

MTYH SMASHERS



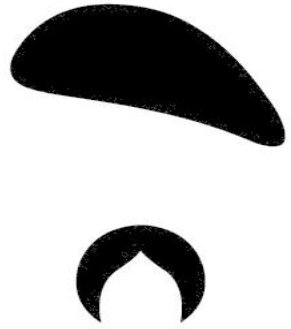
LETS BE SAFE OUT THERE!

- Batteries can explode!
- Disconnect the negative terminal first.



MTYH SMASHERS



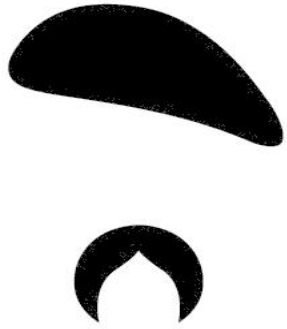


MTYH SMASHERS





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**QUALITY
AUTO SERVICE**

NEXT OIL CHANGE

NEXT VISIT

/ /

MILEAGE

| | | | |

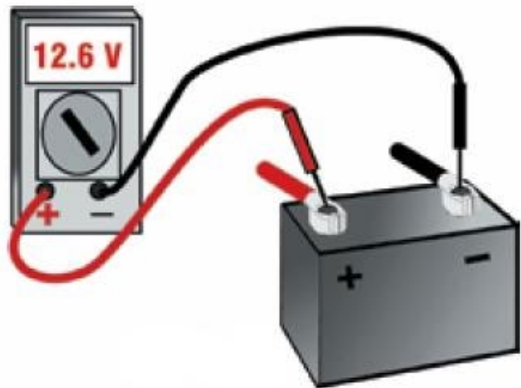
TESTING

- The GREEN EYE!
- Let some one else do it.
- DIY!



TESTING

- State of Charge
- Specific Gravity
- Digital Multi-Meter – Open Circuit Voltage
- Got surface charge?

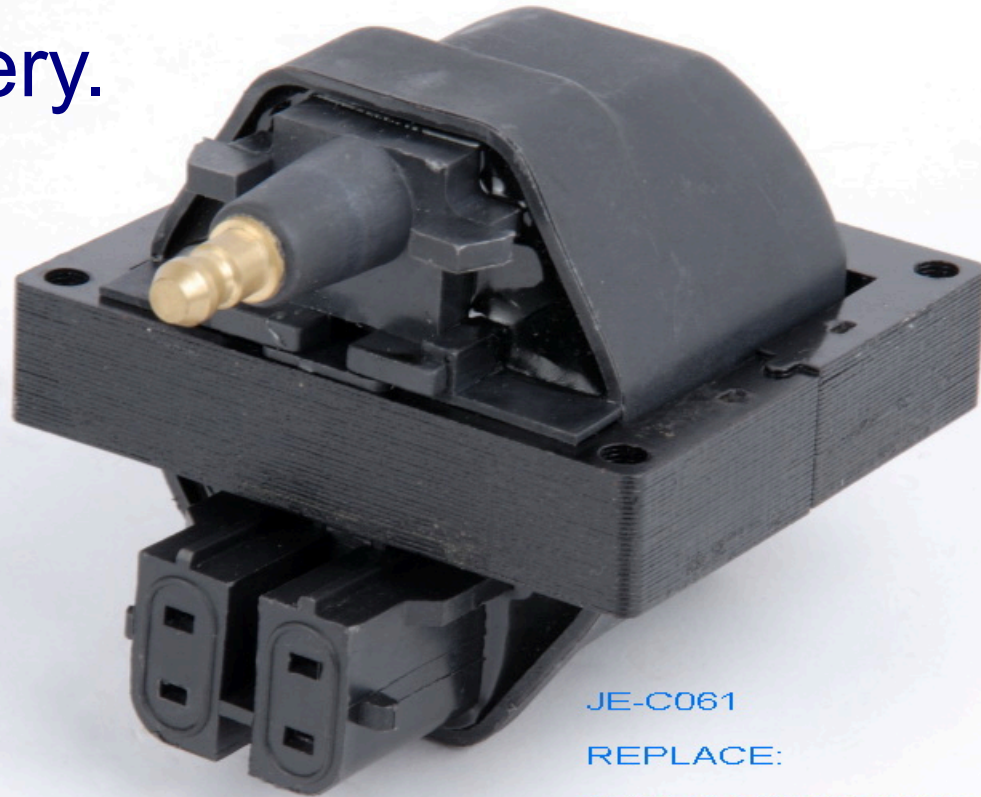


100%.....12.65V

75%.....12.45V

POOR MAN'S LOAD TEST

- Disconnect **PRIMARY** coil wires.
- DMM to battery.



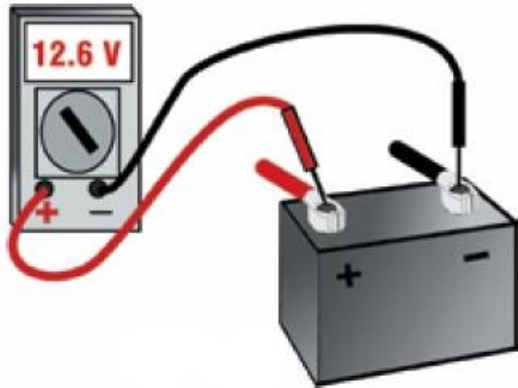
JE-C061

REPLACE:

ASUNA, BUICK, CADILLAC, GM
CHEVROLET, CHEVROLET TRUCK
GMC TRUCK, GEO, ISUZU, JEEP
OLDSMOBILE, PASSAT, PONTIAC

POOR MAN'S LOAD TEST

- Crank engine for 15 seconds.



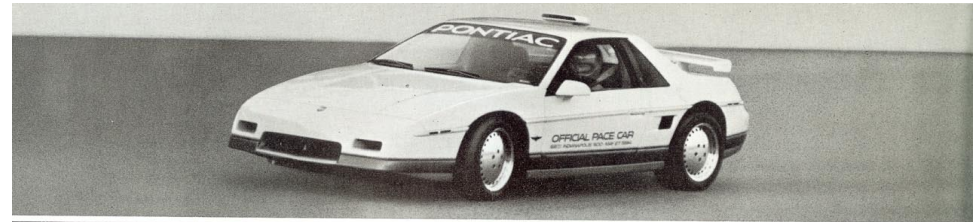
9.6V

Above 70° add .1V Per 10°

Below 70° subtract .1V Per 10°

SIZE MATTERS!

- Battery Council International (BCI) group replacement number 75
- 75/86
- 75/84
- 75/25
- side and top post



A great way to start.



To start the Indianapolis 500, first you have to start the Indy 500 Pace Car.

Which is what the Delco Freedom II Battery will do this year, just as it did last year. And the year before. And the year before that.

The Freedom Battery will be ready...because it's designed to

deliver its peak performance when you turn the key. Plenty of power and reserve capacity.

And it's completely maintenance-free. You never add water to a Freedom Battery—ever.

But Freedom means more than just freedom from maintenance. It means freedom from

the common causes of premature battery failure—overcharging, water loss, heat and vibration damage.

Which is why we can be so confident in inviting you, ladies and gentlemen, to start *your* engines. With the Delco Freedom II Battery.

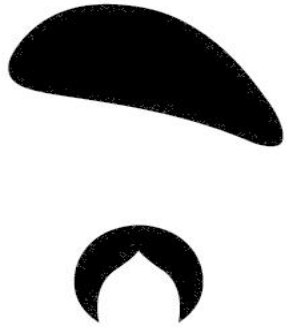
The leader under the hood.



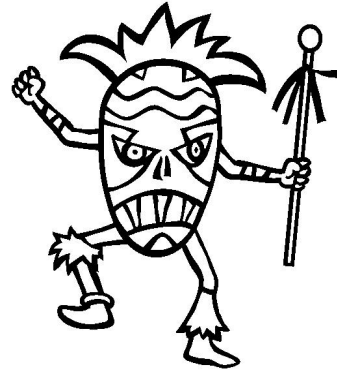
Types

- Non-sealed wet
- Sealed “maintenance free”
- AGM Absorbed Glass Mat
- Gel Cell - “Dry Cell”
- Deep Cycle





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- Alternator: 13.3 to 15.0 volts, no amperage limit.
- Battery Charger: 13.8 to 15.0 volts, 10 amps maximum, 6-12 hours approximate.
- Rapid Recharge: Maximum voltage 15.6 volts (regulated), no current limit as long as battery temperature remains below 125°F (51.7°C). Charge until current drops below 1 amp.
- Float Charge: 13.2 to 13.8 volts, 1 amp maximum current, time indefinite (at lower voltage).

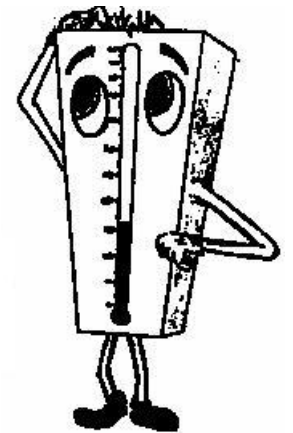
RC (reserve capacity)

- Bigger is better.
- Better performance when subjected to parasitic draw or self-discharge.
- More lead = higher RC



MORE NUMBERS

- CA – Cranking Amps. Number of amps that can be delivered for 30 seconds at 32° without dropping below 12V.
- CCA – Cold Cranking Amps. Number of amps that can be delivered for 30 seconds at 0° without dropping below 12V. - Meet or exceed OEM (505 CCA)
- PCA – Pulse Cranking Amps.
Has no official definition



BUY FRESH



- Non-Sealed – 3 months
- Sealed – 6 months
- “Dry Charged” - 1 to 3 years

ALL WARRANTIES ARE NOT CREATED EQUAL!

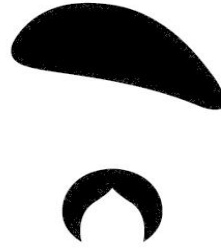


- How long is the “free” replacement?
- Prorated warranty figured at list price.



MOVIN' OUT

- Weight distribution



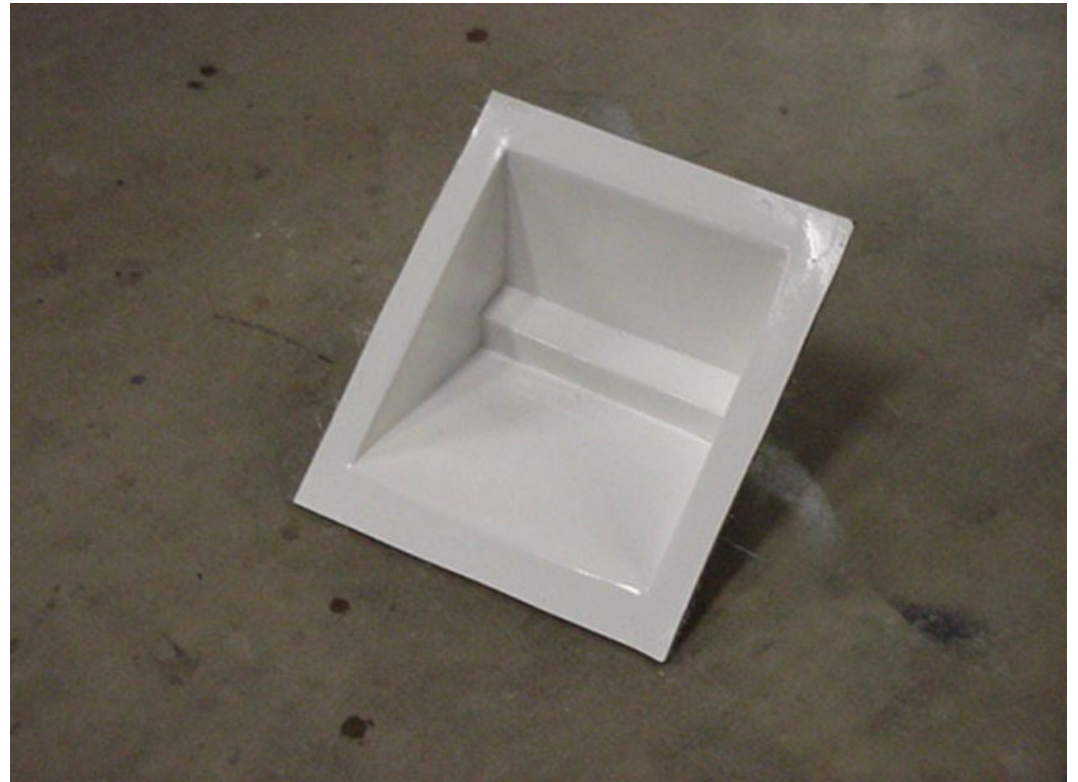
(dubious)



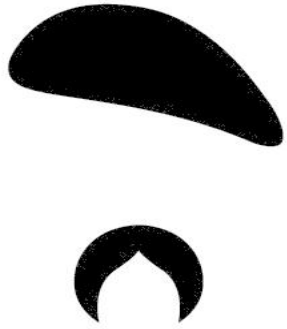
- Simplified engine compartment
- Engine swaps
- Get away from the heat

MOVIN' OUT

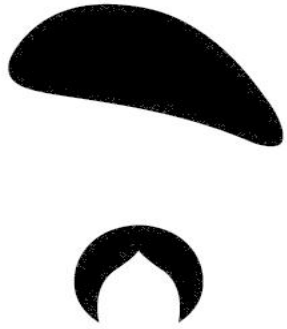
- K.I.S.S.
- Run 2 cables
- What a great place for an AGM!



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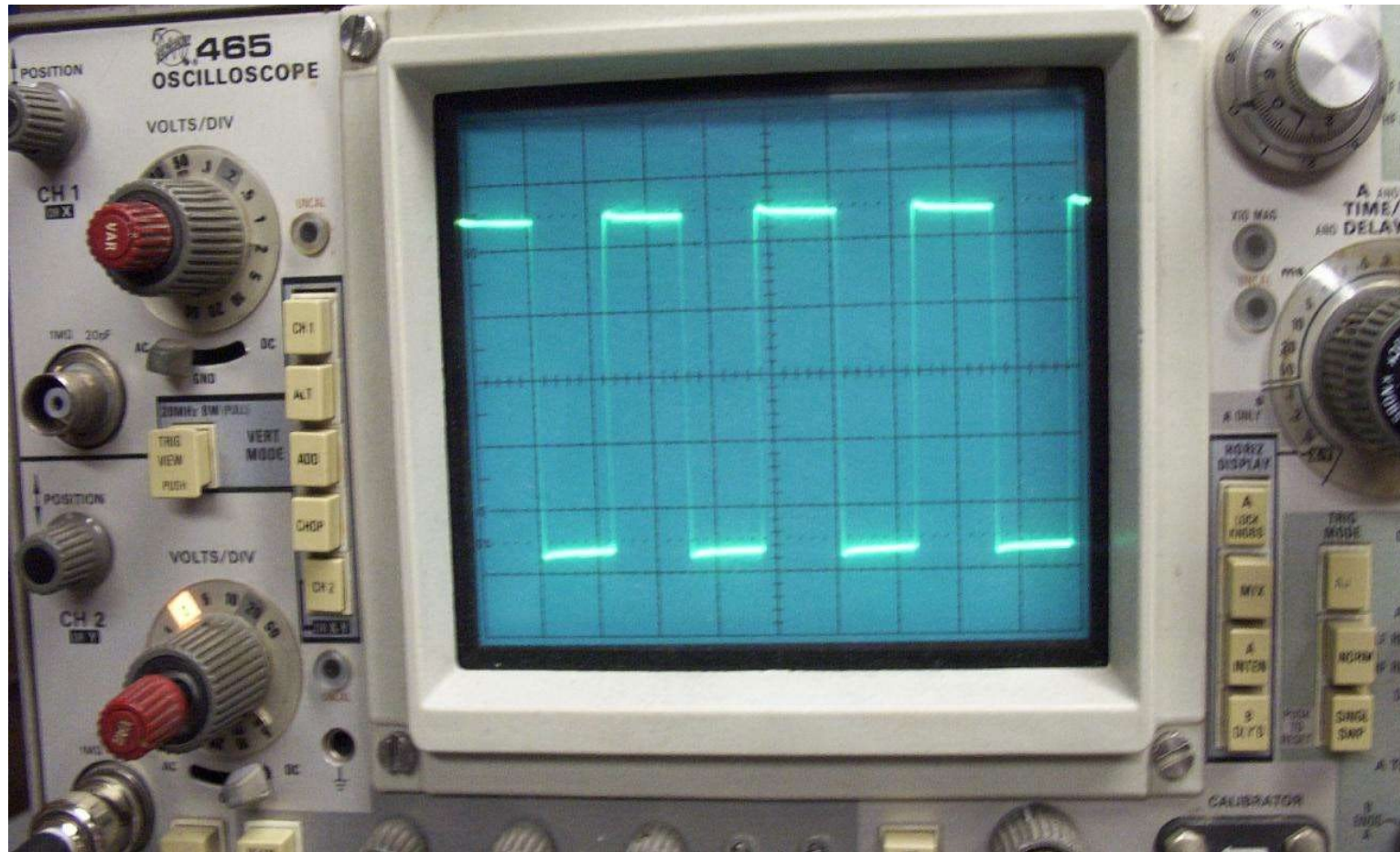
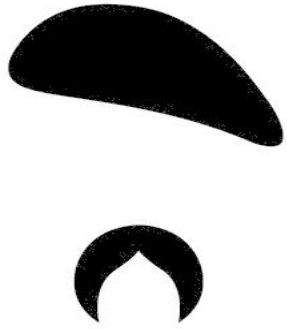
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To sum up...

Buy the freshest battery with the largest Reserve Capacity (RC) and longest free replacement warranty that will physically fit in your vehicle, and sized with the cranking amp rating for the coldest climate the engine is started in.