly damaged, the screwdriver should be replaced.

8. WARRANTY AND SUPPORT

Specific warranty information for KTC products may vary by region and retailer. Please refer to the documentation provided at the time of purchase or contact your point of sale for details regarding warranty coverage and claims. For product support or inquiries, please visit the official KTC website or contact their customer service department. Keep your purchase receipt as proof of purchase.



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