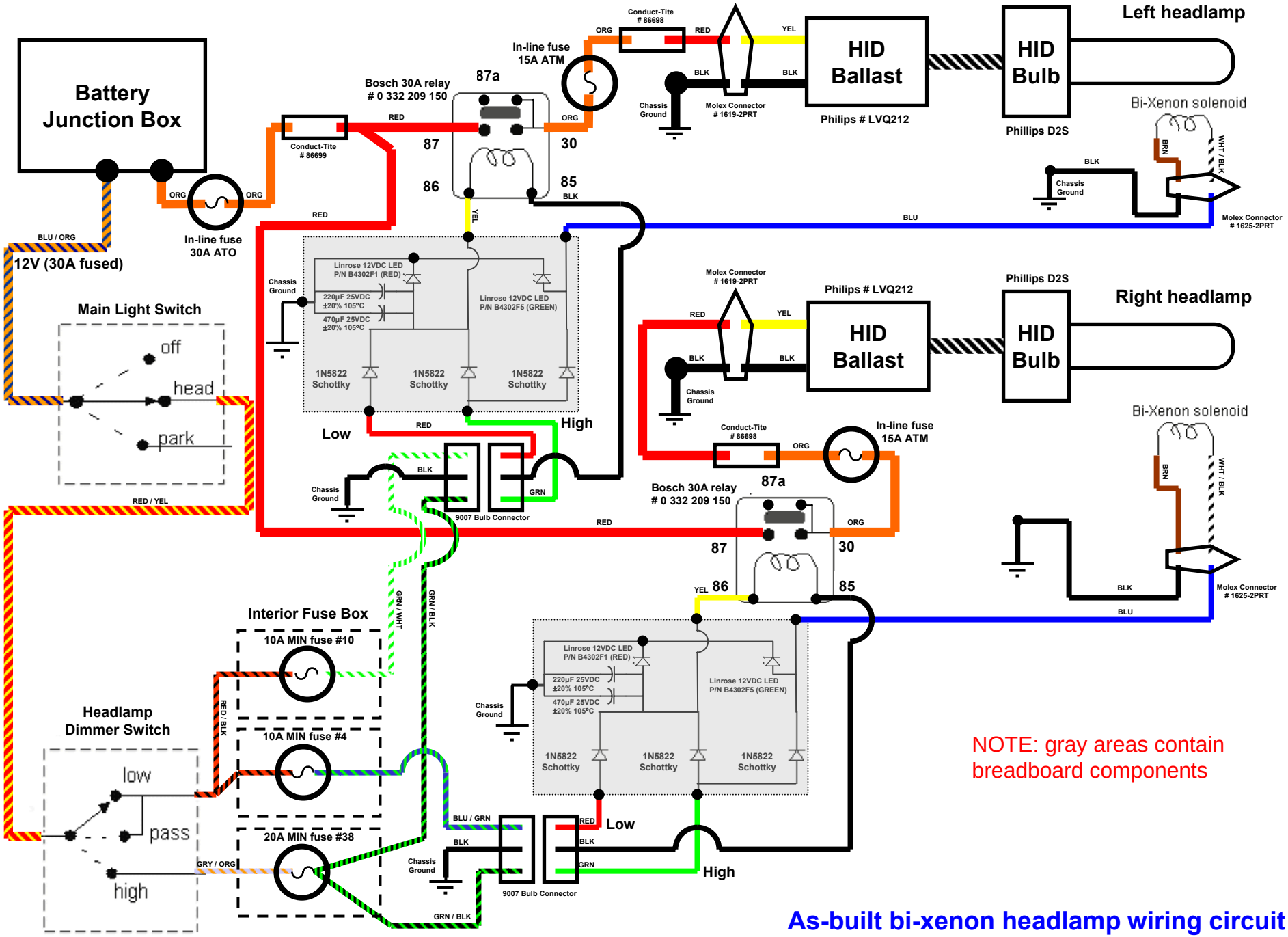
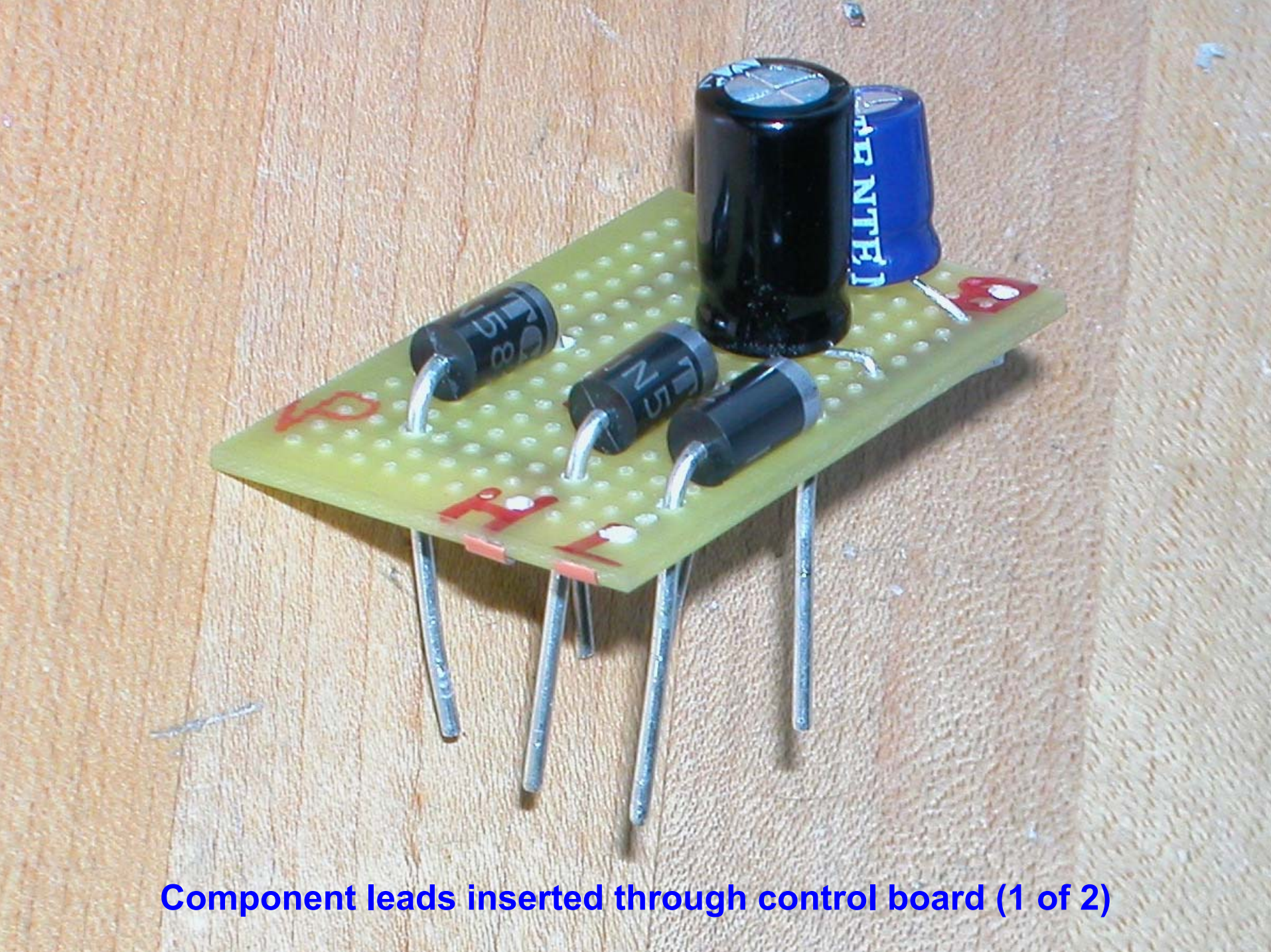
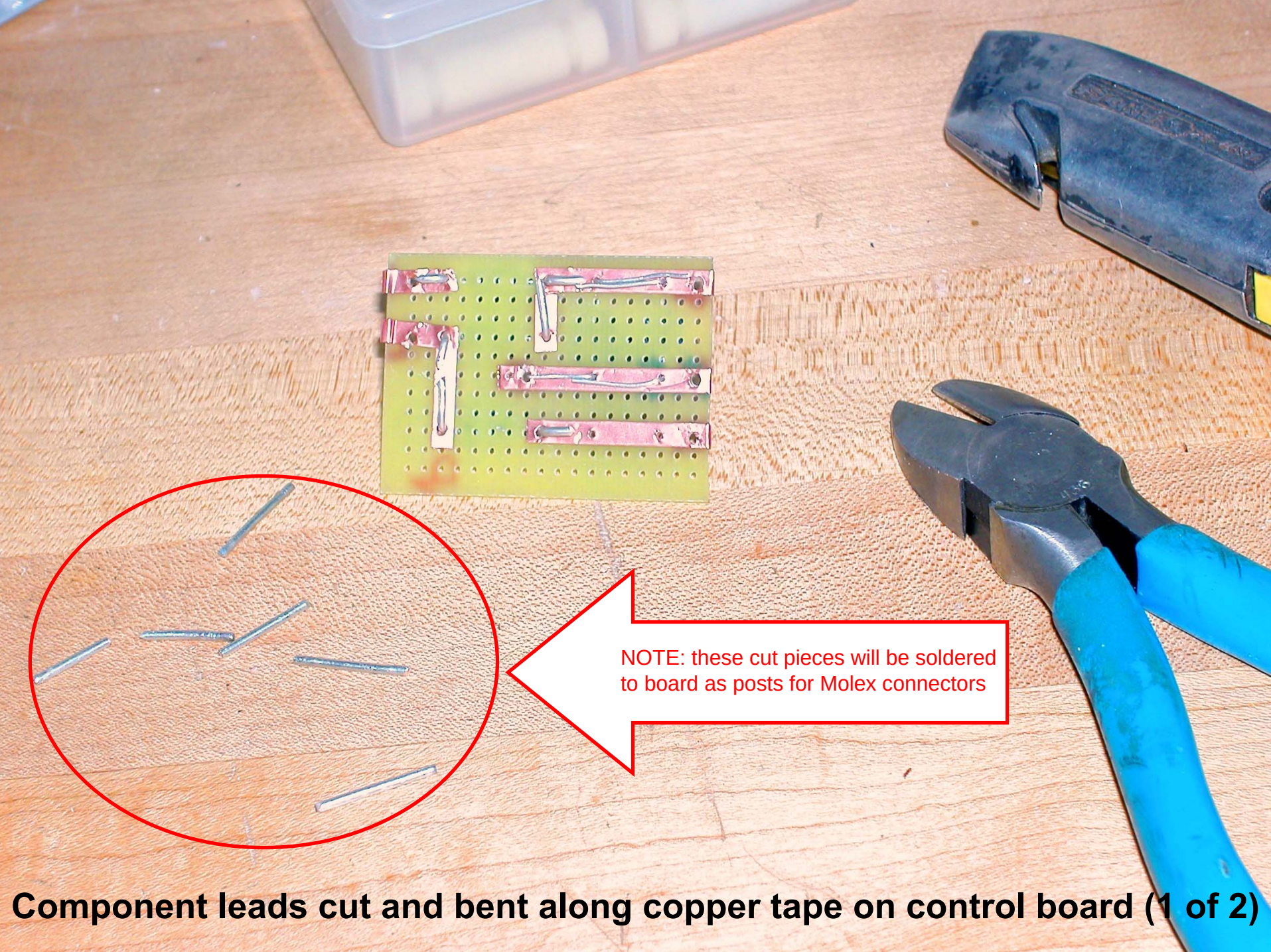

Battery Junction Box
12V (30A fused)
BLU / ORG
In-line fuse 30A ATO
ORG
Conduct-Tite # 86699
Bosch 30A relay # 0 332 209 150
87a
87
86
30
85
RED
YEL
BLK
ORG
In-line fuse 15A ATM
Conduct-Tite # 86698
Chassis Ground
Molex Connector # 1619-2PRT
HID Ballast
Philips # LVQ212
HID Bulb
Phillips D2S
Left headlamp
Bi-Xenon solenoid
BRN
WHT / BLK
Molex Connector # 1625-2PRT
BLU
Linrose 12VDC LED P/N B4302F1 (RED)
220µF 25VDC ±20% 105°C
470µF 25VDC ±20% 105°C
Linrose 12VDC LED P/N B4302F5 (GREEN)
1N5822 Schottky
Low
High
9007 Bulb Connector
GRN
Main Light Switch
off
head
park
RED / YEL
Right headlamp
Interior Fuse Box
10A MIN fuse #10
10A MIN fuse #4
20A MIN fuse #38
GRN / WHT
GRN / BLK
RED / BLK
GRY / ORG
BLU / GRN
Headlamp Dimmer Switch
low
pass
high
NOTE: gray areas contain breadboard components
As-built bi-xenon headlamp wiring circuit

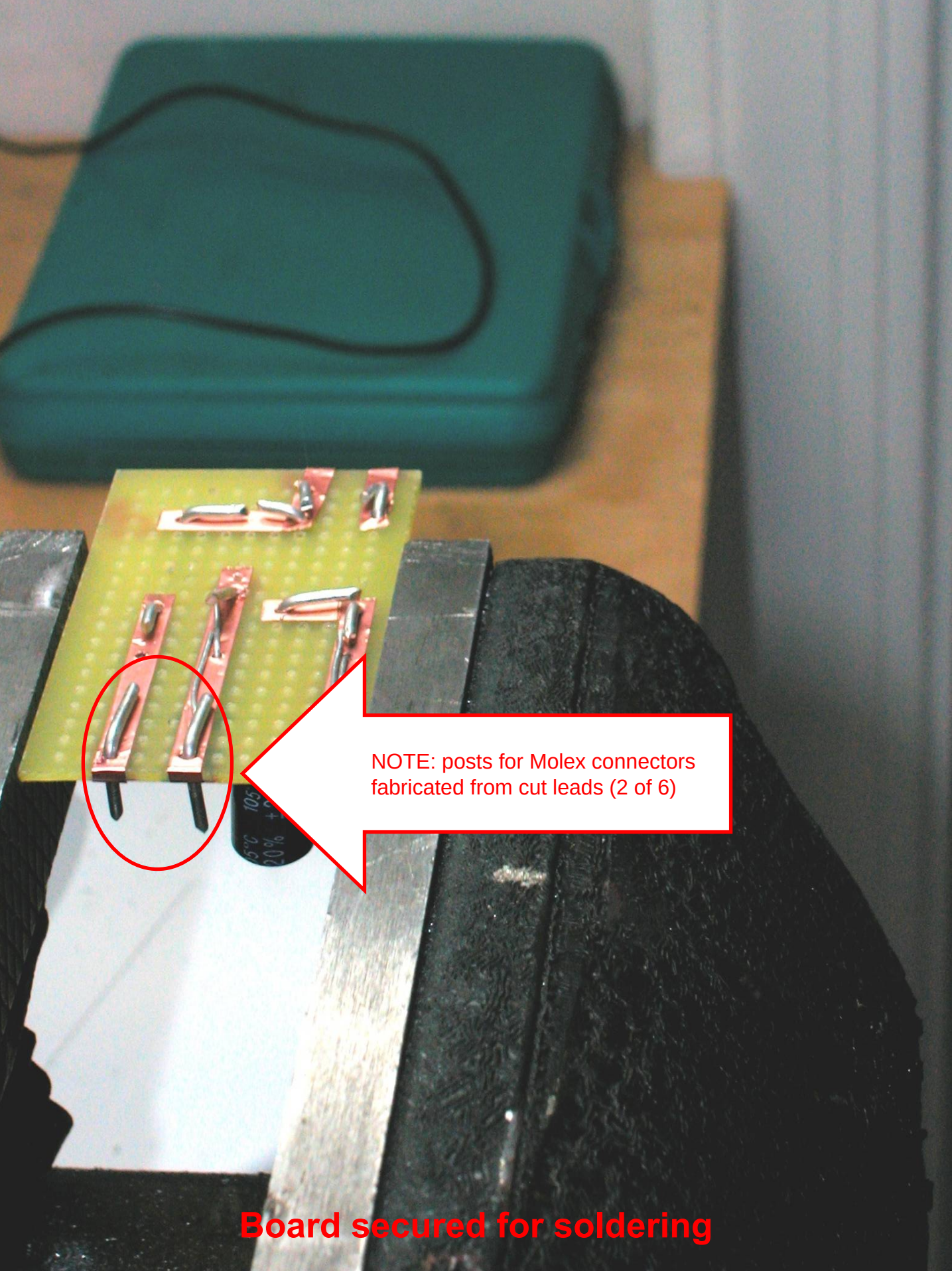
Assorted parts for HID ballast control box (1 of 2)



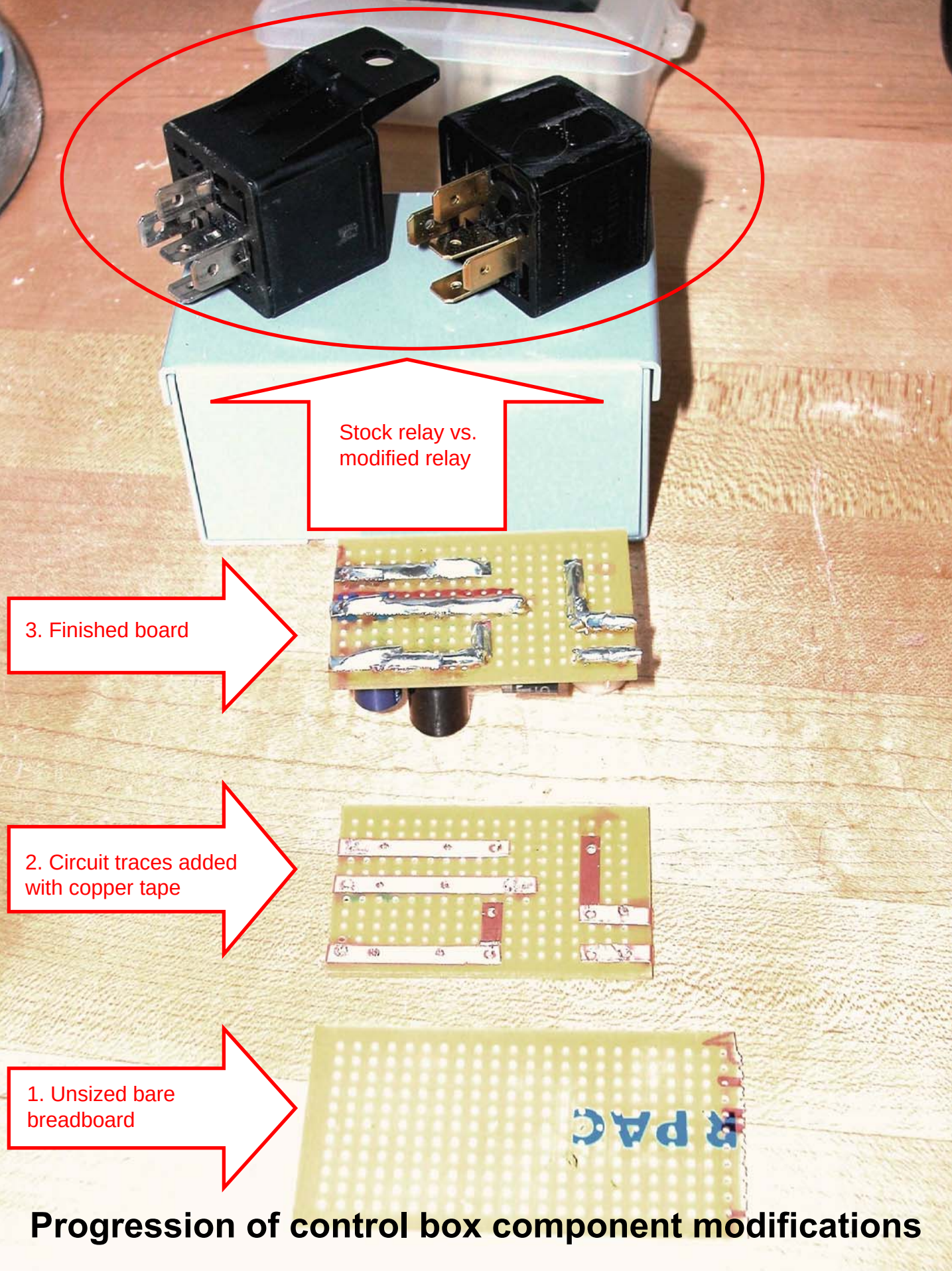
Component leads inserted through control board (1 of 2)



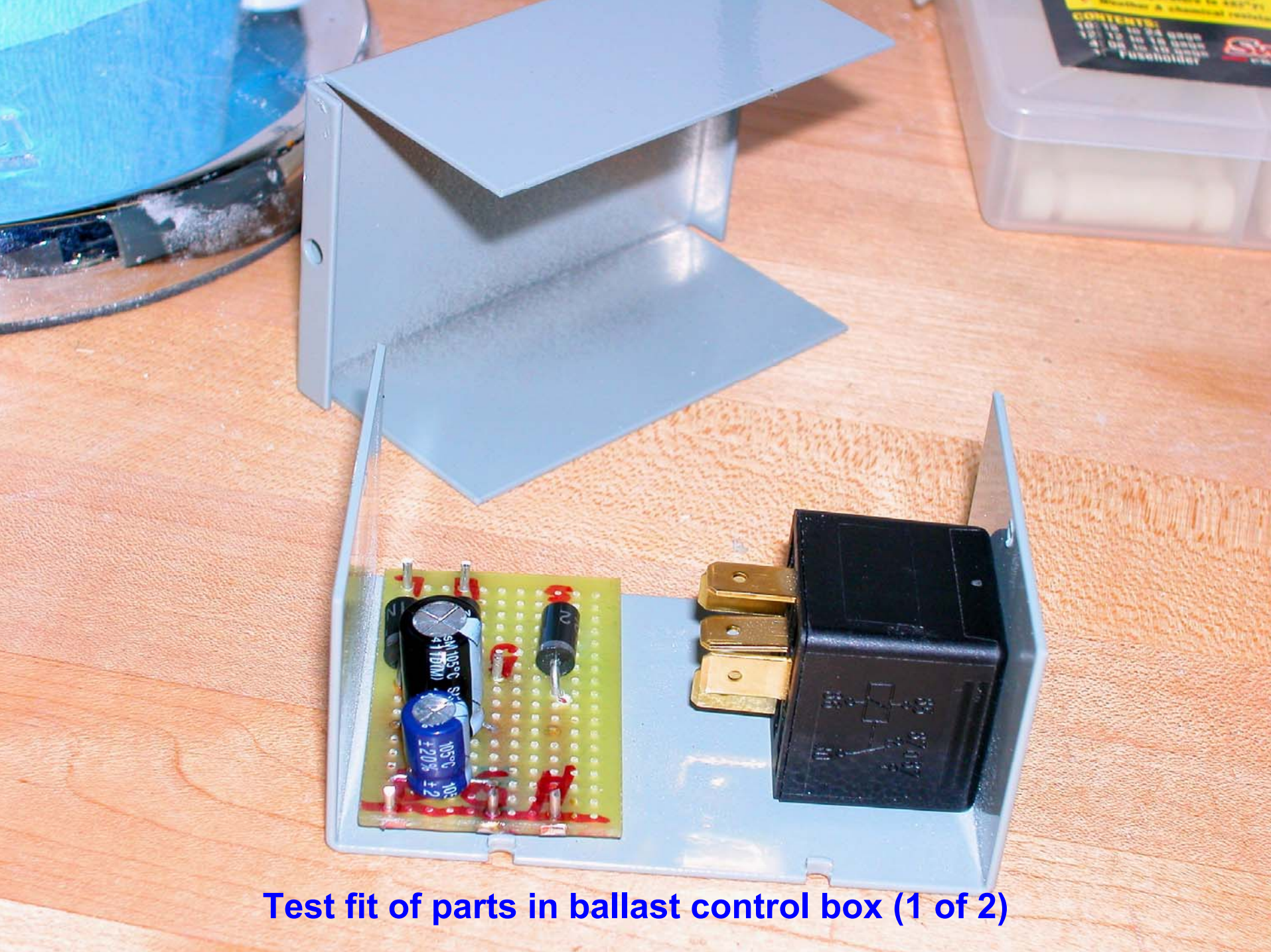
Component leads cut and bent along copper tape on control board (1 of 2)



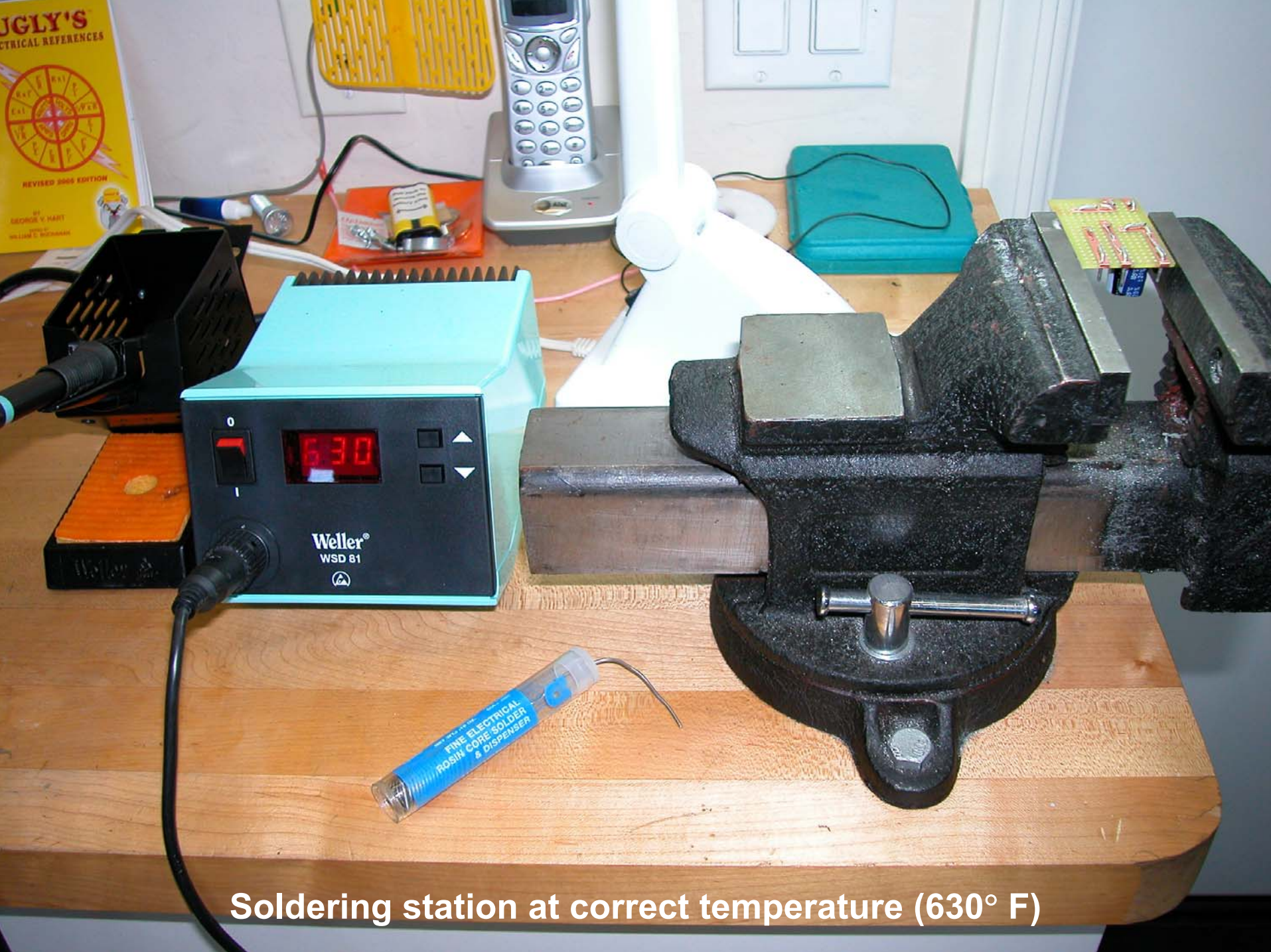
Board secured for soldering



Progression of control box component modifications

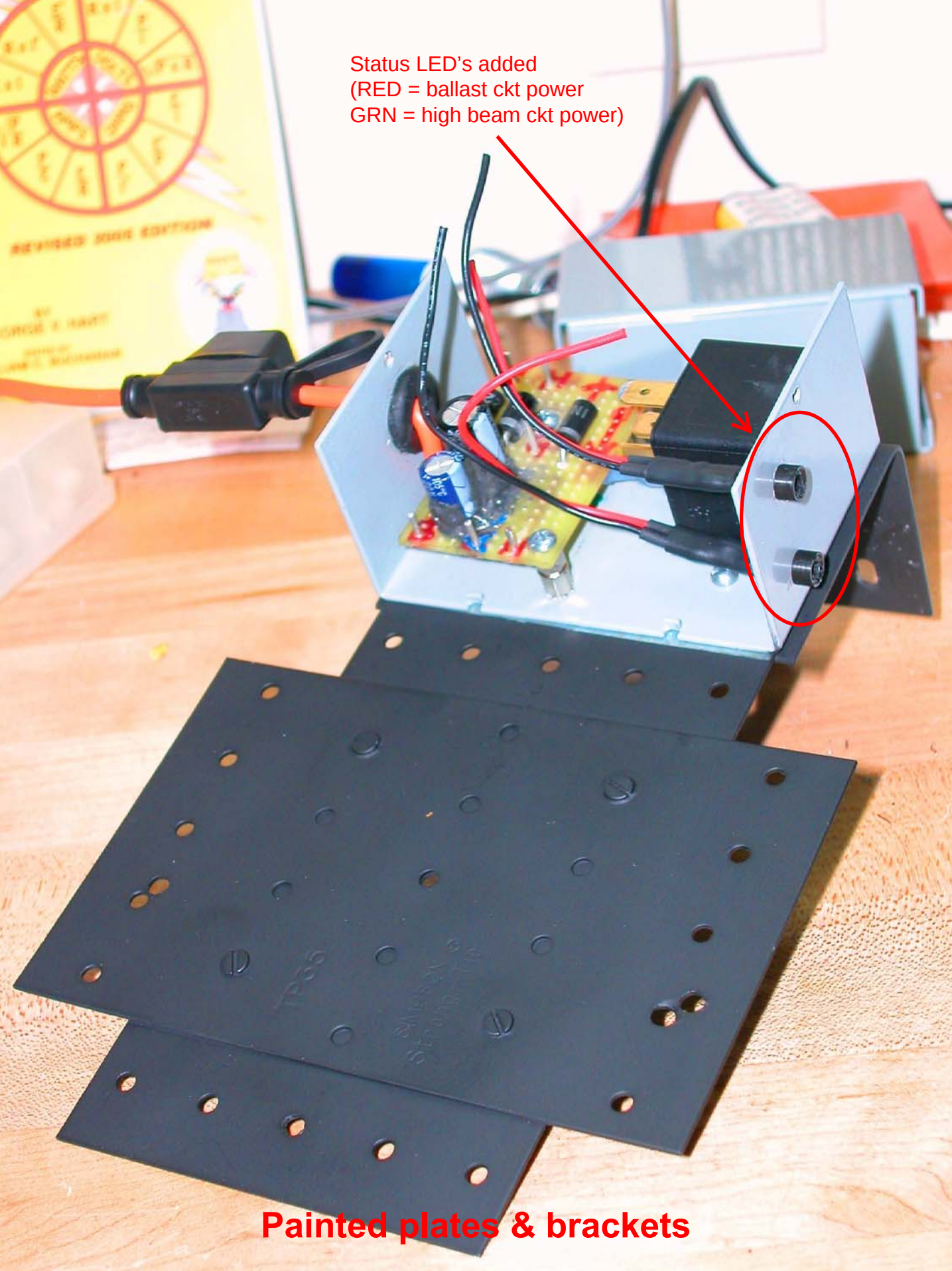


Test fit of parts in ballast control box (1 of 2)

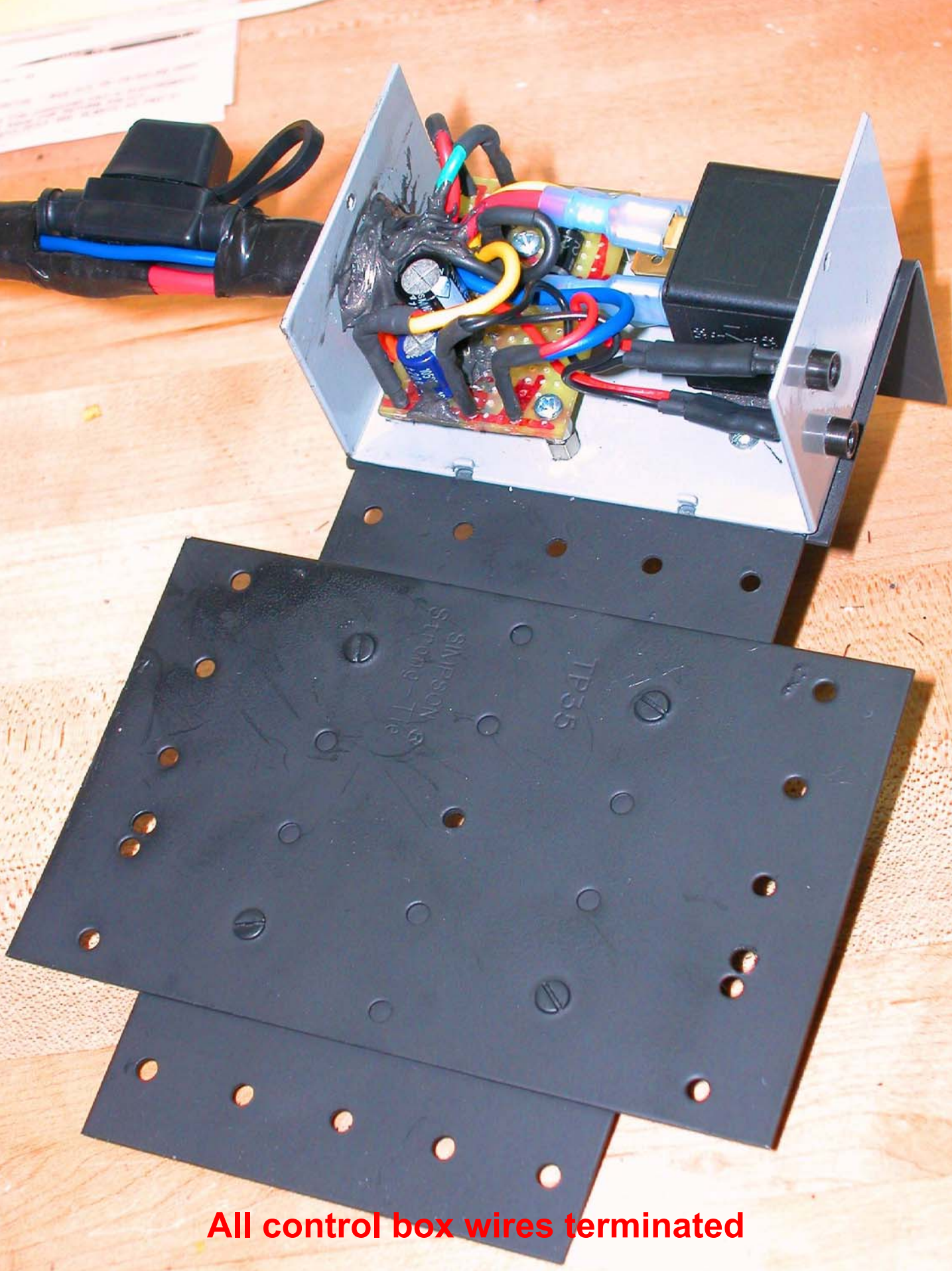


Soldering station at correct temperature (630° F)

Mounting plate and bracket assemblies

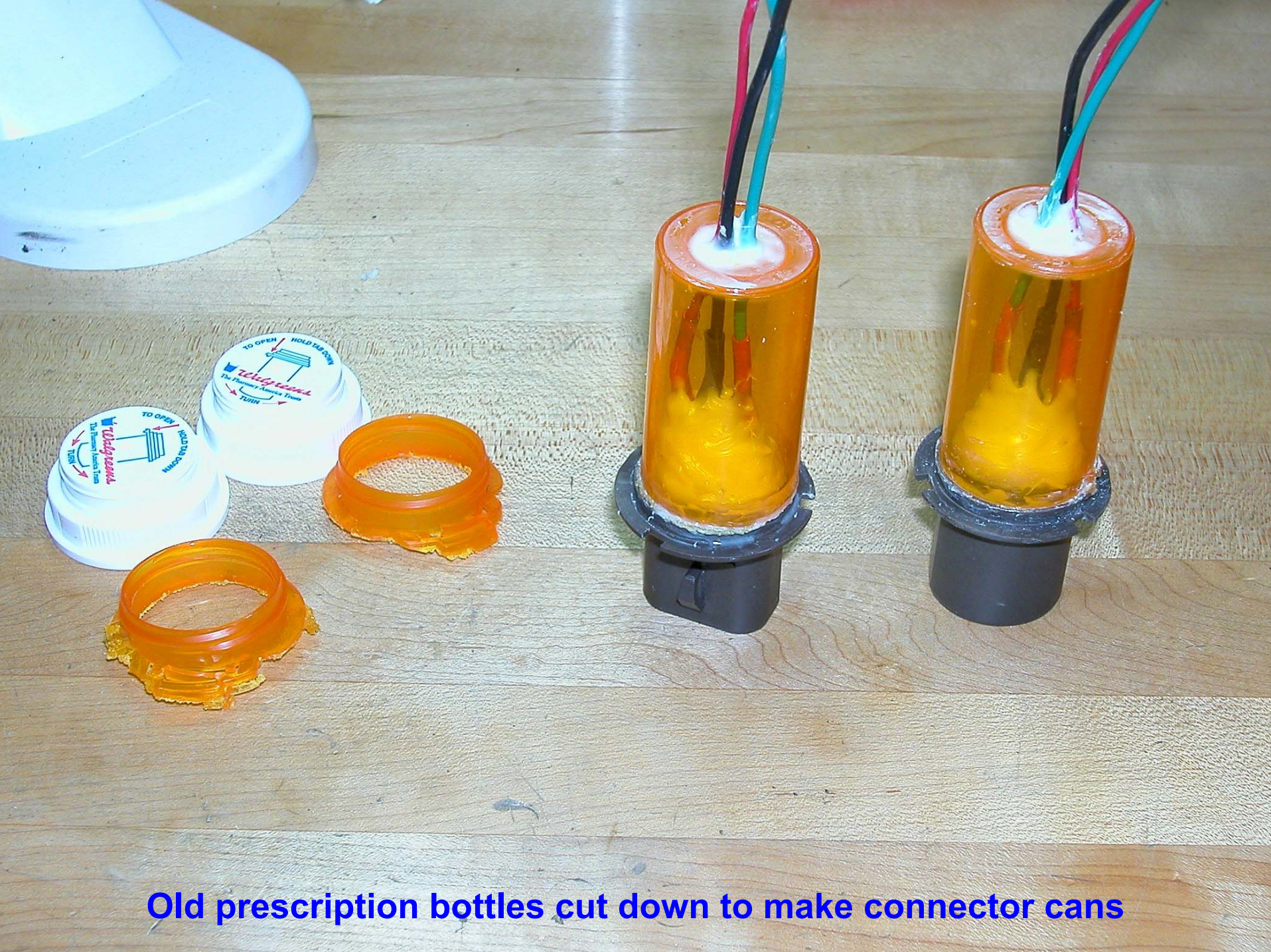


Painted plates & brackets



All control box wires terminated

Beginning stage of headlamp harness adapters fabricated from Sylvania 9007 halogen bulb bases

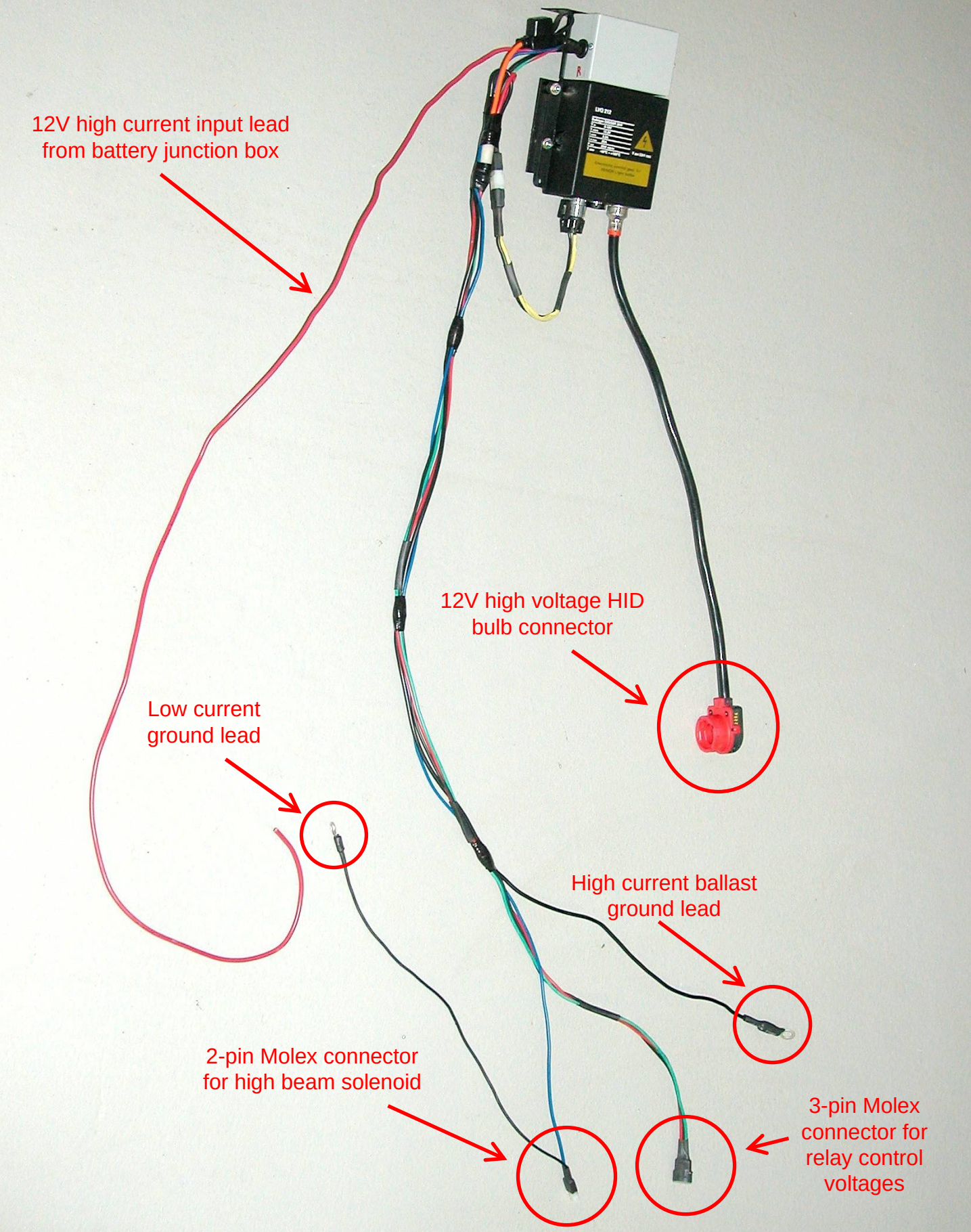


Old prescription bottles cut down to make connector cans

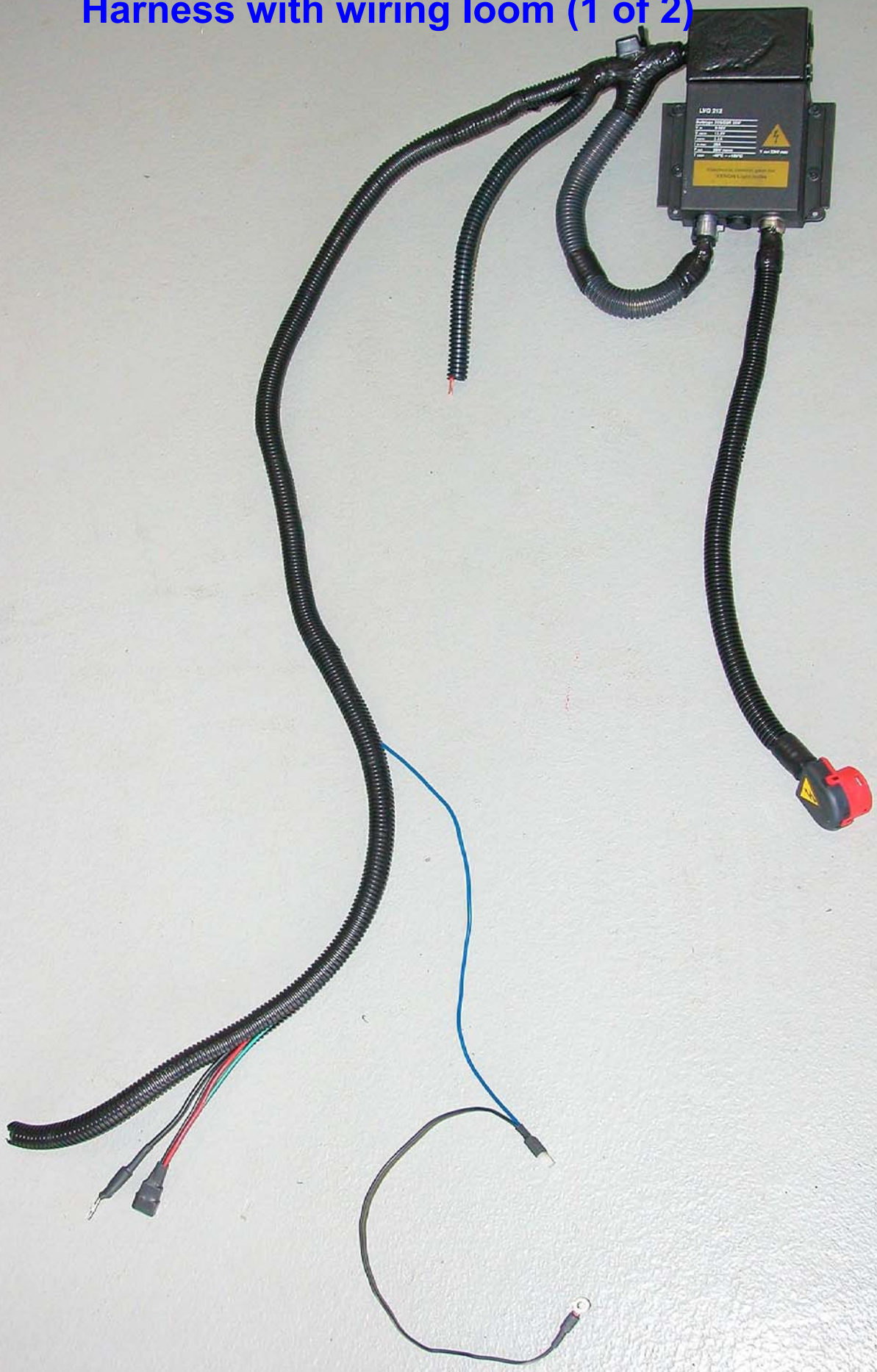
Shrink tubing & aerosol Plasti-dip add the finishing touches

9005 halogen connectors for the Philips ballasts

Headlamp harness w/ ballast & control box (1 of 2)

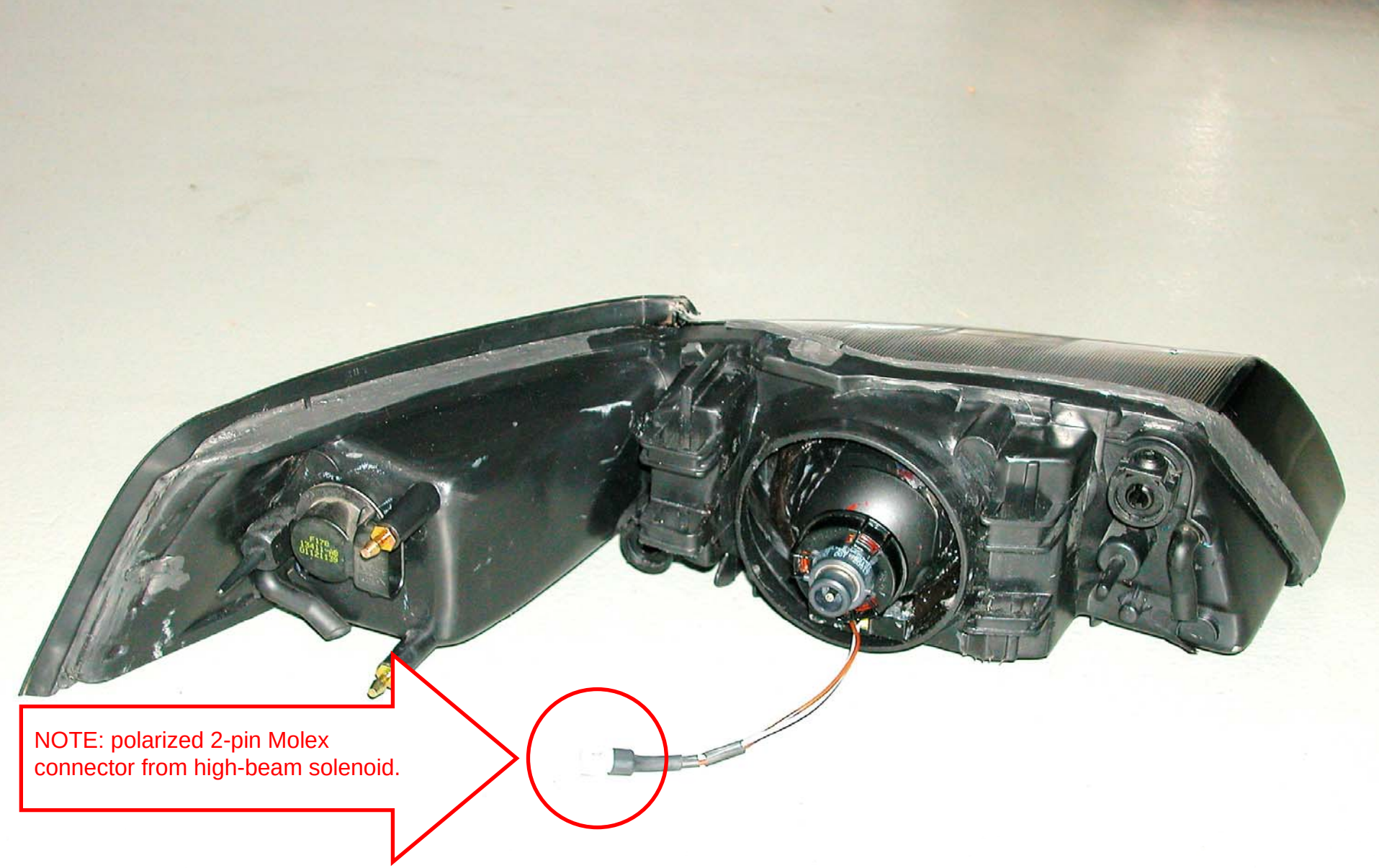


Harness with wiring loom (1 of 2)



Installed harness, ballast, & control box (1 of 2)

New headlamp housing w/ HID projector pre-installed (1 of 2)



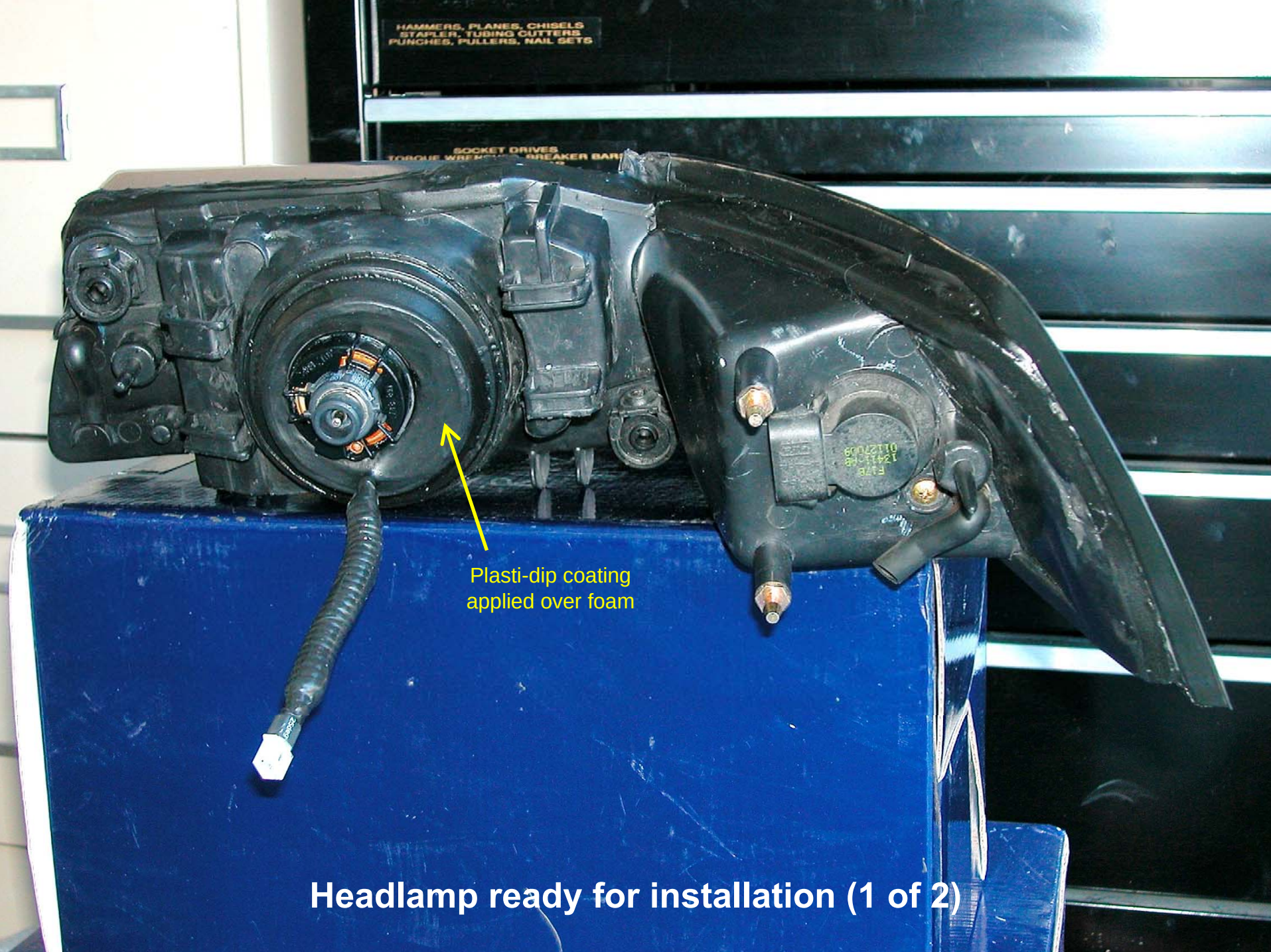
Back of unsealed HID projector (1 of 2)

Plastic plumbing reducer (uncut at left)

Rubber rain collar (1 of 2)

Trimmed rain collar (1 of 2)

Housing after applying spray foam (left) vs. before (right)



Headlamp ready for installation (1 of 2)

HID projector (left) vs. stock headlamp

Finished headlamps installed on car


Light color of 4100K HID lights is very close to Silverstar fogs

One last shot of the finished project