

Selecting and Installing a New Battery

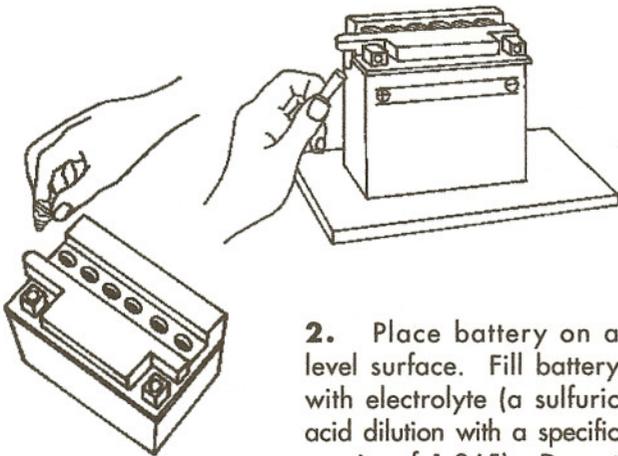
Battery Activation for Conventional and YuMicron Types

Sealed at the factory, a new YUASA battery has an indefinite shelf life as long as it remains sealed, with the red cap in place, and is stored at room temperature. Once it's unsealed, a battery should be activated, charged and installed. The plates of an unsealed, uncharged battery begin to oxidize. That makes it more difficult to charge later. (We talk more about sulfation later in this book.) And if it's charged and sits around, it starts to discharge and sulfate; how fast depends on temperature.

Here are the steps for activating most batteries, including YUASA's Conventional, YuMicron, YuMicron CX. (Sealed VRLA - YT or YI - batteries are activated differently, see page 26.)

Activating Standard Batteries

1. Right before adding electrolyte, remove filling plugs. Also remove the sealing tube - the red cap - and throw it away. (Putting this cap back on after the battery's filled with acid can cause an explosion.)



2. Place battery on a level surface. Fill battery with electrolyte (a sulfuric acid dilution with a specific gravity of 1.265). Do not use water or any other liquid to activate.

Electrolyte should be between 60°F and 86°F before filling. Fill to UPPER LEVEL as indicated on battery.

NOTE: **Never** activate a battery on the vehicle. Electrolyte spillage can cause damage.

3. Let battery stand for at least 30 minutes.

Move or gently tap the battery so that any air bubbles between the plates will be expelled. If acid level has fallen, refill with acid to upper level.

4. A battery must be completely charged before installation. Charge for three to five hours at the current equivalent of 1/10 of its rated capacity found in the Yuasa Applications Book.

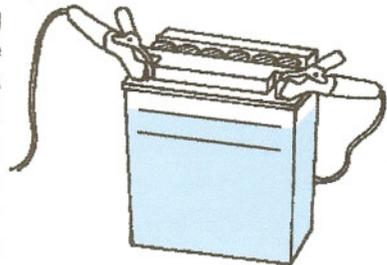
YUMICRON Battery Specifications

BATTERY TYPE	CAPACITY AH (10H-R)	DIMENSIONS - INCHES (± 1/16 IN)		
		L	W	H
YB2.5L-C	2.5	3 3/16	2 3/4	4 1/8
YB2.5L-C-1	2.5	3 3/16	2 3/4	4 1/8
YB3L-A	3	3 7/8	2 1/4	4 3/8
YB3L-B	3	3 7/8	2 1/4	4 3/8
YB4L-A	4	4 3/4	2 3/4	3 5/8
YB4L-B	4	4 3/4	2 3/4	3 5/8
YB5L-B	5	4 3/4	2 3/8	5 1/8

Rated Capacity

5. During charging, batteries can spit electrolyte out the open vent. Take care to loosely refit vent caps.

6. Check during initial charging to see if electrolyte level has fallen, and if so, fill with acid to the UPPER LEVEL. After adding, charge for another hour at same rate as above to mix water and acid. Note: this is the last time electrolyte should be added, but distilled water should be added as required.



7. When charging's done, replace plugs firmly. Do not apply excessive pressure. Finger tighten only. Do not over-tighten.

8. Wash off spilled acid with water and baking soda solution, paying particular attention that any acid is washed off the terminals. Dry the battery case.