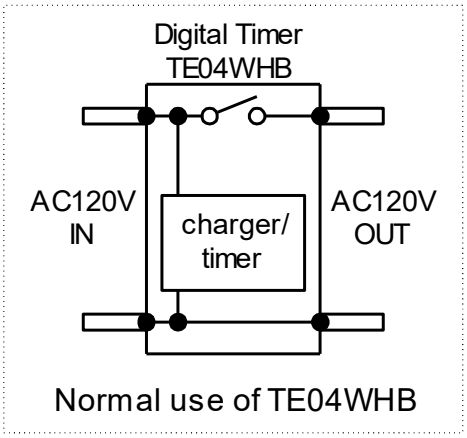
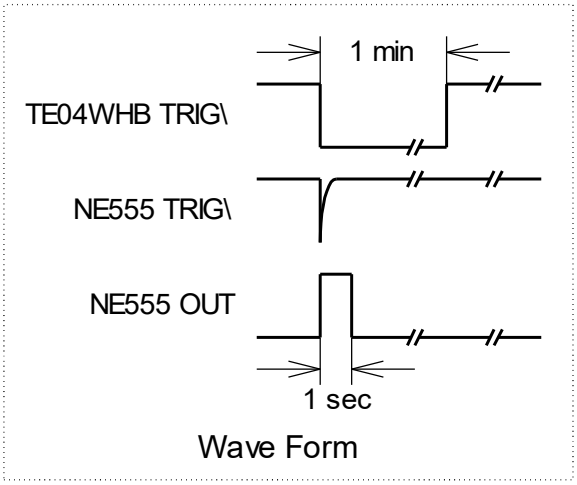
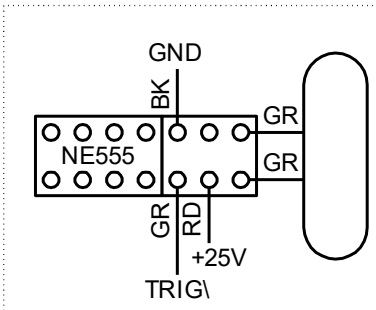
Tips Timer Switch



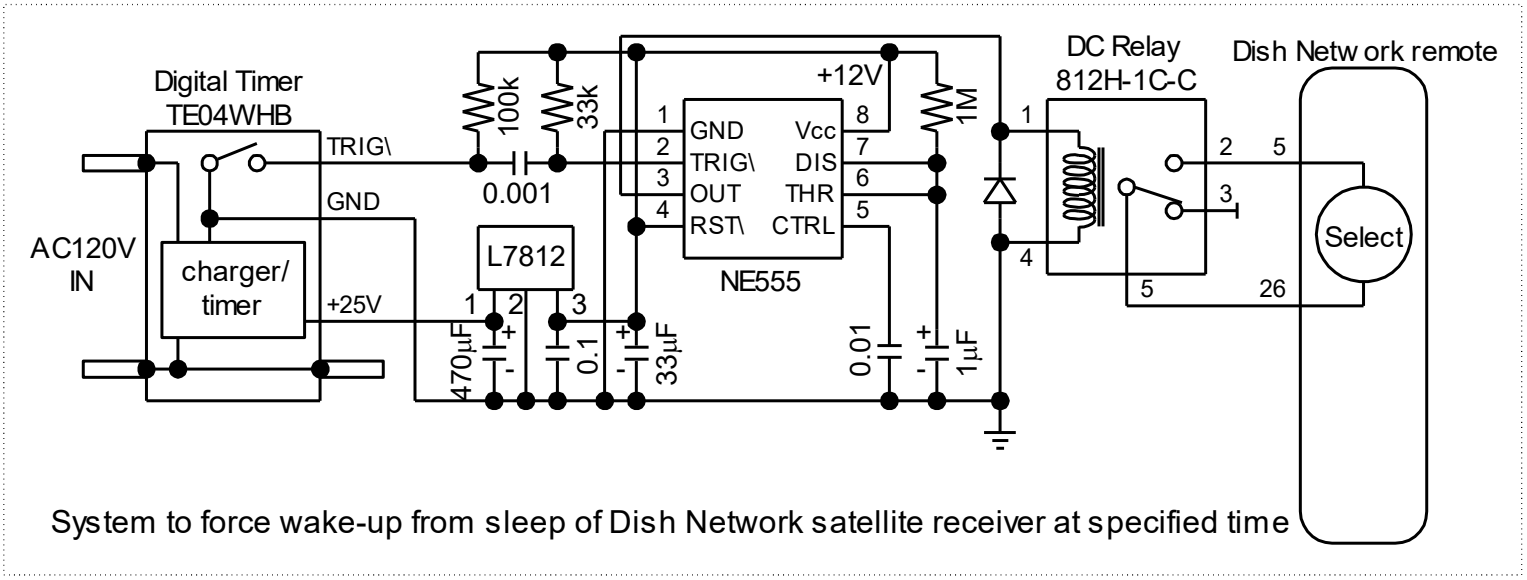
Normal use of TE04WHB



Wave Form



Jumper Connection

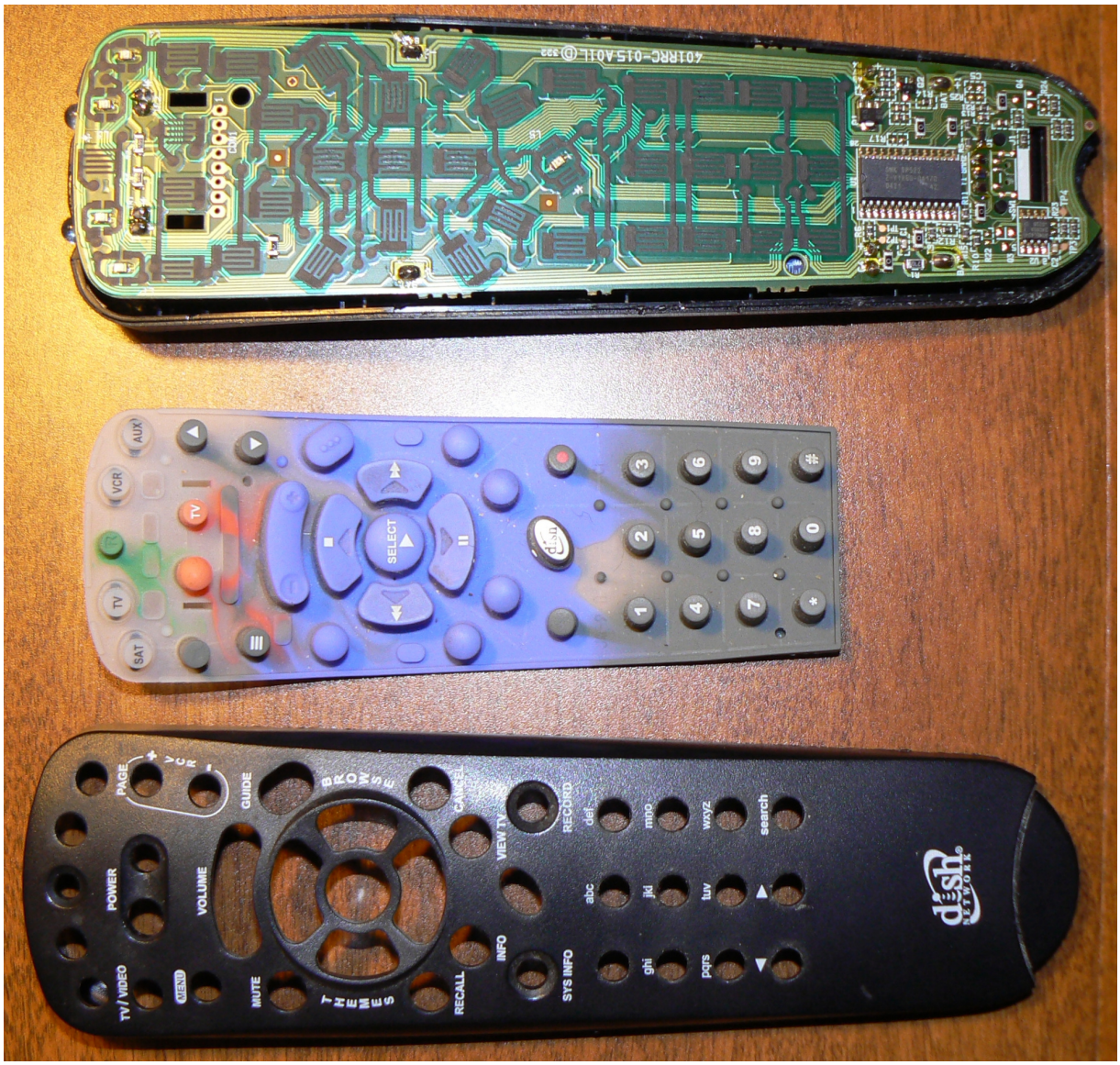


System to force wake-up from sleep of Dish Network satellite receiver at specified time

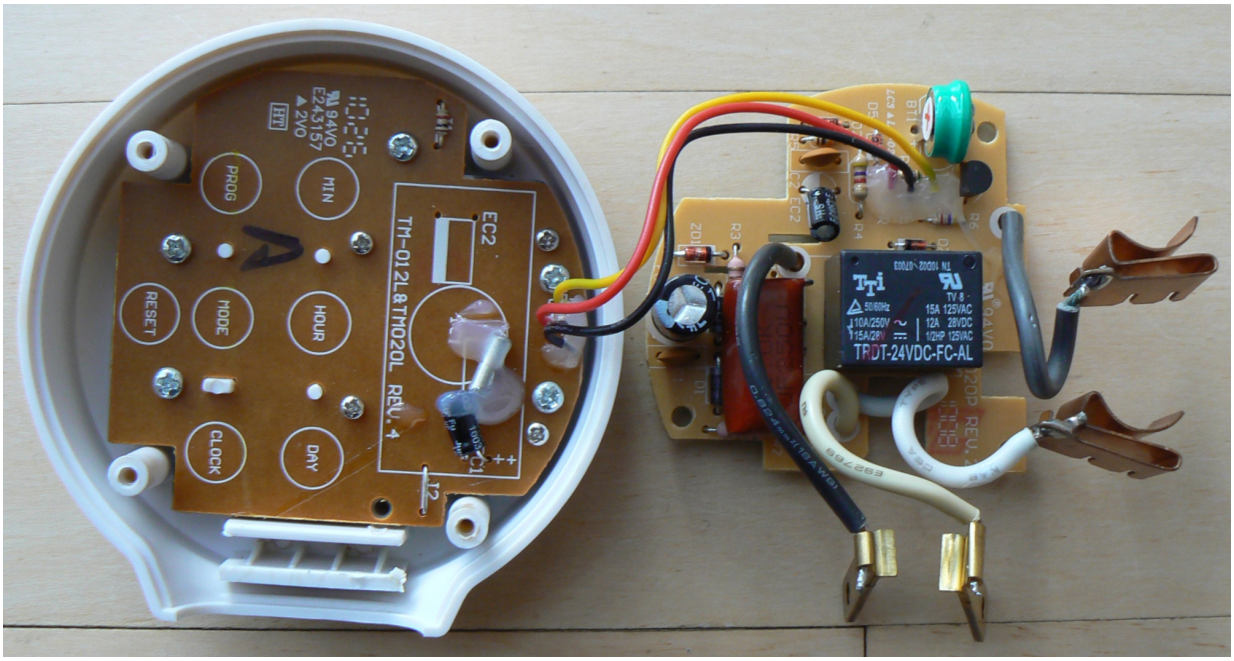
TE04WHB implements a 0.9V rechargeable battery for driving an electronic digital timer and a relay to switch connecting between AC120V input receptacle and output receptacle. DC+25V is made by rectifying AC120V input.
The 0.9V rechargeable battery fully charged for 30 minutes lasts only a few days if AC120V input is disconnected. If it is discharged, the time and all the timer on/off data previously programmed are lost.
The relay needs DC+25V supply to be activated. Therefore, AC120V input must be connected when using the relay.
The minimum on/off duration of the timer is one minute. NE555 converts the one minute pulse to one second pulse that electronically connects two contact points of Select key of Dish Network remote. It simulates the depression of Select key that revitalizes Dish Network satellite receiver from stand-by or sleep mode.

In regular setup of Disk Network satellite receiver, it goes stand-by mode at 3 AM everyday to update firmware and download program schedule. This is inevitable even though the customer's personalized set-up for Preference-Update is assigned to "disable".

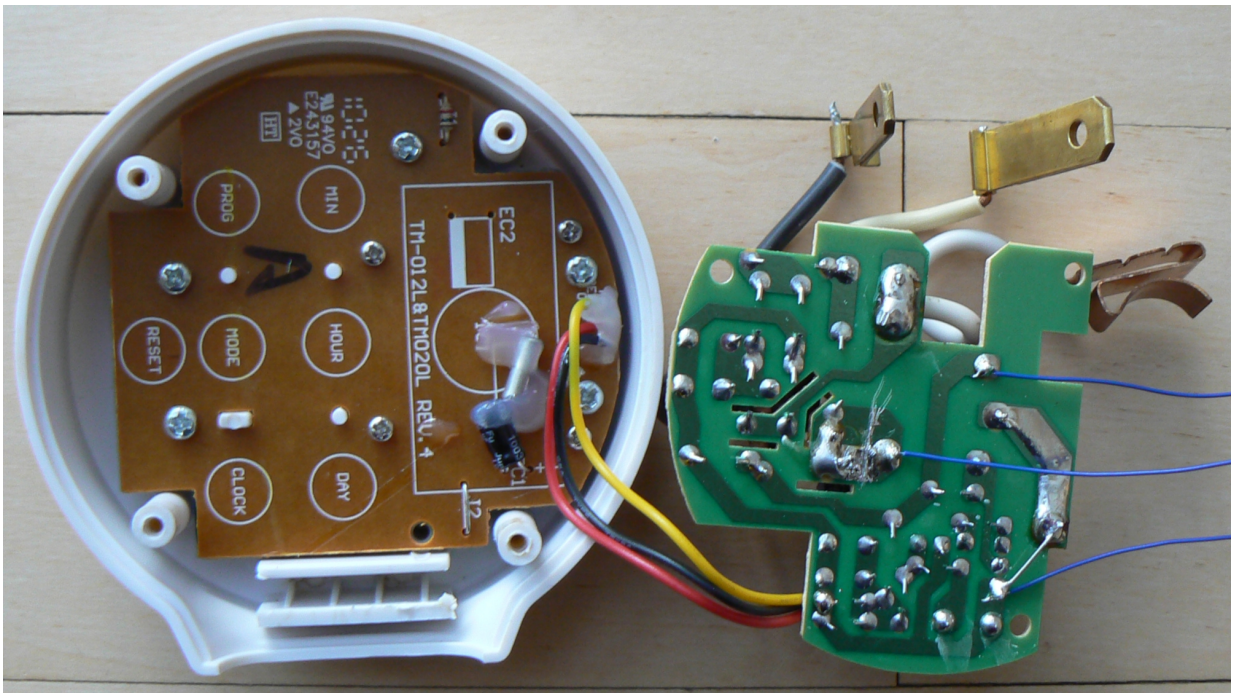
Set the timer program 1 "on at 3:01 AM" and "off at 3:02 AM". Also, set the timer program 2 "on at 3:03 AM" and "off at 3:04 AM" just in case.



Disassembled Dish Network Satellite Receiver Remote



TE04WHB Timer Switch (Top View of Controller)



TE04WHB Timer Switch (Bottom View of Controller <+25V (Up), TRIG\ (Center), GND (Down)>)

Done