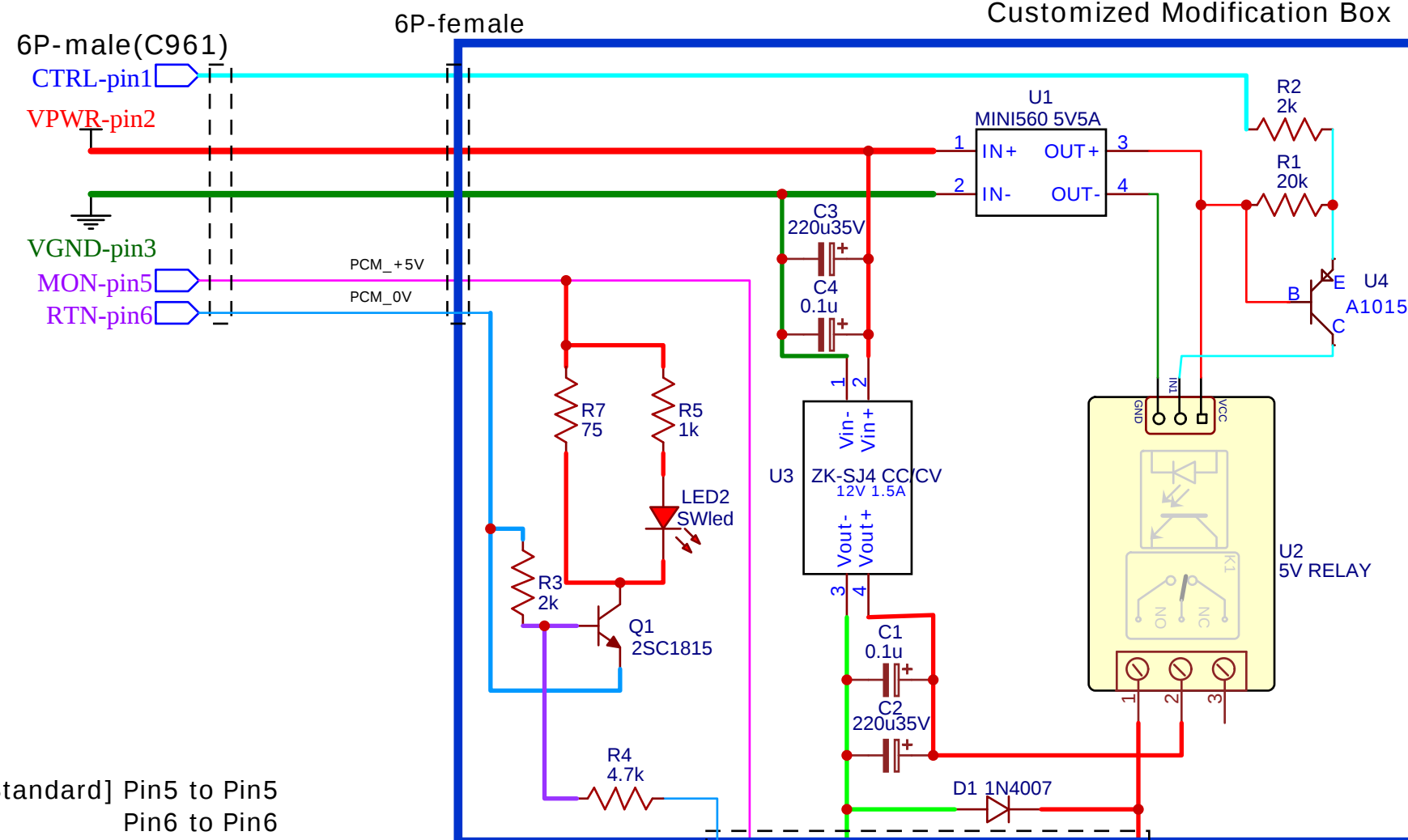
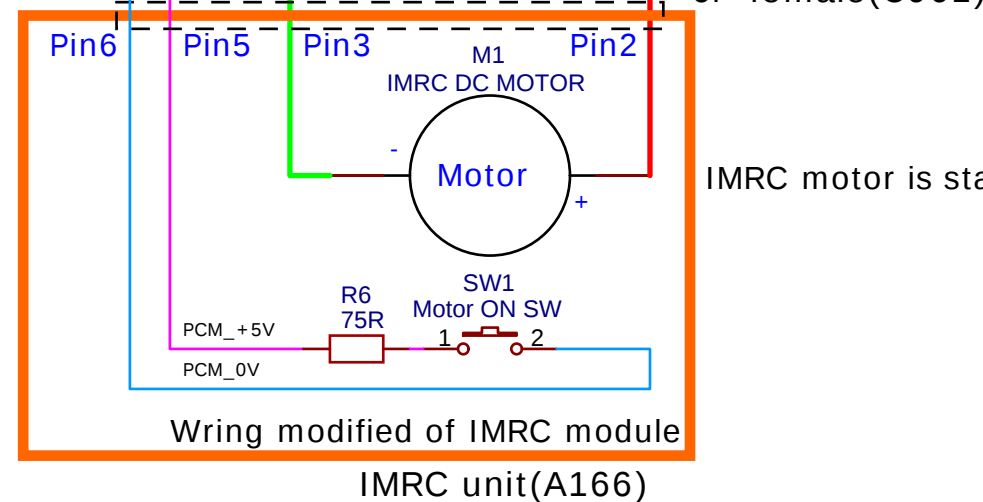
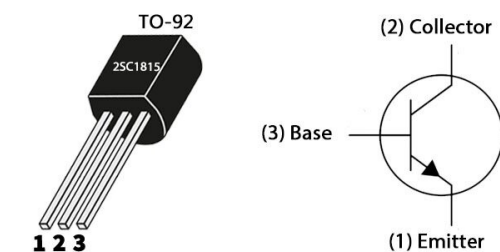




[Standard] Pin5 to Pin5  
Pin6 to Pin6

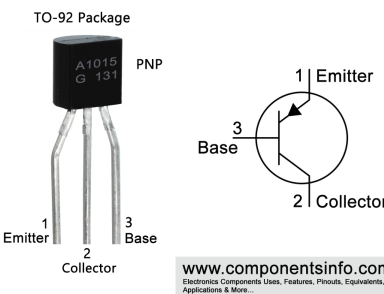
[Option] NPN transistor detects 75R signal return.  
NPN transistor detects hardware ON/OFF of 75R.  
NPN transistor also turns on a LED to virtual.  
Original:  $I = V/R = 5/75 = 0.0667A = 66.7mA$

## 2SC1815 Pinout



Wring modified of IMRC module  
IMRC unit(A166)

## A1015 Transistor Pinout



PNP transistor detects PCM 5V dropping to 4V for IMRC work signal.  
ON = 4.0v (<4.5v)  
OFF = 5.0v (>4.5v)

ZK-SJ4 FP5139 CC/CV power module is 12.0V and 1.5A to work.  
(PlanB) LM2596 CC/CV step-down module is 11.4V/1.5A to work.  
\*\* Original IMRC design is 1.88A for stall constant current. \*\*

IMRC motor is stalled and kept in 1.5A static current of 12V power.

|                                                            |  |                                |
|------------------------------------------------------------|--|--------------------------------|
| TITLE:<br>FORD FOCUS MK1 ST170 IMRC modify circuit and kit |  | REV: 8                         |
| EasyEDA                                                    |  | Sheet: 1/1                     |
| Company:                                                   |  | Date: 2026-07-09 Drawn By: JIR |