

# Connecting diagrams for CTRX Carbon and Carbon+



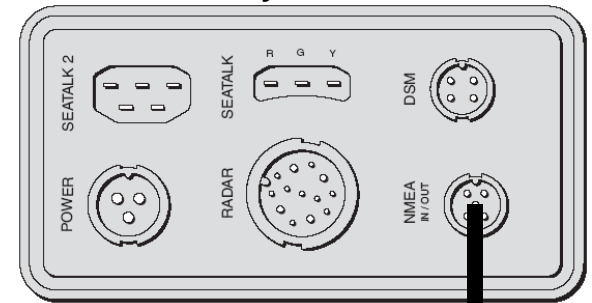
Rev. 1.4  
(110314)

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

Picture shows Carbon+



Back of Raymarine C-Serie



To FM Radio ←

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

BROWN • +12VDC  
BLUE • -12VDC

ORANGE (Tx-A)

BLACK (Tx-B)

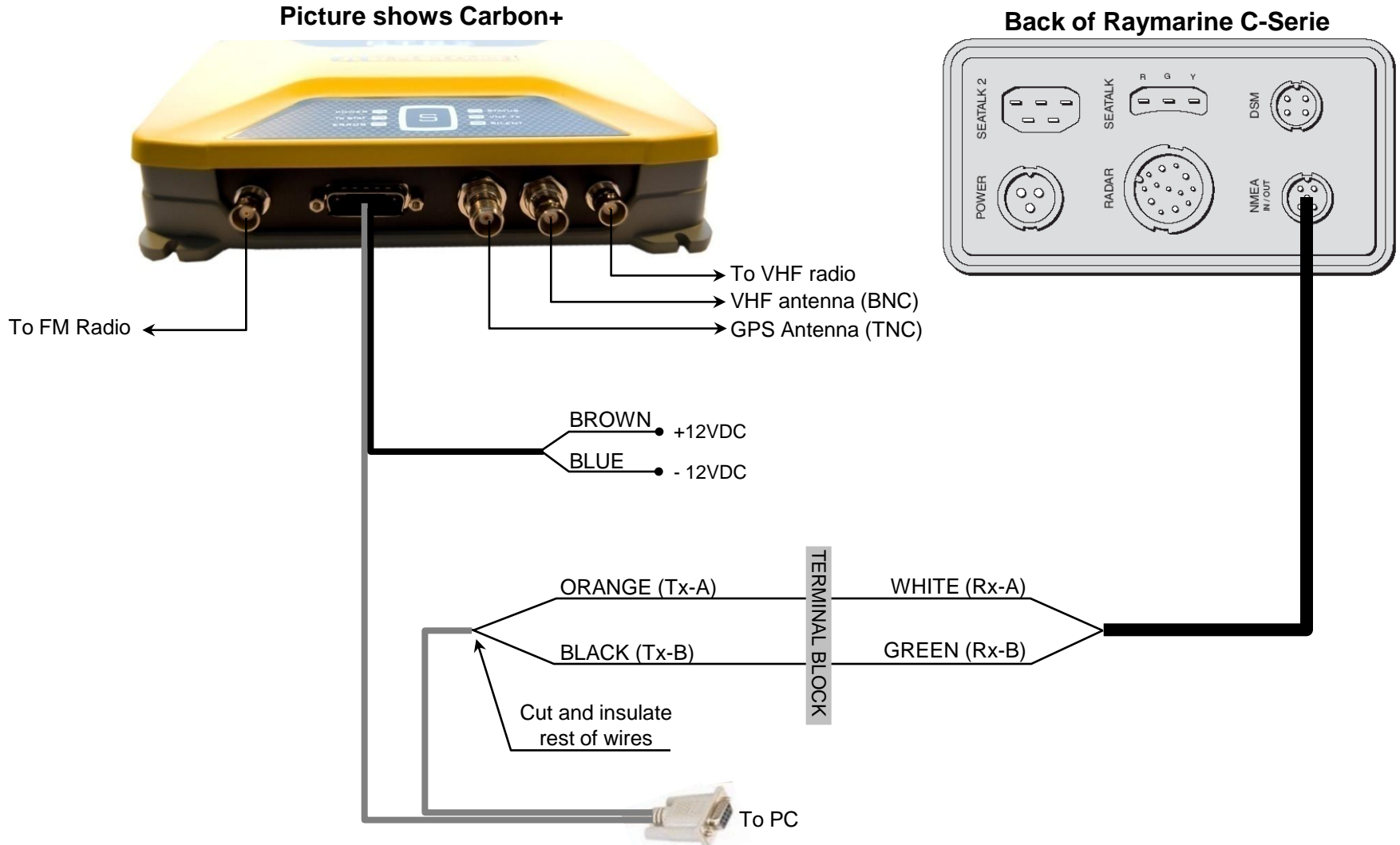
Cut and insulate  
rest of wires

TERMINAL BLOCK

WHITE (Rx-A)

GREEN (Rx-B)

To PC

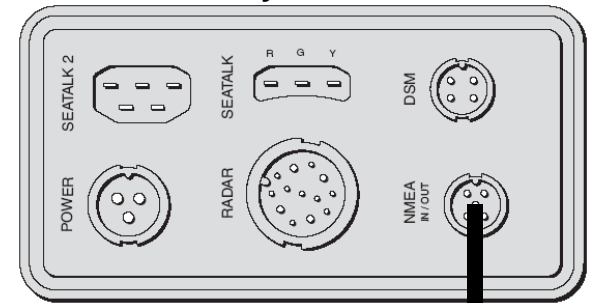


## CTRX Carbon and Carbon+ to Raymarine C-xx.

Picture shows Carbon+



Back of Raymarine C-Serie



To FM Radio ←

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

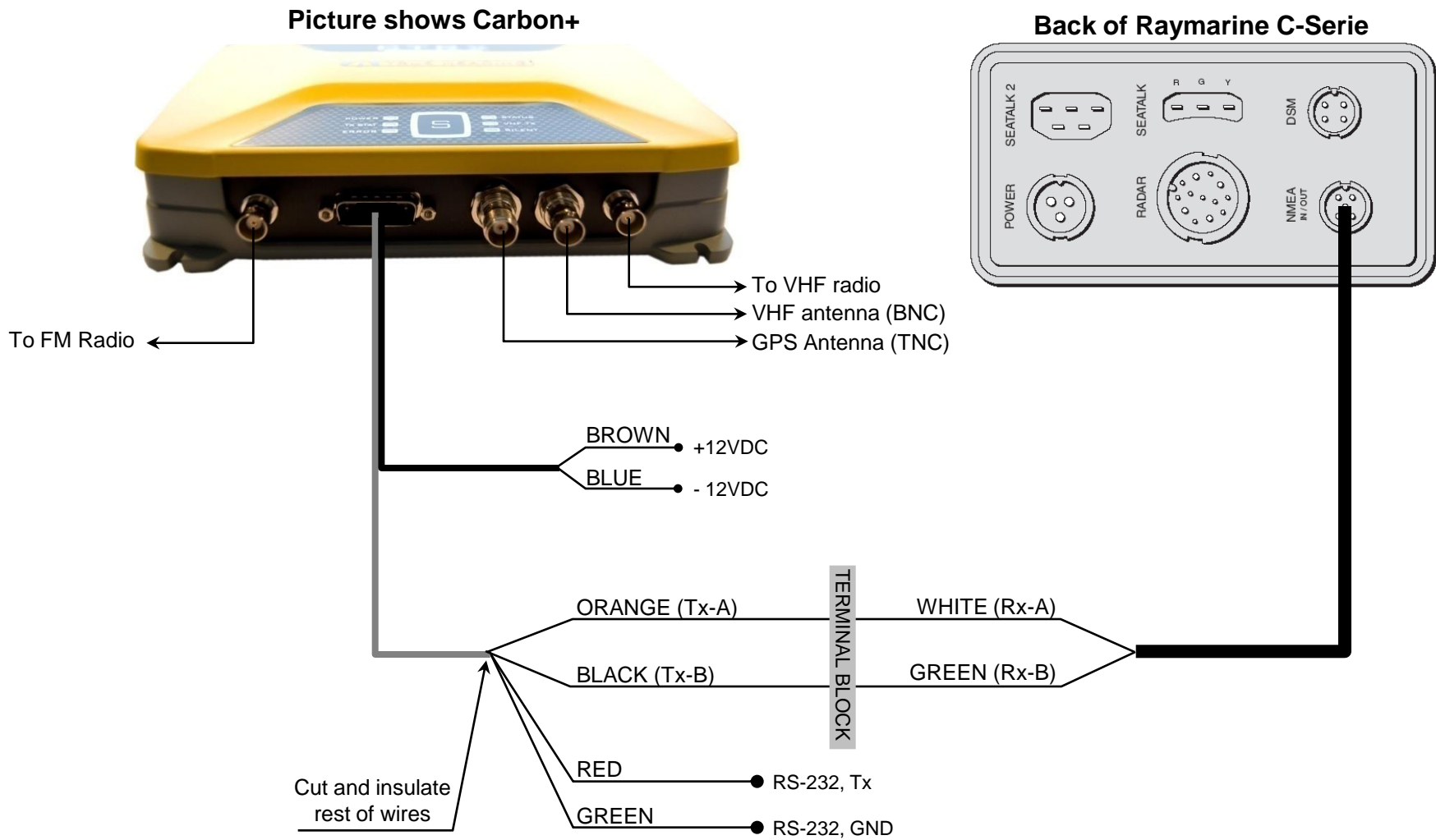
BROWN • +12VDC  
BLUE • -12VDC

ORANGE (Tx-A)      WHITE (Rx-A)  
BLACK (Tx-B)      GREEN (Rx-B)

TERMINAL BLOCK

Cut and insulate rest of wires

RED • RS-232, Tx  
GREEN • RS-232, GND







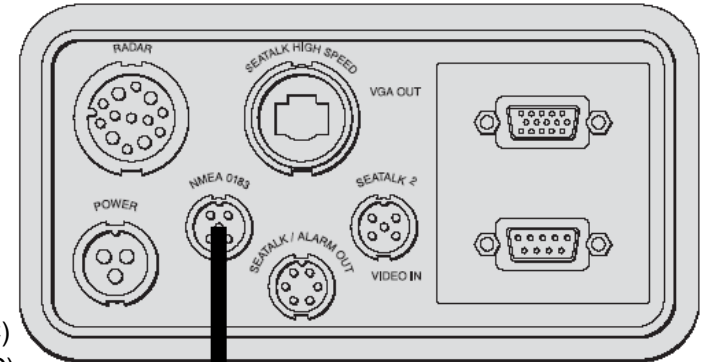


# CTRX Carbon and Carbon+ to Raymarine E-xx.

Picture shows Carbon+



Back of Raymarine E-Series



To FM Radio

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

BROWN +12VDC  
BLUE -12VDC

ORANGE (Tx-A)      WHITE (Rx-A)  
BLACK (Tx-B)      GREEN (Rx-B)

TERMINAL BLOCK

Cut and insulate rest of wires

To PC

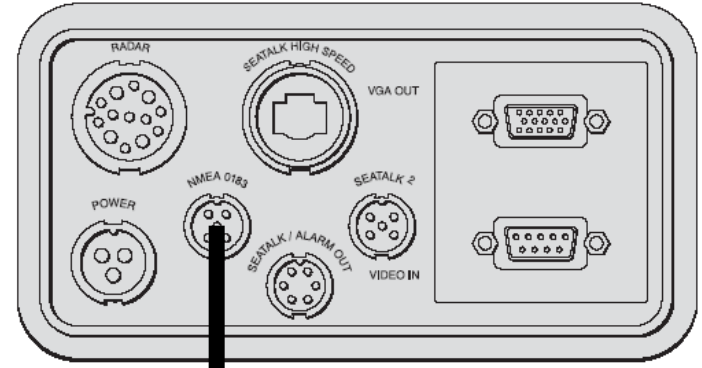


# CTRX Carbon and Carbon+ to Raymarine E-xx.

Picture shows Carbon+



Back of Raymarine E-Serie



To FM Radio ←

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

- BROWN • +12VDC
- BLUE • - 12VDC

- ORANGE (Tx-A)
- BLACK (Tx-B)

- WHITE (Rx-A)
- GREEN (Rx-B)

TERMINAL BLOCK

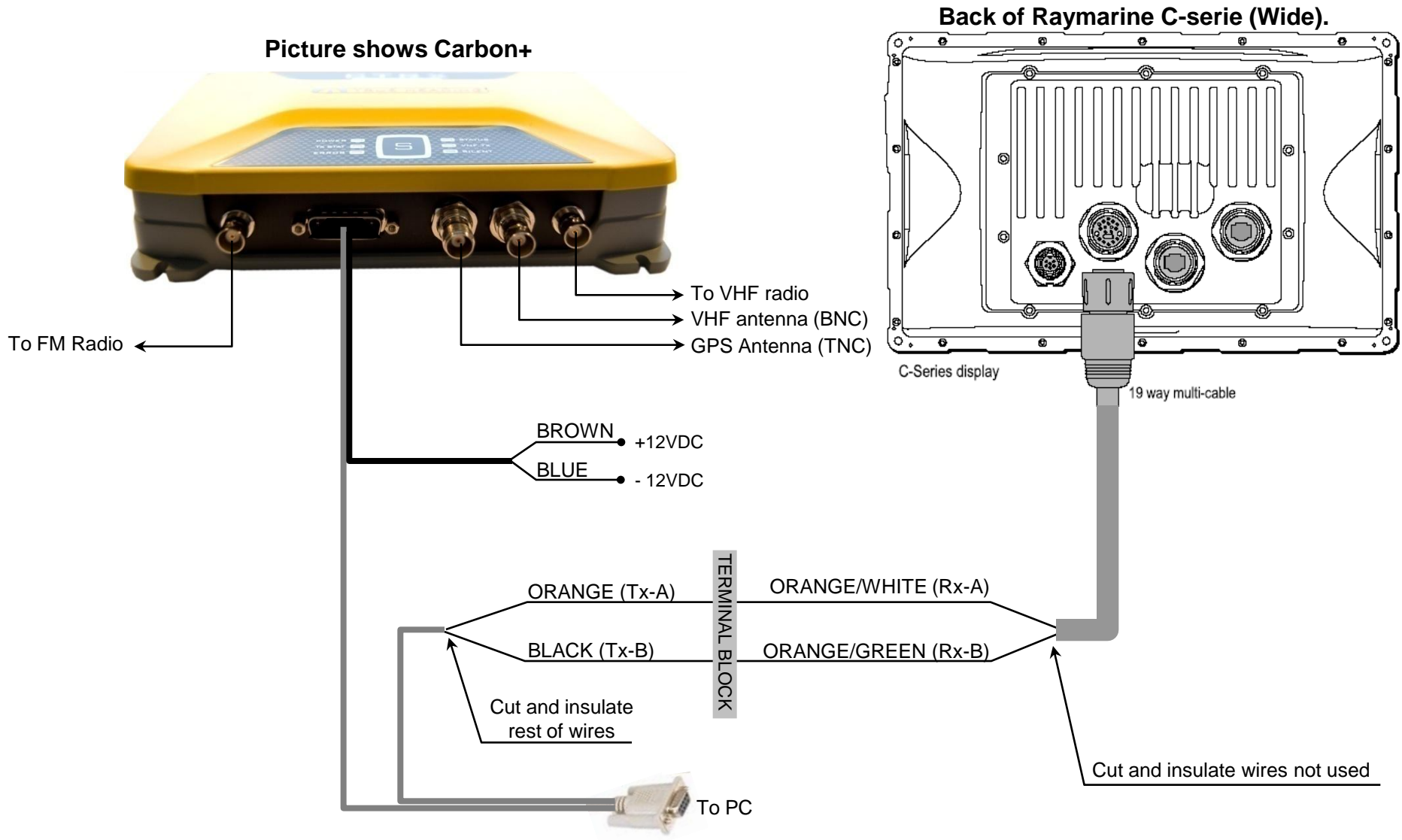
Cut and insulate rest of wires

- RED • RS-232, Tx
- GREEN • RS-232, GND

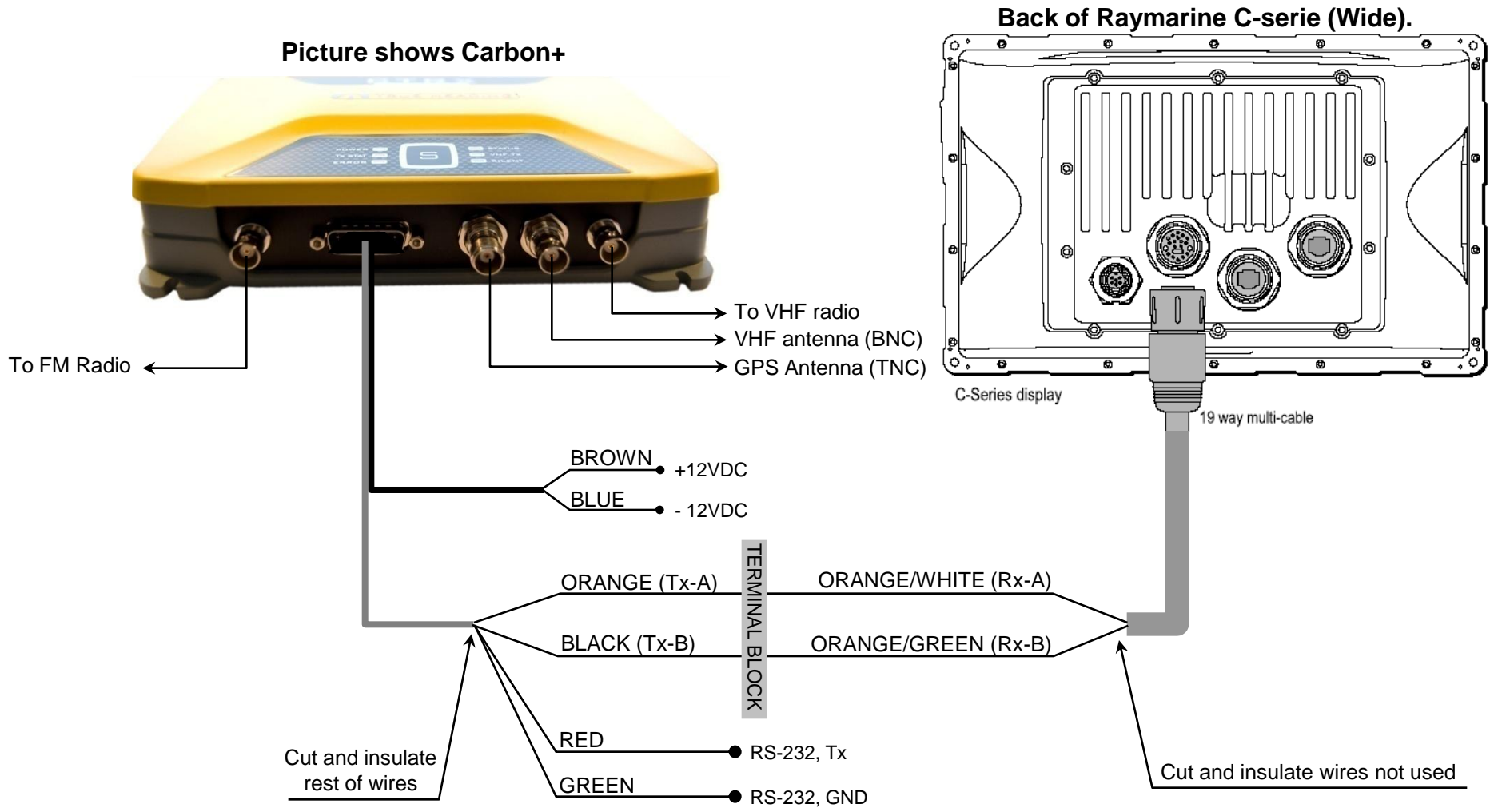




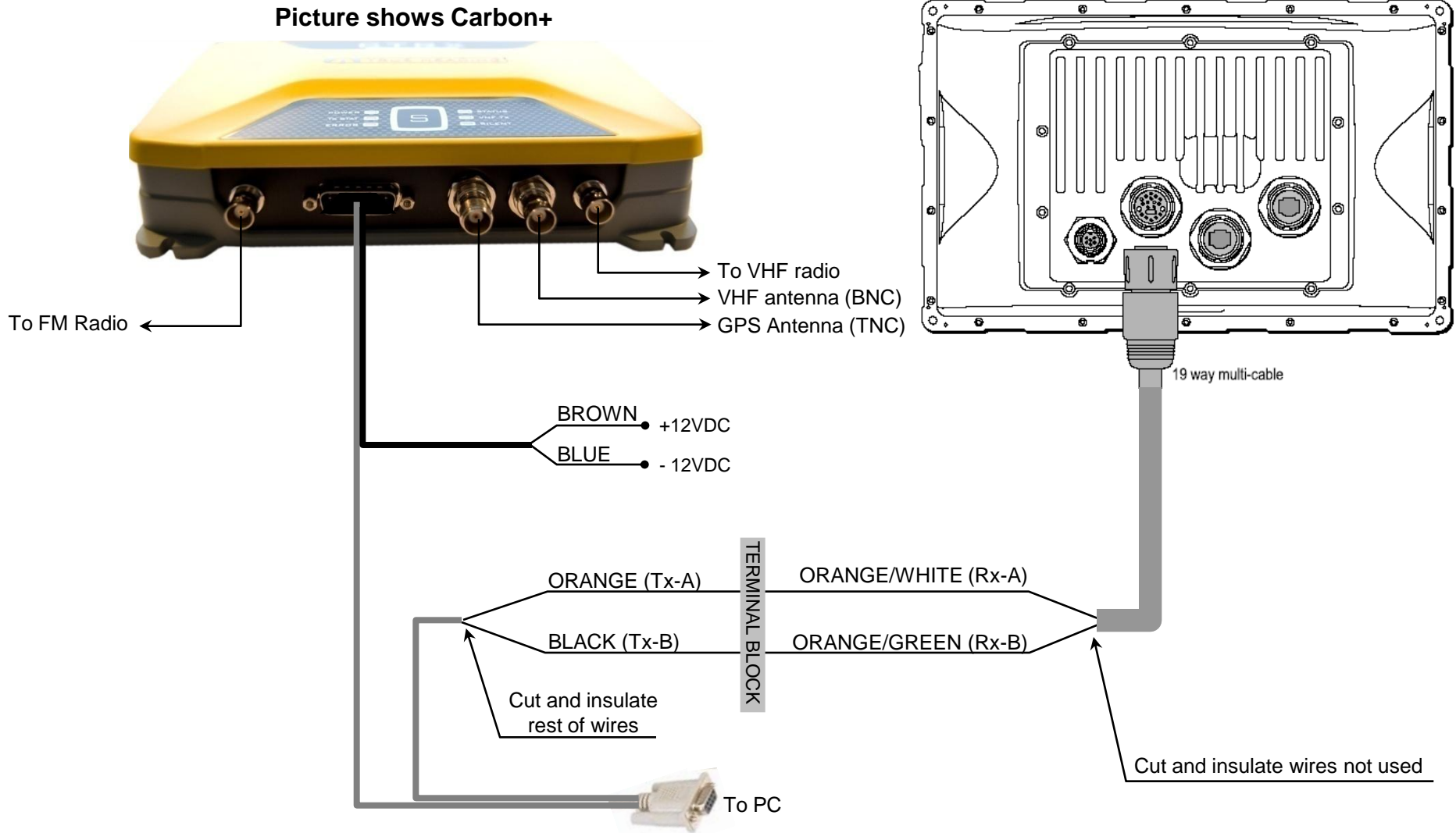
## CTRX Carbon and Carbon+ to Raymarine C-xx (Wide).



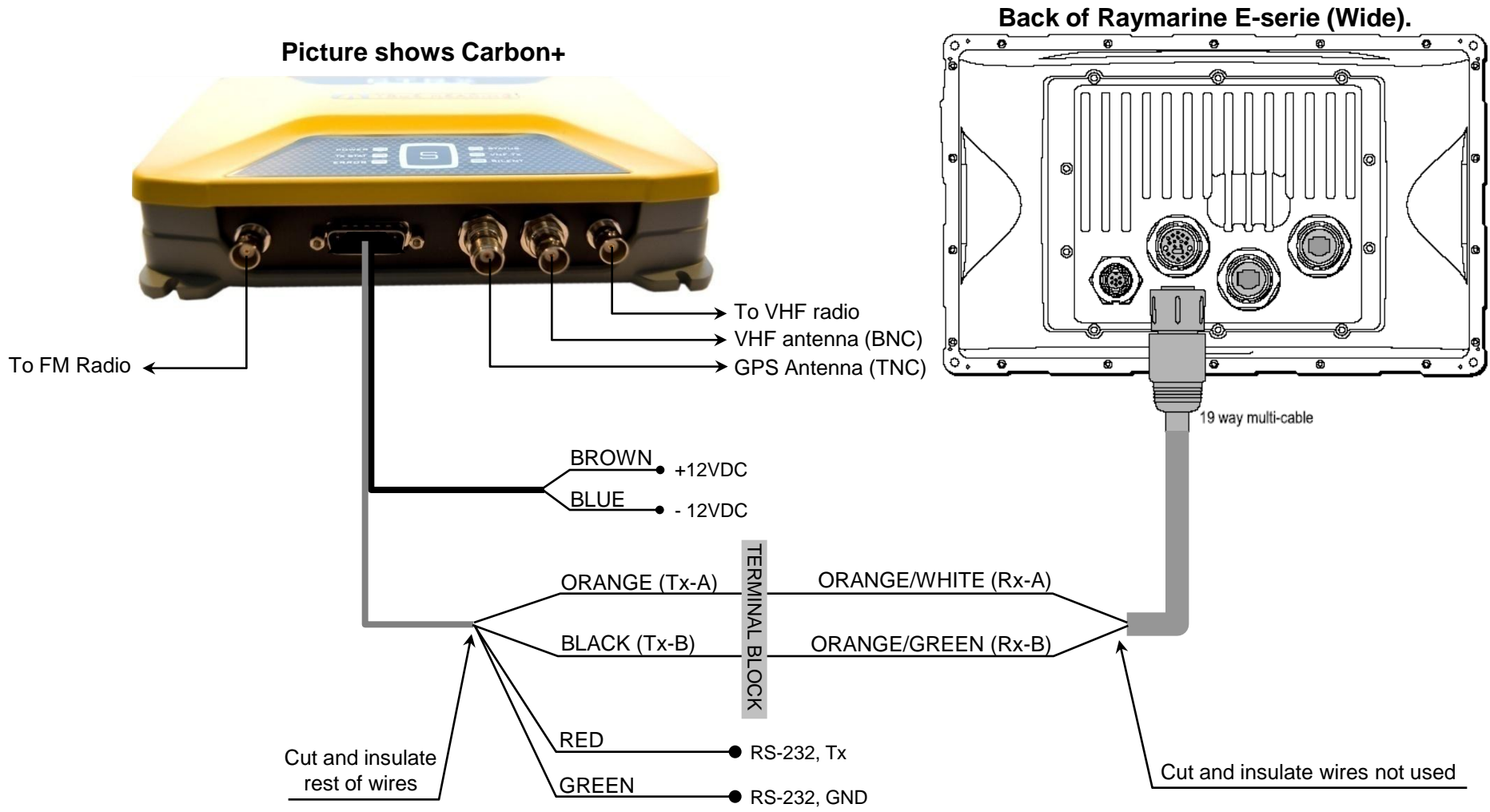
## CTRX Carbon and Carbon+ to Raymarine C-xx (Wide).



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



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



# CTRX Carbon and Carbon+ to Raymarine G-series.

Picture shows Carbon+



To FM Radio

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

BROWN +12VDC  
BLUE - 12VDC

ORANGE (Tx-A)  
BLACK (Tx-B)

Cut and insulate rest of wires

KOPPLINGSPLINT

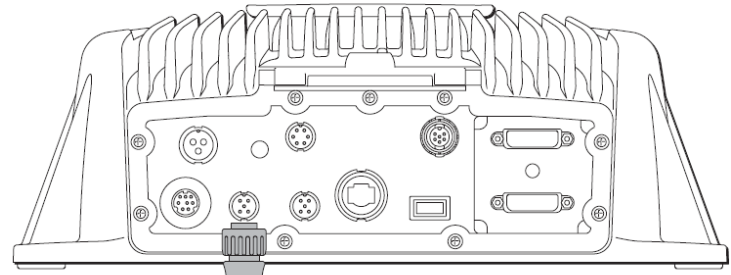
WHITE (Rx-A)  
GREEN (Rx-B)

Cut and insulate wires not used

To PC

Back of Raymarine G-series.

GPM 400

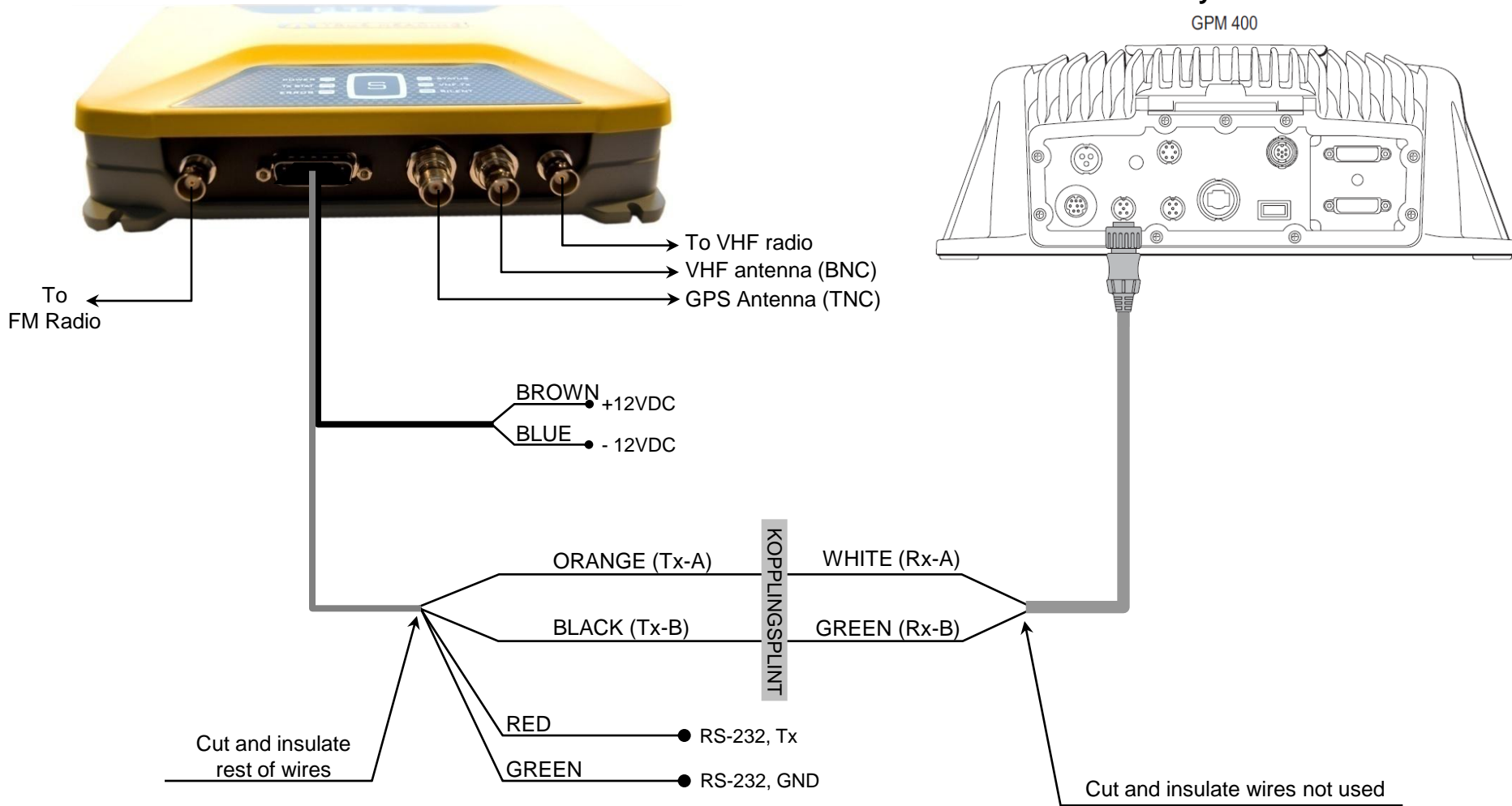


## CTRX Carbon and Carbon+ to Raymarine G-series.

Picture shows Carbon+

Back of Raymarine G-series

GPM 400





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

Picture shows Carbon+



To FM Radio ←

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

- BROWN • +12VDC
- BLUE • -12VDC

- ORANGE (Tx-A)
- BLACK (Tx-B)

Cut and insulate rest of wires

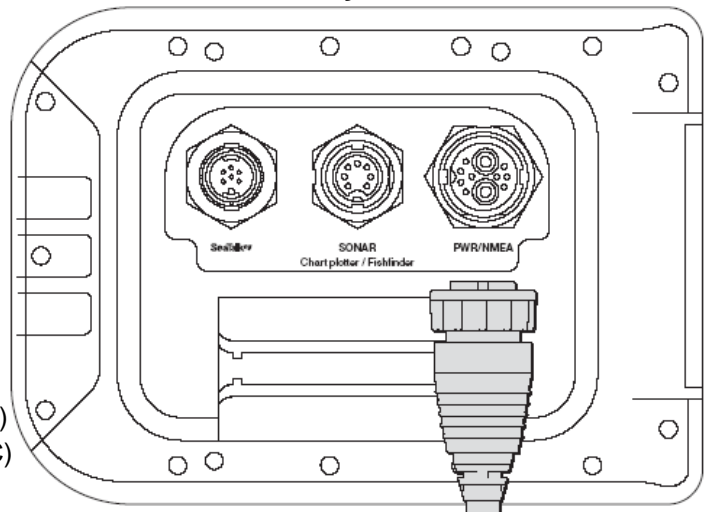


TERMINAL BLOCK

- ORANGE/WHITE (Rx-A)
- ORANGE/GREEN (Rx-B)

Cut and insulate wires not used

Back of Raymarine A-series.





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

Picture shows Carbon+



To FM Radio ←

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

BROWN • +12VDC  
BLUE • - 12VDC

ORANGE (Tx-A)

BLACK (Tx-B)

RED

GREEN

• RS-232, Tx

• RS-232, GND

Cut and insulate rest of wires

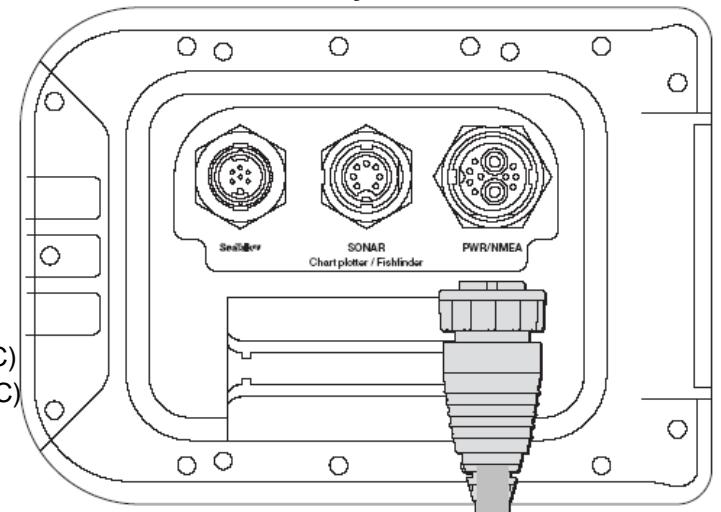
TERMINAL BLOCK

ORANGE/WHITE (Rx-A)

ORANGE/GREEN (Rx-B)

Cut and insulate wires not used

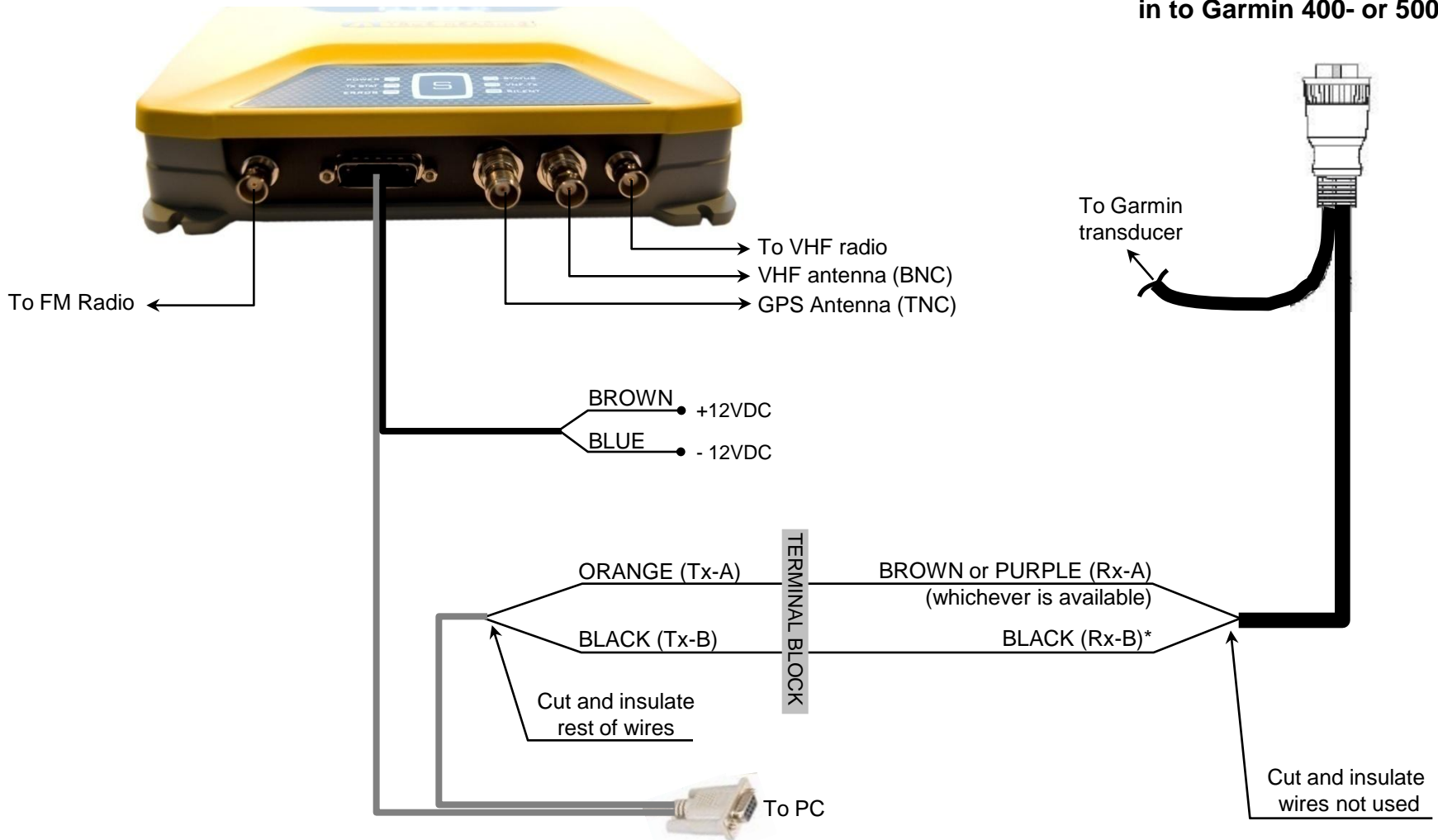
Back of Raymarine A-series.



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

Picture shows Carbon+

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



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



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

Picture shows Carbon+

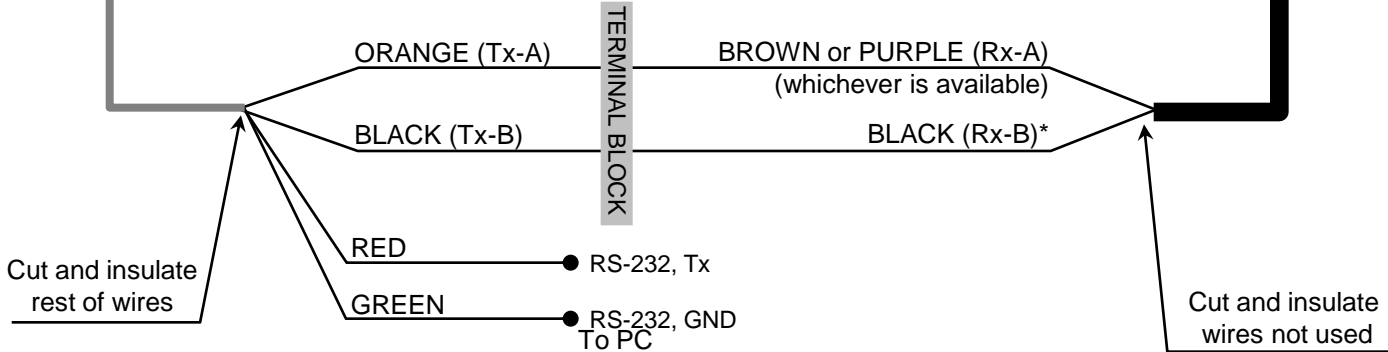
Connector (Power and data) going in to Garmin 400- or 500-serie



To FM Radio

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

- BROWN +12VDC
- BLUE -12VDC



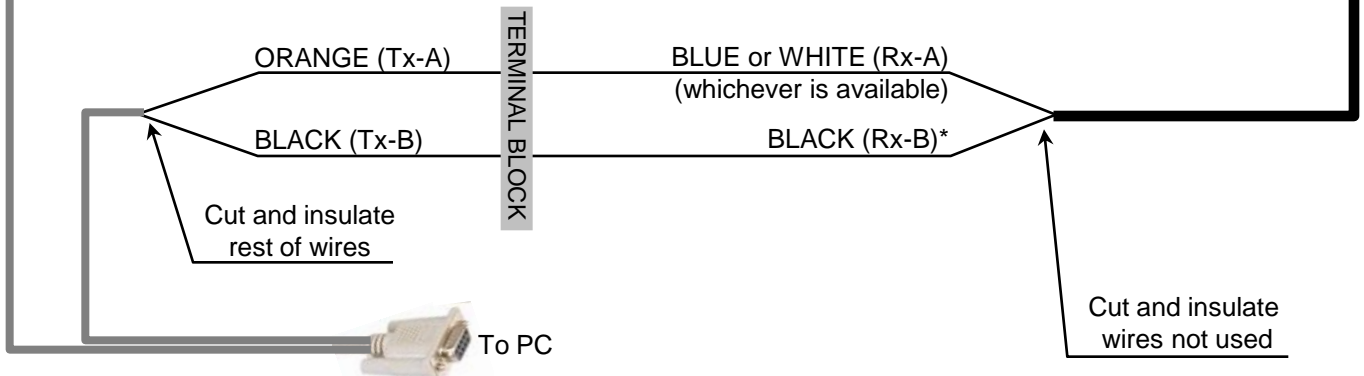
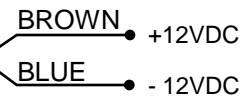
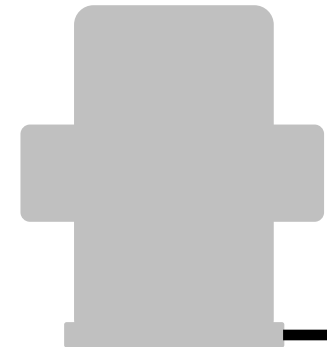
\* = Same wire for power supply 0V and NMEA Rx-B

## CTRX Carbon and Carbon+ to Garmin 600-serie

Picture shows Carbon+



Bracket for Garmin 620/640



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



# CTRX Carbon and Carbon+ to Garmin 600-serie

Picture shows Carbon+



To FM Radio

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

- BROWN +12VDC
- BLUE -12VDC

- ORANGE (Tx-A)
- BLACK (Tx-B)

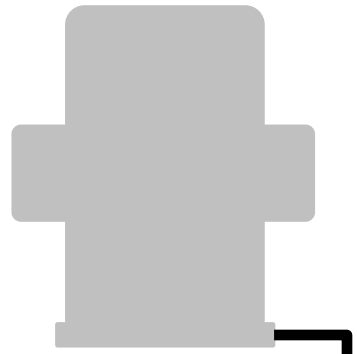
- BLUE or WHITE (Rx-A)  
(whichever is available)
- BLACK (Rx-B)\*

Cut and insulate rest of wires

- RED RS-232, Tx
- GREEN RS-232, GND TO PC

TERMINAL BLOCK

Bracket for Garmin 620/640



Cut and insulate wires not used

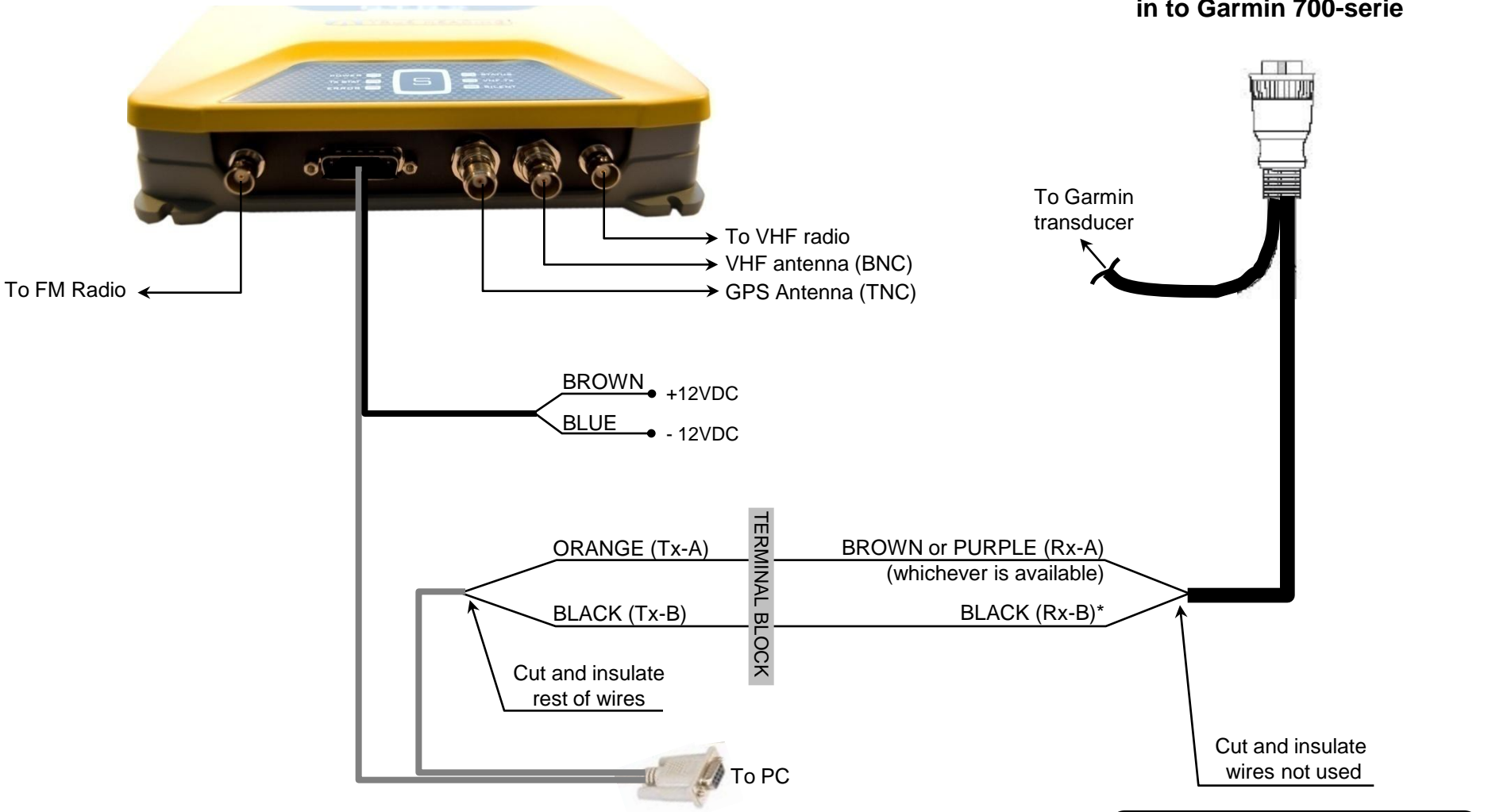
\* = Same wire for power supply 0V and NMEA Rx-B



# CTRX Carbon and Carbon+ to Garmin 700-serie

Picture shows Carbon+

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



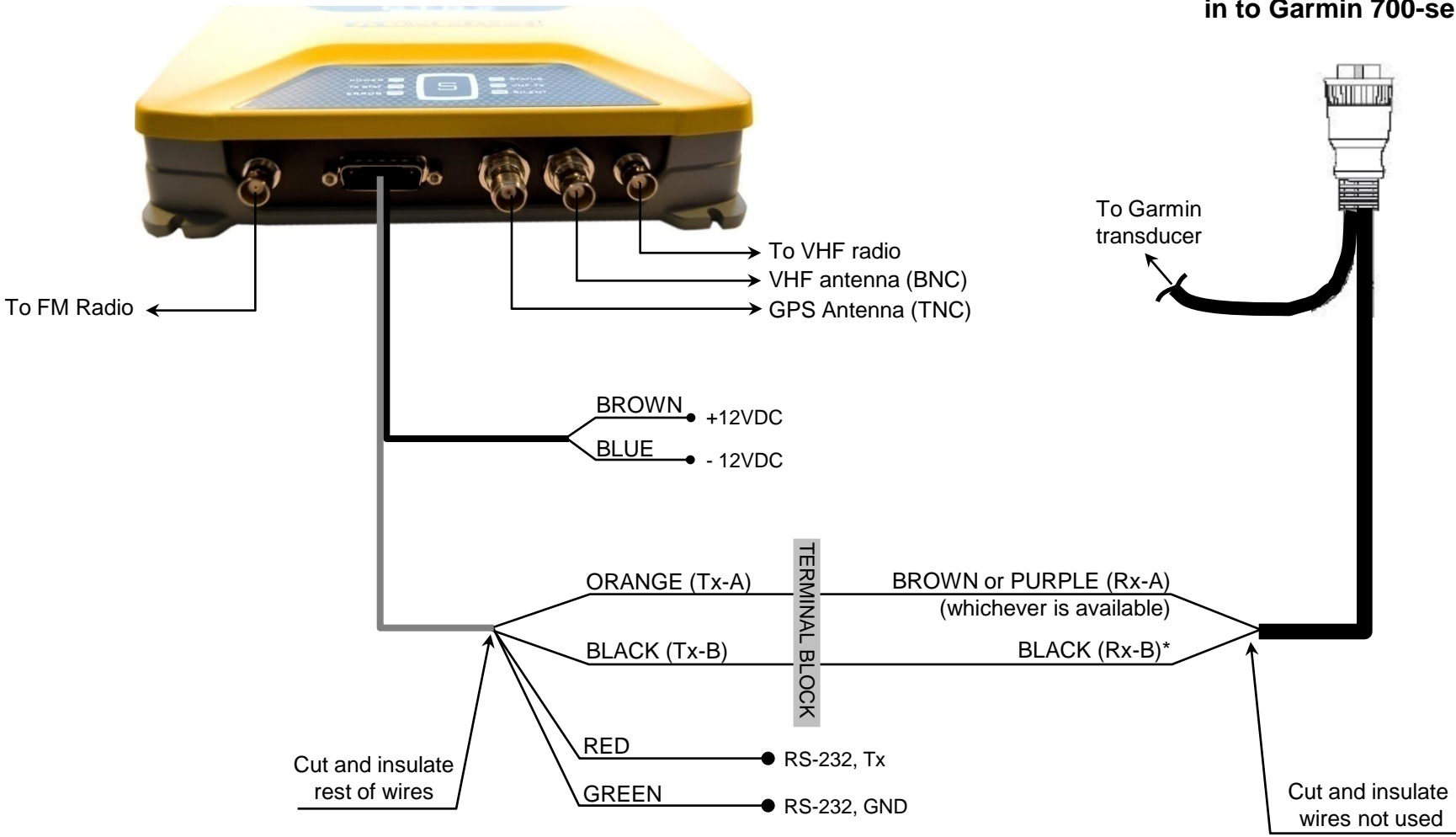
\* = Same wire for power supply 0V and NMEA Rx-B



# CTRX Carbon and Carbon+ to Garmin 700-serie

Picture shows Carbon+

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



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

## CTRX Carbon and Carbon+ to Garmin 3000-serie

Picture shows Carbon+



To FM Radio ←

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

- BROWN • +12VDC
- BLUE • -12VDC

- ORANGE (Tx-A)
- BLACK (Tx-B)

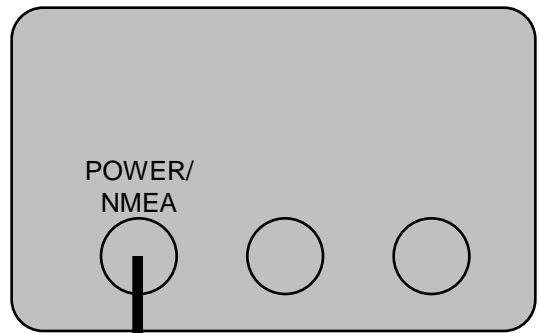
TERMINAL BLOCK

- BROWN or PURPLE (Rx-A)  
(whichever is available)
- BLACK (Rx-B)\*

Cut and insulate rest of wires



Back of Garmin 3000-serie



POWER/  
NMEA

Cut and insulate wires not used

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

## CTRX Carbon and Carbon+ to Garmin 700-serie

Picture shows Carbon+



To FM Radio ←

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

- BROWN • +12VDC
- BLUE • -12VDC

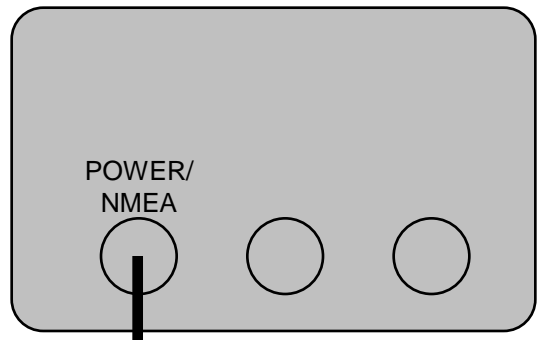
- ORANGE (Tx-A) ——— BROWN or PURPLE (Rx-A)  
(whichever is available)
- BLACK (Tx-B) ——— BLACK (Rx-B)\*

Cut and insulate rest of wires

- RED • RS-232, Tx
- GREEN • RS-232, GND

TERMINAL BLOCK

Back of Garmin 3000-serie



POWER/  
NMEA

Cut and insulate wires not used

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

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

Picture shows Carbon+



To FM Radio ←  
 → To VHF radio  
 → VHF antenna (BNC)  
 → GPS Antenna (TNC)

BROWN • +12VDC  
 BLUE • -12VDC

ORANGE (Tx-A)  
 BLACK (Tx-B)

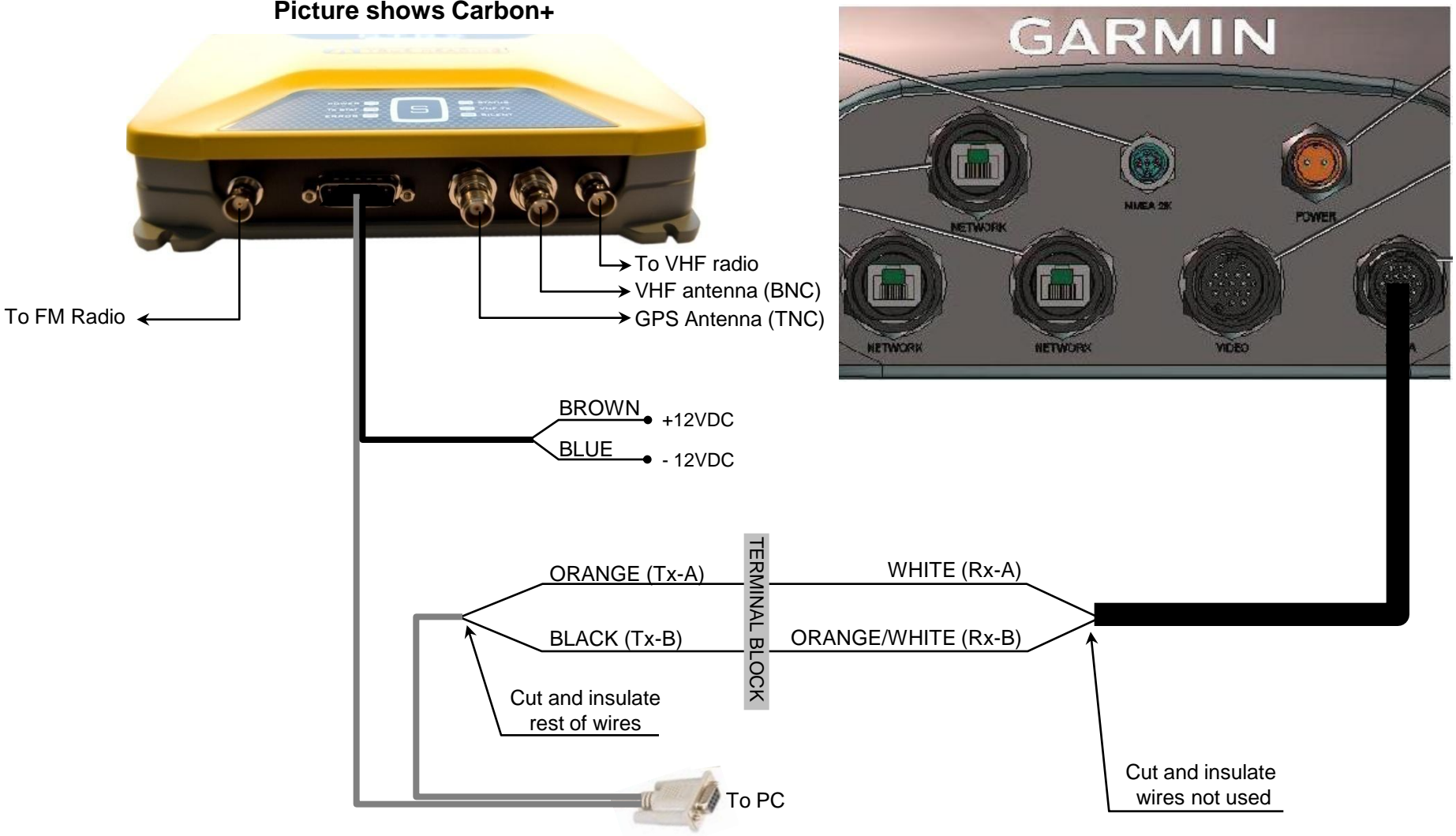
TERMINAL BLOCK

WHITE (Rx-A)  
 ORANGE/WHITE (Rx-B)

Cut and insulate rest of wires



Cut and insulate wires not used



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

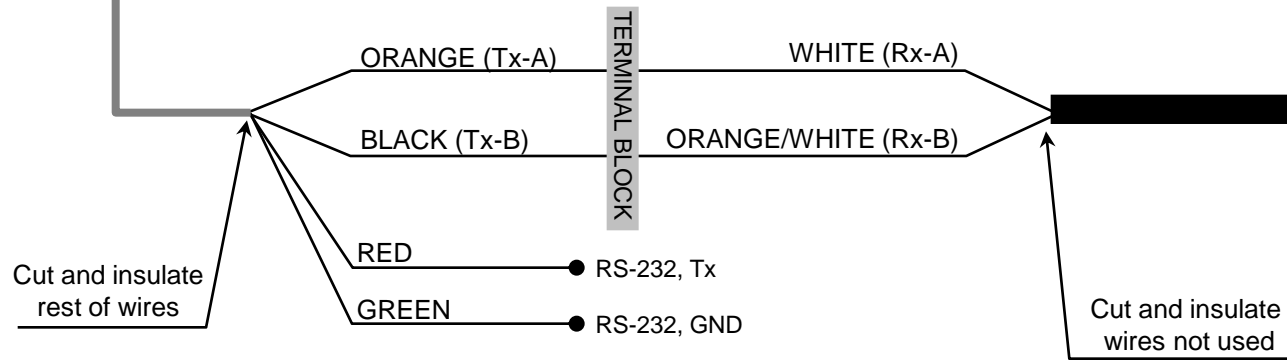
Picture shows Carbon+



To FM Radio ←

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

BROWN • +12VDC  
 BLUE • -12VDC





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

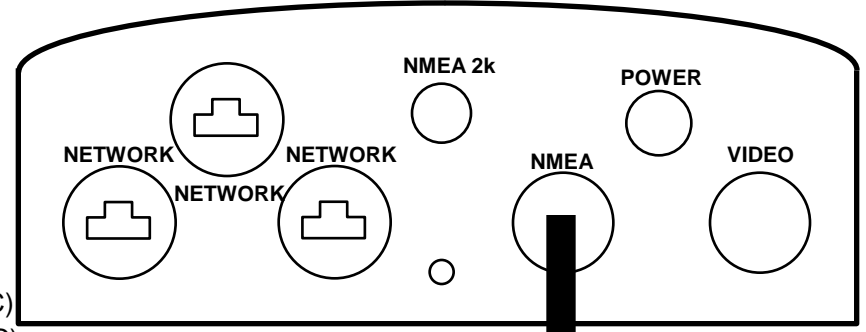
Picture shows Carbon+



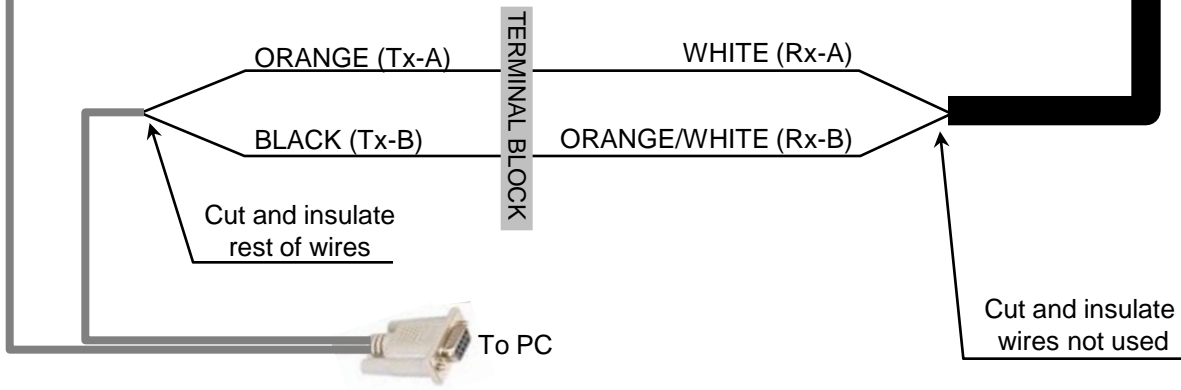
To FM Radio

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

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



- BROWN +12VDC
- BLUE -12VDC





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

Picture shows Carbon+



To FM Radio ←

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

BROWN • +12VDC  
BLUE • -12VDC

Cut and insulate rest of wires

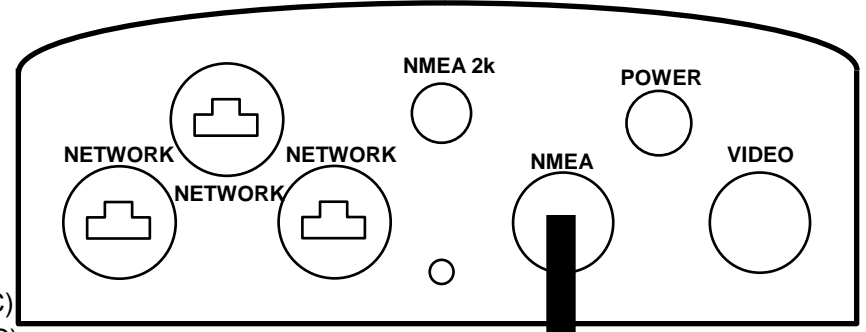
ORANGE (Tx-A)  
BLACK (Tx-B)  
RED • RS-232, Tx  
GREEN • RS-232, GND

TERMINAL BLOCK

WHITE (Rx-A)  
ORANGE/WHITE (Rx-B)

Cut and insulate wires not used

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





# CTRX Carbon and Carbon+ to Garmin 7000-serie

Picture shows Carbon+



To FM Radio

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

- BROWN +12VDC
- BLUE -12VDC

ORANGE (Tx-A)

BLACK (Tx-B)

Cut and insulate rest of wires



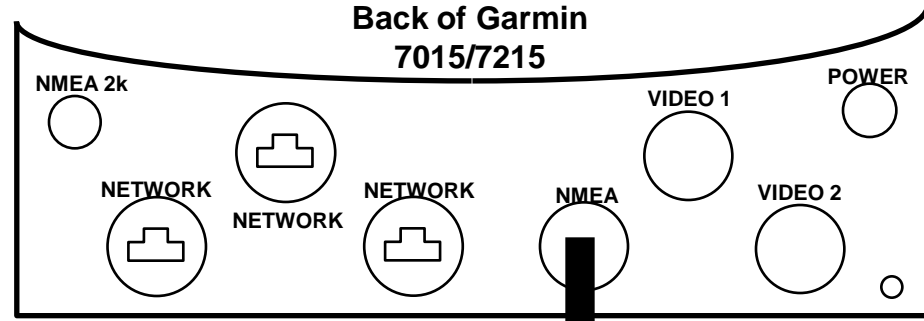
TERMINAL BLOCK

WHITE (Rx-A)

ORANGE/WHITE (Rx-B)

Cut and insulate wires not used

Back of Garmin 7015/7215





# CTRX Carbon and Carbon+ to Garmin 7000-serie

Picture shows Carbon+



To FM Radio ←

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

BROWN • +12VDC  
BLUE • -12VDC

Cut and insulate rest of wires

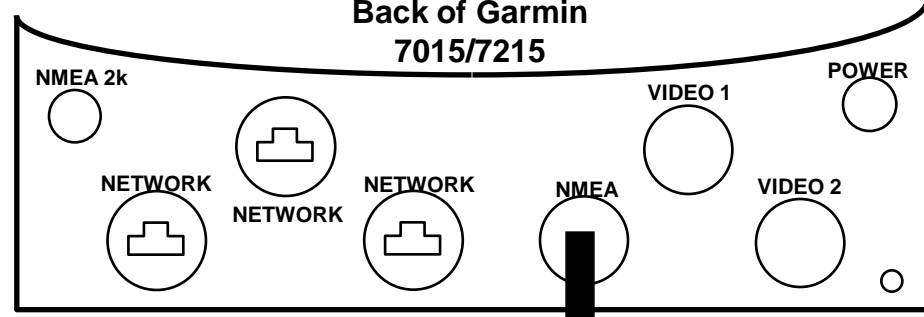
ORANGE (Tx-A)  
BLACK (Tx-B)  
RED • RS-232, Tx  
GREEN • RS-232, GND

TERMINAL BLOCK

WHITE (Rx-A)  
ORANGE/WHITE (Rx-B)

Cut and insulate wires not used

Back of Garmin 7015/7215



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

Picture shows Carbon+



To FM Radio ←

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

BROWN • +12VDC  
BLUE • -12VDC

ORANGE (Tx-A)  
BLACK (Tx-B)

Cut and insulate rest of wires

TERMINAL BLOCK

BROWN\* (Rx-A)  
BROWN/WHITE\*\* (Rx-B)

FRUDD

Cut and insulate wires not used

To PC

Back of MFD 8/12/Black Box



**NOTE!**  
 \* = Instead of BROWN, BLUE wire can be used.  
 \*\* = Instead of BROWN/WHITE, BLUE/WHITE wire can be used

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

Picture shows Carbon+



To FM Radio ←

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

BROWN • +12VDC  
BLUE • -12VDC

Cut and insulate rest of wires

ORANGE (Tx-A)  
BLACK (Tx-B)  
RED • RS-232, Tx  
GREEN • RS-232, GND

TERMINAL BLOCK

BROWN\* (Rx-A)  
BROWN/WHITE\*\* (Rx-B)

FRUDD

Cut and insulate wires not used

Back of MFD 8/12/Black Box



**NOTE!**

\* = Instead of BROWN, BLUE wire can be used.

\*\* = Instead of BROWN/WHITE, BLUE/WHITE wire can be used



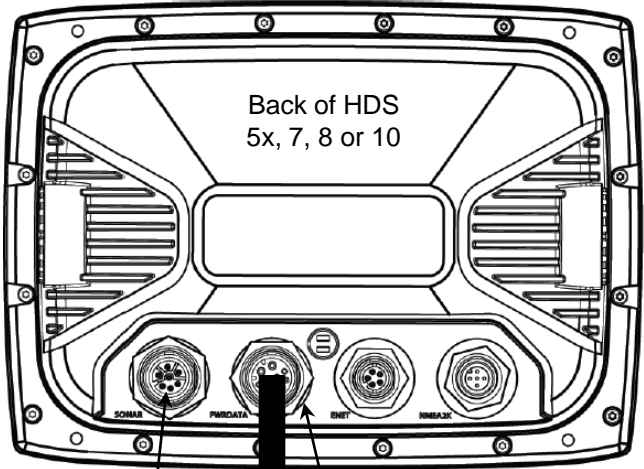
# CTRX Carbon and Carbon+ to Lowrance HDS 5x,7,8 and 10

Picture shows Carbon+



To FM Radio

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



Back of HDS  
5x, 7, 8 or 10

POWER/DATA

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

- BROWN +12VDC
- BLUE -12VDC

- ORANGE (Tx-A)
- BLACK (Tx-B)

TERMINAL BLOCK

- ORANGE (Rx+)
- GREEN (Rx-)

Power etc.

Cut and insulate rest of wires

Cut and insulate wires not used

To PC



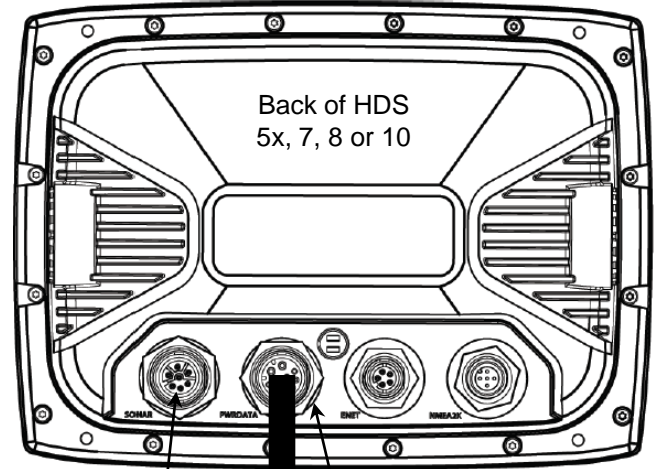
# CTRX Carbon and Carbon+ to Lowrance HDS 5x,7,8 and 10

Picture shows Carbon+



To FM Radio

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



Back of HDS 5x, 7, 8 or 10

- BROWN • +12VDC
- BLUE • - 12VDC

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

POWER/DATA

- ORANGE (Tx-A)
- BLACK (Tx-B)

- ORANGE (Rx+)
- GREEN (Rx-)

Power etc.

Cut and insulate wires not used

Cut and insulate rest of wires

- RED • RS-232, Tx
- GREEN • RS-232, GND

TERMINAL BLOCK

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

Picture shows Carbon+



To FM Radio

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

BROWN +12VDC  
 BLUE -12VDC

Connectors for VIDEO IN

VIDEO IN

ORANGE (Tx+)  
 BLACK (Tx-)

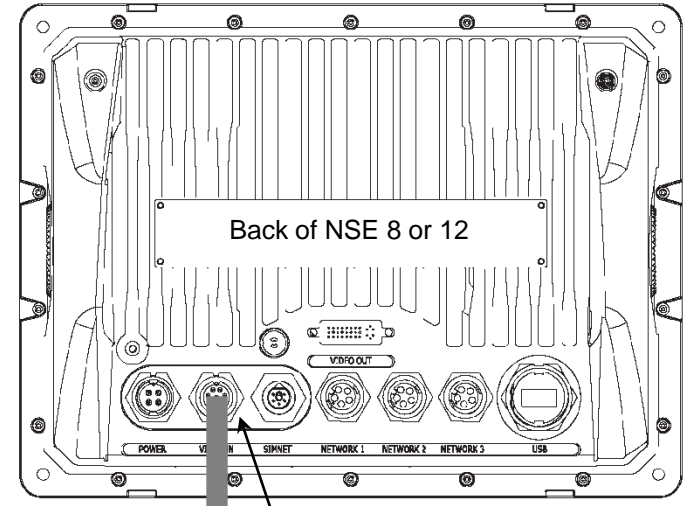
ORANGE (Rx+)  
 GREEN (Rx-)

Cut and insulate rest of wires

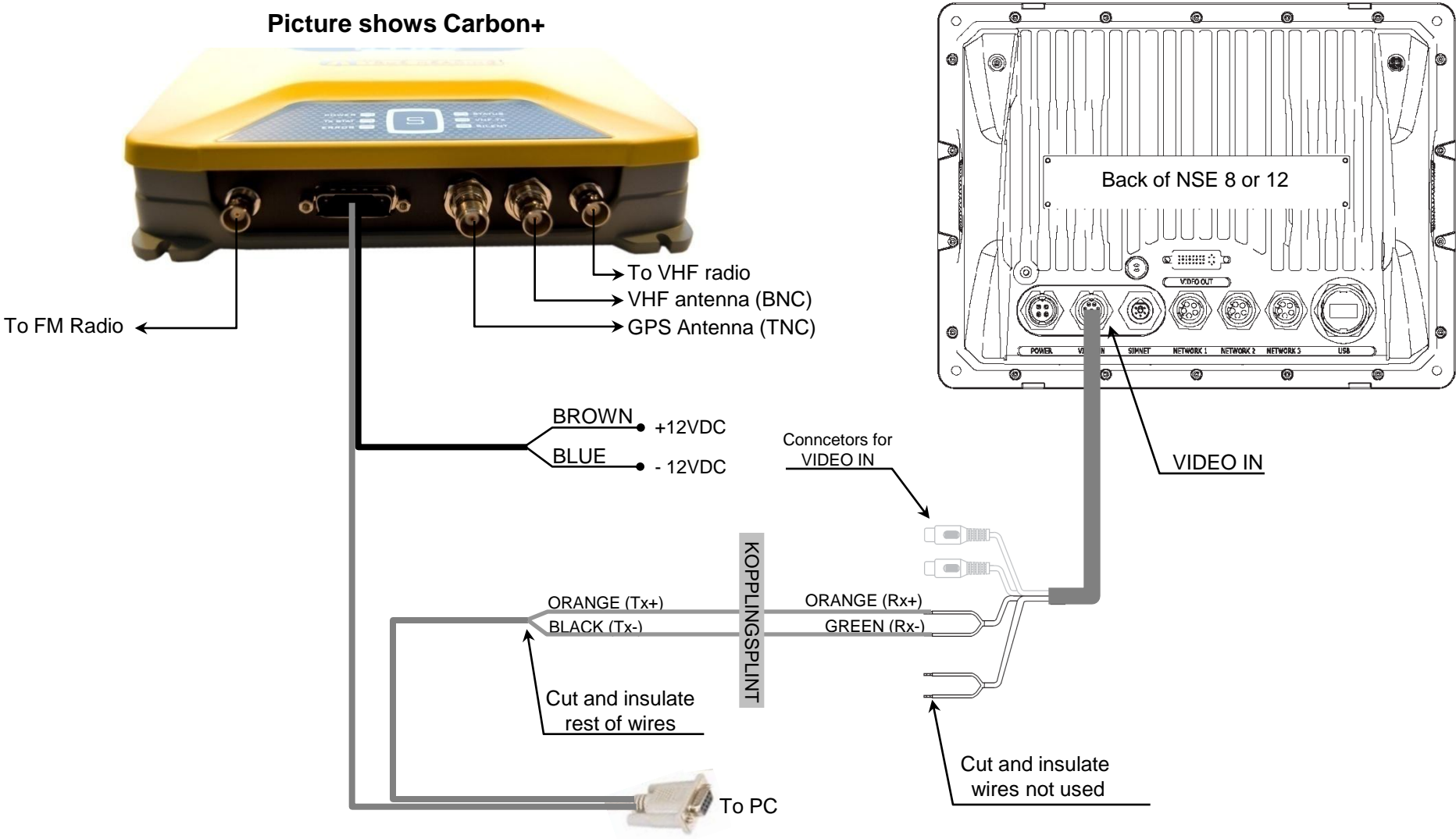
Cut and insulate wires not used

KOPPLINGSPLINT

To PC

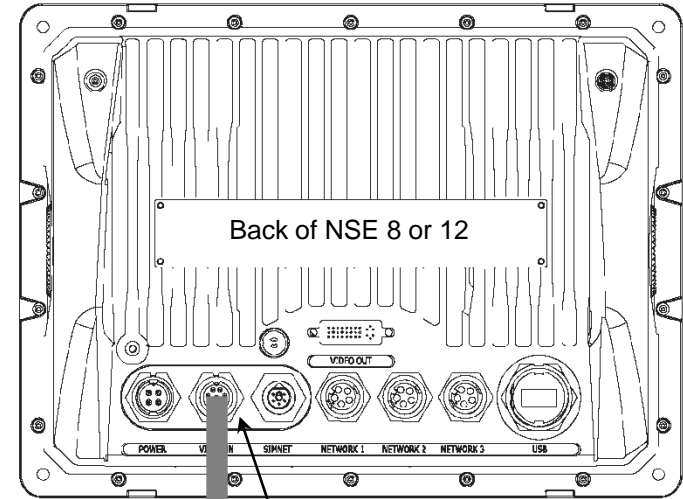


Back of NSE 8 or 12



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

Picture shows Carbon+



To FM Radio ←  
 To VHF radio  
 VHF antenna (BNC)  
 GPS Antenna (TNC)

BROWN • +12VDC  
 BLUE • -12VDC

Connectors for VIDEO IN

VIDEO IN

ORANGE (Tx+)  
 BLACK (Tx-)

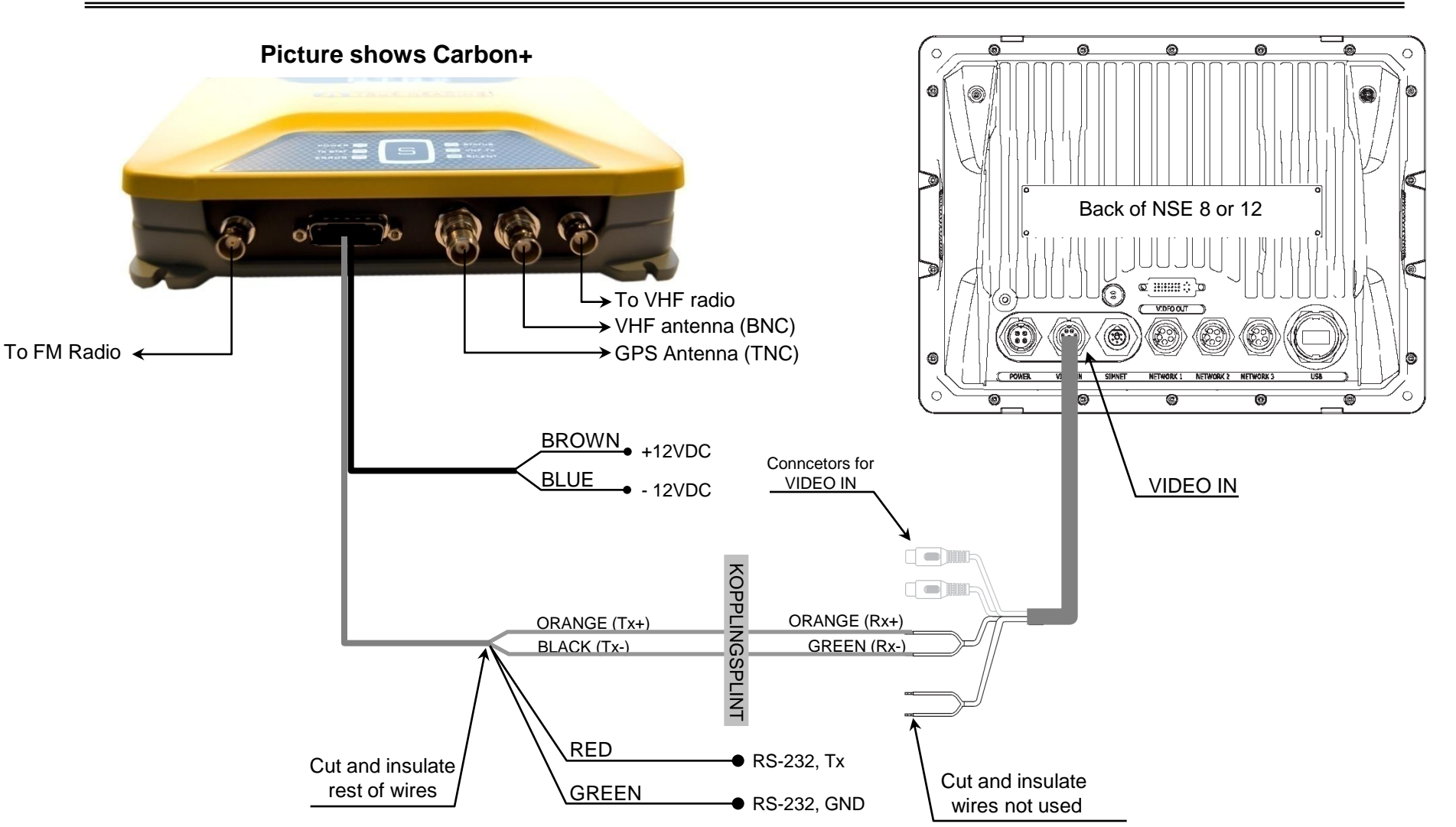
ORANGE (Rx+)  
 GREEN (Rx-)

KOPPLINGSPLINT

Cut and insulate rest of wires

RED • RS-232, Tx  
 GREEN • RS-232, GND

Cut and insulate wires not used

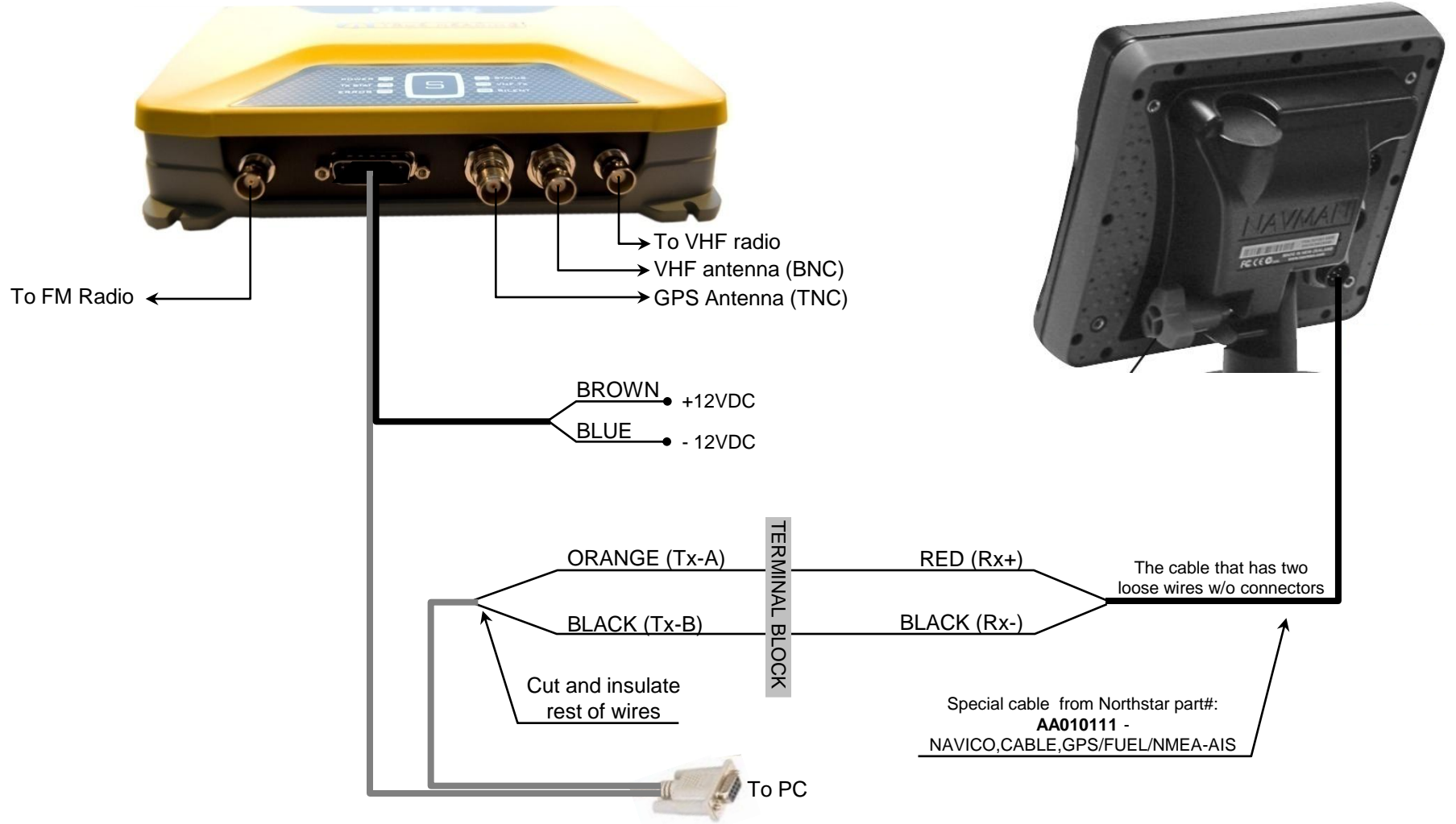




# CTRX Carbon and Carbon+ to Northstar Explorer 557,567 and 657

Picture shows Carbon+

Back of Explorer xxx





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

Picture shows Carbon+



Back of Explorer xxx



To FM Radio

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

BROWN +12VDC  
BLUE -12VDC

ORANGE (Tx-A)  
BLACK (Tx-B)

RED (Rx+)  
BLACK (Rx-)

The cable that has two loose wires w/o connectors

Cut and insulate rest of wires

RED RS-232, Tx  
GREEN RS-232, GND

Special cable from Northstar part#: AA010111 - NAVICO,CABLE,GPS/FUEL/NMEA-AIS

TERMINAL BLOCK