

## Earthmaster Electrical Parts List with Current Part Numbers

In making this list we have attempted to make sure that we have things correct but there are lots of ways that errors can be introduced so do not assume that it is perfect. If you find errors or have additions to make PLEASE send your findings to the list.

Among the listing you will notice a predominance of NAPA part numbers. No endorsement is intended but they have lots of stores and parts at competitive prices. Some part numbers are followed by a "?" This has not been verified by actual use but should work.

The Earthmaster used conventional electrical system with many of the major parts supplied from the folks at Autolite which parts of the company were sold to Ford and later the company used the Prestolite name. Interesting story at <http://www.fostoria.org/history/autolite/autolite1.html>

### DISTRIBUTOR

In 1947, the first year for Earthmaster, Autolite made several similar but different 4 cylinder distributors at the same time. As far as I know Earthmaster stuck with just one style thru out production. Some cars such as Jeep used some similar distributors but at the same time used other styles from Autolite. **Willys MB Jeep 42-44 used the same parts as what Earthmaster used.** Wisconsin V4s also used two different Autolite distributors at the same time. The points, cap and rotor do not interchange so you might not get a fit. Confusing. Parts from a Massey Harris Pony will work but parts from an Allis Chalmers G will NOT.

Autolite distributor #IAD-6003-2A

Specifications: Centrifugal Advance, 0 degrees to 350rpm, 1degree @ 460rpm,  
4 degrees @790 rpm, Maximum of 5 degrees @ 900 rpm.

Distributor cap assembly Autolite # IG1324 NAPA # AL70

[There are three parts to this item. The IG-324 on the cap just refers to the Autolite part number for the cap itself. This item also includes the spring (IG-515) and carbon plunger or brush (IG-514) making it a IG-1324 assembly.]

Distributor rotor Autolite # IG-1657R NAPA # AL69

Ignition Points Autolite# IGS-2224LB or 1-45, Sorensen AL16-17MX, NAPA # CS 725A

Ignition Condenser Autolite # IBB 2042SS, NAPA # AL869

Ignition coil Autolite # IG 6001 NAPA # \_\_\_\_\_

Spark Plug Wire kit \_\_\_\_\_ Longest wire needs to be 20" long Individual  
wires are 15", 15", 13' & 20" plus a coil lead of 20" = 83" or 7' total

Spark Plug Champion D15Y, (515), NGK A6 (1010), Autolite 3116 or 386,  
NAPA # X581

## STARTER

Autolite MZ-4145 Specs: No load test, 68 amps at 5 volts dc 4000 rpm and stall test of 280 amps at 2 volts dc producing 4.4 ft.lbs torque.

Replacement? MH Pony maybe? Both use a counter clockwise rotation and the starter for the MH Pony is MZ4146 AC G uses a Delco Starter and turns the wrong direction.

Brushes: NAPA # A 502?

Starter drive Bendix Accurate 3-121-C same as MH Pony.

## GENERATOR

Autolite GAS- 4169A Specs: Field Coil Draw 3.4-3.8 amps at 5 volts dc, Motoring Draw 4.6-5.2 amps at 5 volts dc. Maximum Output 12.5 amps at 8 volts dc.

Brushes: NAPA A 406? Cutout: NAPA CU 3?

## BATTERY

Group 1 The latest versions of this 6 volt battery have incorporated new battery technologies that allow more capacity. With good connections and everything working like it should you will have easy starts. It is also beneficial to route the battery ground cable directly to the ground of the starter. Allow enough length to easily remove battery for service.

## INSTRUMENT PANEL ELECTRICAL

Starter Switch NAPA ST 6?

Light Switch \_\_\_\_\_ Also controls charge rate on generator has a 5 ohm resistor mounted on switch for this function. It might be simpler to forget the generator charge feature combined with the light switch. Ground out the generator field for full charge. (Have done this for years since I seldom use tractor over an hour at a time. Use a regular pull switch for the lights.

Ignition Switch Single pole, single throw switch \_\_\_\_\_

Ammeter 30-0-30 20-0-20 would be better match \_\_\_\_\_

## Tune Up Data:

Spark Plug gap .025 " Ignition Point gap .020" Timing set at Top Dead Center as shown on flywheel. Firing order 1342