Installation of the Bluetooth board in the ATS25 series

Edit by DC9DD

for BT ATS25xxx

Potential free switch for BT module ON/OFF

12 V or 5 Volt

K1 Relais

D1 1N4148

Pin 27 ESP32

vom Prozessor

(5 V) –3,3 Volt

R1 10k

T1 BC547
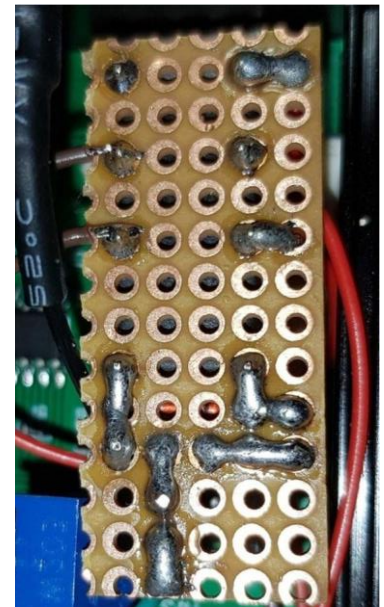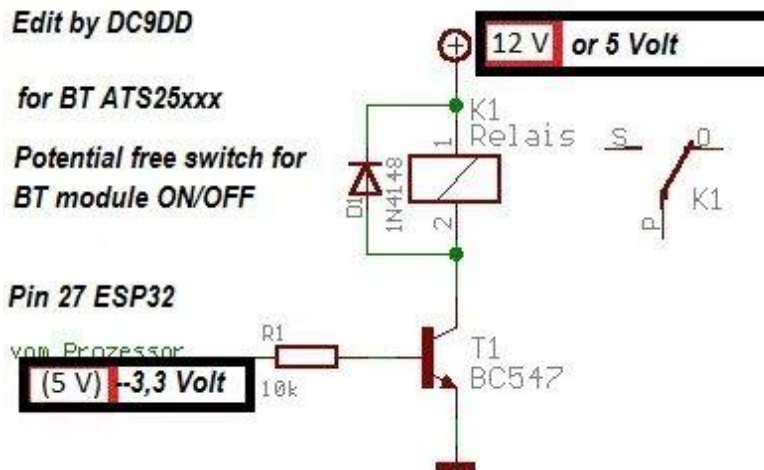
Pictorial structure of the Schmatic by DC9DD.
Created by Manuel Lausmann

HK19F 5V

5V +

To BT Board 5V +

KCX_BT_EMITTER V1.7

+5U
PGND
LINK
RX
TX
AUDIO_L
AUDIO_R
AGND
DP
DM
CONNECT

GND
Audio L
Audio R
AGND

1N4148   5V +

BC547   GND

10k

PIN 27 ESP

https://amzn.to/3sq2dvq
https://amzn.to/47IagUM
https://amzn.to/3P2DbeT
https://amzn.to/47Dqgav
https://amzn.to/3smsICb
https://s.click.aliexpress.com/e
/_Dcic6ox

Audio L
Audio R
AGND
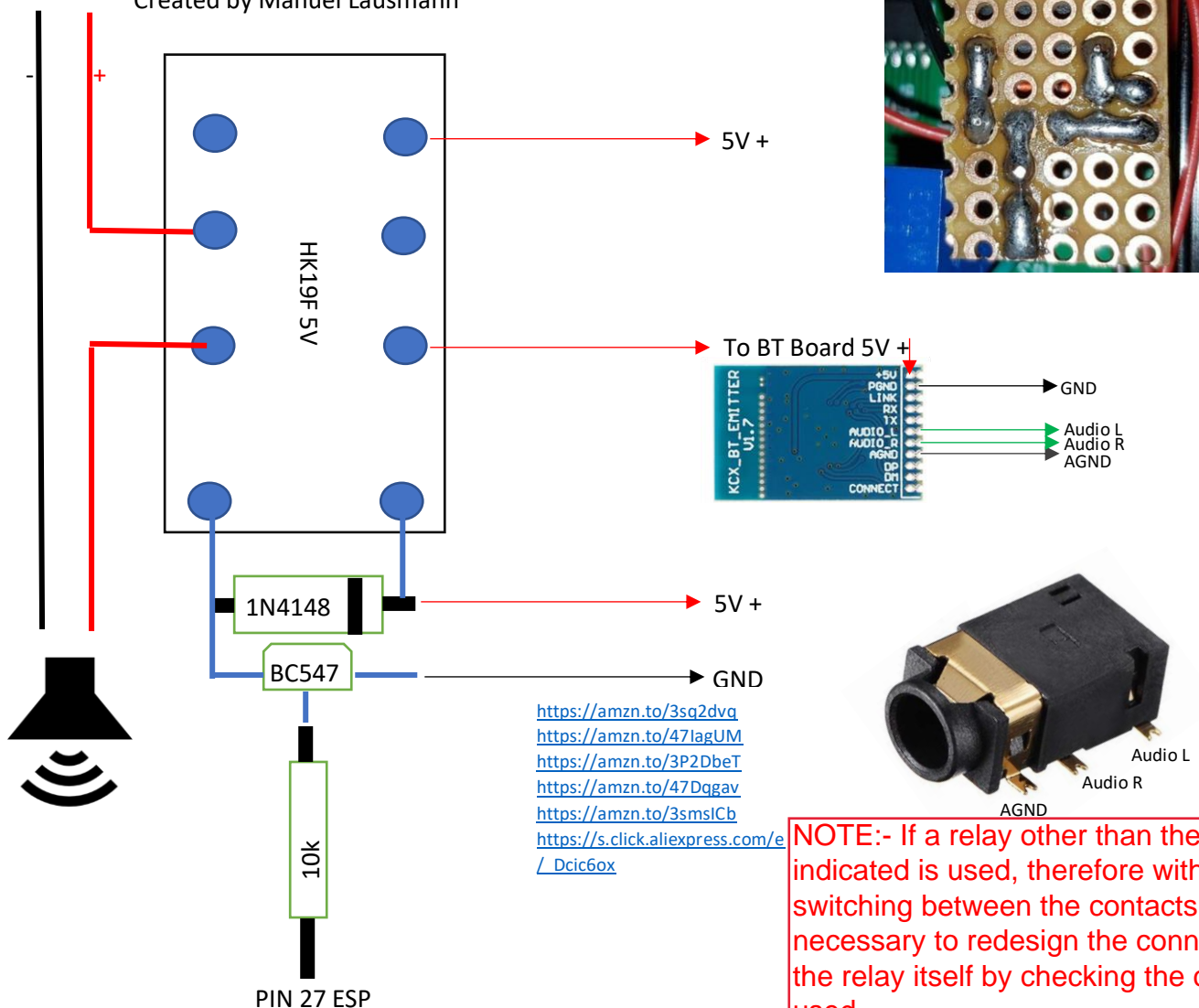
NOTE:- If a relay other than the one indicated is used, therefore with different switching between the contacts, it is necessary to redesign the connections to the relay itself by checking the component used.

Activate the Bluetooth interface in the software 4.16 of the ATS25

In the setting.ini file you have to make the following changes. Remove the two // at BTenable and audioMutePin. Then set the audioMutePin value to 0. Then upload the setting.ini to the ATS25 with the A Explorer.

```
// ----------------------------------------------- variable pins
//SDAPin              , 21    // I2C bus SDA pin on ESP32
//SCLPin              , 22    // I2C bus SCL pin on ESP32
//resetPin            , 12    // reset pin ESP32
//encoderPinA         , 17    // encoder rotate pin A ESP32
//encoderPinB         , 16    // encoder rotate pin B ESP32
//encoderSwitchPin    , 33    // encoder switch pin ESP32
//batteryInfoPin      , 35    // battery voltage divider pin ESP32
//batteryChargePin    , 36    // battery charge divider pin ESP32
//beeperPin           , 13    // beeper pin ESP32
//displayLedPin       , 14    // display led control pin ESP32
audioMutePin          , 0     // hardware audio mute pin ESP32
//decoderPin          , 39    // decoder CW & RTTY pin ESP32
//audioInputPin       , 32    // input audio pin ESP32
//LNAenable           , 26    // LNA enable pin ESP32
//antHiZ              , 25    // switching antenna input impedance pin ESP32
//lockSwitch          , 13    // functional button pin ESP32
BTenable              , 27    // bluetooth enable pin ESP32
//BTpair              , 25    // bluetooth pair pin ESP32
```

Links:

ATS25 Telegramgroup
https://t.me/+BOQmKPgV4lM2NDZi

Facebook Groups:
https://www.facebook.com/groups/1237052770198191
https://www.facebook.com/groups/532613604253401
https://www.facebook.com/groups/sdreverywhere

Harduino:
http://harduino.ru/index.php/en/software/software-h-radio-for-the-receiver-ats25-version-4-1-air

Antonino Russo:
https://github.com/IU4ALH/IU4ALH