

## Features/Benefits

- Long travel
- Available with LED
- Long life contact design
- Epoxy terminal seal compatabile with bottom wash cleaning
- RoHS compliant models available

Materials

### **Typical Applications**

- Instrumentation
- Computers and peripherals
- Telecommunications and networking equipment

c Sus Models Available

### Specifications

CONTACT RATING: Q contact material: 6 AMPS @ 120 V AC or 28 V DC; 3 AMPS @ 250 V AC. See page A-59 for additional ratings.

ELECTRICAL LIFE: 50,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 20 m $\Omega$  typ. initial @

2-4 V DC, 100 mA, for both silver and gold plated contacts. INSULATION RESISTANCE:  $10^{9}\Omega$  min.

DIELECTRIC STRENGTH: 1,000 Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 65°C

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

CAP INSTALLATION FORCE: 10 lbs. maximum permissible.

NOTE: Any models supplied with P, R, S, Q, B or G contact material are RoHS compliant

**NOTE:** Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

CASE: Glass filled nylon 6/6 or diallyl phthalate (DAP), flame retardant (UL 94V-0).

PLUNGER: S, S1, S2 Options: Glass filled nylon or glass filled polyester (PBT) (UL 94V-0). L, L1 Options: Brass, nickel plated.

CAP & FRAME: Nylon, black standard.

BUSHING: Brass or zinc, nickel plated.

HOUSING: Stainless steel.

SWITCH SUPPORT: Brass or steel, matte-tin plated.

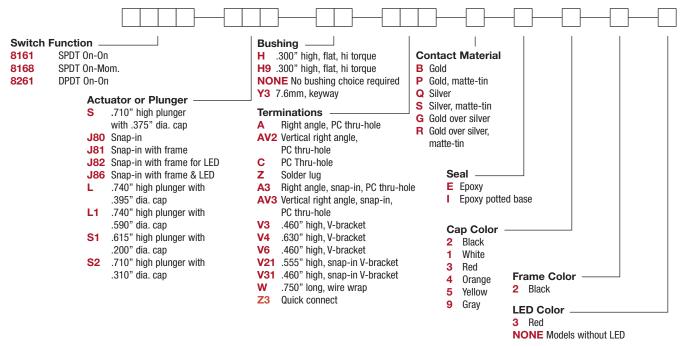
END CONTACTS: Q contact material: Coin silver, silver plated. See page A-59 for additional contact materials.

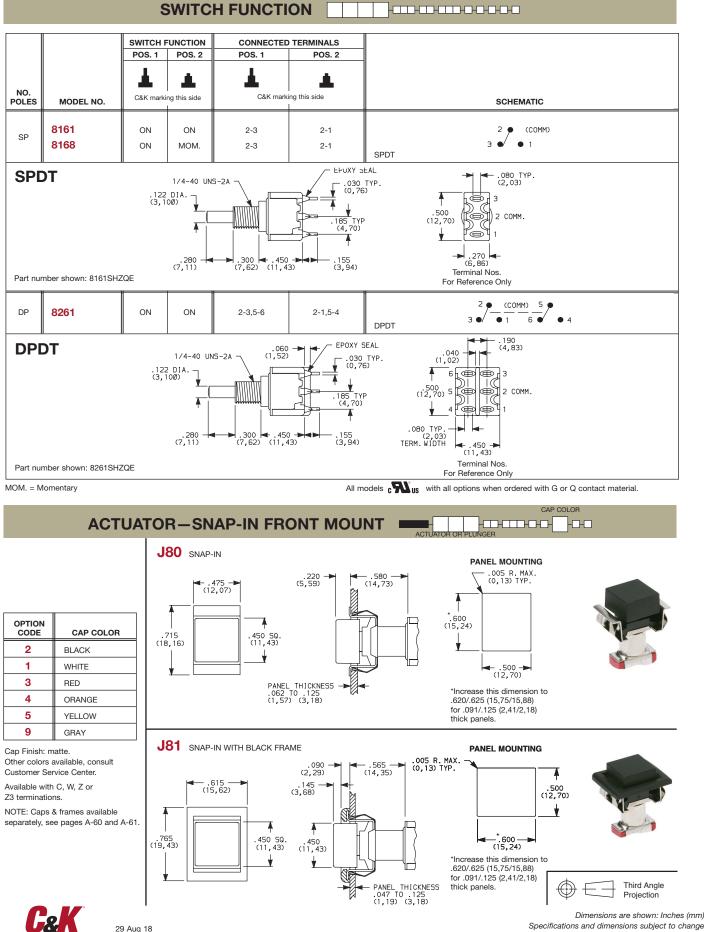
CENTER CONTACT & ALL TERMINALS: Q contact material: Copper alloy, silver plated. See page A-59 for additional contact materials.

- TERMINAL SEAL: Epoxy. Refer to soldering and cleaning in Technical Data Chapter.
- HARDWARE: Nut & Locking Ring: Brass, nickel plated; Lockwasher: Steel, nickel plated.

### **Build-A-Switch**

To order, simply select desired option from each category and place in the appropriate box. Available options are shown and described on pages A-53 thru A-61. For additional options not shown in catalog, consult Customer Service Center. All models have epoxy terminal seal and are compatible with all "bottom-wash" PCB cleaning methods.





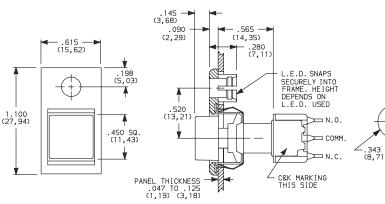
## 29 Aug 18

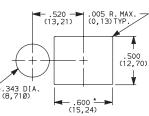
A-53

Specifications and dimensions subject to change

## ACTUATOR-SNAP-IN FRONT MOUNT







PANEL MOUNTING

\* Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thick panels.

Available with C, W, Z or Z3 terminations.

#### LED not included.

Pushbutton >

For LED information, see page A-61.

NOTE: Caps & frames available separately, see pages A-60 and A-61.

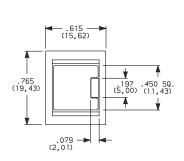
Other colors available, consult Customer Service Center.

OPTION CODE	CAP COLOR			
2	BLACK			
1	WHITE			
3	RED			
4	ORANGE			
5	YELLOW			
9	GRAY			

**ACTUATOR-SNAP-IN FRONT MOUNT** 

### J86 SNAP-IN WITH BLACK FRAME AND LED





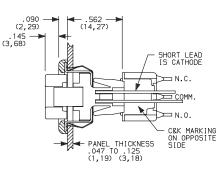
8161J86ZQE223 SPDT

Available with C, W, Z or Z3 terminations and SPDT models only.

NOTE: Caps & frames available separately, see pages A-60 and A-61.

Other colors available, consult Customer Service Center.

OPTION CODE	CAP COLOR			
2	BLACK			
1	WHITE			
3	RED			
4	ORANGE			
5	YELLOW			
9	GRAY			

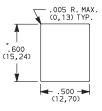


ACTUATOR OR PLUNGER

#### PANEL MOUNTING

LED COLOR

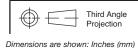
CAP COLOR



\* Increase this dimension to .620/.625 (15,75/15,88) for .091/.125 (2,31/3,18) thick panels.

OPTION CODE	LED COLOR		
3	RED		

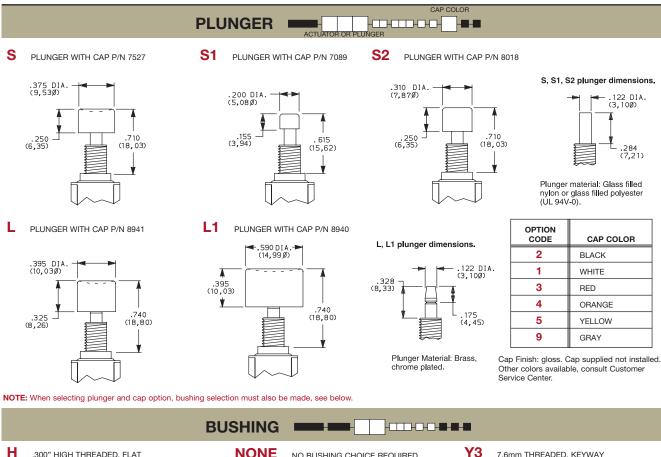
For LED information, see page A-61.

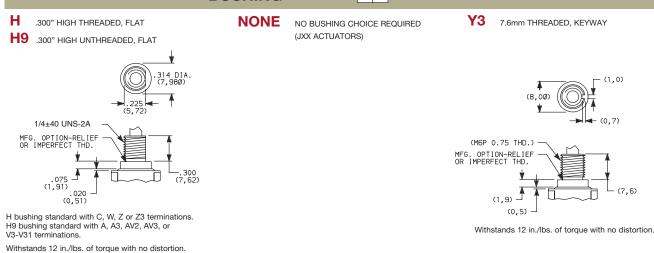


Specifications and dimensions subject to change

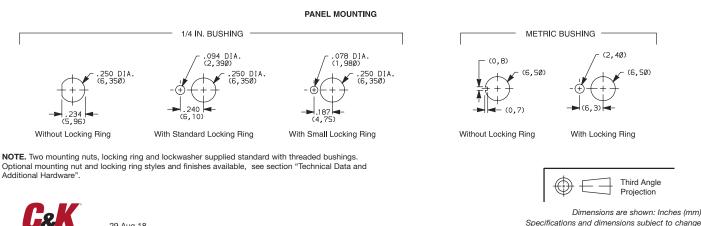


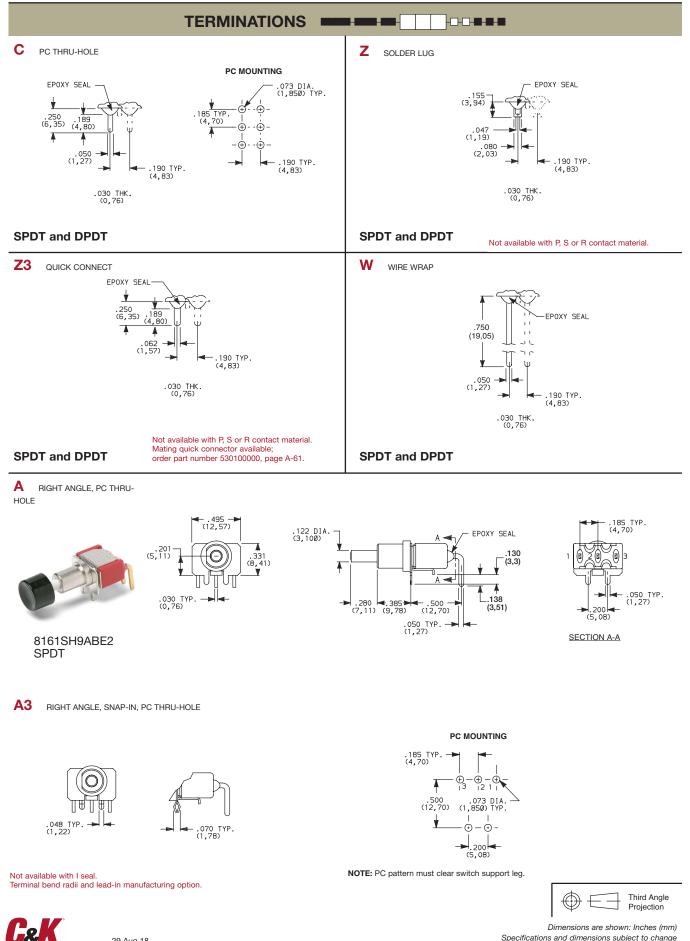
www.ckswitches.com





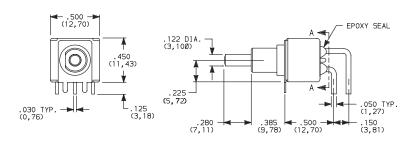
NOTE: When selecting bushing option, plunger selection must also be made, see above. No bushing option choice required when any JXX actuator option is selected.

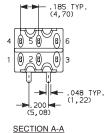




Pushbutton >

A RIGHT ANGLE, PC THRU-HOLE

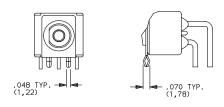


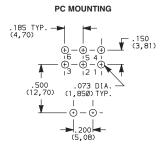




8261SH9ABE2 DPDT

A3 RIGHT ANGLE, SNAP-IN, PC THRU-HOLE

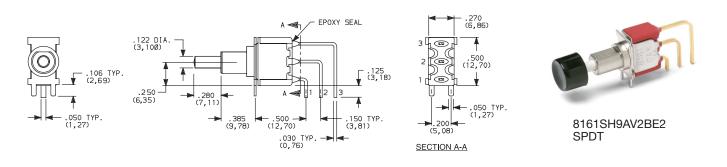




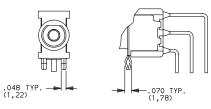
#### Not available with I seal.

Terminal bend radii and lead-in manufacturing option.

AV2 VERTICAL RIGHT ANGLE, PC THRU-HOLE, .150" PITCH



AV3 VERTICAL RIGHT ANGLE, SNAP-IN, PC THRU-HOLE, .150" PITCH



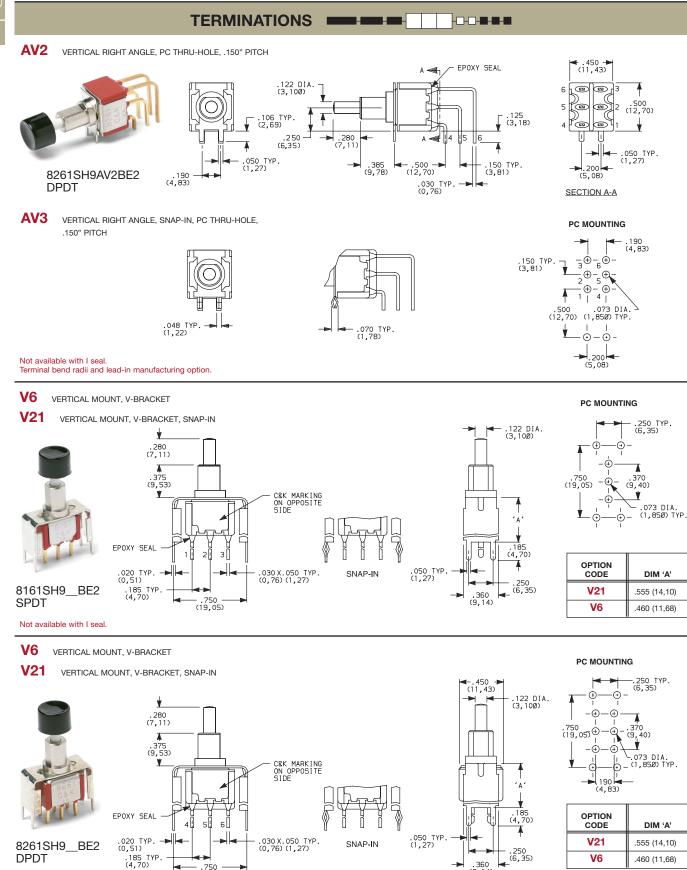
Not available with I seal. Terminal bend radii and lead-in manufacturing option.



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Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



Not available with I seal.



- .750 -(19,05)

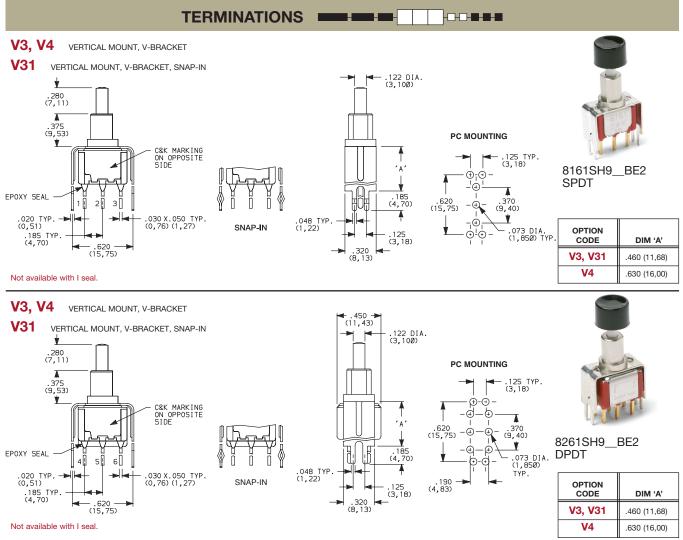
.360 (9,14)

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OPTION CODE	DIM 'A'			
V21	.555 (14,10)			
<b>V</b> 6	.460 (11,68)			

Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

Third Angle Projection



## CONTACT MATERIAL

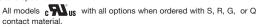
OPTION CODE	CONTACT MATERIAL	TERMINAL PLATING	RATINGS			
В	GOLD 1	GOLD <sup>1</sup>		0.4 VA MAX. @ 20 V AC OR DC MAX.		
Р		MATTE-TIN <sup>6</sup>	LOW LEVEL/DRY CIRCUIT			
Q	SILVER 4,5	SILVER 5		6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.		
S	SILVER 7,0	MATTE-TIN 6	POWER			
G	GOLD OVER	GOLD <sup>3</sup>		0.4 VA MAX @ 20 V AC OR DC MAX. OR		
R	SILVER <sup>2,3</sup>	MATTE-TIN 6	LOW LEVEL/DRY CIRCUIT OR POWER	6 AMPS @ 120 V AC OR 28 V DC; 3 AMPS @ 250 V AC.		

\* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

- <sup>1</sup> CONTACTS & TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>2</sup> END CONTACTS: Coin silver, with gold plate over nickel plate.
- <sup>3</sup> CENTER CONTACTS & ALL TERMINALS: Copper alloy, with gold plate over nickel plate.
- <sup>4</sup> END CONTACTS: Coin silver, silver plated.
- <sup>5</sup> CENTER CONTACT & ALL TERMINALS: Copper alloy, silver plated.
- <sup>6</sup> TERMINALS: Copper alloy, with matte-tin over nickel plate.

**NOTE:** Any models supplied with P, S, R,Q, B or G contact material are RoHS compliant.

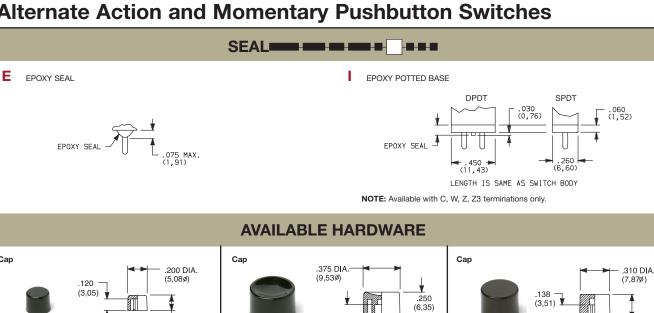




- B contact material standard with all terminations except C, Z & Z3.
- Q contact material standard with C, Z & Z3 terminations.
- P, S & R contact materials not available with Z & Z3 terminations.

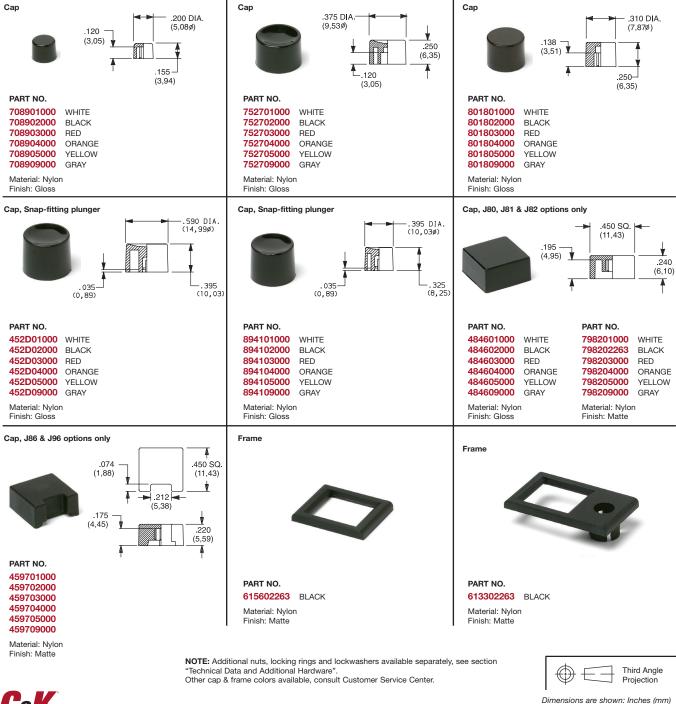


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change



Specifications and dimensions subject to change

29 Aug 18





**AVAILABLE HARDWARE** 

1 Contraction

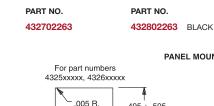
Fits Z3 Termination female connector

PART NO. 530100000 Available in loose pieces.

Frames snap into panel opening and are independent from switch mounting. Accurate positioning of the PC mounted switch relative to the panel opening is necessary to provide proper clearance between actuator and frame. Available in two basic styles and four panel thicknesses .047-.125 in. Material: Nylon. Finish: Matte.







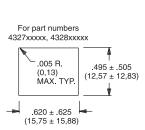
(0.13)

.090" (2,29) PANEL THK.

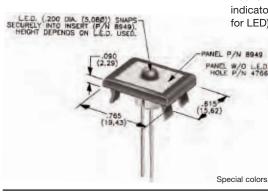
PANEL MOUNTING xx .495 ± .505 (12,57 ± 12,83)

.125" (3,18) PANEL THK.

MAX' TYP-.595 ± .605 (15,11 ± 15,37)



Panel Inserts



Above frames (part nos. 432XXXXX) are also available with insert which accepts LED for indicator light assembly. Order insert separately from frame. Blank insert panel (without hole for LED) also available. **LED not included.** 

PANEL INSERT WITH HOLE FOR LED PART NO. 894902000 BLANK PANEL INSERT WITHOUT HOLE FOR LED PART NO. 476602000 BLACK

Special colors, custom markings available, consult Customer Service Center

### LED INFORMATION

SWITCHES WITH LED SUPPLIED: J86 OPTION:

Rectangular LEDs are supplied on 8060 Series pushbutton switches with J86 option. These LEDs are factory installed and are not replaceable. The following specifications apply:

			TYP.	TYP.	MAX RAT	NGS AT 25°C AMBIENT T	EMPERATURE	Flat denotes	.025 SQ.
OPTION CODE	COLOR	TYP. INTENSITY	FORWARD VOLTAGE	FORWARD	FORWARD VOLTAGE	CONTINUOUS FORWARD CURRENT	POWER DISSIPATION	cathode200 DIA	TYP. (0,63)
6	Green	1.0 mcd		20 mA		50 mA	125 mW		.030-
3	Red*	0.5 mcd	2.1 V	10 mA	2.5 V	30 mA	75 mW	.230 DIA <del>.      </del> .(5,84˘)	(0,76)
5	Yellow	4.0 mcd		20 mA		50 mA	125 mW		.340 .750 (8,64) .750 (19,05)

**Process Information:** Soldering to LED leads must be completed within 5 seconds at 500°F (260°C) maximum.

Caution: Circuit elements must limit forward current of LED to 50mA max. continuous.

\* Extra-bright red LED available (typ. intensity 4.5 mcd), consult Customer Service Center.

LEDs are not supplied with J82 & J84 options. LED snaps into switch frame surrounding actuator and is wired externally.



Suggested LED for J82 & J84 options. Dimensions for reference only.

> Third Angle Projection

Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

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 6PA148-E6
 6PA32
 6PA9
 700109

 700303A56
 700C1GRY
 700C2GRN
 704-6001
 704.960.9
 704.965.2
 704.965.6
 704.966.0
 7089-3
 710082-B11
 71M1048
 757200264

 764300000
 MHU35
 MHU37
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 825.005.011
 825.055.011
 826.000.071
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 827.400.021

 835.900.023
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 MML52E10C
 MML92HGH
 MML93K
 84211M02CNNS
 84217A8.0LNOS
 842.500.011

 843.000.011
 843187-000
 843487-000
 84-901
 84211
 84212
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