

# Connecting diagrams for CTRX Graphene and Graphene+



Rev. 1.0  
(130124)

**NOTE! NOTE! NOTE!**

**WHEN CONNECTING VIA NMEA2000:**

**EVEN IF IT IS POSSIBLE TO CONNECT THE CTRX GRAPHENE AND THE CTRX GRAPHENE+ VIA NMEA2000 WE STILL SUGGEST YOU CONNECT YOUR AIS CTRX GRAPHENE/GRAPHENE+ VIA NMEA0183.**

**The reason for connecting via NMEA0183 is that in a larger NMEA2000 network the network *could* "go down", or get slow, due to all the data coming from the AIS.**

**NOTE! NOTE! NOTE!**

**WHEN CONNECTING VIA NMEA0183:**

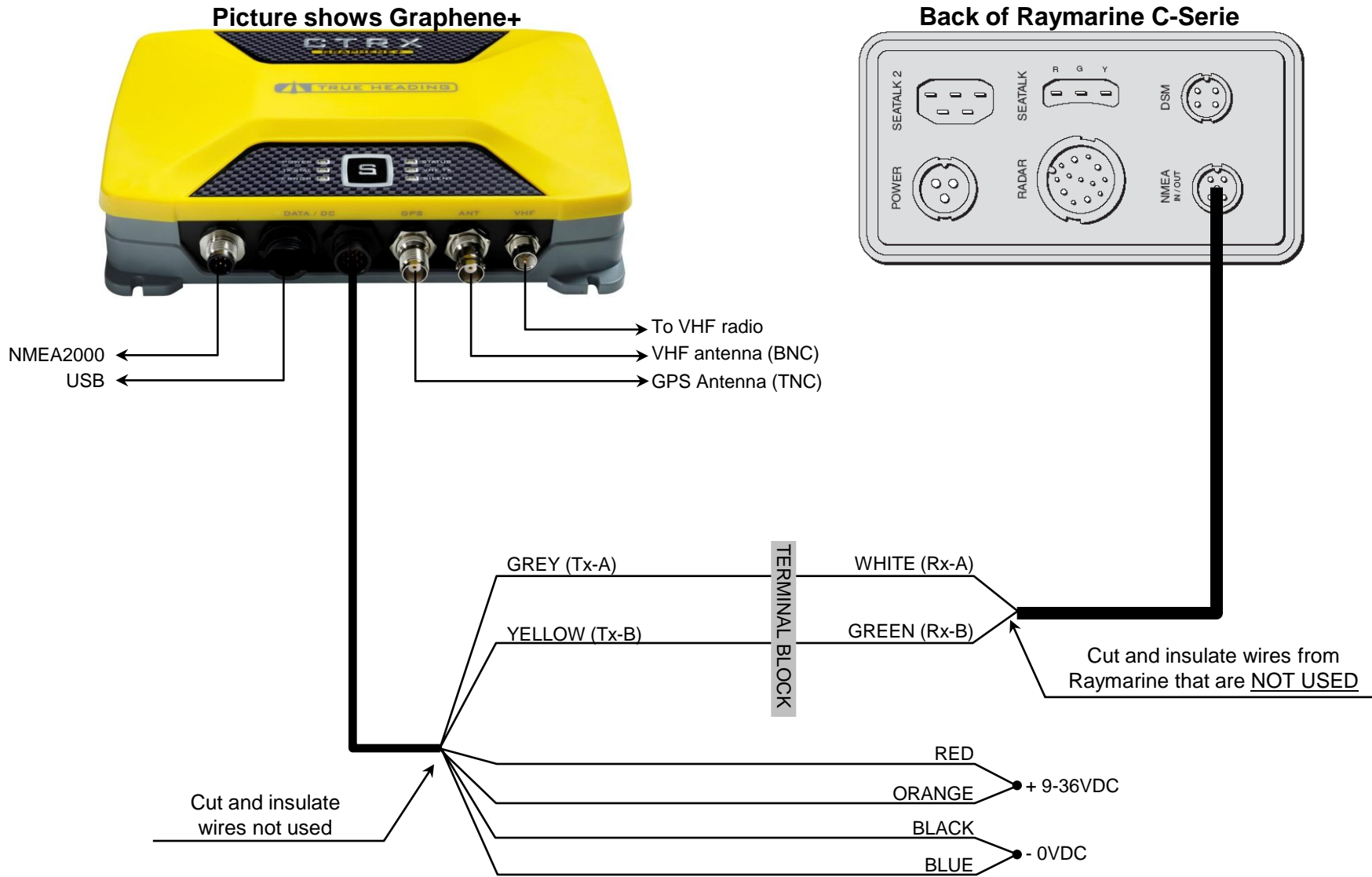
**DO NOT FORGET TO SET THE COMMUNICATION PORT IN THE PLOTTER TO WHICH THE AIS IS CONNECTED TO RECEIVE NMEA0183 DATA AT 38.400 BAUD**

**This setting is in general made in the "communication settings" that usually are under "system configuration".**

**The speed of the communication port shall be set to 38.400 baud but can also be mentioned as "NMEA High Speed".**



## CTRX Graphene and Graphene+ to Raymarine C-xx.





# CTRX Graphene and Graphene+ to Raymarine E-xx.

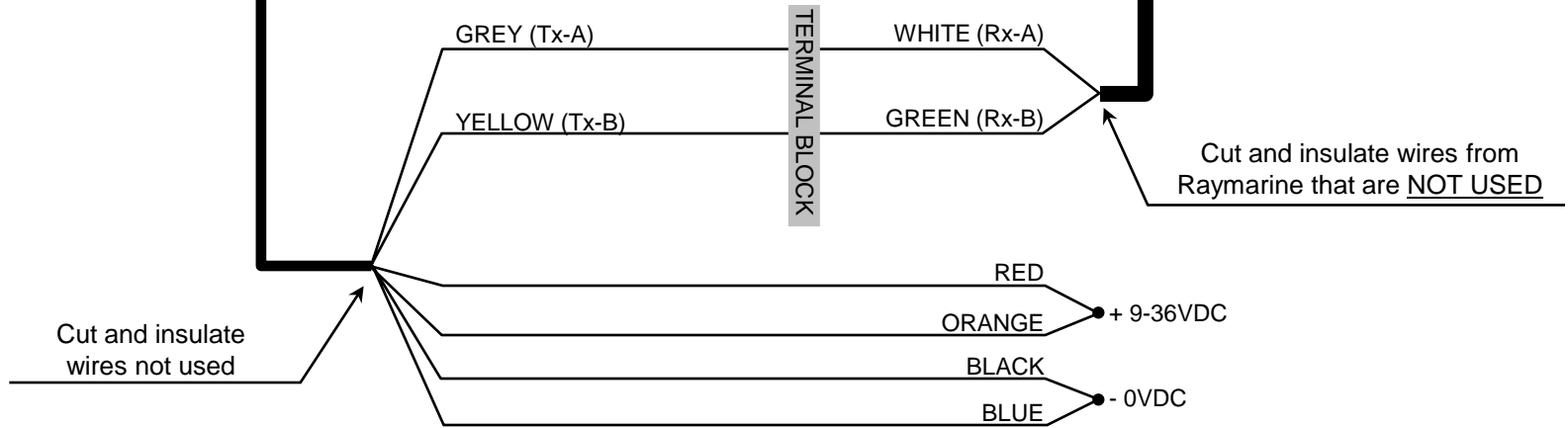
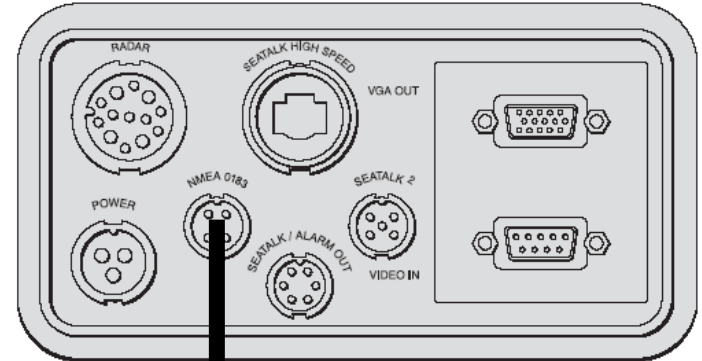
Picture shows Graphene+



NMEA2000  
USB

To VHF radio  
VHF antenna (BNC)  
GPS Antenna (TNC)

Back of Raymarine E-Series





# CTRX Graphene and Graphene+ to Raymarine C-xx (Wide).

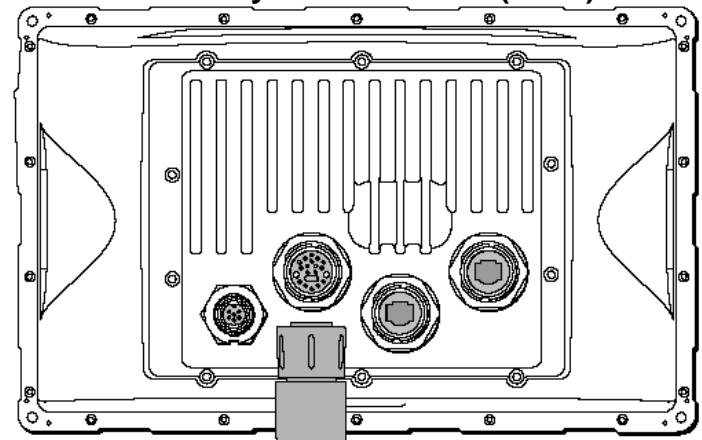
Picture shows Graphene+



NMEA2000  
USB

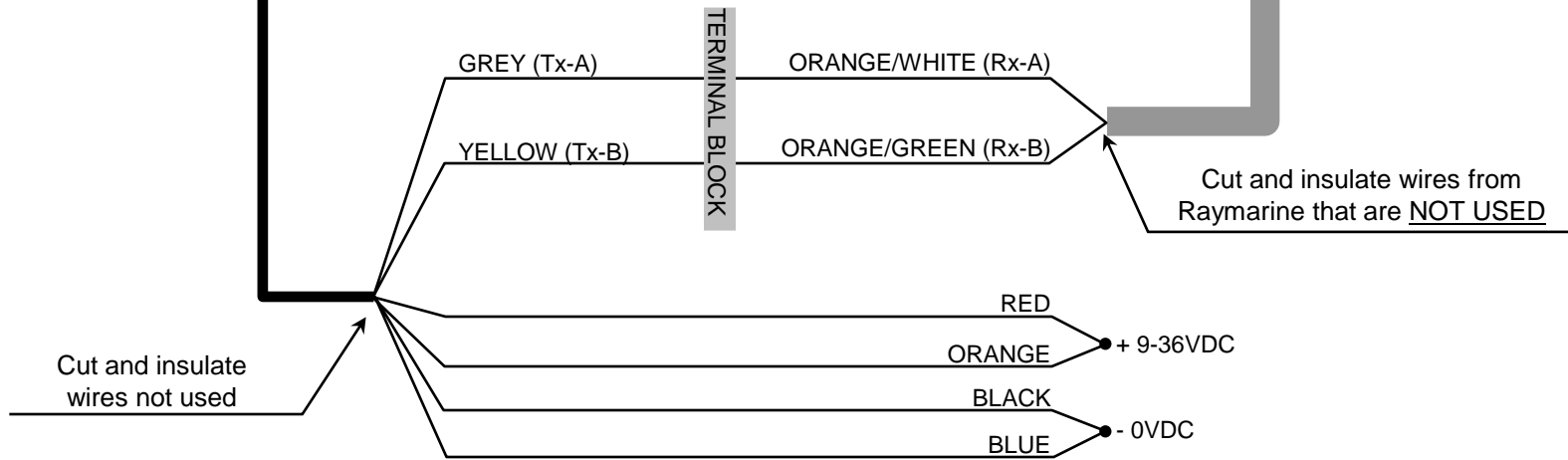
To VHF radio  
VHF antenna (BNC)  
GPS Antenna (TNC)

Back of Raymarine C-series (Wide).



C-Series display

19 way multi-cable



Cut and insulate wires from Raymarine that are NOT USED

Cut and insulate wires not used



# CTRX Graphene and Graphene+ to Raymarine E-xx (Wide).

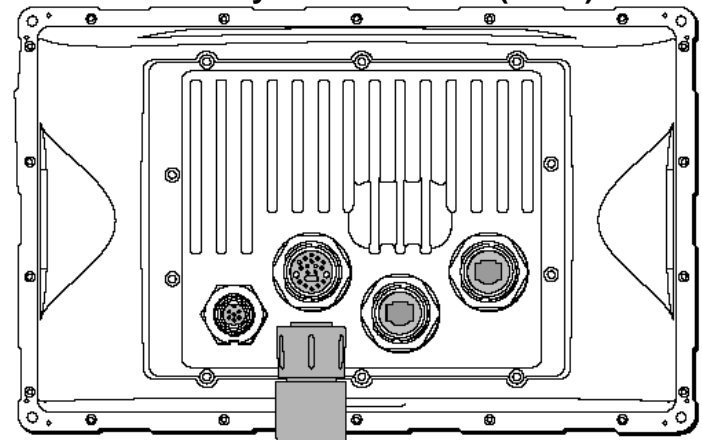
Picture shows Graphene+



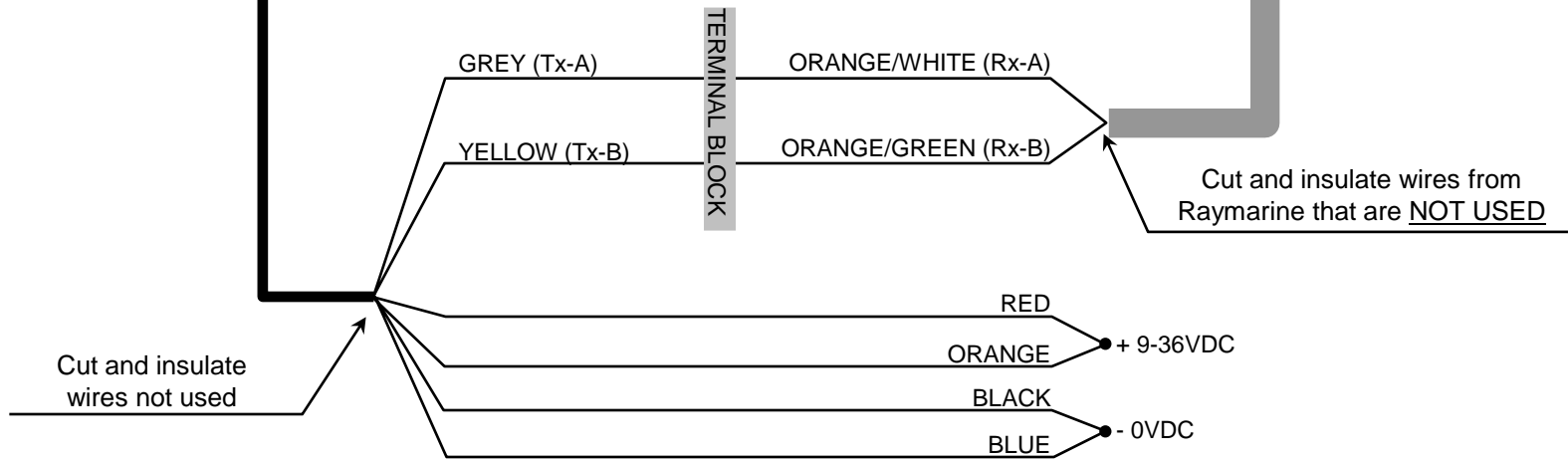
NMEA2000  
USB

To VHF radio  
VHF antenna (BNC)  
GPS Antenna (TNC)

Back of Raymarine E-serie (Wide).



19 way multi-cable





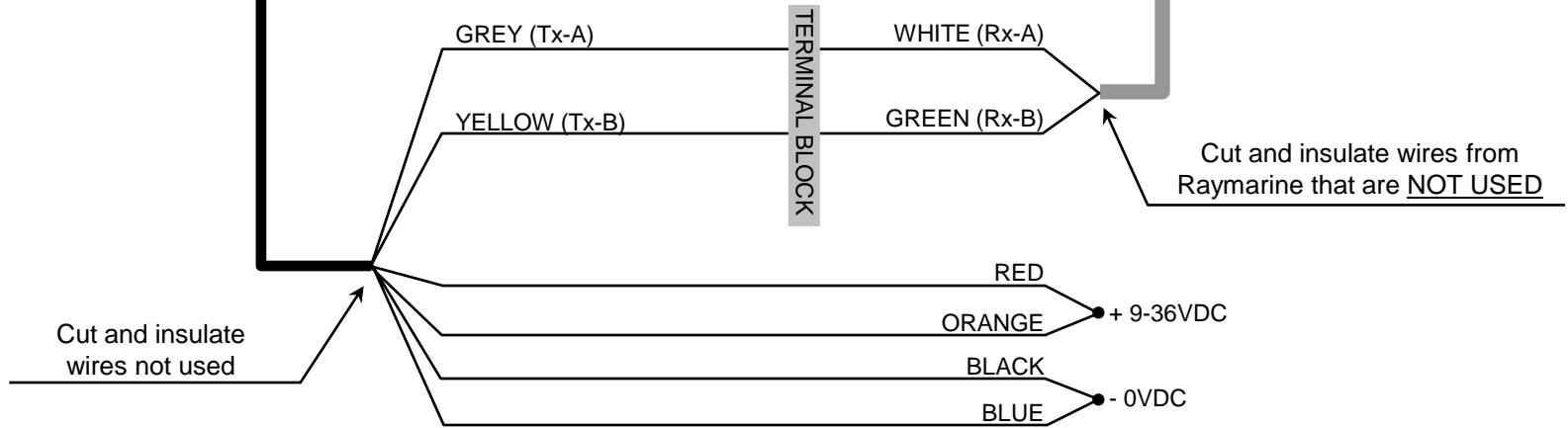
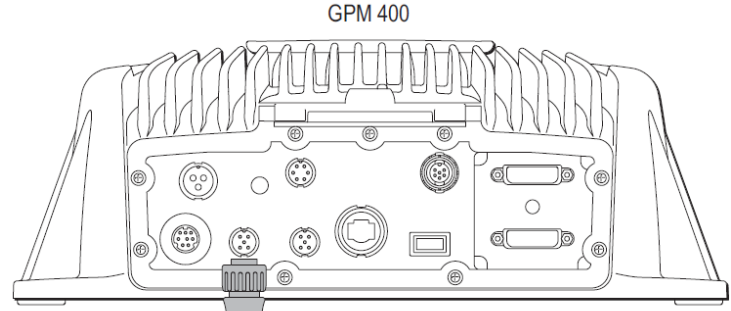
# CTRX Graphene and Graphene+ to Raymarine G-serie.

Picture shows Graphene+



- NMEA2000
- USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)

Back of Raymarine G-serie.







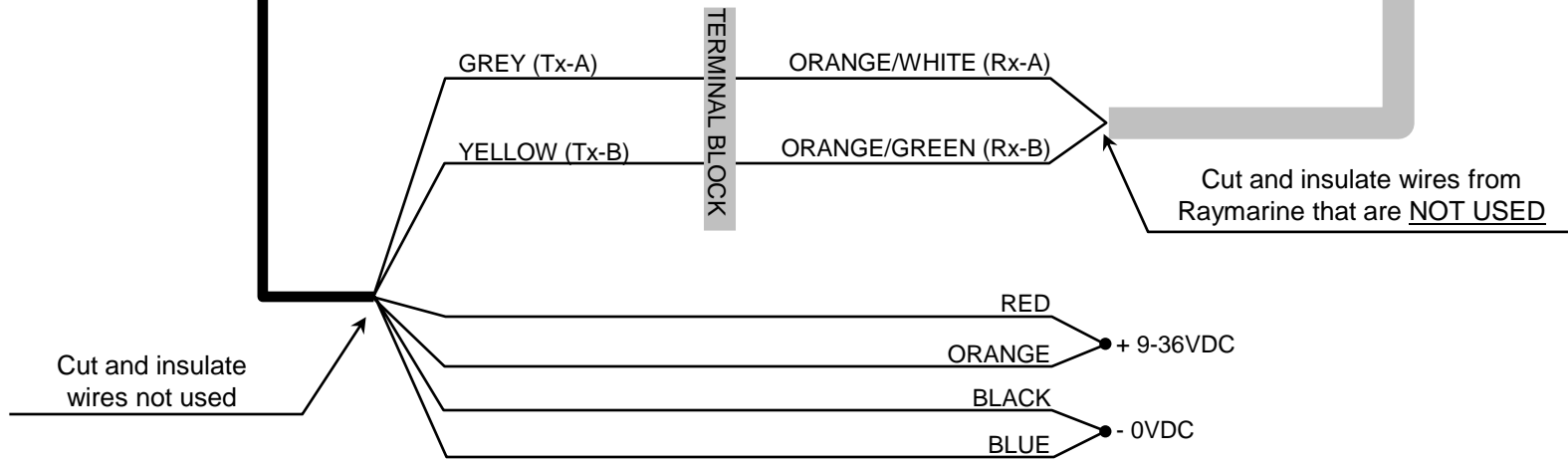
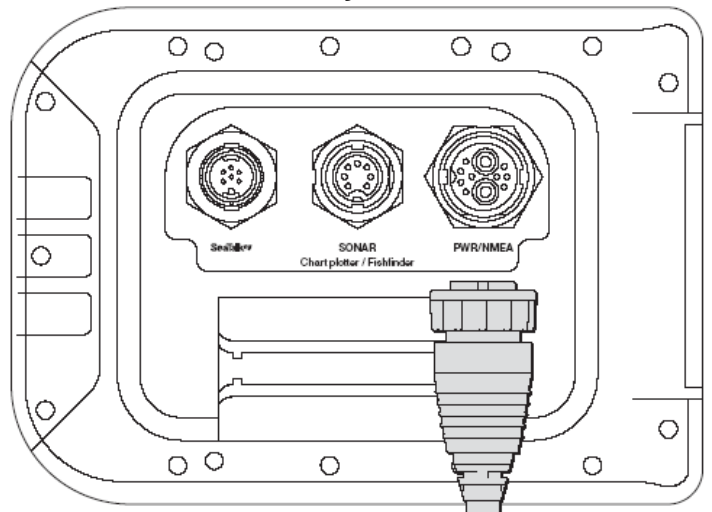
# CTRX Graphene and Graphene+ to Raymarine A-series.

Picture shows Graphene+



- NMEA2000
- USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)

Back of Raymarine A-series.





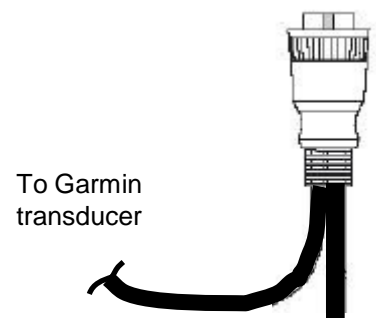
# CTRX Graphene and Graphene+ to Garmin 400- and 500-serie

Picture shows Graphene+



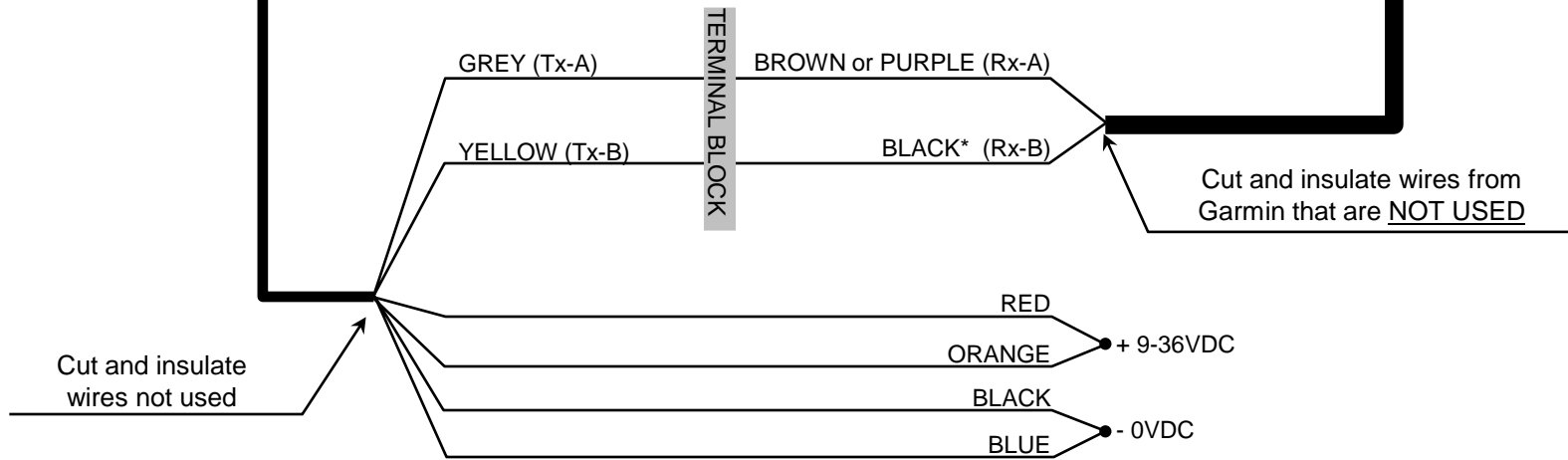
- NMEA2000
- USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)

Connector (Power and data) going in to Garmin 400- or 500-serie



To Garmin transducer

\* = Same wire for power supply 0V and NMEA Rx-B



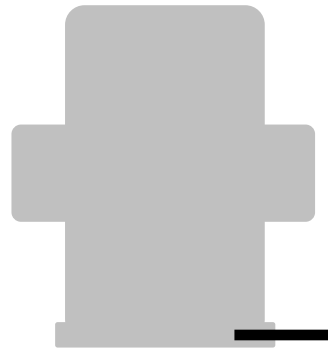


# CTRX Graphene and Graphene+ to Garmin 600-serie

Picture shows Graphene+

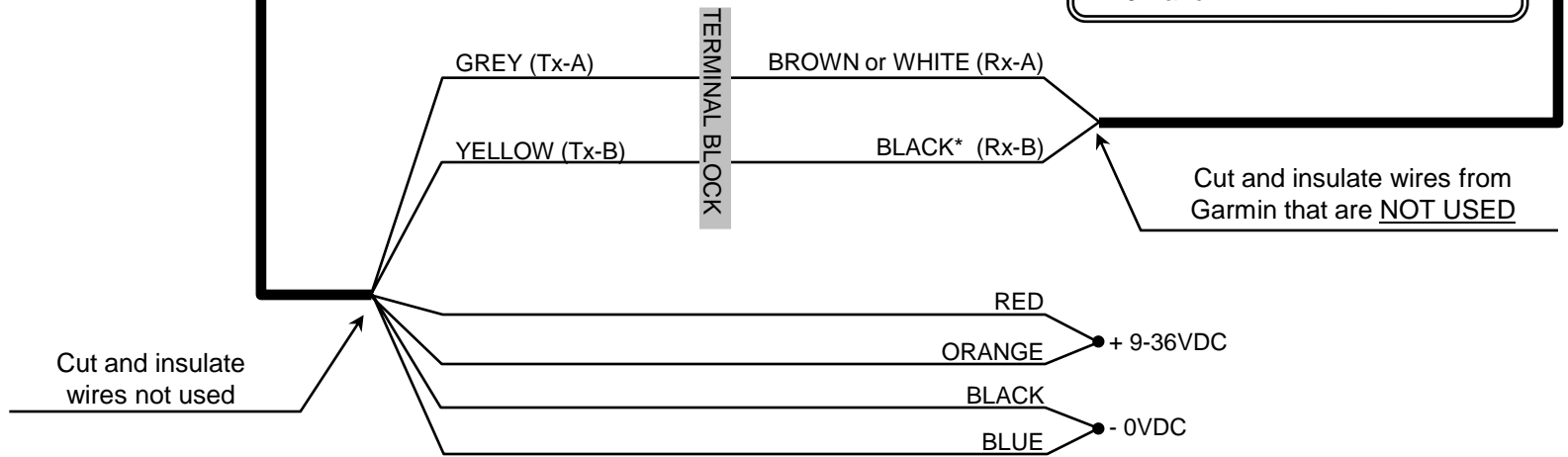


Bracket for Garmin 620/640



- NMEA2000
- USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)

\* = Same wire for power supply 0V and NMEA Rx-B





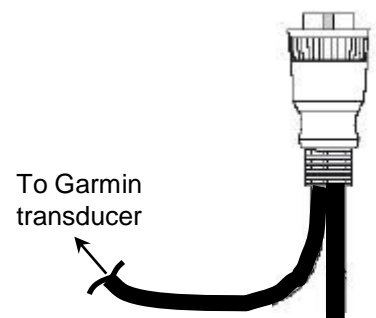
# CTRX Graphene and Graphene+ to Garmin 700-serie

Picture shows Graphene+



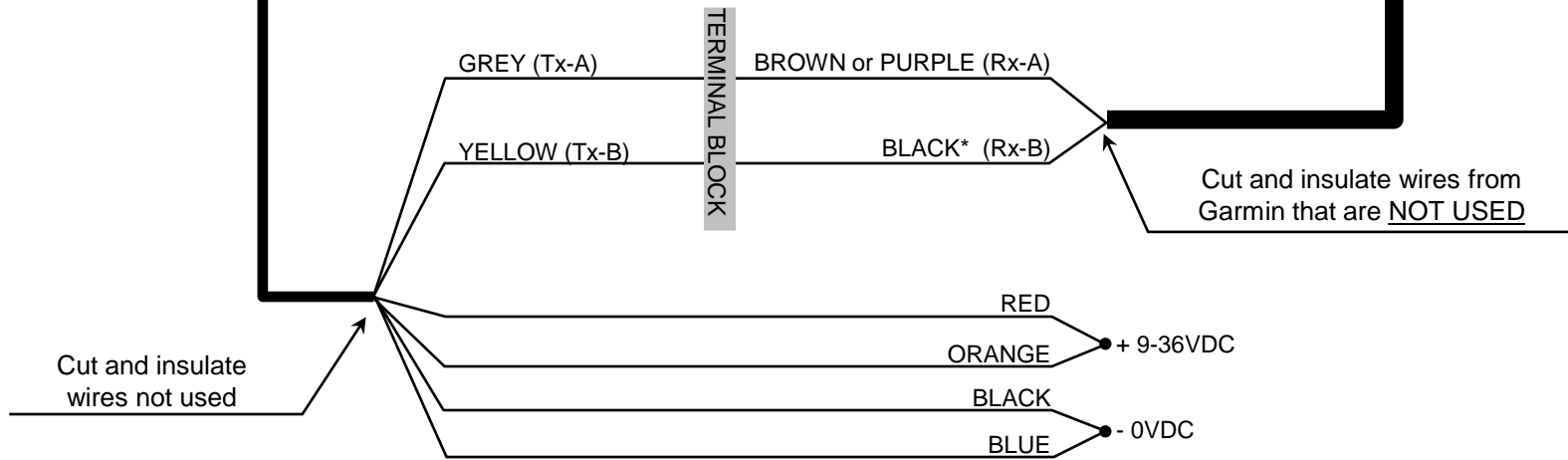
- NMEA2000
- USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)

Connector (Power and data) going in to Garmin 700-serie



To Garmin transducer

\* = Same wire for power supply 0V and NMEA Rx-B



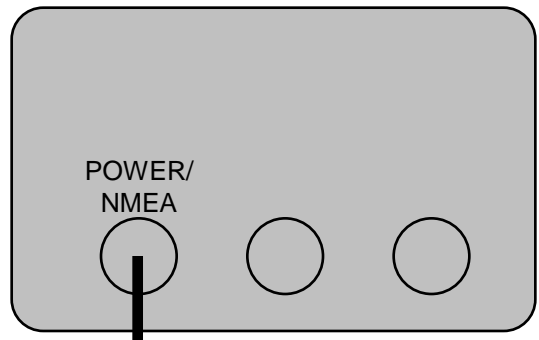


# CTRX Graphene and Graphene+ to Garmin 3000-serie

Picture shows Graphene+

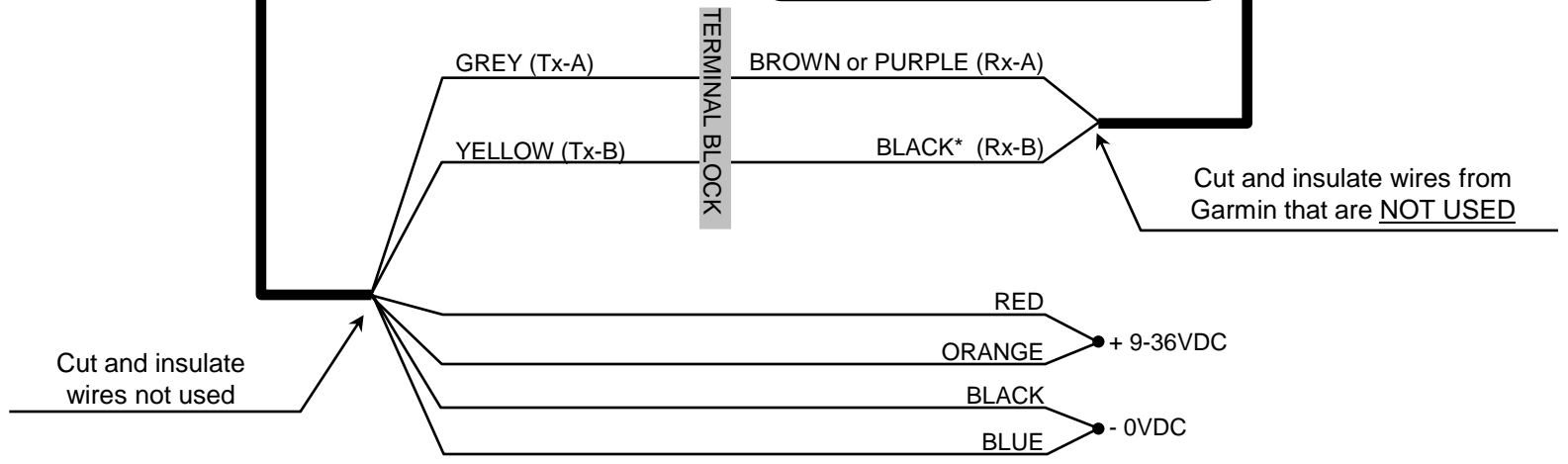


Back of Garmin 3000-serie



- NMEA2000
- USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)

\* = Same wire for power supply 0V and NMEA Rx-B

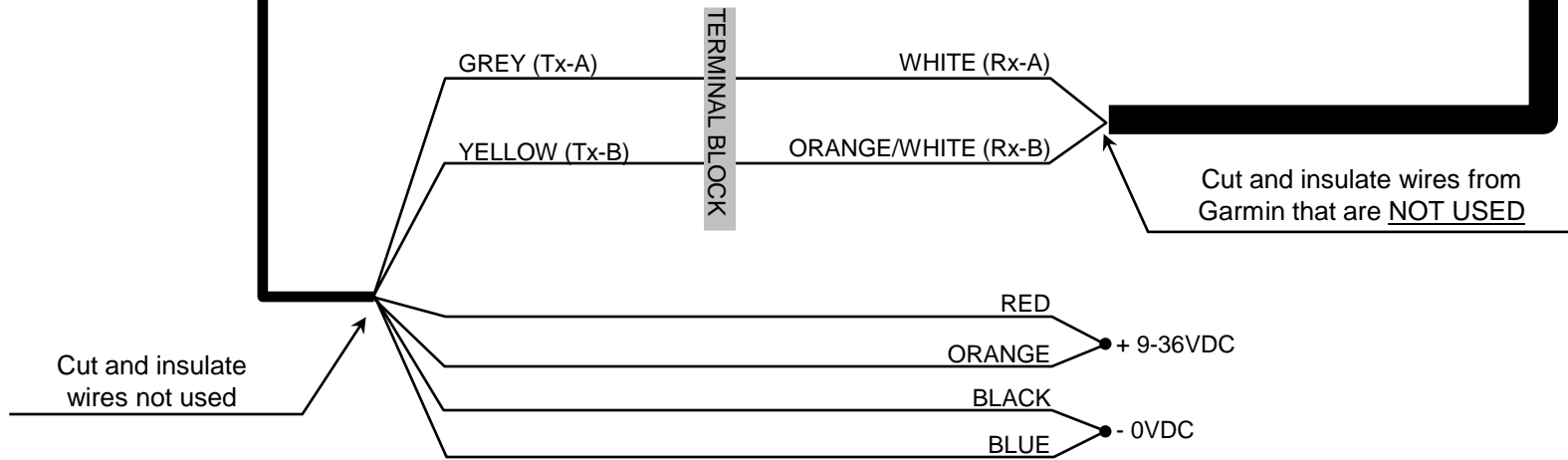


## CTRX Graphene and Graphene+ to Garmin 4000- and 5000-serie

Picture shows Graphene+



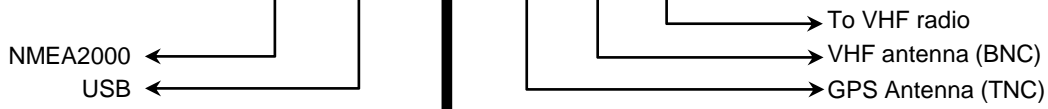
- ← NMEA2000
- ← USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)



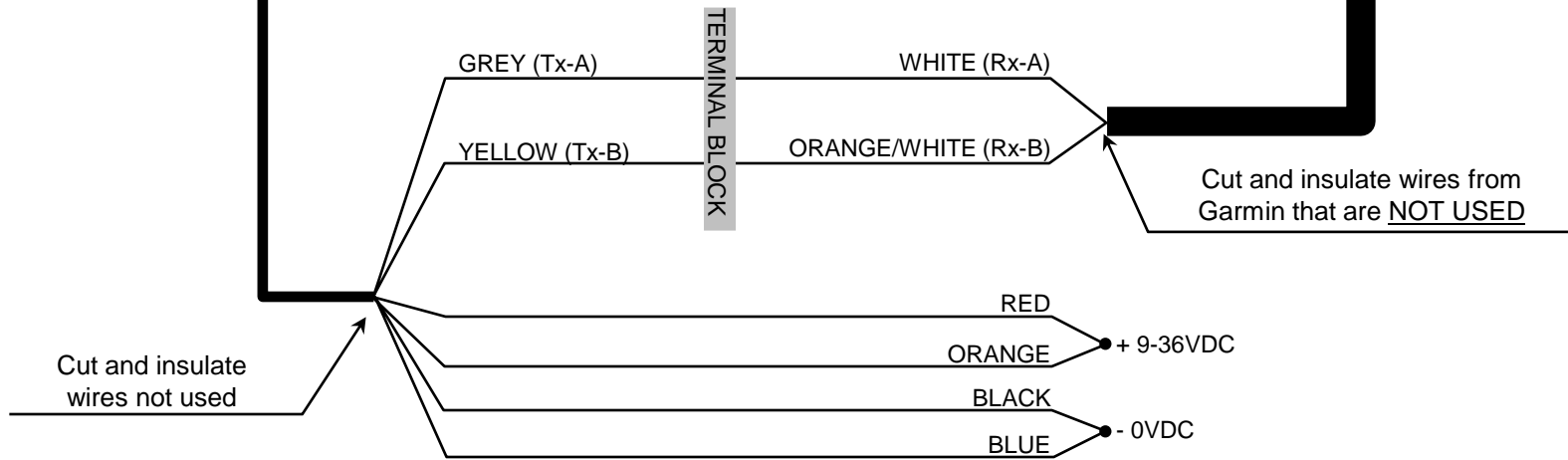
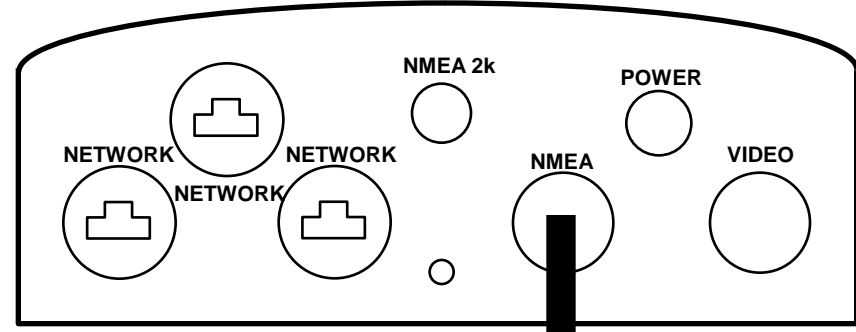


## CTRX Graphene and Graphene+ to Garmin 6000- and 7000-serie

Picture shows Graphene+



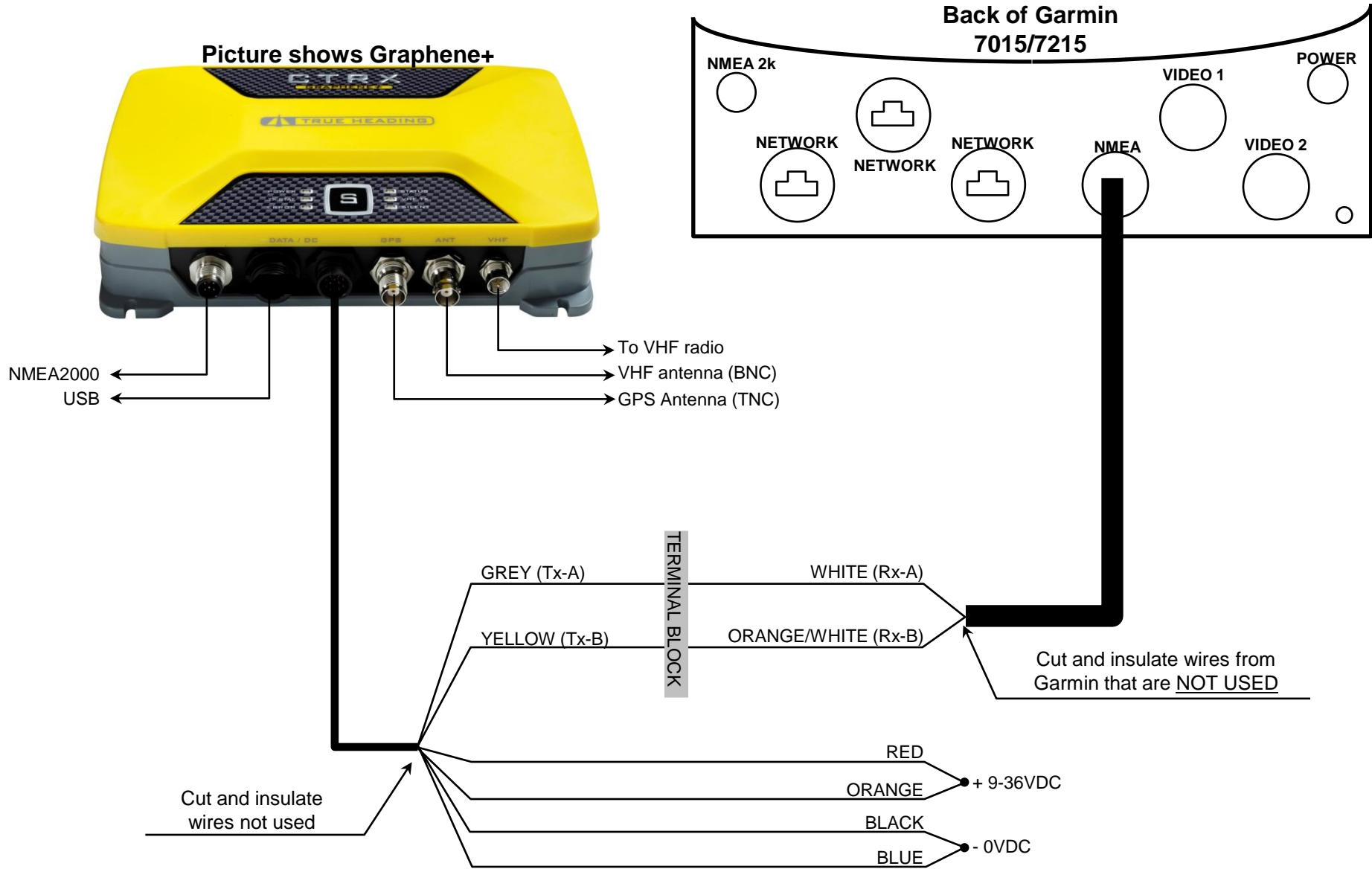
Back of Garmin  
6008/6208/6012/6212/7012/7212







## CTRX Graphene and Graphene+ to Garmin 7000-serie







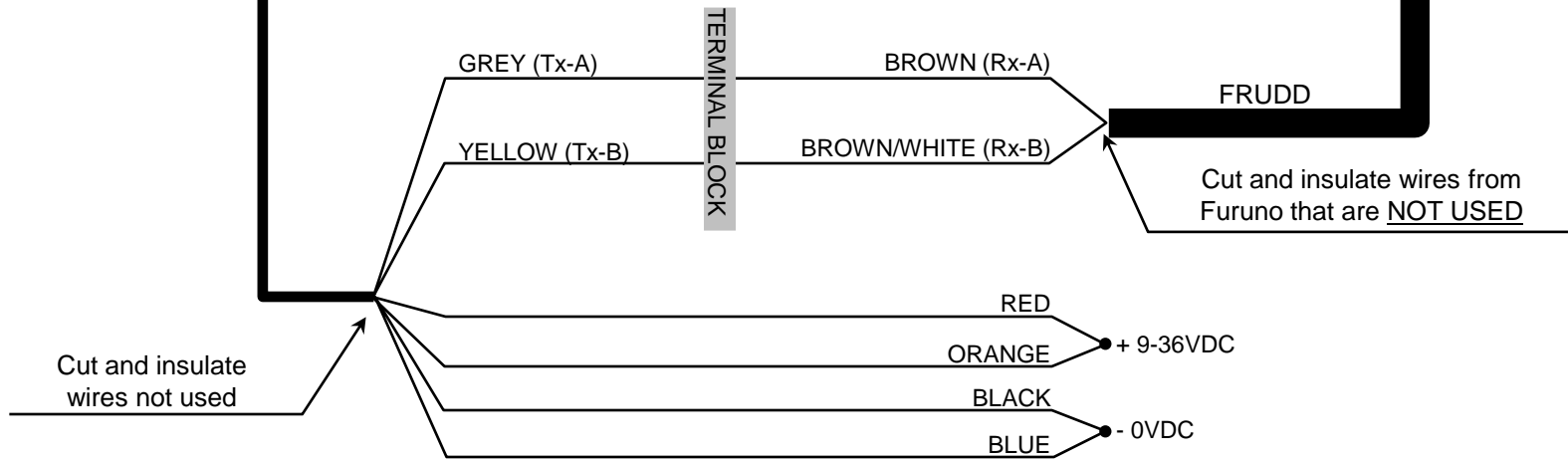
# CTRX Graphene and Graphene+ to Furuno MFD 8, 12 and Black Box

Picture shows Graphene+



NMEA2000 ←  
USB ←  
To VHF radio →  
VHF antenna (BNC) →  
GPS Antenna (TNC) →

Back of MFD 8/12/Black Box



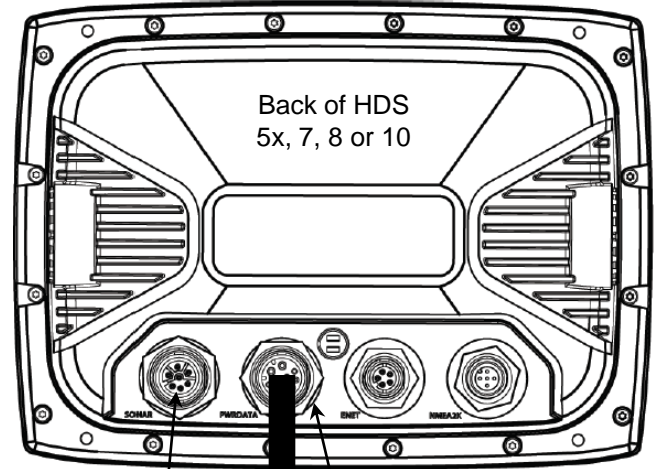


# CTRX Graphene and Graphene+ to Lowrance HDS 5x,7,8 and 10

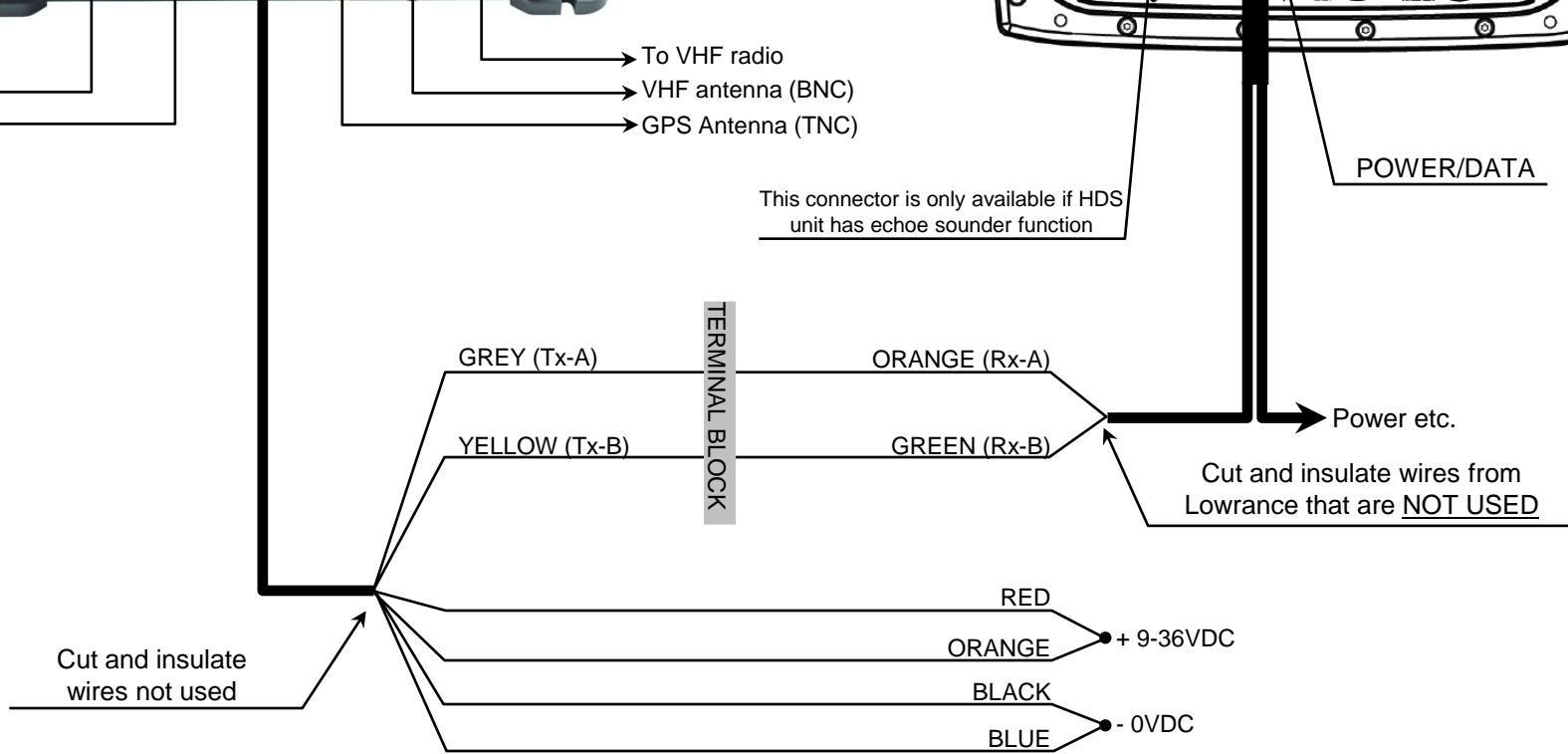
Picture shows Graphene+



- NMEA2000
- USB
- To VHF radio
- VHF antenna (BNC)
- GPS Antenna (TNC)



This connector is only available if HDS unit has echoe sounder function





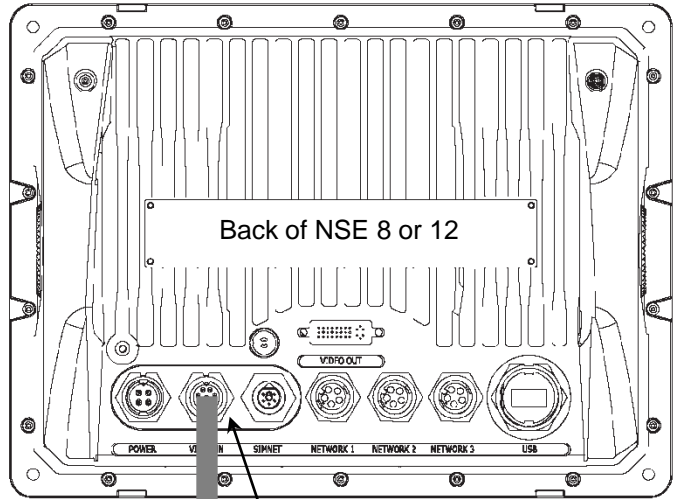
# CTRX Graphene and Graphene+ to Simrad NSE 8 & 12

Bilden visar Graphene+



NMEA2000  
USB

Till VHF radio  
VHF antenn (BNC)  
GPS Antenn (TNC)



Back of NSE 8 or 12

VIDEO IN

Connectors for VIDEO IN

GREY (Tx-A)  
YELLOW (Tx-B)

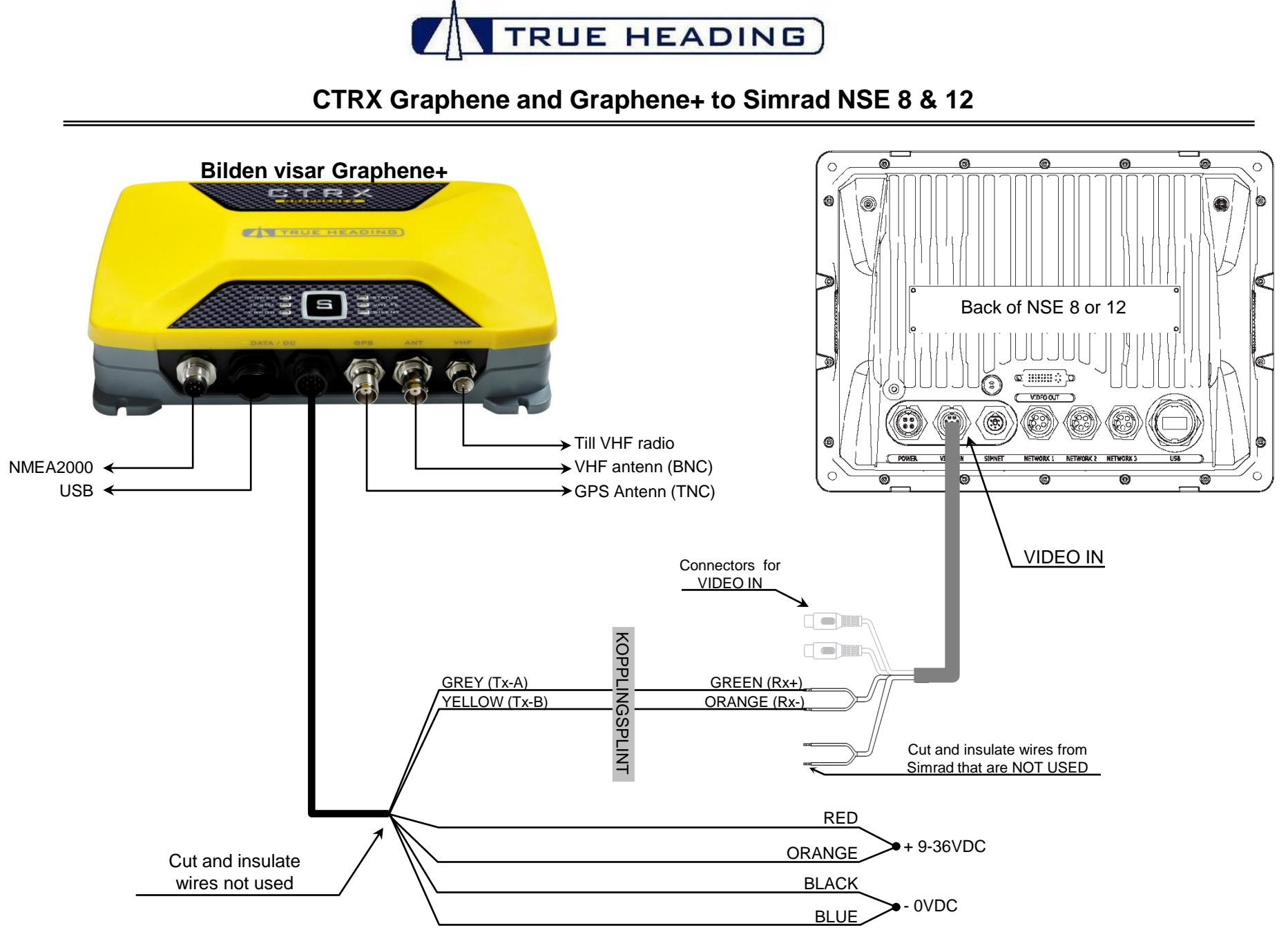
GREEN (Rx+)  
ORANGE (Rx-)

KOPPLINGSPLINT

Cut and insulate wires from Simrad that are NOT USED

Cut and insulate wires not used

RED  
ORANGE → + 9-36VDC  
BLACK  
BLUE → - 0VDC



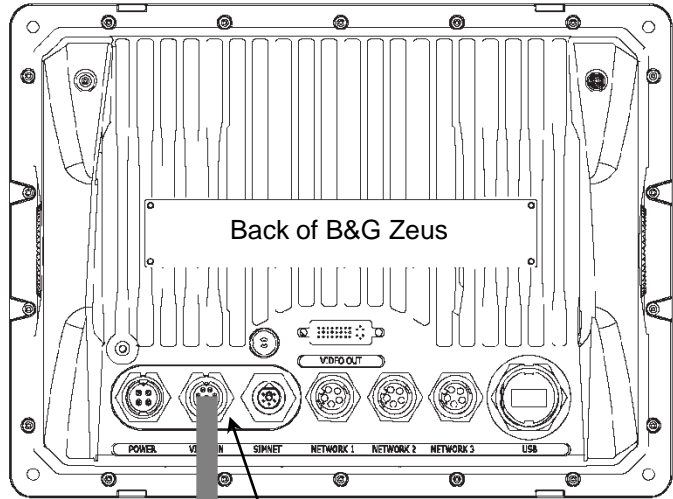
## CTRX Graphene and Graphene+ to B&G Zeus

Bilden visar Graphene+



NMEA2000  
USB

Till VHF radio  
VHF antenn (BNC)  
GPS Antenn (TNC)



Back of B&G Zeus

VIDEO IN

Connectors for VIDEO IN

GREY (Tx-A)  
YELLOW (Tx-B)

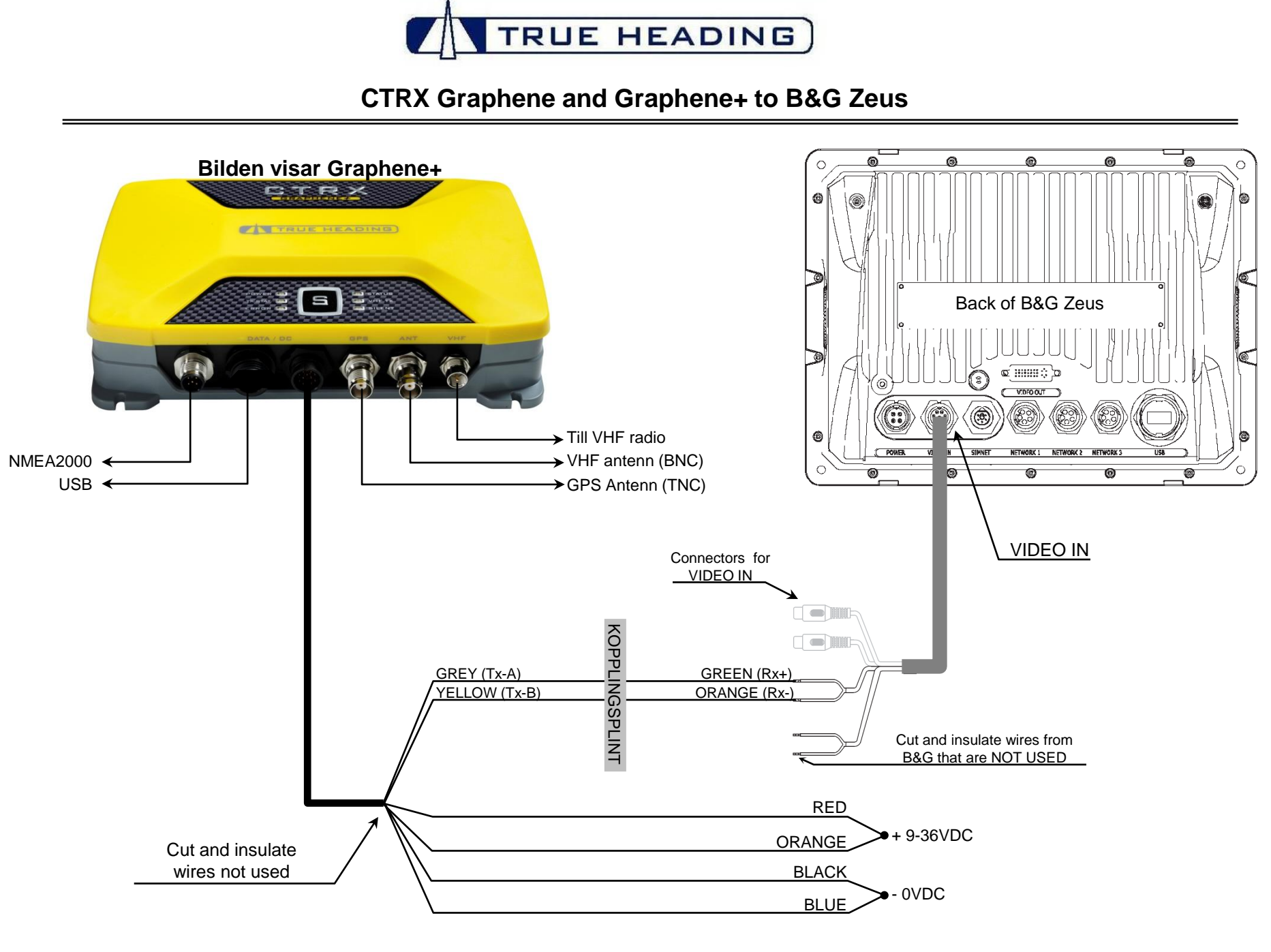
GREEN (Rx+)  
ORANGE (Rx-)

KOPPLINGSPLINT

Cut and insulate wires from B&G that are NOT USED

Cut and insulate wires not used

RED  
ORANGE → + 9-36VDC  
BLACK  
BLUE → - 0VDC





# CTRX Graphene and Graphene+ to Simrad NSS 7 & 8 radar/plotter

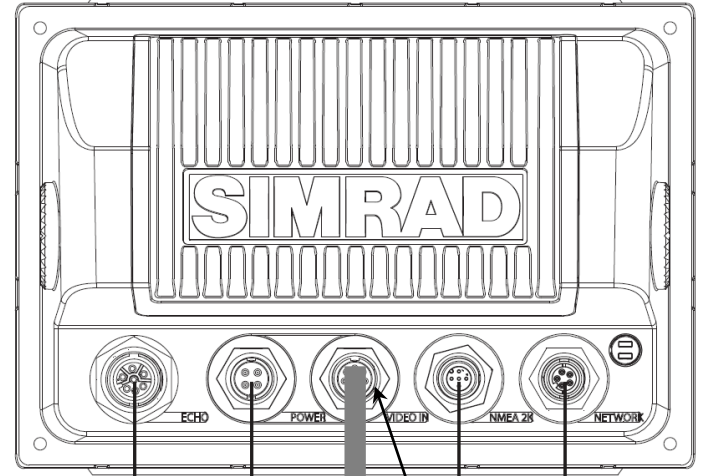
Bilden visar Graphene+



NMEA2000  
USB

Till VHF radio  
VHF antenn (BNC)  
GPS Antenn (TNC)

Back of Simrad NSS 7&8



VIDEO IN

Connectors for VIDEO IN

GREY (Tx-A)  
YELLOW (Tx-B)

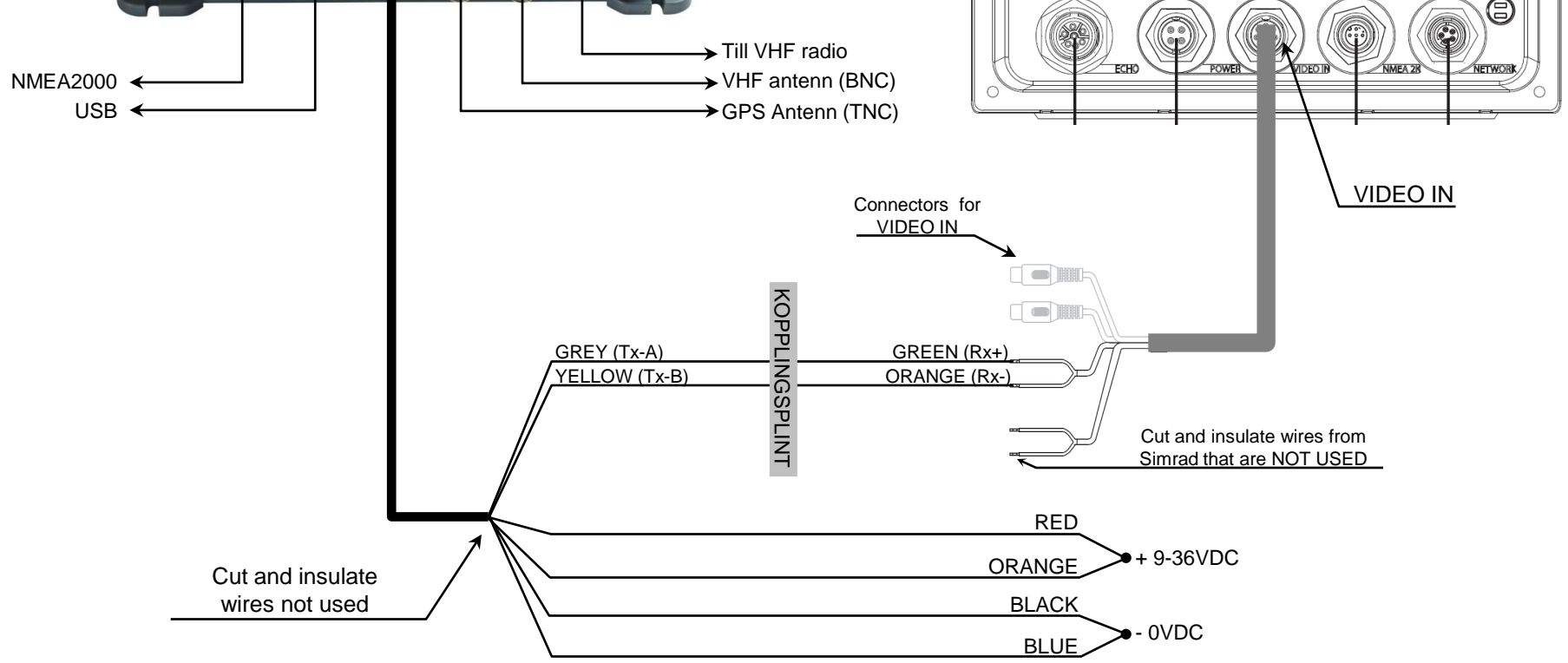
GREEN (Rx+)  
ORANGE (Rx-)

KOPPLINGSPLINT

Cut and insulate wires from Simrad that are NOT USED

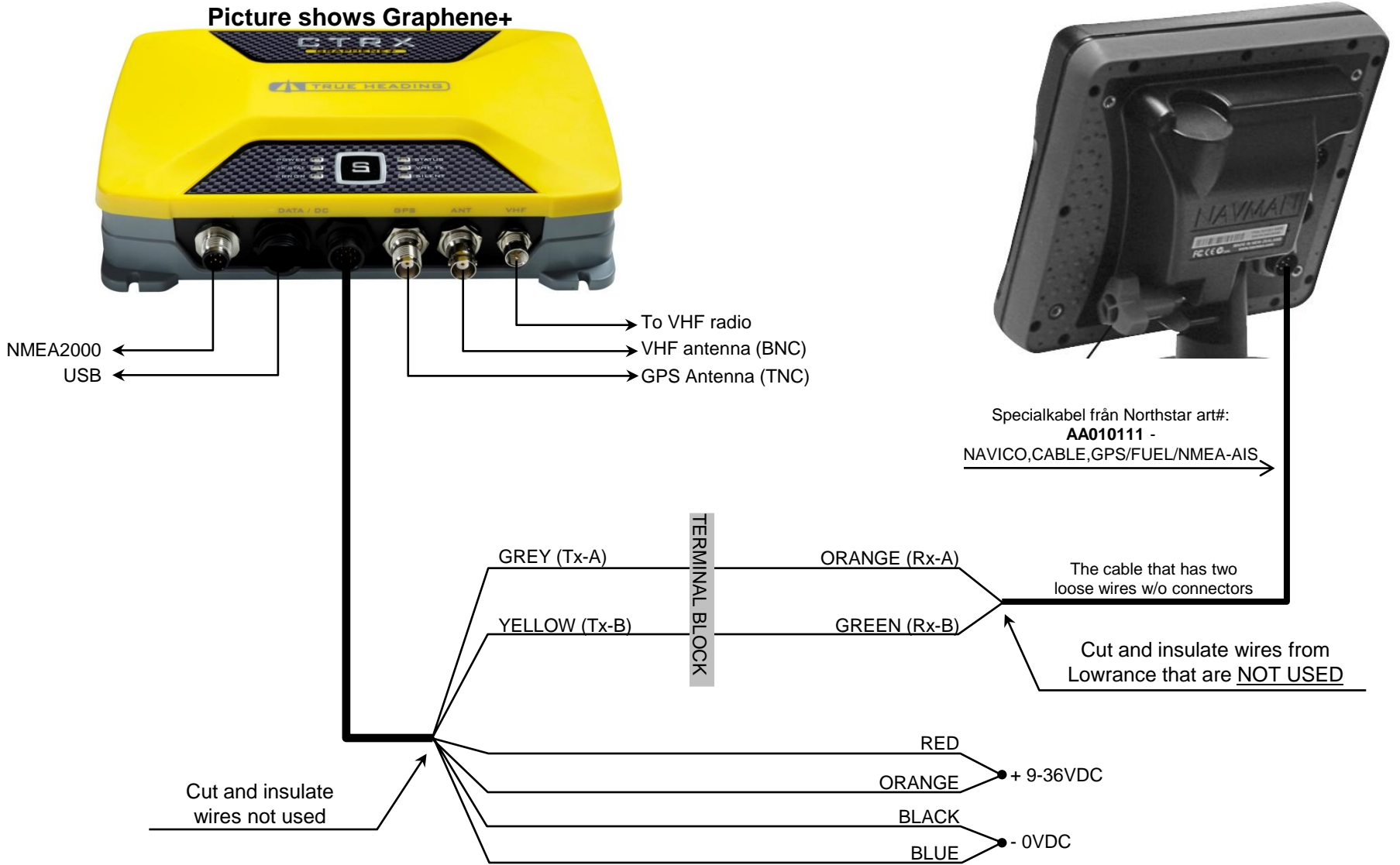
Cut and insulate wires not used

RED  
ORANGE → + 9-36VDC  
BLACK  
BLUE → - 0VDC





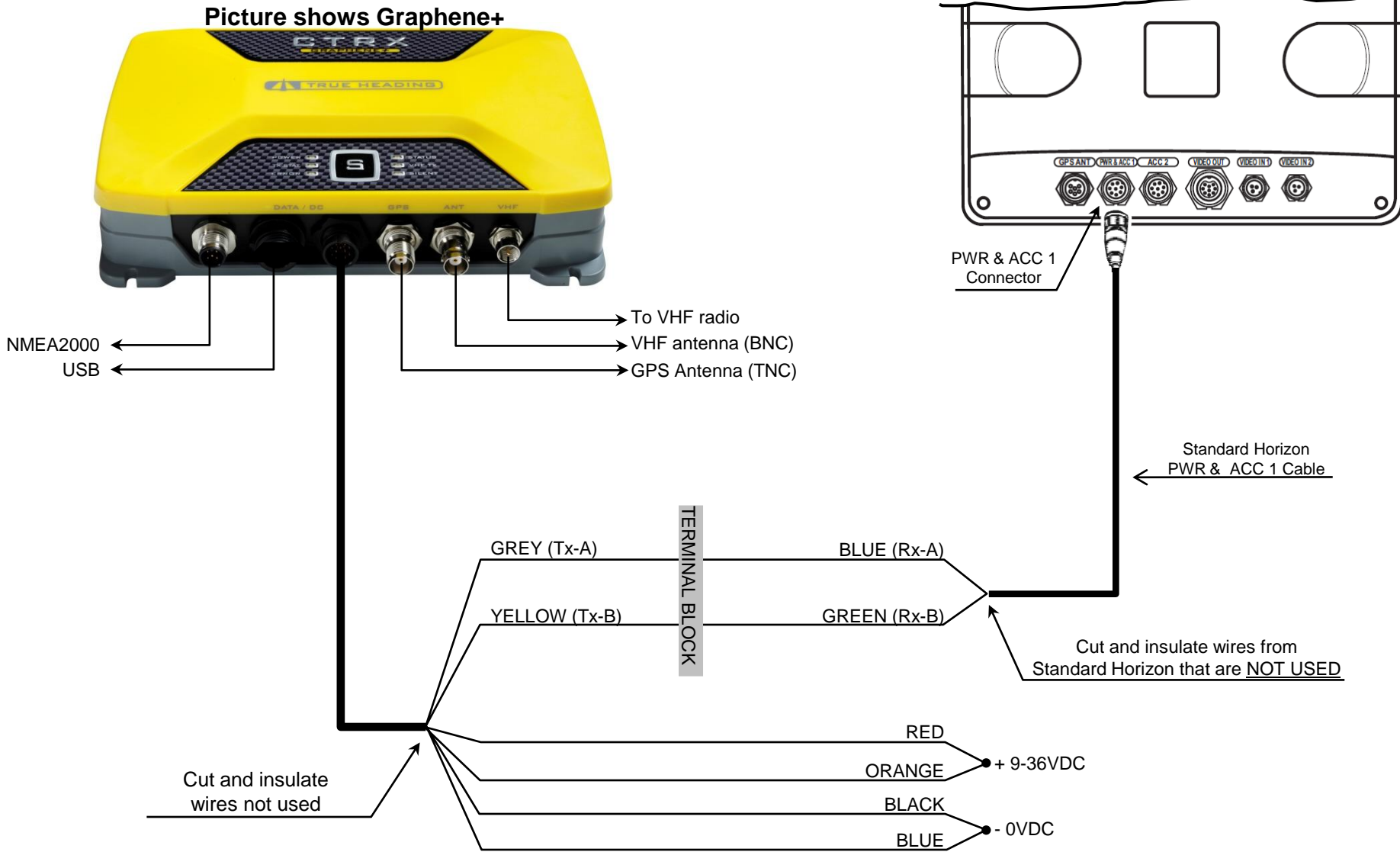
# CTRX Graphene and Graphene+ to Northstar Explorer 557,567 and 657







# CTRX Graphene and Graphene+ to Standard Horizon CP500





# CTRX Graphene and Graphene+ to Humminbird 800 and 958c/998c (RS-422 to RS-232 connection)

Picture shows Graphene+



NMEA2000  
USB

To VHF radio  
VHF antenna (BNC)  
GPS Antenna (TNC)

Back of Humminbird  
800 & 958c/998c

