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Kyoto Japan Batteries

Maintenance Guide

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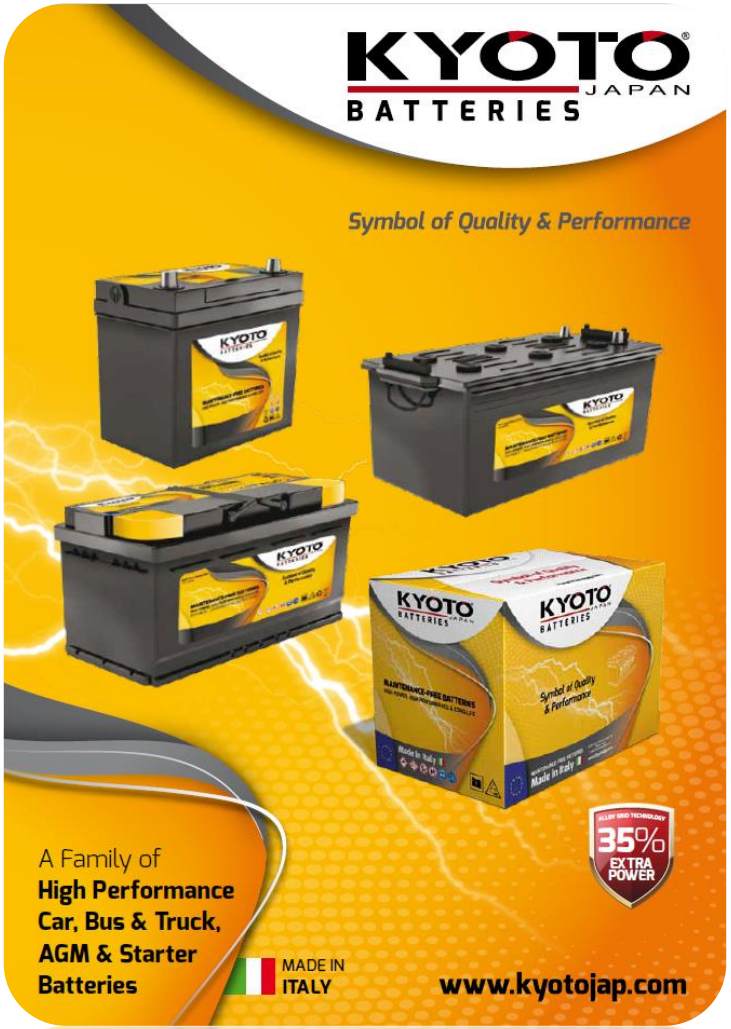
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35% EXTRA POWER
A Family of
High Performance
Car, Bus & Truck,
AGM & Starter
Batteries
MADE IN ITALY
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L1 to L5 Boxes

L1 HD.jpg

L2 HD.jpg

L3 HD.jpg

L4 HD.jpg

L5 HD.jpg

AGM Batteries

KJB-055-AGM.jpg

KJB-065-AGM.jpg

KJB-075-AGM.jpg

KJB-080-AGM.jpg

KJB-100-AGM.jpg

KJB-110-AGM.jpg

DIN Batteries


KJB-045-0L1-DIN.jpg


KJB-045-L1B-DIN.jpg


KJB-050-0L1-DIN.jpg


KJB-050-L1B-DIN.jpg


KJB-055-0L1-DIN.jpg


KJB-055-L1B-DIN.jpg


KJB-055-L2B-DIN.jpg


KJB-060-0L2-DIN.jpg


KJB-060-L2B-DIN.jpg


KJB-065-0L2-DIN.jpg


KJB-070-L3B-DIN.jpg


KJB-074-L3B-DIN.jpg


KJB-075-0L3-DIN.jpg


KJB-080-0L3-DIN.jpg


KJB-090-0L5-DIN.jpg


KJB-095-0L5-DIN.jpg


KJB-100-0L5-DIN.jpg

JIS Batteries

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KJB-035-B20-JIS(L).jpg


KJB-035-B20-JIS.jpg


KJB-040-B20-JIS(L).jpg


KJB-040-B20-JIS.jpg


KJB-040-B21-JIS.jpg


KJB-045-B24-JIS(L).jpg


KJB-045-B24-JIS(LS).jpg


KJB-045-B24-JIS.jpg


KJB-055-D23-JIS(L).jpg


KJB-055-D23-JIS.jpg


KJB-060-D26-JIS(L).jpg


KJB-060-D26-JIS.jpg


KJB-062-D23-JIS(L).jpg


KJB-062-D23-JIS.jpg


KJB-065-D23-JIS(L).jpg


KJB-065-D23-JIS.jpg


KJB-065-D26-JIS(L).jpg


KJB-065-D26-JIS.jpg


KJB-070-D26-JIS(L).jpg


KJB-070-D26-JIS.jpg


KJB-075-D26-JIS(L).jpg


KJB-075-D26-JIS.jpg


KJB-80-D31-JIS(L).jpg


KJB-80-D31-JIS.jpg


KJB-100-D31-JIS(L).jpg


KJB-100-D31-JIS.jpg

Heavy Duty Truck Batteries


B020C TDS.jpg


B095C 21 TDS.jpg


B096C 21 TDS.jpg


B096C TDS.jpg


B101C TDS.jpg


B102 CT TDS.jpg


B105C TDS.jpg


B106C TDS.jpg


B121C - 157 - 183 TDS.jpg


B123C - 336C TDS.jpg


B124C TDS.jpg


B131 TDS.jpg


B132 TDS.jpg


B134 TDS.jpg


B136C TDS.jpg


B146C - 158 TDS.jpg


B212C TDS.jpg


B280C TDS.jpg


B388 - 135 TDS.jpg


B390 - B102c TDS.jpg


B394C - 213 - 340 TDS.jpg


spirit392 - 147 - 338 - 159 - 335 TDS.jpg


TOP B392C TDS.jpg

Garden Batteries

KJB-026-200A-GAR (L).jpg

KJB-026-200A-GAR.jpg

KJB-030-330A-GAR.jpg

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Motorcycle Batteries

KJB-08.4-135A-MCB.jpg

KJB-10.5-180A-MCB - KJB-12.6-200A-MCB - KJB-14.7-230A-MCB.jpg

KJB-14.7-175A-MCB.jpg

Industrial Batteries

241 - 243 TDS.jpg

242 - 245 TDS.jpg

244 - TDS.jpg

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Marine Batteries

B250c TSD.jpg

B258C HD.jpg

B262C TSD.jpg

B266C - 268 TSD.jpg

B269c TSD.jpg

Military & Police Batteries

248 HD.jpg

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Maintenance Guide

- **BASIC RULES**
- **MANAGING RULES**

Basic Rules

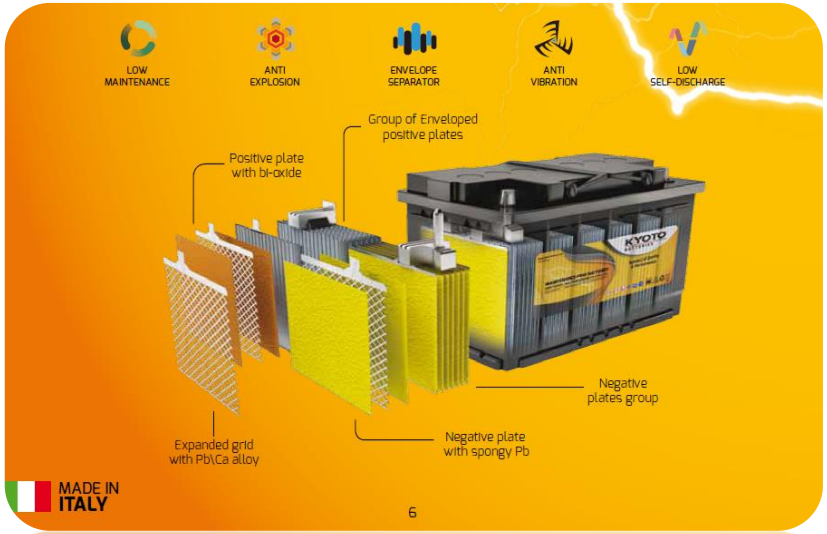
1- Have a look at the battery
2- Check the voltage and crancking
3- Check the level of the acid
4- Check the density of the acid

Managing Rules

1- Preliminary assessment

2- Recharge the battery

3- Final assessment



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Basic Rule No. 1

Have a Look at the Battery

Check if there's any acid leakage

Check if the terminals are ok

Look at the charge indicator

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Basic Rule No. 2

Check the Voltage & Crancking & Make your First Evaluation

What if the voltage equals 12.5/12.6 volts and the crancking is close to the nominal?→Battery ok ?→ Recharge

What if the voltage ≈10 volts and the crancking is low? → Short circuit?

What if the voltage ≤ 9.5 volts? → Sulfation

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Basic Rule No. 3

Check the Level of Acid

What if the level of acid is low? →Add some water

What kind of water? → distilled or demiralized

Basic Rule No. 4

Check the Density of the Acid

What if all the elements have the same density value? →Battery ok? → Recharge

What if one element is 1,00 g/ml? → Short circuit?

What if the voltage ≤ 9.5 volts? → Sulfation

Managing Rule No. 1

First assessment

Take care of what you've seen so far

Is the battery good or bad?

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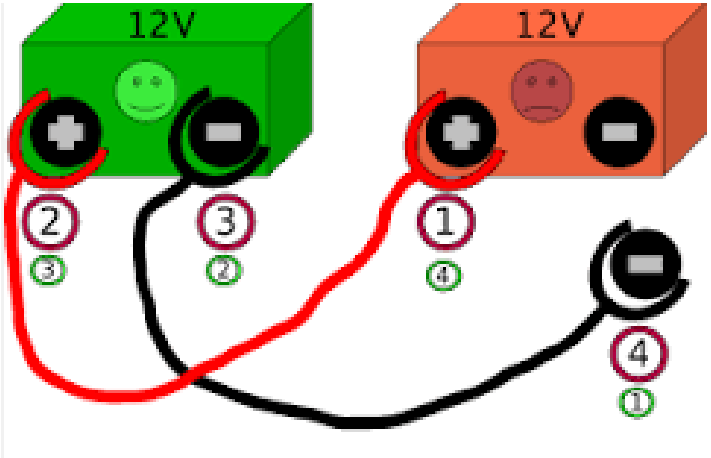
Managing Rule No. 2

Recharge the Battery

1-Constant current

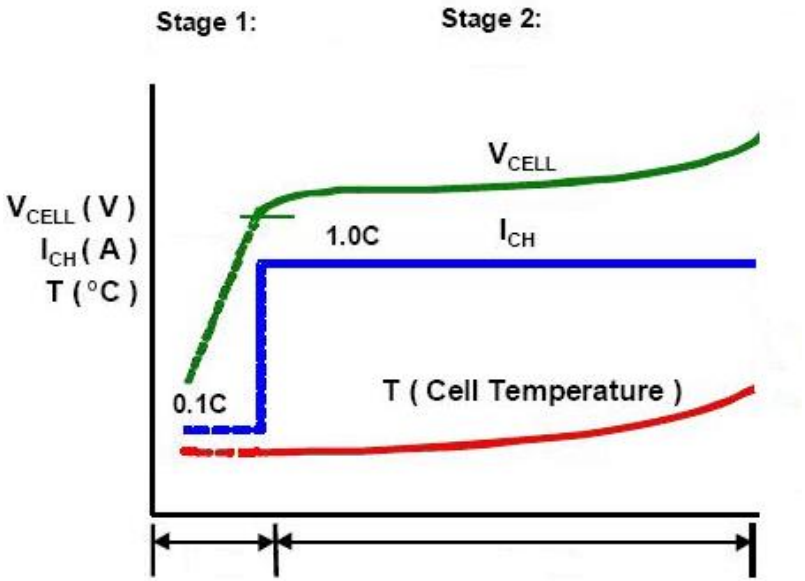
2-Constant voltage

3-Mixture of the methods



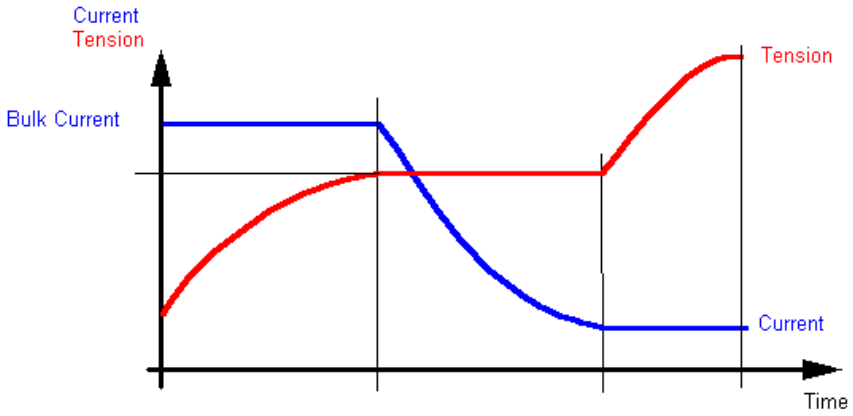
1- Constant Current

Pre-charge of 0.5/ 1 amps for at least two hours
2-nominal intensity (In=C20/20) for 16 hours



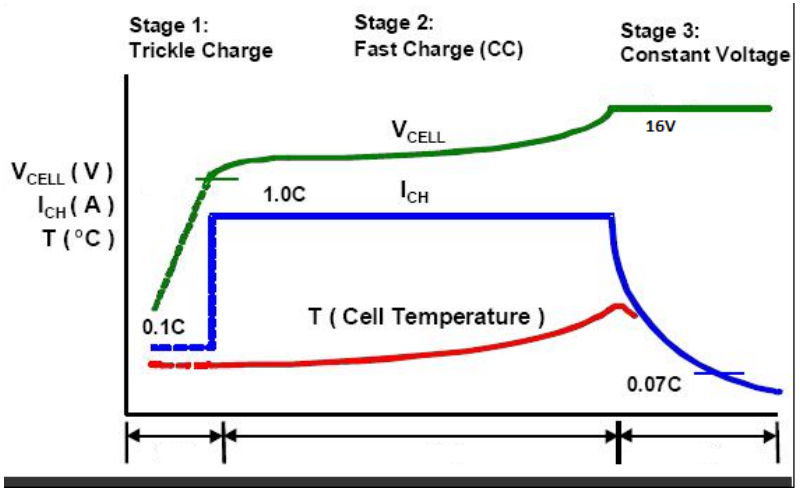
2- Constant Voltage

5Xnominal intensity (In=C20/20X5) for 16 hours at 16 volts



2- Mixture of the Methods

Pre-charge of 0.5/ 1 amps for at least two hours
2- 5Xnominal intensity (In=C20/20X5) for 16 hours at 16 volts



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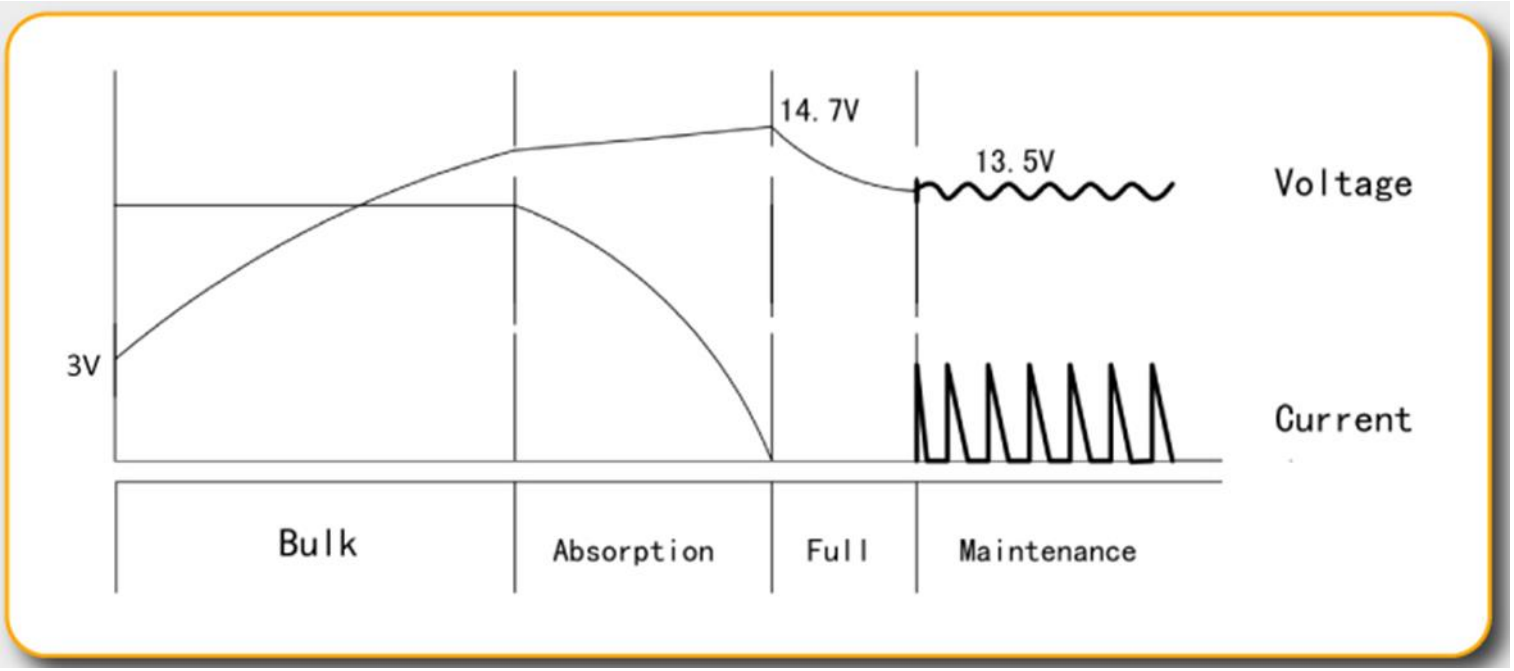
Commercial Chargers



Managing Rule No. 3

Final Assessment

Is the battery voltage 12.80/12.90 or more?
Did the crancking increase and go close to the nominal?
Plug the battery to the car or throw it away

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Thank You for Your Attention

Kyoto Japan Batteries Made in Italy

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