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> Ignition Switch Instruction Manual

XYZIL 81806710, 81806736, 81838693, 81871583

Ignition Switch Instruction Manual

Brand: XYZIL | **Model:** 81806710, 81806736, 81838693, 81871583

PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of the XYZIL Ignition Switch. This seven-terminal switch is compatible with Lucas type systems and features a cold start function, rated for a maximum 35 amp load. It is designed for use in both diesel and gas applications across a wide range of Ford Tractors and Industrial/Construction equipment.

The switch is engineered to replace various part numbers including 81806710, 81806736, 81838693, 81871583, and many others, ensuring broad compatibility with numerous Ford tractor and backhoe models. Its robust construction with copper contact material ensures reliable performance.

PACKAGE CONTENTS

- 1X Ignition Switch
- 2 Keys

SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of the ignition switch. Ensure the vehicle's battery is disconnected before beginning installation to prevent electrical shorts or injury.



Figure 1: Overall view of the XYZIL Ignition Switch with included keys.



Figure 2: Underside view of the ignition switch, highlighting the seven terminal posts for wiring connections.

Wiring Diagram and Terminal Identification:

The ignition switch features seven terminals. The following outlines the standard wiring configuration for Lucas type systems:

1. **Terminal #1:** Connects to the Battery / Hot Wire (main power input).
2. **Terminal #2:** Connects to Accessories (often not utilized in many applications).
3. **Terminal #3:** Connects to Heat / Glow Plug / Thermo start (for cold starting diesel engines).
4. **Terminal #4:** Connects to Instruments / Ignition / ON (powers the vehicle's instrumentation and ignition system when the switch is in the 'ON' position).
5. **Terminal #5:** Connects to Cranking / Starter (activates the starter motor when the switch is turned to the 'START' position).
6. The remaining two terminals are typically for additional functions or grounding, depending on the specific application.

Ensure all connections are secure and properly insulated to prevent short circuits. Refer to your vehicle's specific wiring

diagram for precise connection points.

Compatibility:

This ignition switch is designed for a wide range of Ford Tractor and Industrial/Construction equipment. Verify your vehicle's model number against the list of compatible models to ensure proper fitment.

Compatible Ford Tractor Models: 2000, 2100, 2150, 2300, 2310, 2600, 2610, 2810, 2910, 3000, 3055, 3100, 3110, 3120, 3150, 3230, 3300, 3310, 3330, 3400, 3430, 3500, 3550, 3610, 3900, 3910, 3930, 4000, 4100, 4110, 4130, 4140, 4200, 4330, 4340, 4400, 4410, 4500, 4550, 4600, 4610, 4630, 4830, 5030, 5100, 5110, 5200, 5340, 5500, 5550, 5600, 5610, 5700, 5900, 6000, 6410, 6500, 6600, 6610, 6700, 6710, 6810, 7000, 7010, 7100, 7200, 7410, 7500, 7600, 7610, 7700, 7710, 7810, 7910, 8000, 8010, 8210, 8400, 8530, 8600, 8630, 8700, 8730, 8830, 9000, 9200, 9600, 9700.

Compatible Ford Industrial/Construction Models: 2110LCG, 230A, 230A, 250C, 2600V, 260C, 3010S, 340A, 340B, 345C, 345D, 4010S, 4110LCG, 445A, 445C, 445D, 455C, 455D, 4600SU, 4830 (to 4/91), 5030 (to 4/91), 530A, 540A, 540B, 545A, 545C, 545D, 555A, 555B, 555C (to 4/91), 5610S, 575D (to 4/91), 655A, 655C (to 4/91), 655D, 6610S, 675D (to 4/91), 6810S, 755A, 755B, 7610S, 7810S.

Also compatible with models: 231, 233, 234, 333, 334, 335, 340, 345, 420, 445, 450, 455, 515, 531, 532, 535, 540, 545, 550, 555, 650, 655, 750, 755, TW10, TW15, TW20, TW25, TW30, TW35, TW5.

OPERATING INSTRUCTIONS

The XYZIL Ignition Switch operates with distinct positions for various functions. Once properly mounted, you will feel five distinct positions as you rotate the key.



Figure 3: Side profile of the ignition switch, showing the key entry point and the protective cap.



Figure 4: Angled view displaying both the key and the terminal connections of the switch.

- **OFF Position:** The key can be inserted or removed. All electrical circuits are disengaged.
- **ACCESSORY Position:** (If applicable) Powers accessories without engaging the ignition.
- **ON Position:** Engages the ignition system and powers the vehicle's instruments. This is the normal running position.
- **COLD START / GLOW PLUG Position:** (Momentary, spring-loaded) For diesel applications, this position activates the glow plugs or thermo start system to aid in cold engine starting. Hold until the glow plug indicator light extinguishes or as recommended by your vehicle's manual.
- **START Position:** (Momentary, spring-loaded) Engages the starter motor to crank the engine. Release the key once the engine starts; the switch will return to the 'ON' position.

The cold start and cranking/starter positions are spring-loaded, meaning the key will automatically return to the 'ON' position when released from these points.

MAINTENANCE

The XYZIL Ignition Switch is designed for durability and requires minimal maintenance. However, periodic checks can help ensure its longevity and reliable performance.

- **Terminal Inspection:** Periodically inspect the electrical terminals for any signs of corrosion, looseness, or damage. Clean terminals with a suitable electrical contact cleaner if necessary.
- **Connection Security:** Ensure all wiring connections to the switch remain tight and secure. Loose connections can lead to intermittent power or electrical issues.
- **Protective Cap:** Keep the protective cap over the keyhole when the key is not in use to prevent dust, dirt, and moisture from entering the switch mechanism.
- **Key Care:** Avoid excessive force when inserting or turning the key. If the key becomes difficult to turn, do not force it. Inspect for debris in the keyhole or consult a professional.

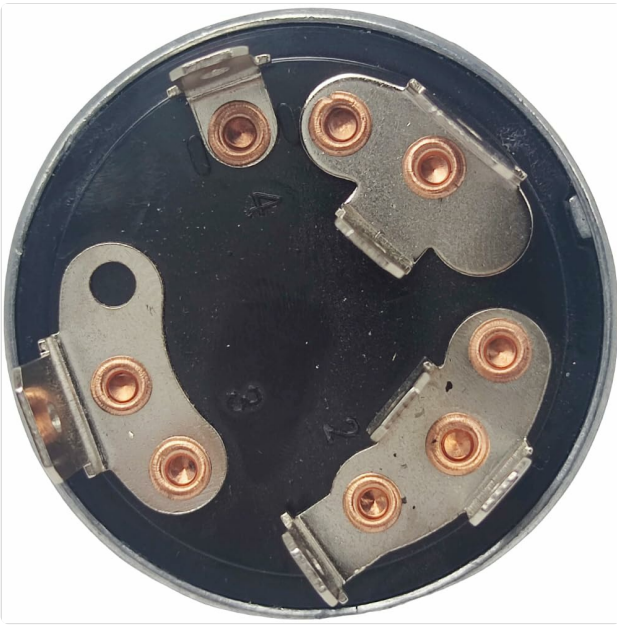


Figure 5: Top view of the ignition switch, showing the keyhole and the white protective cap.



Figure 6: Side view illustrating the arrangement of the electrical terminals on the switch body.

TROUBLESHOOTING

If you encounter issues with your XYZIL Ignition Switch, consider the following common problems and solutions before seeking professional assistance.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Engine does not crank when key is turned to START.	Loose or corroded battery terminals. Faulty starter motor or solenoid. Incorrect wiring connection to Terminal #5. Low battery voltage.	Check and clean battery terminals; ensure tight connections. Test starter motor and solenoid. Verify wiring to Terminal #5 according to the diagram. Charge or replace battery.
No power to instruments or ignition in ON position.	Blown fuse in the vehicle's electrical system. Loose or incorrect wiring to Terminal #1 or #4. Internal switch failure.	Check and replace any blown fuses. Inspect and secure wiring to Terminal #1 (Battery) and #4 (Ignition/ON). If wiring is correct and fuses are good, the switch may need replacement.
Key falls out easily in OFF position.	Worn key or switch tumbler. Using a non-original or incorrect key.	Ensure you are using one of the two provided keys. If the issue persists, the tumbler mechanism may be worn.

SPECIFICATIONS

Feature	Detail
Brand	XYZIL
Model Numbers	81806710, 81806736, 81838693, 81871583
Operation Mode	ON-OFF (with momentary START and COLD START positions)
Current Rating	Max 35 Amps
Operating Voltage	12 Volts (DC)
Contact Type	Normally Open
Connector Type	Plug In
Terminal Type	Through Hole (7 terminals)
Circuit Type	1-way
Actuator Type	Ignition Key
Contact Material	Copper
Dimensions (Package)	4.45 x 2.72 x 2.52 inches
Weight (Package)	6.03 ounces

WARRANTY INFORMATION

Specific warranty details for the XYZIL Ignition Switch are provided by the manufacturer. Please refer to the documentation included with your purchase or contact XYZIL directly for comprehensive warranty terms and conditions.

CUSTOMER SUPPORT

For technical assistance, installation queries, or any other support needs regarding your XYZIL Ignition Switch, please contact the manufacturer or the seller from whom you purchased the product. Have your product model number and purchase details ready when contacting support.

Manufacturer: XYZIL

Seller: ReadyParts4U (if purchased via Amazon)

Note: Contact information such as phone numbers or email addresses are not provided in this manual. Please refer to the product packaging or the seller's website for direct contact methods.