



Introduction

This document shows how to modify the Canon Timer Remote Controller TC-80N3 for use with the Canon 300D Digital Rebel SLR.

As an introduction it is important to note that the only reason the TC-80N3 does not work directly out of the box with the Canon 300D Digital Rebel is that the remote interface connector is of a different type. The existing connector on the TC-80N3 cable is a Canon proprietary connector that is only compatible with such cameras as the D30, D60, 10D, 20D, etc... and will not fit the Canon 300D.

However, luckily for us, the connector type used for the Canon Digital Rebels is a standard off-the-shelf 3/32" stereo phono connector available at most audio stores including Radio Shack.

Supported Cameras

This modification is currently only valid for use with the following camera:

- Canon 300D, 350XT, 400D Rebel

Timer Remote Controller TC-80N3

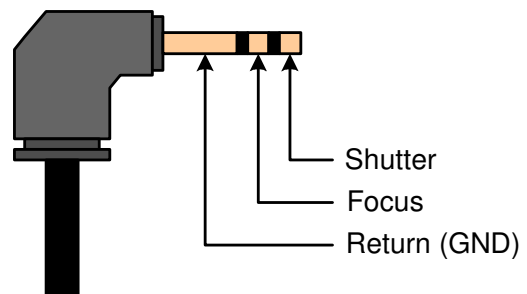
The following chart shows the signal configuration for the wires within the cable assembly of the Timer Remote Controller TC-80N3.

Description	Wire Color
Shutter Control	Red
Focus Control	White
Return (GND)	Shield (Copper)

TC-80N3 Wire Chart

3/32" Connector Diagram

This diagram illustrates the configuration of the 3/32" connector which is used to interface into the Canon 300D Digital Rebel's external shutter release port.



20 Ft. Stereo Headphone Cord

For an extension cable, I used the Radio Shack 42-2562 stereo headphone extension cord. The following chart shows how the internal wires will be used within this modification:

Description	Wire Color
Shutter Control	Red
Focus Control	Yellow
Return (GND)	Black

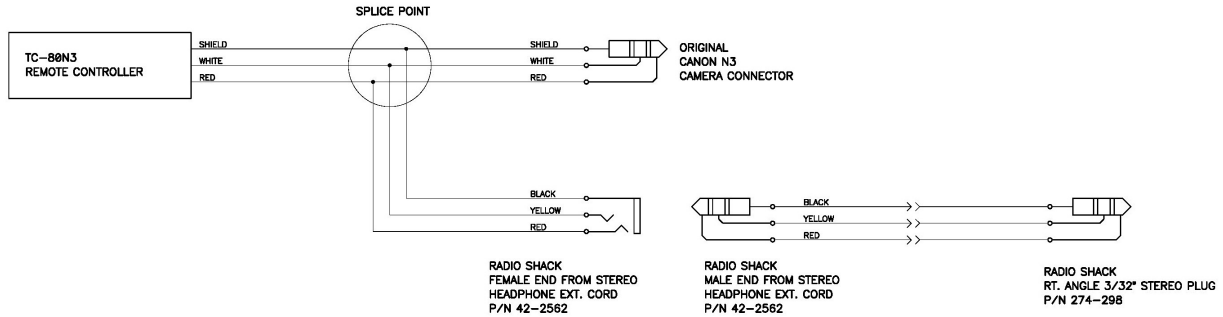
Radio Shack 42-2526 Wire Chart



DISCLAIMER

The author of this document is an amateur, not a professional. The technical information provided in this document should be interpreted with this distinction clearly in mind. The author hereby disclaims any liability for injury to persons or property that may result due the construction and use of this power supply. This publication is for informational purposes only, and makes no claims to its completeness or accuracy.

The use of this modified remote may void the warranty for your specific camera. The use of this modified remote may also damage your camera if not used properly. When using any modified equipment, such as this remote controller, with your camera, you are doing so at your own risk!



Schematic – Modified TC-80N3 Remote Controller

Modification

When modifying the actual remote controller, there are an infinite amount of ways which this can be done depending on one's individual needs. For my particular use, I decided to keep the original TC-80N3's cable intact and simply add a Y-connection to it to provide remote control for my Canon Digital Rebel.

To do this, I first cut the 20Ft. Stereo Headphone cord about two feet from the female connector end of the cable. I then spliced this two foot section of cable (including the female connector) into the original TC-80N3 cable.

Once this was completed, I was left with the remaining 18 foot section of the Stereo Headphone cord with the male connector. This half-section of cable will serve as the actual Canon 300D Digital Rebel control cord and also provide 18 foot of extension cable if needed. (It can be cut shorter if that better suits your needs.)

To complete the modification, the Radio Shack 3/32" Stereo Connector is attached to the loose wire end of the 18 foot section of the Stereo Headphone cord. This 3/32"

connector will plug directly into the Canon 300D, 350XT, or 400D Digital Rebels.



Completed Modification

The modification is now complete and ready for use. As you can see, I can still use the TC-80N3 normally with the other Canon Digital SLRs such as the D30, D60, 10D, 20D, etc..., and when I require use of the remote controller with the Canon Digital Rebel, I simply plug in the extension cord and plug that into the camera.

Also note that this controller can also control both cameras at the same time as well.

Ref Des	Description	Distributor	Part No.
	Right Angle 3/32" Stereo Phono Plug	Radio Shack	274-298
	20 Ft. Stereo Headphone Ext. Cord	Radio Shack	42-2562

Parts List – Modified TC-80N3 Remote Controller