

ELECTRIC SWITCH LOCK – INTRODUCTION

Stanley Security Solutions offers a line of electric switch locks available in various “on-off” and “momentary” keyed switch functions. Circuitry variations are available in single, double and triple pole with varied voltage and amperage ratings. Units may be keyed into any BEST system. The BEST interchangeable core offers versatility and adaptability for new and existing electrical controls, panels, machines, etc.

Features

- Double D lock cylinder prevents slipping and turning
- Screw terminals on all switch locks (except the 1W7A1) provides ease of installation
- All switches are UL recognized or listed

Note on functionality: Switch lock keys can only be removed in the 12 o'clock position.

How to select a switch lock

1. Determine the electrical requirements for the device being controlled:

- Voltage** (for example: 115 VAC or 24 VDC)
- Current or horsepower** (for example: 6 amps or 1/2 horsepower)
- Type of load**
 - Resistive (for example, heater elements)
 - Inductive (for example, motors, large transformers)
 - Lamp (for example, incandescent lights)

2. Determine the switch configuration (poles and throws) and key removal condition:

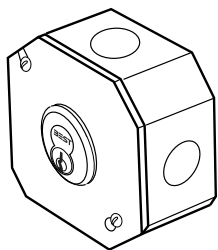
- Poles** To determine the number of poles, find how many wires from the power source need to be switched on and off by the switch lock.
- Throws** To determine the number of throws, find how many wires to the device the switch needs to control. For example, if a switch needs two different “on” conditions (low and high speed), two throws are needed. Or if the device is simply an “on-off” type (only one wire), you need one throw.

Note: A switch throw may be left unwired and used as an “off” condition.

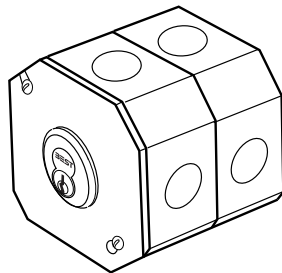
- Key removal** To determine the key removal condition, ask the question, “When the key is removed, should the switch be “off”, or could the switch be either “on” or “off” ?” Although the key can only be removed in the 12 o'clock position, the switch itself may be left in two or three positions. Check each switch lock for key removal switch positions.

3. Use the information collected and find the switch lock that best meets the requirements. Refer to the following catalog pages for a description of each switch lock. If environmental conditions make it necessary that the switch lock be housed in an electrical box, see the **Optional boxes** (above) for the box that best suits the switch lock and your application.

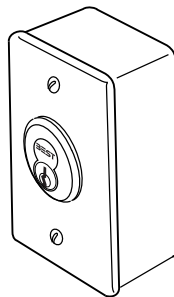
OPTIONAL BOXES



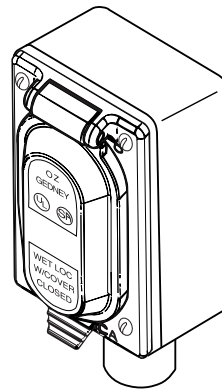
OC1
Standard octagon
center mount
3 1/2" x 3 1/2" x 1 5/8"



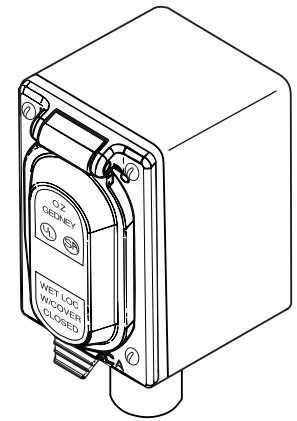
OC2
Deep octagon
offset mount
3 1/2" x 3 1/2" x 3 1/4"



INT
Interior box
4" x 2 1/8" x 1 7/8"



SWR
Standard weather
resistant box
4 5/8" x 2 7/8" x 2 1/4"



DWR
Deep weather
resistant box
4 5/8" x 2 7/8" x 3"

HOW TO ORDER – 1W ELECTRIC SWITCH LOCK

1W	7	B1	626	SWR	
Series	Core Housing	Function	Finishes	Box	
1W	7- 7 pin housing accepts all BEST cores	see pages 15-19	605 611 613 622 626	606 612 619 625 690	see above



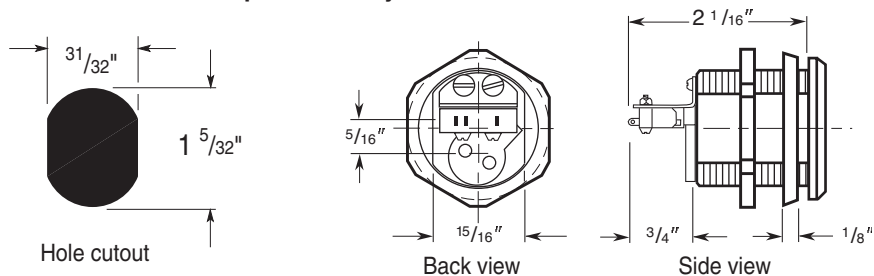
TW ELECTRIC SWITCH LOCKS

1W7A1

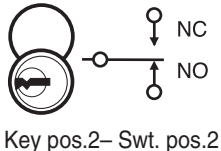
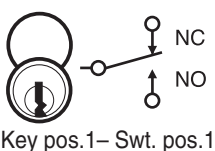
ContactsSilver or gold flash
Contact rating28 VDC, 10 amps resistive
 28 VDC, 3 amps inductive, lamp
 125 VAC, 10.1 amps resistive
 250 VAC, 10.1 amps resistive
Horsepower rating125 VAC, 1/4 HP
Operating temperature-85°F to +257°F (-65° to +125°C)
Switch typeSPDT (Single pole-double throw)
Switch lock actionMaintained (on-on)
Number of switches per assemblyOne



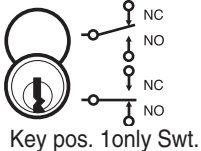
1W7A1



Key & switch positions



Remove key



Optional boxes

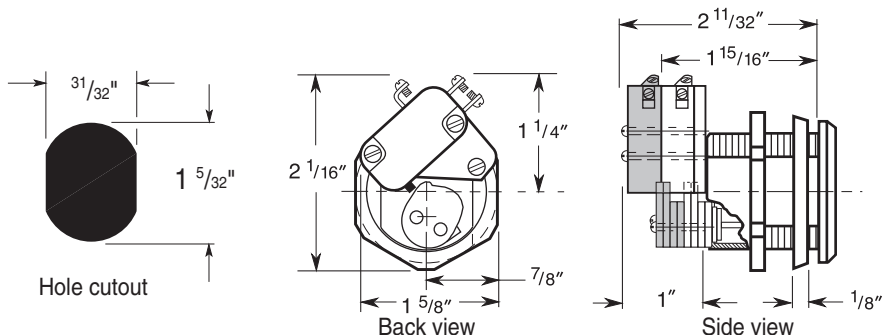
- DWR
- INT
- OC1
- OC2

1W7B1 & 1W7J1

Contact rating30 VDC, 15 amps, resistive
 125 VDC, 0.6 amps, resistive
 250 VDC, 0.3 amps, resistive
 125 VAC, 15 amps, resistive
 25 VAC, 5 amps, lamp
 250 VAC, 15 amps, resistive
Horsepower rating125-250 VAC, 1/2 HP
Operating temperatureup to +176°F (+80°C)
Switch typeSPDT (Single pole-double throw)
Switch lock actionMaintained (on-on)
Number of switches per assembly1W7B1: One 1W7J1: Two



1W7B1—One switch

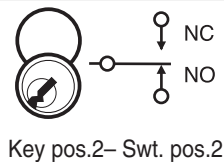
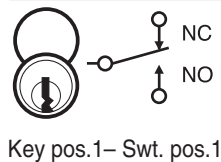


The shaded area shows the additional 1W7J1 switch and cam length.

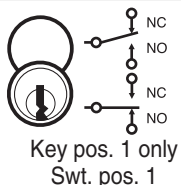


1W7J1—Two switches

Key & switch positions



Remove key



Optional boxes

- OC1 DWR
- OC2 INT
- SWR (1W7B1 only)

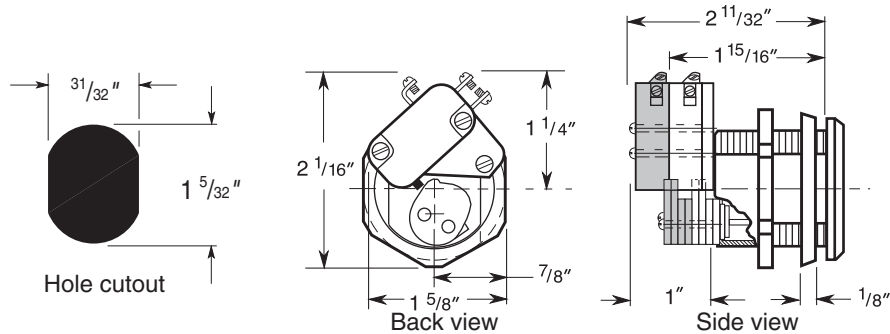
1W ELECTRIC SWITCH LOCKS

1W7B2 & 1W7J2

Contact rating	30 VDC, 15 amps, resistive 125 VDC, 0.6 amps, resistive 250 VDC, 0.3 amps, resistive 125 VAC, 15 amps, resistive 125 VAC, 5 amps, lamp 250 VAC, 15 amps, resistive
Horsepower rating	125–250 VAC, 1/2 HP
Operating temperature	up to +176°F (+80°C)
Switch type	SPDT (Single pole-double throw)
Switch lock action	Maintained (on-on)
Number of switches per assembly	1W7B2: One 1W7J2: Two



1W7B2—One switch

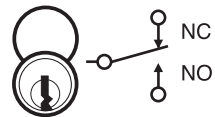


The shaded area shows the additional 1W7J2 switch and cam length.

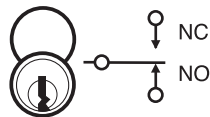
Key & switch positions

Remove key

Optional boxes



Key pos. 1— Swt. pos. 1



Key pos. 2 Swt. pos. 2
(360°CCW)



Key pos. 1 and 2
Swt. pos. 1 and 2

- OC1 DWR
- OC2 INT
- SWR (1W7B2 only)



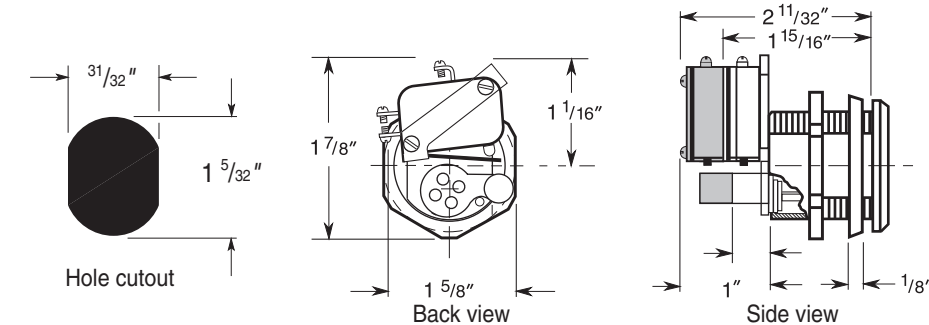
1W7J2—Two switches

1W7B3 & 1W7J3

Contact rating	30 VDC, 15 amps, resistive 125 VDC, 0.6 amps, resistive 250 VDC, 0.3 amps, resistive 125 VAC, 15 amps, resistive 125 VAC, 5 amps, lamp 250 VAC, 15 amps, resistive
Horsepower rating	125–250 VAC, 1/2 HP
Operating temperature	up to +176°F (+80°C)
Switch type	SPDT (Single pole-double throw)
Switch lock action	Momentary (on-on)
Number of switches per assembly	1W7B3: One 1W7J3: Two



1W7B3—One switch

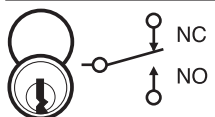


The shaded area shows the additional 1W7J3 switch and cam length.

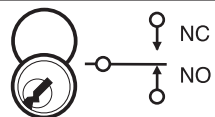
Key & switch positions

Remove key

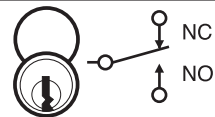
Optional boxes



Key pos. 1— Swt. pos. 1

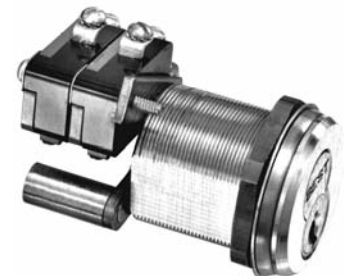


Key pos. 2— Swt. pos. 2



Key pos. 1— Swt. pos. 1

- OC1 DWR
- OC2 INT
- SWR (1W7B3 only)



1W7J3—Two switches

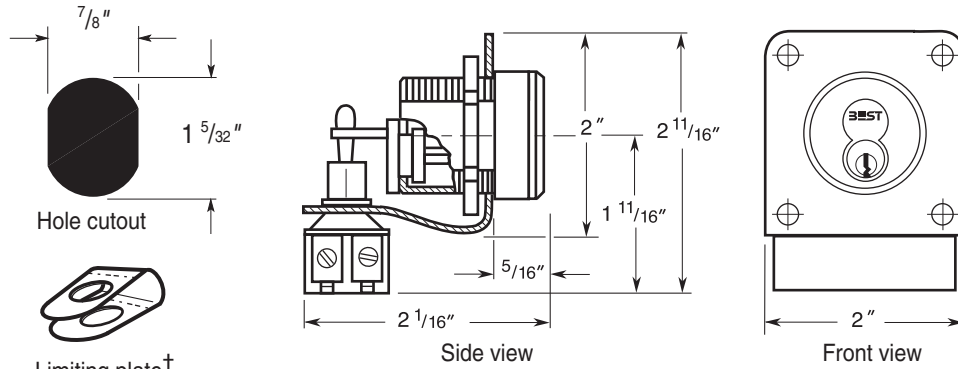
1W ELECTRIC SWITCH LOCKS

1W7D2

Contact rating110 VAC or VDC, 16 amps, resistive
 220 VAC or VDC, 8 amps, resistive
Horsepower rating1 HP @ 125–250 VAC or VDC
Operating temperature0°F to +150°F (-18°C to +66°C)
Switch typeDPST (Double pole-single throw)
Switch lock actionMaintained (off-on)
Number of switches per assemblyOne



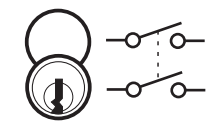
1W7D2



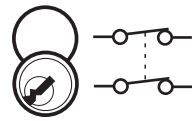
Key & switch positions

Remove key

Optional boxes



Key pos. 1– Swt. pos. 1



Key pos. 2– Swt. pos. 2



Key pos. 1 only
Swt. pos. 1 and 2†

OC2 DWR
INT SWR

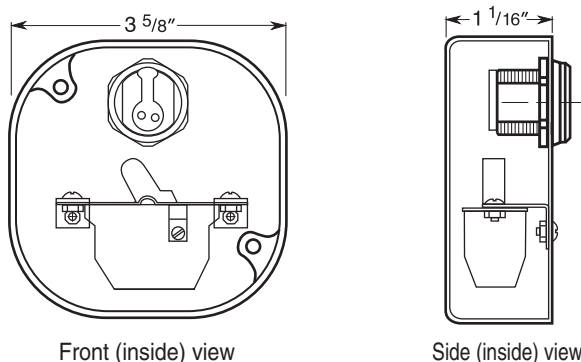
†Installing the limiting plate limits key removal to switch position 1 or 2. The key is always removed in the vertical position (key position 1).

1W7C2

Contact rating110 VAC or VDC, 10 amps, lamp
 220 VAC or VDC, 5 amps, resistive
Operating temperature-40°F to +150°F (-40° to +65°C)
Switch typeSPST (Single pole-single throw)
Switch lock actionMaintained (off-on)
Number of switches per assemblyOne



1W7C2



Key & switch positions

Remove key

Optional boxes



Key pos. 1– Swt. pos. 1



Key pos. 2– Swt. pos. 2



Key pos. 3 only
Swt. pos. 1 and 2

OC1
OC2

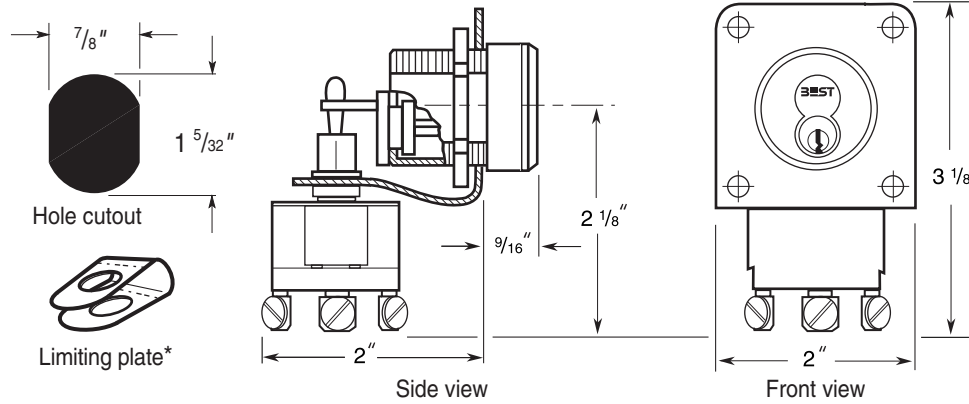
1W ELECTRIC SWITCH LOCKS

1W7E2

Contact rating	110 VAC, 15 amps, resistive 220 VAC, 10 amps, resistive
Horsepower rating	125–250 VAC or VDC, 3/4 HP; 1, 2, or 3 phase
Operating temperature	0 to +150°F (-18°C to 66°C)
Switch type	TPDT (Triple pole-double throw)
Switch lock action	Maintained Momentary (on-center off-on)
Number of switches per assembly	One

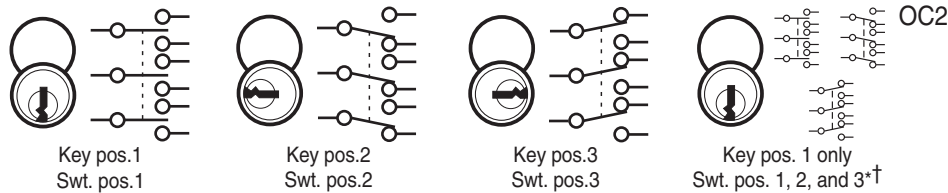


1W7E2



Key & switch positions

Remove key Opt. box



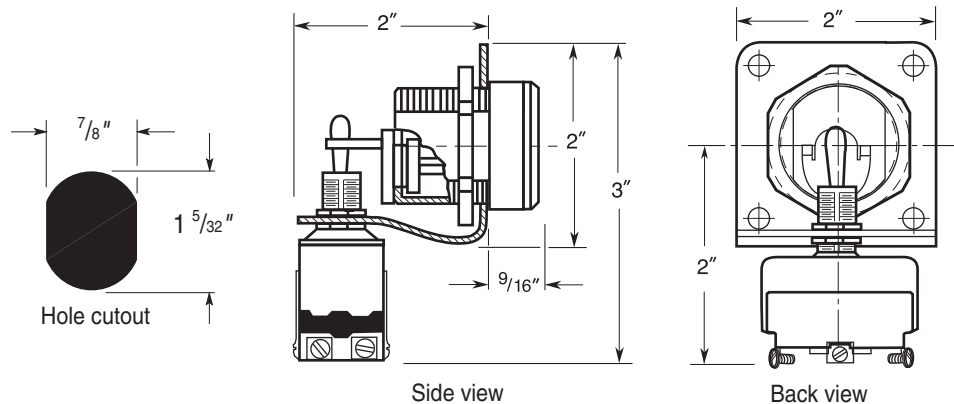
*Installing the limiting plate limits key removal to switch position 2, or 3. The key is always removed in the vertical position (key position 1). The limiting plate is available for 1W7E2 only.

1W7K4

Contact rating	110 VAC, 15 amps, resistive 220 VAC, 10 amps, resistive
Horsepower rating	250 VAC, 1/2 HP
Operating temperature	up to +221°F (+105°C)
Switch type	DPDT (Double pole-double throw)
Switch lock action	Momentary (on-center off-on)
Number of switches per assembly	One

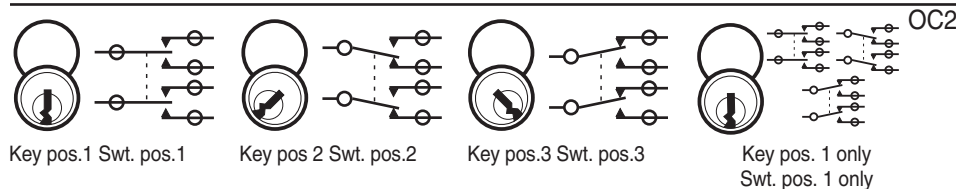


1W7K4



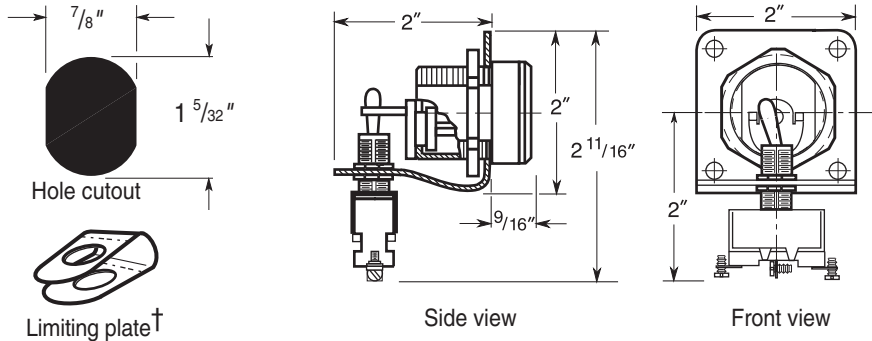
Key & switch positions

Remove key Opt. boxes



1W ELECTRIC SWITCH LOCKS 1W7L2

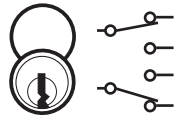
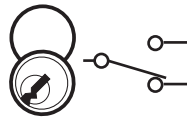
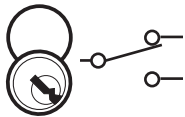
Contact rating110 VAC or VDC, 12 amps, resistive
 220 VAC or VDC, 6 amps, resistive
Operating temperatureup to +221°F (+105°C)
Switch typeSPDT (Single pole-double throw)
Switch lock actionMaintained (on-on)
Number of switches per assemblyOne



Key & switch positions

Remove key

Optional boxes

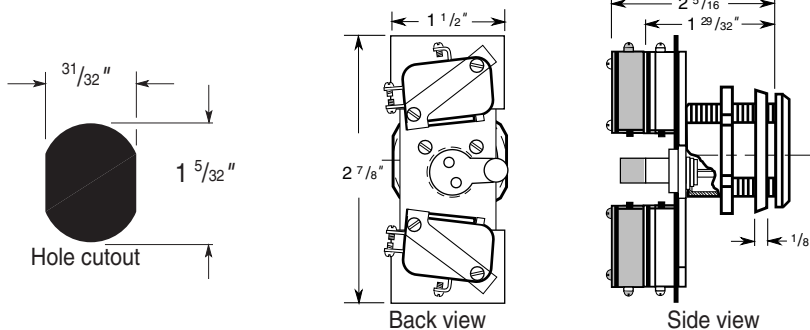
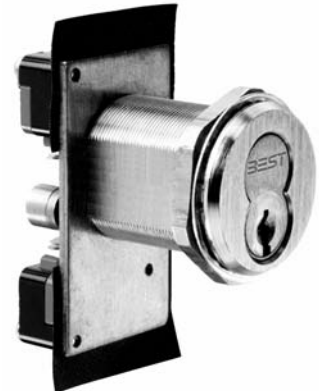


DWR
OC2

†Installing the limiting plate limits key removal to switch position 1 or 2. The key is always removed in the vertical position (key position 3).

1W7P4 & 1W7R4

Contact rating30 VDC, 15 amps, resistive
 125 VDC, 0.6 amps, resistive
 250 VDC, 0.3 amps, resistive
 125 VAC, 15 amps, resistive
 125 VAC, 5 amps, lamp
 250 VAC, 15 amps, resistive
Horsepower rating125–250 VAC, 1/2 HP
Operating temperatureup to +176°F (+80°C)
Switch typeSPDT (Single pole-double throw)
Switch lock actionMomentary (on-on)
Number of switches per assembly1W7P4: Two 1W7R4: Four

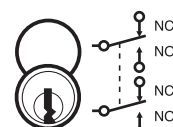
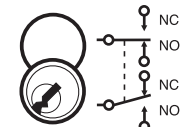
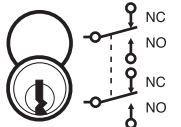


The shaded area shows the additional 1W7R4 switches and cam length.

Key & switch positions

Remove key

Boxes



SWR†
INT†
DWR
†1W7P4 only

