

Installation Instructions - Model T12CK1

The conversion of your Ford Model T electrical system from 6 volt operation to 12 volt operation is a simple procedure if the steps given below are followed exactly. This kit contains a 12 volt voltage regulator which is designed to work with the stock unmodified 6 volt original equipment adjustable 3rd brush type generator in conjunction with any standard 12 volt lead acid automotive type battery. No modifications to the generator are necessary or advised. It is not necessary to remove the generator from the car. An assumption is that the generator is a known good 6 volt unit. If any doubt exists, have the generator checked by a competent repair shop. **Do not send your voltage regulator along to the shop.** It is absolutely *not* possible to accurately set up your generator for proper 12 volt operation when the generator is *off* the car and on a bench test setup. All adjustments to the 3rd brush are to be made while the generator is installed on the car in accordance with the instructions provided with the voltage regulator. A further assumption is that all car wiring is correct. Pay particular attention to checking the bright and dim light wiring from sockets to light switch.

WARNING!! - This kit is for use on standard Ford Model T 6 volt *negative ground* systems only. If your car is wired for positive ground this kit will not work unless you change your car back to the original negative ground! If in doubt, get help in doing this.

Follow the steps below in the order presented. Do not install the voltage regulator until instructed.

- 1) Disconnect the ground cable from the negative (-) post of the 6 volt battery.
- 2) Disconnect the positive cable from the positive (+) post of the 6 volt battery.
- 3) Remove the 6 volt battery from the battery holder.
- 4) Replace the tail light bulb with the small (15cp) bulb provided. (cp = candle power)

Note: If your tail lamp is non standard and uses a double contact indexed base then you will need to purchase a #1157 double contact bulb from your auto parts store for use as your tail lamp. In this case make certain that the small filament (3 cp) is wired as the running light and the large filament (32 cp) is wired as the stop light. If your car uses a separate stop light then use a #1156 bulb (32 cp) for the stop light and a #63 (3 cp) bulb for the running light.

- 5) Replace both headlight bulbs with the large (50 cp) bulbs provided in the kit.

Note: At this time change any other 6 volt bulbs to a 12 volt bulb of near the same physical size.

- 6) Install the 12 volt battery making certain that the negative (-) terminal is connected to the car frame. **Installing the battery backwards will cause instant destruction of your voltage regulator!** Do not final tighten the battery cable connections until installing the voltage regulator after the initial lighting check out in step 7.

- 7) Test your installation so far by turning on the lights and making certain that all lights operate and that the ammeter shows a discharge of approximately 5 to 7 amps. If ammeter shows a charge it indicates that either the battery is installed backwards or the ammeter is wired backwards. Do not guess or make any assumptions. Check and double check the wiring of the battery and car at this point since the penalty for a mistake here is destruction of your voltage regulator. **Negative battery post *must* attach to the frame!** Do not start the car yet since the 6 volt cutout is still in place.

Note: The new headlight bulb supplied has just one filament but it should light in either the bright or dim positions of your light switch. The bulb shorts the bright and dim connections together.

- 8) Open the package containing the 12 volt voltage regulator and follow all instructions provided. Do not deviate from the instructions provided.

To minimize wear and tear on your starter bendix, keep your car in fine tune so that your car starts right away. It is also advisable to run your car on "magneto" if you are using standard coils since the coil points will last longer if not operated on "battery" except when starting.

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