Introduction of General Bulb Socket &

Base in

Per-Accurate Inc.

Vehicles (CAR/BOAT/MOTORCYCLE/SOOTER)

Industry Use/ Indoor Lighting
• S18/S20/S25 Bayonet 1157 ( 2 FILAMENTS ):

1. Bay15d: Standard Type with 2 parallel clip points in 180°

2. Baz15d: Special Type with 2 clip points in 150°
Features & Application:

1. Two contacts, one is for regular tail light, another is for brake light

2. 12VDC: Car/Motorcycle/Scooter 24VDC: Truck/Trailer/Boat (some boats are compatible in both 12/24V)

3. Usually for BRAKE/STOP LIGHT (Depends on types of vehicles)

Mutual Replaced By:

1016, 1034, 1076, 1130, 1154, 1158, 1493, 2057, 2357, 2397, 3496, 7225, 7528
• S18/S20/S25 Bayonet 1156 (SINGLE FILAMENT):

1. Ba15s: Standard Type with 2 parallel clip points in 180°

[Diagram of Ba15s]

2. Bau15s: Special Type with 2 clip points in 150°

[Diagram of Bau15s]
Features & Application:

1. One contact

2. 12VDC: Car/Motorcycle/Scooter 24VDC: Truck/Trailer/Boat (some boats are compatible in both 12/24V)

3. Usually for SIGNAL/TURN/INDICATOR LIGHT (Depends on types of vehicles)

Mutual Replaced By or usually well known to call:

#93, 1073, 1093, 1129, 1141, 1159, 1295, 1459, 1619, 1651, 1680, 3497, 5007, 5008, 7506, 7527
**BA9S/BAX9S Bayonet 1895 (SINGLE FILAMENT):**

1. Ba9s: Standard Type with 2 parallel clip points in 180°

   ![Diagram 1](image1.png)

   ![Diagram 2](image2.png)

   [± 0.1mm]

2. Bax9s: Special Type with 2 clip points in 150°

   ![Diagram 3](image3.png)

   ![Diagram 4](image4.png)

   [± 0.1mm]
Features & Application:

1. One contact (Smaller Scale than 1156)

2. 12VDC: Car/Motorcycle/Scooter 24VDC: Truck/Trailer/Boat (some boats are compatible in both 12/24V)

3. Usually for SIGNAL/TURN/INTERIOR/LICENSE PLATE LIGHT
   (Depends on types of vehicles)

Mutual Replaced By or usually well known to call:

53, 57, 182, 257, 363, 1445, 1488, 1813, 1815, 1889, 1891, 1892, 1893, 6253, 64111, 12MB, 1895, 1898,
• T10/T12/T13/T15 Wedge (194 906):

* T"x"(T10/T12..etc.), “x” stands for the width on the top of bulb, there is nothing to do with the socket, basically
T8/T10/T12/T13/T15 use the same socket in 10mm, that’s what we usually call T10 socket.
Features & Application:

1. 12VDC: Car/Motorcycle/Scooter  24VDC: Truck/Trailer/Boat(some boats are compatible in both 12/24V)

2. Usually for SIGNAL/TURN/INDICATOR/LICENSE PLATE/ GAUGE DASHBOARD/INTERIOR LIGHT( Depends on types of vehicles)

Mutual Replaced By or usually well known to call:

W5W 147 152 158 159 161 168 184 192 193 194 259 280 285 447 464
501 555 558 585 655 656 657 1250 1251 1252 2450 2652 2921 2825 PC 175
2886X
579 901 904 908 909 912 914 915 916 917 918 920 921 922 923 926 927
928 939
• T5 Wedge(74):

* T"y"(T5/T6.5..etc.), “y” stands for the width on the top of bulb, there is nothing to do with the socket, basically T5/T6.5 use the same socket in 5mm, that’s what we usually call T5 socket.
Features & Application:

1. 12VDC: Car/Motorcycle/Scooter  24VDC: Truck/Trailer/Boat(some boats are compatible in both 12/24V)

2. Usually for LICENSE PLATE/ GAUGE DASHBOARD/INSTRUMENT PANEL/INTERIOR LIGHT (Depends on types of vehicles)

Mutual Replaced By or usually well known to call:

17 18 37 70 73 79 85 86 2721
• **T20 Wedge (7440/7443):**

1. 7443: Standard Type with 2 filaments, same functions as 1157/3157

![Diagram of 7443 bulb]

\[
\begin{align*}
&16.40\text{mm} \\
&3.50\text{mm} \\
&21.00\text{mm}
\end{align*}
\]

[± 0.1mm]

2. 7440: Standard Type with 1 filament, same functions as 1156/3156

![Diagram of 7440 bulb]

\[
\begin{align*}
&16.40\text{mm} \\
&3.50\text{mm} \\
&21.00\text{mm}
\end{align*}
\]

[± 0.1mm]

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Features & Application:

1. 12VDC: Car/Motorcycle/Scooter 24VDC: Truck/Trailer/Boat (some boats are compatible in both 12/24V)

2. 7443: Same as 1157/3157; 7440: Same as 1156/3156

3. 7443 functions in either 7443(Double) or 7440(Single) sockets and has extra contact that connect to nothing if install for 7440 function, which means 7443 can replace 7440, but 7440 is not available to replace 7443.

Mutual Replaced By or usually well known to call:

W21W
• T20 Wedge(3156/3157):

1. 3157: Standard Type with 2 filaments, same functions as 1157/7443

2. 3156: Standard Type with 1 filament, same functions as 1156/7440
Features & Application:

1. 12VDC: Car/Motorcycle/Scooter 24VDC: Truck/Trailer/Boat (some boats are compatible in both 12/24V)

2. 3157: Same as 1157/7443 ; 7440: Same as 1156/7440

3. 3157 functions in either 3157(Double) or 3156(Single) sockets and has extra contact that connect to nothing if install for 3156 function, which means 3157 can replace 3156, but 3156 is not available to replace 3157.

4. 3156/3157 are usually used for USA brand cars such as GM (but not all GM cars are suitable, still needs to compare the original one)

Mutual Replaced By or usually well known to call:

3057 3155 3357 3457 4157 3456 4156

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• **FESTOON 31/36/39/41mm:**

![Festoon sizes](image)

**Features & Application:**

1. **12VDC:** Car/Motorcycle/Scooter **24VDC:** Truck/Trailer/Boat (some boats are compatible in both 12/24V)

2. Usually can be divided into 4 standard types: 31/36/39/41 mm, suitable size is determined by various cars

3. Mostly used for car interior reading lighting or plate light.

4. 31mm = 1-1/4", mutual replaced by 3021 3022 3175 6428 6430

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5. 36mm = 1-3/8", mutual replaced by 3423 3425 6411 6418 6461 6423

6486X 7456

6. 39mm = 1-1/2", mutual replaced by 3423 3425 6411 6423 6461

7. 41mm = 1-3/4", mutual replaced by 211 212-2 214-2 6413 6429 4410
• **E Series:**

  **Introduction of “E series”**

  a. **E = Edison Screw**

  b. **Exx =** the diameter in millimeters, even in the U.S., where the bulb glass is listed in eighths of an inch. (For example, **E12 has a diameter of** 12mm.) There are four common sizes of screw-in sockets used for line-voltage lamps:
1. Miniature E10

E10 bulbs are common on battery-powered flashlights, as are bayonet mounts (although those are usually held in with a circular flange located where the base meets the bulb).

Mutual Replaced By or usually well known to call :1449
52,258,428,432,1446,1447

2. Candelabra E12 North America / E11 in Europe

The E11 base is sometimes used for expensive 50/75/100-watt halogen lights in North America, where it is called the "mini-can",

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and tighter threads are apparently used to keep them out of
E12-base nightlights and other places where they could start a fire.

3. Intermediate: E17 North America / E14 Europe

Large outdoor Christmas lights use an intermediate base, as do some desk lamps and many microwave ovens.

E17/E14 are also sometimes used, especially in small table lamps and novelty lighting, and occasionally the lights on newer ceiling fans.
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4. Medium or Standard E26 North America / E27 Europe

E26/E27 12V are also produced for recreational vehicles.

5. Mogul: E39 North America, E40 in Europe

The large E39/E40 is used on street lights, and high-wattage lamps and many non-incandescent high-intensity discharge bulbs.
* Other Applications:

Christmas lights use various base sizes: E17 for C9 bulbs, E12 for C7 bulbs, possibly E10 for some decades-old series-wired sets in the U.S., and an entirely different wedge base for mini lights.

In countries which use 220–240 volts AC domestic power, E27 and E14 are the most common sizes, although the bayonet mount is also used. In 120-volt North America and 100-volt Japan, the standard size for general-purpose lamps is E26