



3G panel for YMI

Additional installation instructions

19/02/2021

Yanmar Marine International B.V.
Engineering & Development Department

3G display types

Overview of main functions



B type

- Tacho incl. digital gauge
- Alarm indication
- Key switch
- E-stop button
- Buzzer stop switch



C type

- Tacho incl. digital gauge
- **Coolant temp gauge**
- **Oil pressure gauge**
- Alarm indication
- Key switch
- E-stop button
- Buzzer stop switch



D type

- Tacho incl. digital gauge
- **Coolant temp gauge**
- **Oil pressure gauge**
- **Boost pressure gauge**
- Alarm indication
- Key switch
- E-stop button
- Buzzer stop switch



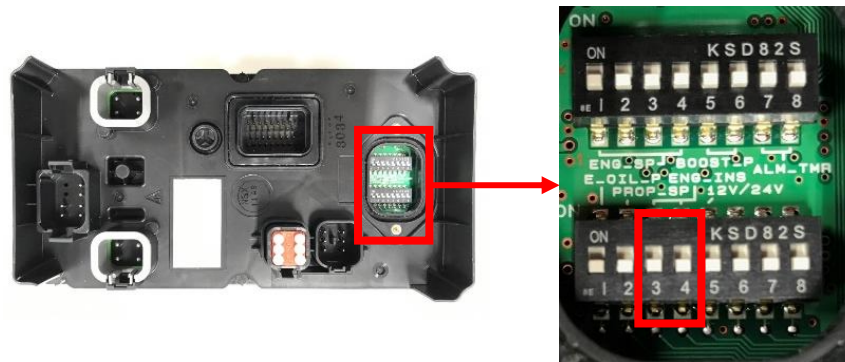
NMEA instance

For NMEA output (optional)

To change the instance (in case of twin/triple engine installation), set the dipswitches as shown below

- Default NMEA instance = 0 (PORT)
- Only change the setting of shown dipswitches

See Operation Manual for available data
(Data is available depending on configuration)



Engine		Single / Port	Stbd	Center
NMEA instance		0	1	2
Dipswitch	No.3	ON	ON	OFF
	No.4	ON	OFF	ON



NMEA harness

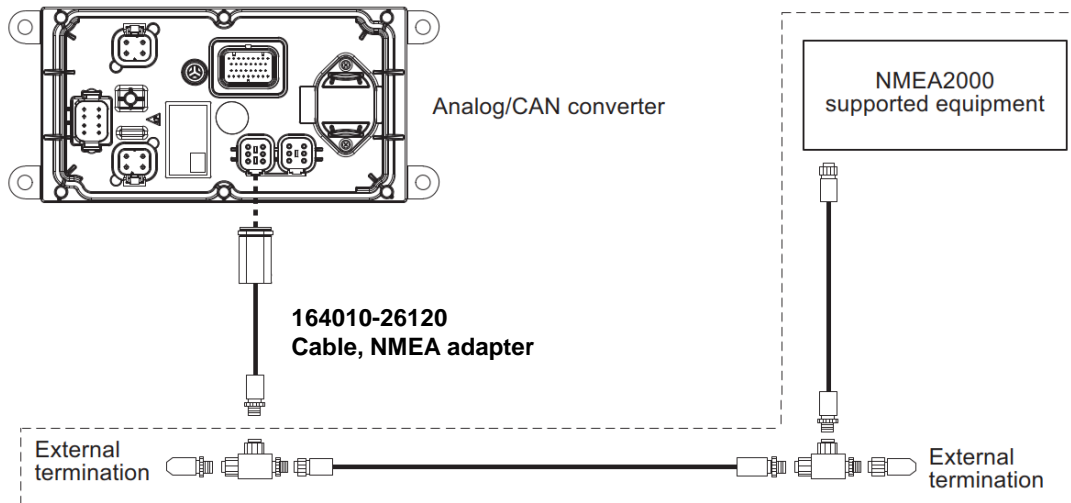
NMEA harness 164010-26100 is not available from YMI

As alternative please use 164010-26120 Cable, NMEA adapter

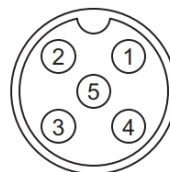
164010-26120 does not use the internal terminator as mentioned in the Operation Manual. So in each installation 2 additional terminators are needed in the NMEA backbone, see below.

Note

When attached equipment does not supply 12V to NMEA backbone, additional power supply is required.



Terminal No.	Outline
1	DRAIN
2	NMEA power supply +
3	NMEA power supply -
4	CAN H
5	CAN L



Available connector: DeviceNet Micro-style connector "Female"



Additional gauges

The following gauges are available for loose (additional) order:



Coolant temp gauge
164010-52000
(Included in C/D type panel)



Oil pressure gauge
164010-53000
(Included in C/D type panel)



Boost pressure gauge
164010-53100
(Included in D type panel)



Charge gauge (12V)
164010-55000



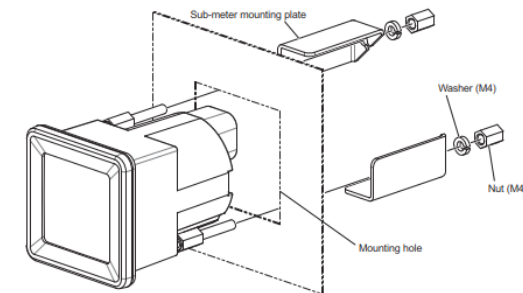
Charge gauge (24V)
164010-55100

There are 2 ways to add an additional gauge:

1. In a vacant slot of the panel
Needed:
 - 164010-21600 Gauge harness
2. Loose mounting in the dashboard
Needed:
 - 164010-21600 Gauge harness
 - 164010-50190 Gauge mounting kit
 - 164010-24110/20 Extension harness Gauge (optional)



Vacant slot



Dashboard mounting

See Operation Manual for more details



Differences from Operation Manual

The following options are mentioned in the Operation Manual, but are not available from YMI:

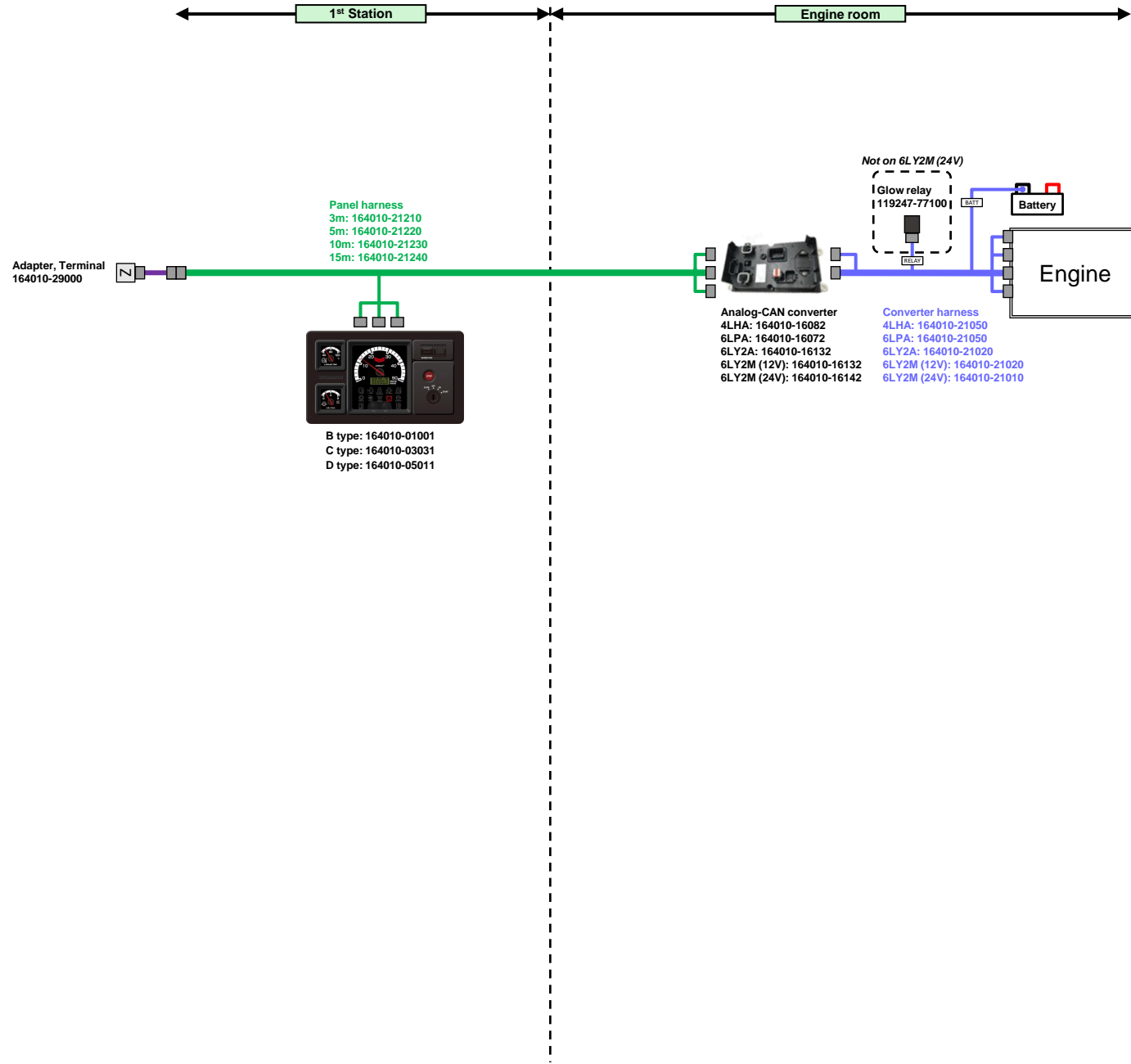
- Tilt switch
- Tilt angle gauge
- Fuel level gauge
- Exhaust temperature sensor
- Propeller speed sensor
- NMEA harness 164010-26100 (use 164010-26120 instead)

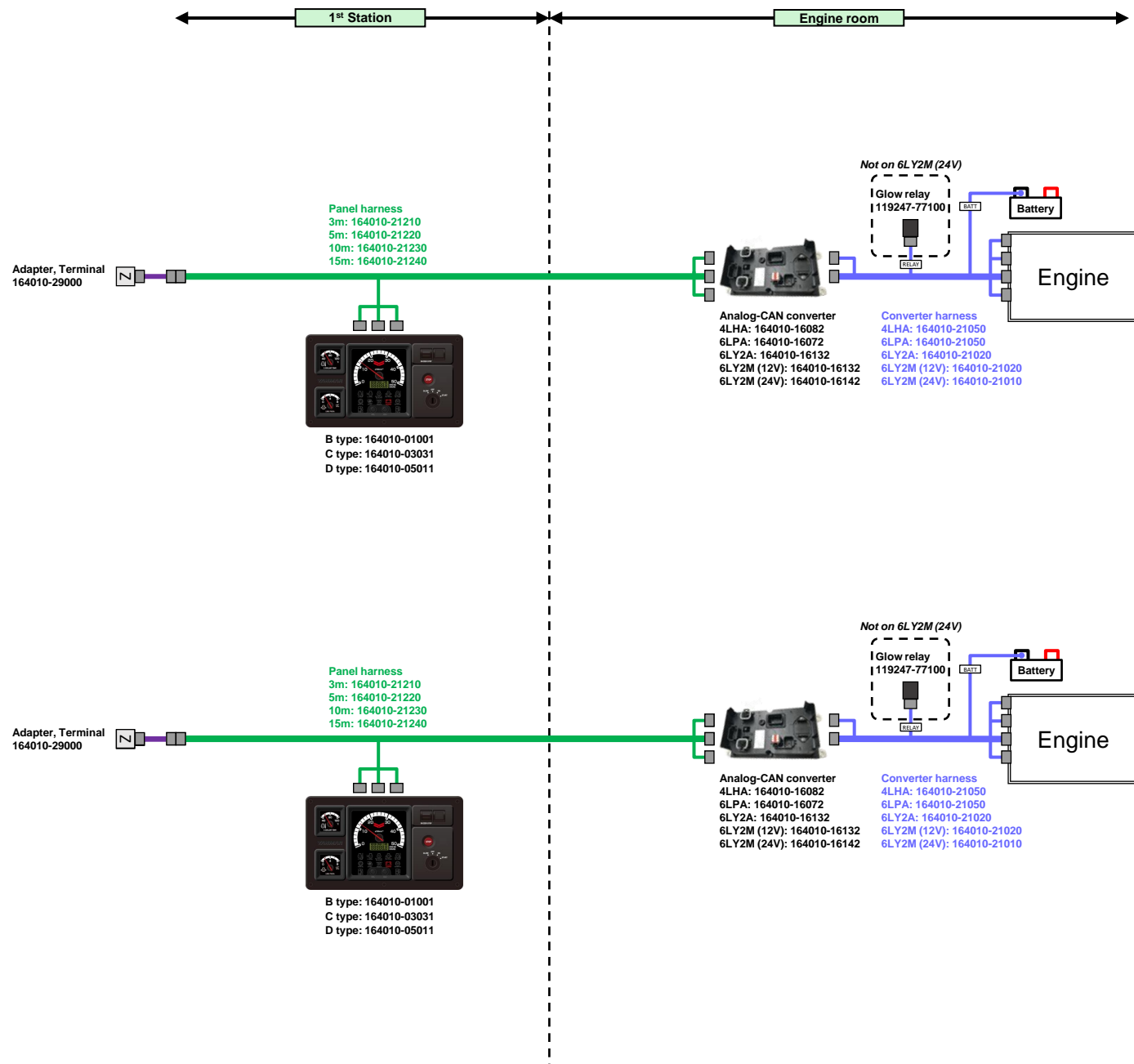




BLOCK DIAGRAMS







2nd Station

Routing
between
stations

1st Station

Engine room

Adapter, Terminal
164010-29000

Additional station harness
164010-21400

EXT harness
3m: 164010-23010
5m: 164010-23020
10m: 164010-23030
20m: 164010-23040

Panel harness
3m: 164010-21210
5m: 164010-21220
10m: 164010-21230
15m: 164010-21240



B type: 164010-01001
C type: 164010-03031
D type: 164010-05011



B type: 164010-01001
C type: 164010-03031
D type: 164010-05011



Analog-CAN converter
4LHA: 164010-16082
6LPA: 164010-16072
6LY2A: 164010-16132
6LY2M (12V): 164010-16132
6LY2M (24V): 164010-16142

Not on 6LY2M (24V)

Glow relay
119247-77100



Engine

Converter harness
4LHA: 164010-21050
6LPA: 164010-21050
6LY2A: 164010-21020
6LY2M (12V): 164010-21020
6LY2M (24V): 164010-21010

Adapter, Terminal
164010-29000

Additional station harness
164010-21400

EXT harness
3m: 164010-23010
5m: 164010-23020
10m: 164010-23030
20m: 164010-23040

Panel harness
3m: 164010-21210
5m: 164010-21220
10m: 164010-21230
15m: 164010-21240



B type: 164010-01001
C type: 164010-03031
D type: 164010-05011



B type: 164010-01001
C type: 164010-03031
D type: 164010-05011



Analog-CAN converter
4LHA: 164010-16082
6LPA: 164010-16072
6LY2A: 164010-16132
6LY2M (12V): 164010-16132
6LY2M (24V): 164010-16142

Not on 6LY2M (24V)

Glow relay
119247-77100



Engine

Converter harness
4LHA: 164010-21050
6LPA: 164010-21050
6LY2A: 164010-21020
6LY2M (12V): 164010-21020
6LY2M (24V): 164010-21010

2nd Station

Routing
between
stations

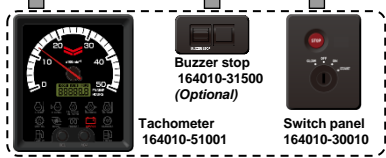
1st Station

Engine room

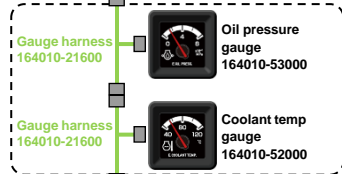
Adapter, Terminal
164010-29000

Additional station harness
164010-21400

Extension harness
Tacho (optional)
0.6m: 164010-24200



Extension harness
Gauge (optional)
0.3m: 164010-24110
0.6m: 164010-24120



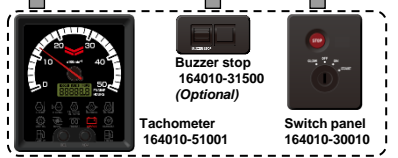
Adapter, Gauge terminal
164010-29100

Included in C/D type panel

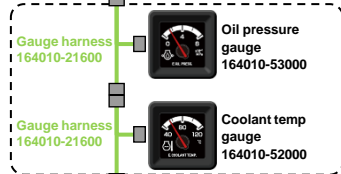
EXT harness
3m: 164010-23010
5m: 164010-23020
10m: 164010-23030
20m: 164010-23040

Panel harness
3m: 164010-21210
5m: 164010-21220
10m: 164010-21230
15m: 164010-21240

Extension harness
Tacho (optional)
0.6m: 164010-24200

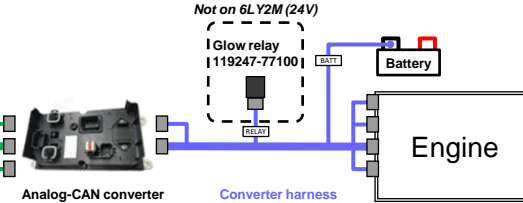


Extension harness
Gauge (optional)
0.3m: 164010-24110
0.6m: 164010-24120



Adapter, Gauge terminal
164010-29100

Included in C/D type panel



Loose mounting kits

Tachometer: 164010-50090
Gauge: 164010-50190
Buzzer stop: 164010-30190
Switch panel: not needed

