

# STARMAX



## **AUTOMOTIVE** BATTERIES

HEAVY TRUCK STARTER BATTERY - BCI STANDARD

The world's leading battery brand



[www.starmaxbatteries.com](http://www.starmaxbatteries.com)

# HEAVY TRUCK STARTER BATTERY - BCI STANDARD



## Application

The heavy truck starter batteries are Ideal for the demands of typical heavy-duty commercial equipment, including vibration, frequent starts, long idle periods and weather extremes. It's widely applied to heavy trucks, coaches, and engineering vehicles.

## Special Features

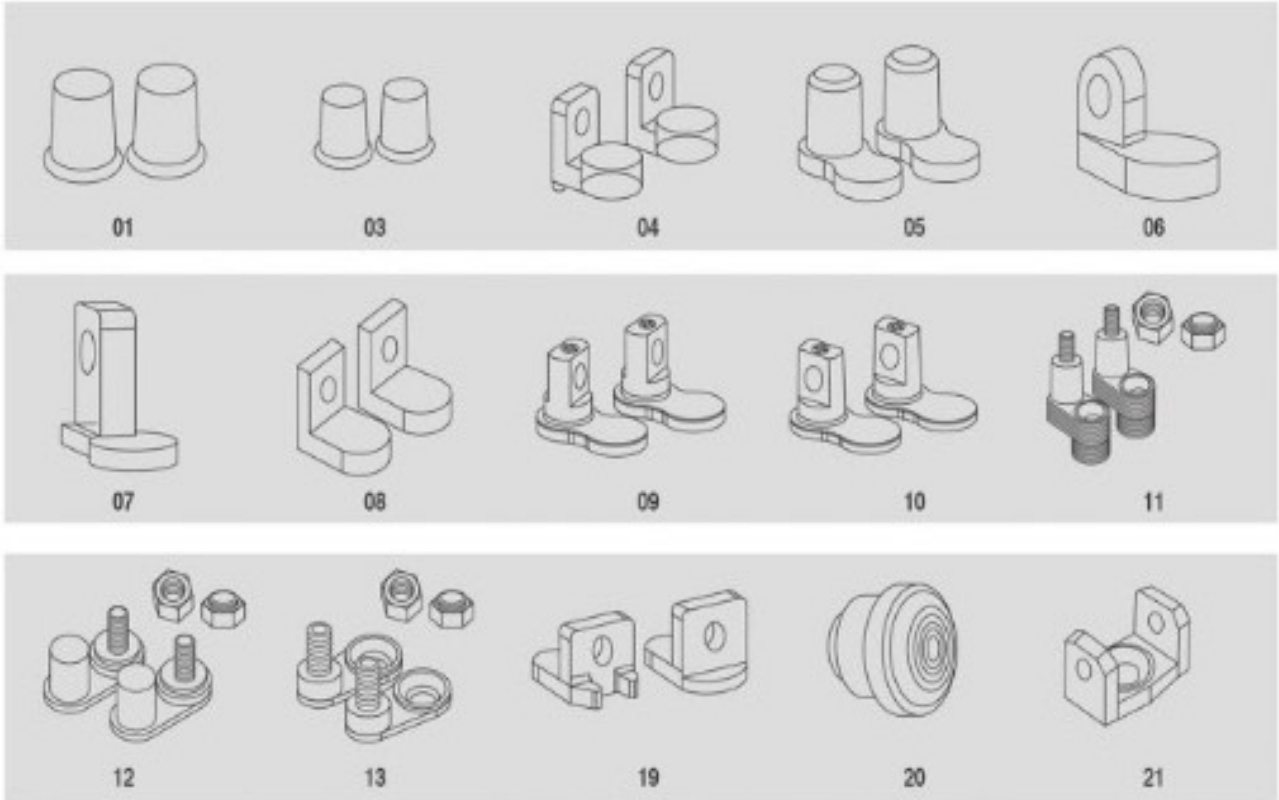
- ✓ High discharge capacity
- ✓ Superior cranking performance
- ✓ Fast ignition
- ✓ Endurable, worry free during long distance transportation
- ✓ Stable and vibration resistance, maintenance-free

## SPECIFICATIONS

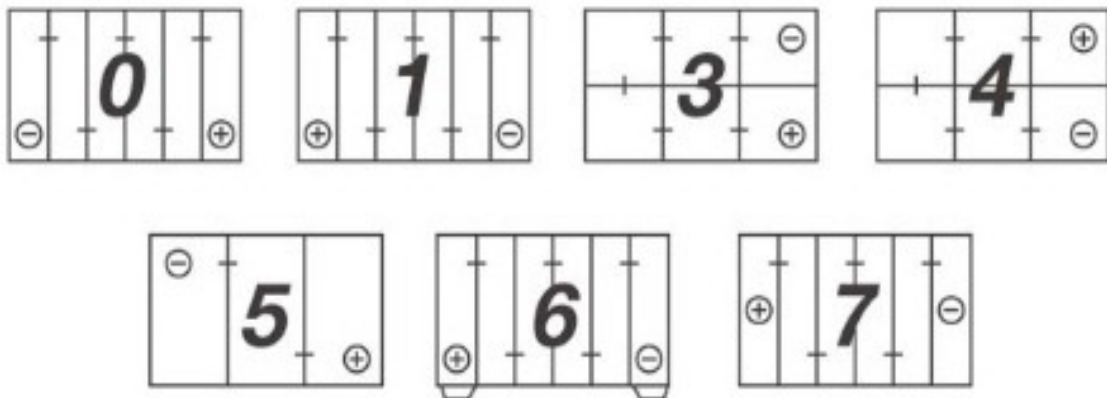
BCI Gr.No	BCI NO.	Voltage (V)	RC (min)	CCA (-18°C)EN	Dimensions(mm) L*W*H	Terminal (Layout /Type)	Hold Down	Weight (kg)
31	31A-640	12	115	640	331*175*241	7/1	B01	21.6
31	31A-690	12	122	690	331*175*241	7/1	B01	22.3
31	31A-780	12	149	780	331*175*241	7/1	B01	23.2
31	31A-870	12	170	870	331*175*241	7/1	B01	24.3
31	31A-960	12	186	960	331*175*241	7/1	B01	25.9
31S	31S-640	12	115	640	331*175*241	7/11	B01	21.6
31S	31S-690	12	122	690	331*175*241	7/11	B01	22.3
31S	31S-780	12	149	780	331*175*241	7/11	B01	23.2
31S	31S-870	12	170	870	331*175*241	7/11	B01	24.3
31S	31S-960	12	186	960	331*175*241	7/11	B01	25.9




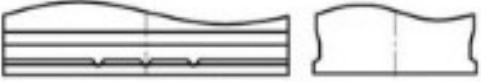





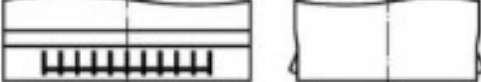



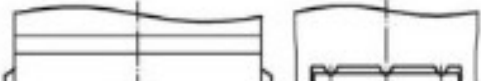






# TERMINAL



# LAYOUT



# HOLD DOWN

B00		B01	
B02		B03	
B04		B05	
B06		B07	
B08		B09	
B10		B11	
B12		B13	
B14		B15	
B16		B17	

# BATTERY CARE AND MAINTENANCE



- The vent hole on both sides of the battery cover or on the vent plug should be checked regularly. Keep the holes from being blocked by dust and ice water to avoid poor exhaust, shell deformation and burst



- When charging batteries, work in a well-ventilated area. Always turn battery charger off before disconnecting battery

- Battery usage should be discontinued if the battery terminals are burnt.

- We recommend constant voltage charging instead of constant current charging for the battery

- When testing battery performance, start with reserve capacity

- When servicing a sealed maintenance free (SMF) battery, check the State of Charge Indicator. This gives you a snap shot of the battery's condition and whether the battery needs to be charged or replaced. The vehicle may still start the engine although the indicator outlines to replace the battery. If the State of Charge Indicator advises 'Replace Battery' it is important that the battery is replaced as the electrolyte levels may be below the plates which can lead to an internal explosion



- If you have a maintainable battery, it is important to check if the battery has sufficient electrolyte covering the battery plates. If topping up is required, do not over fill as the fluid levels will rise when the battery is fully charged and may overflow. Top up using distilled or demineralized water and never fill with sulphuric acid



- Check the battery's state of charge. Most batteries have a State of Charge Indicator on top of the battery that will give you an on the spot diagnosis of the battery condition. However, a more reliable way to check is with a voltmeter to determine the stabilized voltage or if the vent caps are removable a hydrometer to determine the specific gravity (SG) of the electrolyte

- Usually it takes 3 to 5 seconds to start a car at first time. The restarting should be at intervals of more than 15 seconds. If the car fails to be start after many times, check if there is any damage on the battery or the circuit. This situation is common in winter



- For batteries used in seasonal applications and stored long term, fully recharge the battery prior to storing. Check the state of charge or voltage regularly. Should the voltage drop below 12.5V, recharge the battery. It is important to check the battery completely before reconnecting to electrical devices

- Keep the battery top clean and dry. Apply either petroleum jelly or Vaseline to cable clamps and terminals for proper lubrication and added protection

- Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged

## WARNING

**01**

Battery acid can cause burns. Please keep away from children. Suitable hand, eye and face protection and protective clothing must be worn. If in the eyes, hold eyelids apart and flush the eye continuously with running water or contact a doctor immediately. If skin or hair contact occurs, remove contaminated clothing and flush skin or hair with running water.

**02**

Keep away from heat source and open fire. Keep ventilated when charging or using batteries to avoid burst hurt.

**03**

Do not open the battery to avoid explosion.

**04**

Do not use metal tools to connect positive and negative terminal, otherwise the battery will short circuit and cause fire or explosion.

**05**

Do not Discard the batteries. Insulate the +ve and -ve Terminals with insulating tape and take them to a recycling facility.

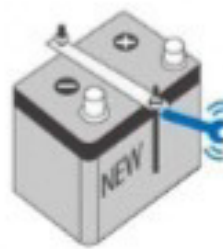
## HOW TO REPLACE BATTERY



Switch off the engine and keep sparks, flames, cigarettes away from battery at all times before removing the old battery.



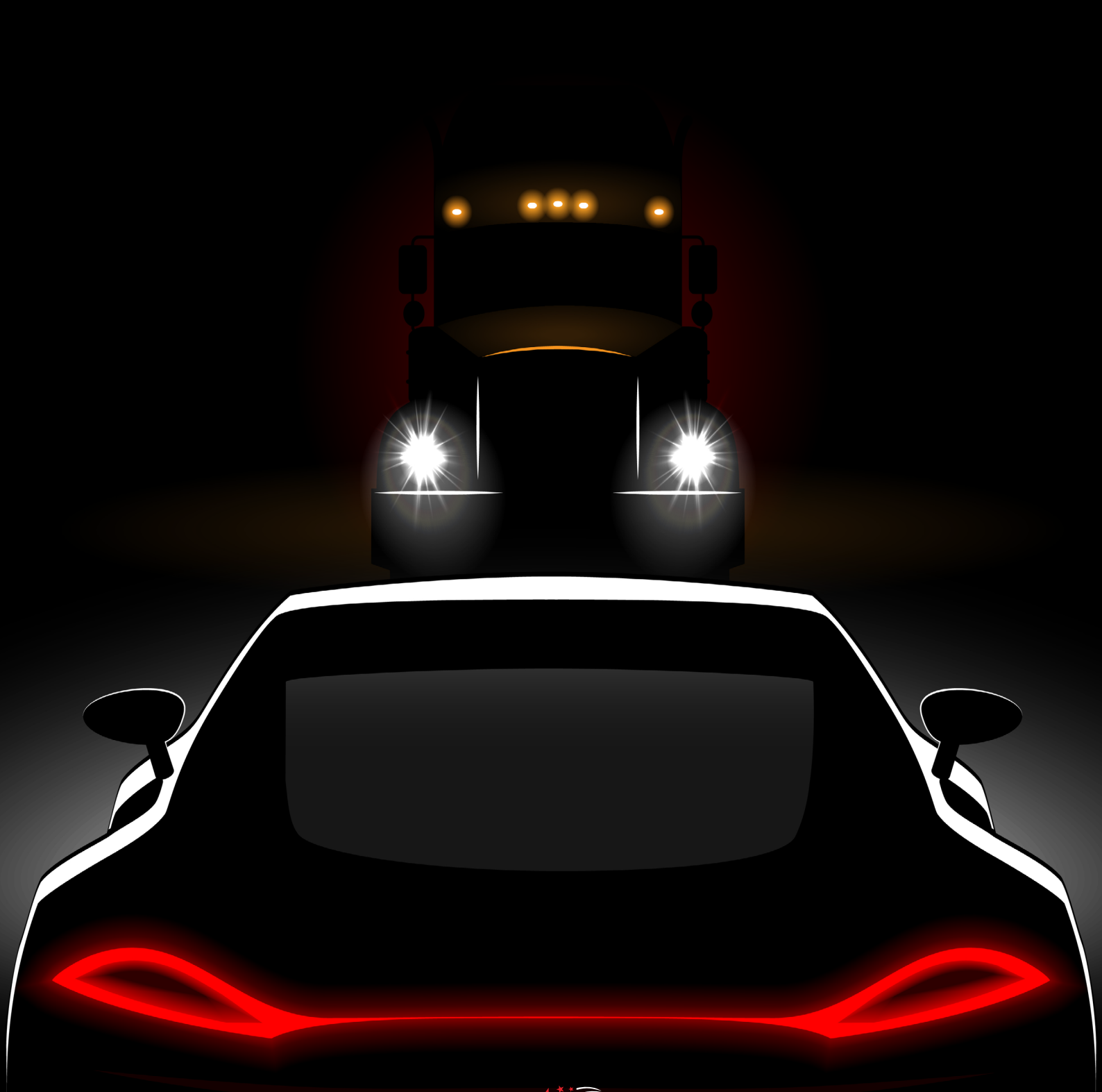
Disconnect the negative terminal first and avoid short-circuit caused by tools when removing old battery.



Clean corroded parts in tray and cable clamps before installation of new battery.



Connect the positive terminal first and check the terminal clamps for tight fit when installing new battery.



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