

HONDA MARINE ACCESSORIES 2023

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Genuine Parts

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High quality, better results, longer lasting

Summary

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CONTROLS

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HONWAVE
LUBRICANTS
MISCELLANEOUS
PROTECTION
GAUGES
ELECTRICALS
CABLES
FUEL SYSTEMS
PROPELLERS
NMEA 2000
PRE RIGGING
CONTROLS

CONTROLS

MECHANICAL REMOTE CONTROL

Side Mount Remote Control Box with PPT

4 x Alert Light

- Description**
- Key Start/PTT/Emergency Stop Switch
 - 4 Light Alert → Oil pressure / Overheat / PGM-FI/ ACG
 - Port or Starboard Mounting - can be mounted in Pairs
 - Harness not supplied

Application

BF40DK4 ~ BF40E ~ BF50DK4 ~
BF60AK1 ~ BF80A ~ BFP60AK1 ~
BF100A ~ BF115DK1 ~ BF115J ~
BF135AK2 ~ BF135D ~ BF150AK2 ~
BF150D ~ BF175AK3 ~ BF200AK3 ~ BF200D ~
BF225AK3 ~ BF225D ~ BF250A ~ BF250D

Part Number

24800-ZZ5-D03



Side Mount Remote Control Box with PPT & trolling

4 x Alert Light

- Description**
- Key Start/PTT/Emergency Stop Switch
 - 4 Light Alert → Oil pressure / Overheat / PGM-FI/ ACG
 - Port or Starboard Mounting - can be mounted in Pairs
 - Harness not supplied
 - Integrated trolling control function

Application

BF40DK4 ~ BF40E ~ BF50DK4 ~
BF60AK1 ~ BF80A ~ BFP60AK1 ~
BF100A ~ BF115DK1 ~ BF115J ~
BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D

Part Number

24800-ZZ5-D23



Side Mount Remote Control Box

2 x Alert light

- Description**
- Key Start/PTT/Emergency Stop Switch
 - 2 Light Alert → Oil pressure/Overheat
 - Port or Starboard Mounting - can be mounted in Pairs
 - Harness not supplied

Application

BF30DK2

Part Number

24800-ZW2-D02



MECHANICAL REMOTE CONTROL

Sticker Plate

- Description**
- Can be used when the remote is mounted on the plate side.

Application

BF40DK2 ~ BF50DK2 ~ BF50DK4 ~ BF80A ~ BF8DK2 ~ BF100A ~
BF115DK1 ~ BF15DK2 ~ BF175AK3 ~ BF200AK3 ~ BF225AK3 ~
BF250A

Part Number

87701-ZZ5-790



Top Mount Remote Control Box

- Description**
- Top Mount Control Box
 - F-N-R Lever
 - PTT Switch

Application

BF30DK2 ~ BF40DK4 ~
BF40E ~ BF50DK4 ~
BF60AK1 ~ BFP60AK1 ~
BF115DK1 ~ BF115J ~
BF135AK2 ~ BF135D ~
BF150AK2 ~ BF150D ~
BF200D ~ BF225D ~
BF250D

Part Number

06240-ZY6-U91

Comments

Reversible Hand
Operation -
Non Trolling

BF40DK4 ~ BF40E ~
BF50DK4 ~ BF60AK1 ~
BFP60AK1 ~ BF115DK1 ~
BF115J ~ BF135AK2 ~
BF135D ~ BF150AK2 ~
BF150D

06240-ZY6-U11

Reversible Hand
Operation -
Trolling



Flush Mount Remote Control Box

- Description**
- Flush Mount Control Box
 - F-N-R Lever
 - PTT Switch

Application

BF30DK2 ~ BF40DK2 ~
BF40DK4 ~ BF40E ~
BF50DK2 ~ BF50DK4 ~
BF60AK1 ~ BF80A ~
BFP60AK1 ~ BF100A ~
BF115DK1 ~ BF115J ~
BF135AK2 ~ BF135D ~
BF150AK2 ~ BF150D ~
BF175AK3 ~ BF200AK3 ~
BF200D ~ BF225AK3 ~
BF225D ~ BF250A ~
BF250D

Part Number

06240-ZW7-U00

Comments

Right Hand Operation

06240-ZW7-U10

Left Hand Operation



CONTROLS

MECHANICAL REMOTE CONTROL

Twin Top Mount Remote Control Box

- Description**
- Twin Mount Control Box
 - F-N-R Lever
 - PTT Switches

Application	Part Number	Comments
BF30DK2 ~ BF40DK4 ~ BF40E ~ BF50DK4 ~ BF60AK1 ~ BFP60AK1 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D ~ BF200D ~ BF225D ~ BF250D	06240-ZY6-V92	Reversible Hand Operation - Non Trolling
BF40DK4 ~ BF40E ~ BF50DK4 ~ BF60AK1 ~ BFP60AK1 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D	06240-ZY6-V12	Reversible Hand Operation - Trolling



DBW REMOTE CONTROLS

Flush Mount Remote Control Box

Application	Part Number	Comments
BF115J ~ BF135D ~ BF150D ~ BF175D ~ BF200D ~ BF225D ~ BF250D	24800-ZVL-003	Right Hand Operation



Top Mount Remote Control Box

Application	Part Number	Comments
BF115J ~ BF135D ~ BF150D ~ BF175D ~ BF200D ~ BF225D ~ BF250D	24800-ZVL-601	Right Hand Operation



Twin Top Mount Remote Control Box

Application	Part Number	Comments
BF115J ~ BF135D ~ BF150D ~ BF175D ~ BF200D ~ BF225D ~ BF250D	24800-ZVL-701	Right Hand Operation



Emergency Stop Lanyard

Description • Emergency Stop Lanyard

Application	Part Number
BF30DK2 ~ BF40DK2 ~ BF40DK4 ~ BF40E ~ BF50DK2 ~ BF50DK4 ~ BF60AK1 ~ BF80A ~ BF8DK2 ~ BFP60AK1 ~ BF100A ~ BF10DK2 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D ~ BF15DK2 ~ BF175AK3 ~ BF2.3DK2 ~ BF200AK3 ~ BF200D ~ BF20DK2 ~ BF225AK3 ~ BF225D ~ BF250A ~ BF250D	36182-ZV4-651

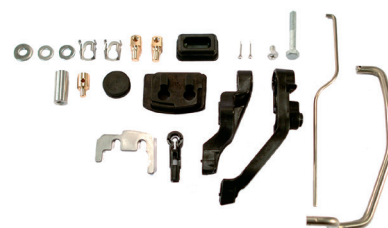


Conversion kit handle to remote control

Description

- Kit to convert a handle outboard type to a remote control type
- This kit doesn't include the side mount remote control and cables and doesn't allow the user to steer the boat
- No steering tube to fix the steering cable
- Part: 24221-ZW9-000 (1 piece) has to be removed from the engine to facilitate the shifting

Application	Part Number
BF8D, BF10D	06532-ZW9-000HE

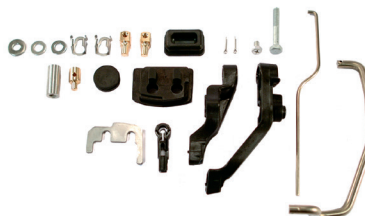


Conversion kit handle to remote control

Description

- Kit to convert a handle outboard type to a remote control type
- This kit doesn't include the side mount remote control and cables and doesn't allow the user to steer the boat
- No steering tube to fix the steering cable
- Part: 24221-ZW9-000 (1 piece) has to be removed from the engine to facilitate the shifting

Application	Part Number
BF15D, BF20D	06532-ZY0-000HE

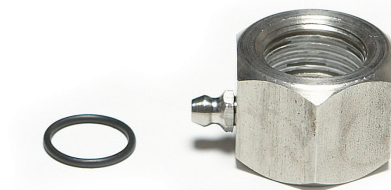


CONTROLS

Steering Tube Seal

- Description**
- Steering Tube Seal
 - Integral O ring prevents entry of water & dirt.
 - Equipped with a greasing point

Application	Part Number	Comments
BF8D ~ BF50A	50899-ZV5-000AH	Anodised Aluminium
BF8D ~ BF50A	50899-ZV5-020AH	Stainless Steel



Steering Link Rod BF60A / BFP60A

- Description**
- Steering Link Rod
 - Provides up to 50° steering on BF/BFP60A.
 - Provides reduced turning circles for boat users.
- Standard European link rod 30°.

Application	Part Number
BF40E / BF60 / BFP60 -A-AK1	06531-ZZ3-000



Steering Plates

- Description**
- Steering Plates
 - Required for some twin engine applications

Application	Part Number
BF8DK2 / BF10DK2 / BF15DK2 / BF20DK2	53234-ZW9-830
BF30DK2	53234-ZV7-781
BF40E / BF60AK1 / BFP60AK1	53234-ZZ3-000
BF80A / BF115DK1 / BF100A	53234-ZW1-010
BF115DK1	53234-ZW5-010



PRE RIGGING

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NMEA 2000
PRE RIGGING
CONTROLS

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PRE RIGGING

PRE RIGGING KIT EXAMPLES

Side Mount Remote Control Kit Example

- Description**
- Pre Rigging Basic 2 gauge kit
 - 1 x Tachometer
 - 1 x Trim gauge
 - 1 x Instrument Harness
 - Pre Rigging Side Mounted Control Box Kit
 - 1 x Side Mount RC Box
 - Main Wire Harness available in 5M, 6.1M, 7.6M, 9.1M & 15M



Top Mount Remote Control Kit Example

5 Gauge Kit

- Description**
- Pre Rigging 5 gauge kit
 - 1 x Tachometer
 - 1 x Trim gauge
 - 1 x Speedometer
 - 1 x Fuel level gauge
 - 1 x Voltmeter
 - 1 x Instrument Harness
 - Pre Rigging Single Top Mount Control Box Kit
 - 1 x RC Box
 - Main Wire Harness available in 5M, 6.1M, 7.6M & 9.1M.
 - 1 x Ignition Switch panel



PRE RIGGING

PRE RIGGING KIT EXAMPLES

Flush Mount Remote Control Kit Example

5 Gauge Kit

- Description**
- Pre Rigging 5 gauge kit
 - 1 x Tachometer
 - 1 x Trim gauge
 - 1 x Speedometer
 - 1 x Fuel level gauge
 - 1 x Voltmeter
 - 1 x Instrument harness
 - Pre Rigging Flush Mount Control Box Kit
 - 1 x Flush RC Box
 - Main Wire Harness available in 5M, 6.1M, 7.6M & 9.1M
 - 1 x Ignition Switch panel



Side Mount with single digital kit example

- Description**
- Pre Rigging Digital Gauge kit
 - 1 x NMEA 2000 Tachometer
 - 1 x NMEA 2000 Instrument harnessDual Kit (Tachometer/Speedo) also available
 - Pre Rigging Flush Mount Control Box Kit
 - RC Box
 - Main Wire Harness available in 5M, 6.1M, 7.6M, 9.1M & 15M



PRE RIGGING

PRE RIGGING KIT EXAMPLES

Twin Top Mount Remote with NMEA gauges

- Description**
- Pre Rigging Twin Digital Gauge kit
 - 2 x NMEA 2000 Tachometers
 - 1 x NMEA 2000 Speedometer
 - 3 x NMEA 2000 Instrument Harness & Tee connectors
 - Pre Rigging Dual Top Mount Control Box Kit
 - 1 x Twin Engine RC Box
 - 2 x main wire harness available in; 6.1M, 7.6M & 9.1M
 - 2 x Ignition Switch Panels (or use 06323-ZY6-752 for dual key switch with 1 emergency stop lanyard)



2x

Side Mount Remote Control Kit

4 x Alert light

- Description**
- Key Start / PTT / Emergency Stop Switch
 - Handle is reversible
 - 4 Light Alert → Oil pressure / Overheat / PGM-FI / ACG
 - Port or Starboard Mounting-can be mounted in Pairs

Application	Harness	Part Number
BF40DK4 ~ BF40E ~ BF50DK4 ~ BF60AK1 ~ BF80A ~ BFP60AK1 ~ BF100A ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D ~ BF175AK3 ~ BF200AK3 ~ BF200D ~ BF225AK3 ~ BF225D ~ BF250A ~ BF250D	5.0M	06480-ZZ5-510
	6.1M	06480-ZZ5-610
	7.6M	06480-ZZ5-710
	9.1M	06480-ZZ5-810
	15.0M	06480-ZZ5-910



Side Mount Remote Control Kit incl. Trolling Type 4 x Alert light

- Description**
- Key Start / PTT / Emergency Stop Switch
 - Handle is reversible
 - 4 Light Alert → Oil pressure / Overheat / PGM-FI / ACG
 - Port or Starboard Mounting-can be mounted in Pairs
 - Integrated trolling control function

Application	Harness	Part Number
BF40DK4 ~ BF40E ~ BF50DK4 ~ BF60AK1 ~ BF80A ~ BFP60AK1 ~ BF100A ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D	5.0M	06480-ZZ5-522
	6.1M	06480-ZZ5-622
	7.6M	06480-ZZ5-722
	9.1M	06480-ZZ5-822
	15.0M	06480-ZZ5-922



PRE RIGGING

Top Mount Remote Control Kit

4 x Alert light switch panel

- Description**
- Top Mount Control Box
 - Ignition Switch with integrated alert panel;
 - Oil pressure / Overheat / PGM-FI / ACG

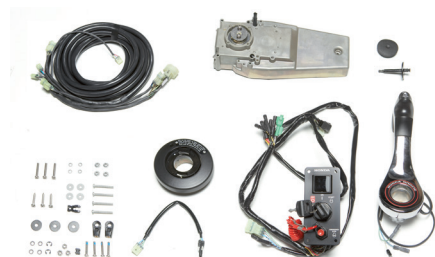


Application	Harness	Part Number	Comments
BF30DK2 ~ BF40DK4 ~ BF50DK4 ~ BF40E ~ BF60AK1 ~ BFP60AK1 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D ~ BF200D ~ BF225D ~ BF250D	5.0M	06250-ZZ5-U05HE	Reversible Hand Operation - Non Trolling
	6.1M	06250-ZZ5-U06HE	
	7.6M	06250-ZZ5-U01HE	
	9.1M	06250-ZZ5-U09HE	
BF40DK4 ~ BF50DK4 ~ BF40E ~ BF60AK1 ~ BFP60AK1 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D	5.0M	06250-ZZ5-T05HE	Reversible Hand Operation - Trolling
	6.1M	06250-ZZ5-T06HE	
	7.6M	06250-ZZ5-T01HE	
	9.1M	06250-ZZ5-T09HE	

Flush Mount Remote Control Kit

4 x Alert light switch panel

- Description**
- Flush Mount Control Box
 - Ignition Switch with integrated alert panel;
 - Oil pressure / Overheat / PGM-FI / ACG



Application	Harness	Part Number	Comments
BF30DK2 ~ BF40DK4 ~ BF50DK4 ~ BF40E ~ BF60AK1 ~ BFP60AK1 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D ~ BF200D ~ BF225D ~ BF250D	5.0M	06250-ZZ5-U15HE	Right Hand Operation
	6.1M	06250-ZZ5-U16HE	
	7.6M	06250-ZZ5-U11HE	
	9.1M	06250-ZZ5-U19HE	
	5.0M	06255-ZZ5-U15HE	Left Hand Operation
	6.1M	06255-ZZ5-U16HE	
	7.6M	06255-ZZ5-U11HE	
	9.1M	06255-ZZ5-U19HE	

PRE RIGGING

Twin Top Mount Remote Control Box 4 x Alert light switch panel

- Description**
- Twin Top Mount Control Box
 - Ignition Switches with integrated alert panel;
 - Oil pressure / Overheat / PGM-FI / ACG



Application	Metres	Part Number	Comments
BF30DK2 ~ BF40DK4 ~ BF50DK4 ~ BF40E ~ BF60AK1 ~ BFP60AK1 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D ~ BF200D ~ BF225D ~ BF250D	6.1M	06250-ZZ5-U31HE	Reversible Hand Operation - Non Trolling
	7.6M	06250-ZZ5-U51HE	
	9.1M	06250-ZZ5-U91HE	
BF40DK4 ~ BF50DK4 ~ BF40E ~ BF60AK1 ~ BFP60AK1 ~ BF115DK1 ~ BF115J ~ BF135AK2 ~ BF135D ~ BF150AK2 ~ BF150D	6.1M	06250-ZZ5-T31HE	Reversible Hand Operation - Trolling
	7.6M	06250-ZZ5-T51HE	
	9.1M	06250-ZZ5-T91HE	

Tiller Handle Kit BF40D / BF50D

- Description**
- Key Start / PTT / Emergency Stop Switch
 - 4 Light Switch panel → Oil pressure / Overheat / PGM-FI / ACG
 - Gearshift Lever (F-N-R)
 - Throttle & Handle friction control
 - 3 step angle adjustment
 - Tiller Handle Friction damper

Application	Colour	Part Number
BF40DK4 ~ BF50DK4	NHB14M 2012>	06533-ZZ5-626ZB



Tiller Handle Kit BF60A / BFP60A

- Description**
- Key Start / PTT / Emergency Stop Switch
 - 4 Light Switch panel → Oil pressure / Overheat / PGM-FI / ACG
 - Gearshift Lever (F-N-R)
 - Throttle & Handle friction control
 - Trolling control switch
 - 3 step angle adjustment
 - Tiller Handle Friction damper

Application	Colour	Part Number
BF60AK1 ~ BFP60AK1	NH282MU > 2012	06533-ZZ3-A45ZA
BF60AK1 ~ BFP60AK1	NHB14M 2012>	06533-ZZ3-A45ZB



Rigging Hose Kit

- Description**
- 1.5M Black Hose → 50 mm inner Ø
 - 1 x Boat Fitting
 - Available also in 15M length - cut to required lengths

Application	Kit	Part Number
BF60A ~ BF250A	1.5M Black hose - 1 boat fitting	06177-ZZ3-U00HE
Black hose 15 meter	Extension hose 15 meter	06177-ZZ3-U10HE
Boat fitting X 1	Boat fitting	06177-ZZ3-U80HE



PRE RIGGING

Rigging Tube Kit

Kit Contains:	• Rigging tube - lower	Qty: 1
	• Rigging tube - upper	Qty: 1
	• Cable holder (stainless steel)	Qty: 1
	• Compression ring	Qty: 1
	• Rubber sheet protectors	Qty: 2

Application	Part Number
BF115D / BF135A / BF150A	40105-ZY6-010AH
BF200A / BF225A / BF250A	40105-ZY3-010



PRE RIGGING

RIGGING EXISTING ONBOARD NMEA 2000 NETWORK

NMEA 2000 Tachometer Kit

- Description**
- 1 x NMEA 2000 Tachometer
 - 1 x NMEA 2000 Instrument Harness
 - 1 x NMEA 2000 T Connector
- Note**
- These kits are specifically for applications where an existing NMEA 2000 CANbus network and Honda NMEA 2000 engine drop cable are already installed.



Application	Part Number	Colour
BF40 ~ BF250D NMEA 2000 compliant models	06326-ZX2-U04EU	Black
	06326-ZX2-T14EU	White

NMEA 2000 Tachometer & Speedometer Kits

- Description**
- 1 x NMEA 2000 Tachometer
 - 1 x NMEA 2000 Speedometer
 - 2 x NMEA 2000 Instrument Harness
 - 2 x NMEA 2000 T Connector
- Note**
- These kits are specifically for applications where an existing NMEA 2000 CANbus network and Honda NMEA 2000 engine drop cable are already installed.



Application	Colour	Part Number	Comment
BF40 ~ BF250D NMEA 2000 compliant models	Black	06375-ZX2-U44EU	40kts
	Black	06375-ZX2-U74EU	70kts
	White	06375-ZX2-T44EU	40kts
	White	06375-ZX2-T74EU	70kts

Speedometer Functions	
1	Primary Speed: Knots Secondary Speed: Kilometres (on LCD screen)
2	Speed over Water (Non GPS - Hull transducer) SOW
3	Speed over Ground (GPS device or antenna) SOG
4	Water Depth - metres
5	Water Temperature (External) celsius
6	ECOMO (Economy-Lean Burn Mode) Green LED
7	Warning Alerts: Oil level / Temperature / PGM-FI / Charging- Battery Red LED
8	Fuel Burn Rate
9	Fuel tank level
10	Total fuel used
11	Water tank level (White or Black water)
12	Steering angle (Rudder)
13	"Honda" appears on LCD screen on start up - 3 seconds

Tachometer Functions	
1	Engine RPM
2	Trim Angle: automatic pop up Screen) Graduated bar with trim percentage (Fuel burn rate also displayed to optimise engine position)
3	Engine Operating Hours
4	Fuel Burn Rate: litres per hour
5	Fuel Tank level
6	Battery Voltage
7	Warning Alerts: Oil level / Temperature / PGM-FI / Charging- Battery Red LED
8	ECOMO (Economy-Lean Burn Mode) Green LED
9	Water in Fuel / Emergency Stop / Maintenance Reminder Notification (no alert)
10	"Honda" appears on LCD screen on start up - 3 seconds

NO EXISTING ONBOARD NMEA 2000 NETWORK

NMEA 2000 Tachometer Kit

- Description**
- 1 x NMEA 2000 Tachometer
 - 1 x NMEA 2000 Instrument Harness
 - 1 x NMEA 2000 T Connector
 - 1 x NMEA 2000 Engine drop cable kit (6M inc T connector)

- Note**
- NMEA 2000 Network Starter Kit, part number 06329-ZZ3-U00HE, is required for installation of the NMEA 2000 Tachometer Kit

Application	Part Number	Colour
BF40 ~ BF250D NMEA compliant models	06375-ZX2-B00HE	Black
	06375-ZX2-A00HE	White



NMEA 2000 Tachometer & Speedometer Kits

- Description**
- 1 x NMEA 2000 Tachometer
 - 1 x NMEA 2000 Speedometer
 - 2 x NMEA 2000 Instrument Harness
 - 2 x NMEA 2000 T Connector
 - 1 x NMEA 2000 Engine drop cable kit (6M inc T connector)

- Note**
- NMEA 2000 Network Starter Kit, part number 06329-ZZ3-U00HE, is required for installation of the NMEA 2000 Tachometer & Speedometer Kits

Application	Part Number	Colour	Comment
BF40 ~ BF250D NMEA compliant models	06375-ZX2-B40HE	Black	40kts
	06375-ZX2-B70HE	Black	70kts
	06375-ZX2-A40HE	White	40kts
	06375-ZX2-A70HE	White	70kts



NMEA 2000 Network Starter Kit

- Description**
- 1 x NMEA 2000 Power lead
 - 1 x NMEA 2000 Tee Connector
 - 1 x NMEA 2000 Terminator (M)
 - 1 x NMEA 2000 Terminator (F)

- Note**
- This NMEA 2000 Network starter kit is required for applications where there is no existing NMEA 2000 CANbus network - required to provide power to gauge kits

Application	Part Number
BF40 ~ BF250D NMEA compliant models	06329-ZZ3-U00HE



PRE RIGGING

5 Gauge Kit

- Description**
- 5 Gauge kit
 - Tachometer
 - Speedometer
 - Trim Gauge
 - Fuel Gauge see note
 - Voltmeter
 - Instrument Harness (1.37 Metres)
 - Kit includes fittings & Pitot Tube

Note:

Fuel Sender	Empty	Full
EU Type	10 Ω	180 Ω
USA Type	240 Ω	33 Ω

Application	Part Number	Comments
BF40D ~ BF250D	06365-ZW5-02AHE	Black gauge kit inc EU Type Fuel Gauge
	06360-ZW5-02AHE	Black gauge kit inc US Type Fuel Gauge
	06365-ZW5-02BHE	White gauge kit inc EU Type Fuel Gauge
	06360-ZW5-02BHE	White gauge kit inc US Type Fuel Gauge
	06365-ZW5-023SK	Charcoal gauge kit inc EU Type Fuel Gauge
	06360-ZW5-023SK	Charcoal gauge kit inc US Type Fuel Gauge



2 Gauge Kit

- Description**
- Tachometer
 - Trim Meter
 - Instrument Harness
 - Kit includes fittings

Application	Part Number	Comments
BF40D ~ BF250D	06333-ZW5-02AHE	Black gauge kit
	06333-ZW5-02BHE	White gauge kit
	06333-ZW5-023SK	Charcoal gauge kit



Deluxe 2 Gauge Kits

- Description**
- Tachometer
 - Trim Meter
 - Instrument Harness
 - Kit includes fittings

Note:

- Suitable for use with Rudder Meter Kit (BF60A / BFP60)

Application	Part Number	Comments
BF40D ~ BF250D	06333-ZW5-000HE	Black gauge kit compatible with rudder meter
	06351-ZW5-00AHE	Black gauge kit incl. harness deluxe
	06351-ZW5-00BHE	White gauge kit incl. harness deluxe



DBW INSTALLATION GUIDE FOR BF115J - BF250D



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ENGINEERING FOR *Life*

HYDRAULIC CYLINDER MODEL
HYDRO350HP
CE ISO 15892
SERIAL NUMBER
YEAR OF PRODUCTION
MADE IN ITALY
MAXIMUM PRESSURE 1500 PSI (100 BAR)

PRE RIGGING

DBW RIGGING

Multi-Engine Numbering

The Drive by Wire system (DBW) uses two communication lines to control the engines. The main system is the Honda specific system (H-CAN) the other uses the NMEA2000 network. Please keep in mind the following requirements.

1. An NMEA2000 network must be fitted to the boat and comply with NMEA2000 regulations for the system to function
2. The DBW system cannot use analogue gauges
3. Each engine on the NMEA2000 network requires a different instance number assigned to it using Dr H. A single engine must have the number 0 instance. All engines are coded at the factory with instance number 0. When installing a single engine this instance number does not need to be changed. However, in multi engine installations the port engine must be instance 0 then working towards the starboard side the next engine fitted should be increased in number by 1. For example, in a triple installation the port engine would be 0 the center 1 the starboard 2. Please see page 46 and 47 for more information.

Push-Button Start and Power Trim/Tilt Panels

The connectors for the push-button start panel, power trim/tilt panel and main harness are labeled where multi-engine configurations are available. Panel harnesses are labeled with letters and the Control ECU harnesses are labeled with numbers. To correctly connect the panels to the correct engine, follow the instructions below and the rigging diagrams on the following pages.

Twin Engine

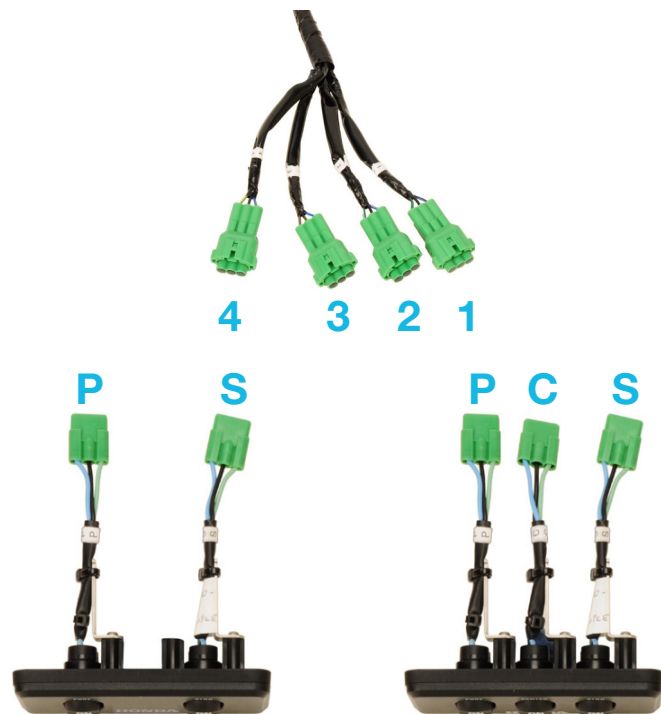
Port (P) connects to engine 1 connector.
Starboard (S) connects to engine 2 connector.

Triple-Engine

Port (P) connects to engine 1 connector.
Center (C) connects to engine 2 connector.
Starboard (S) connects to engine 3 connector.

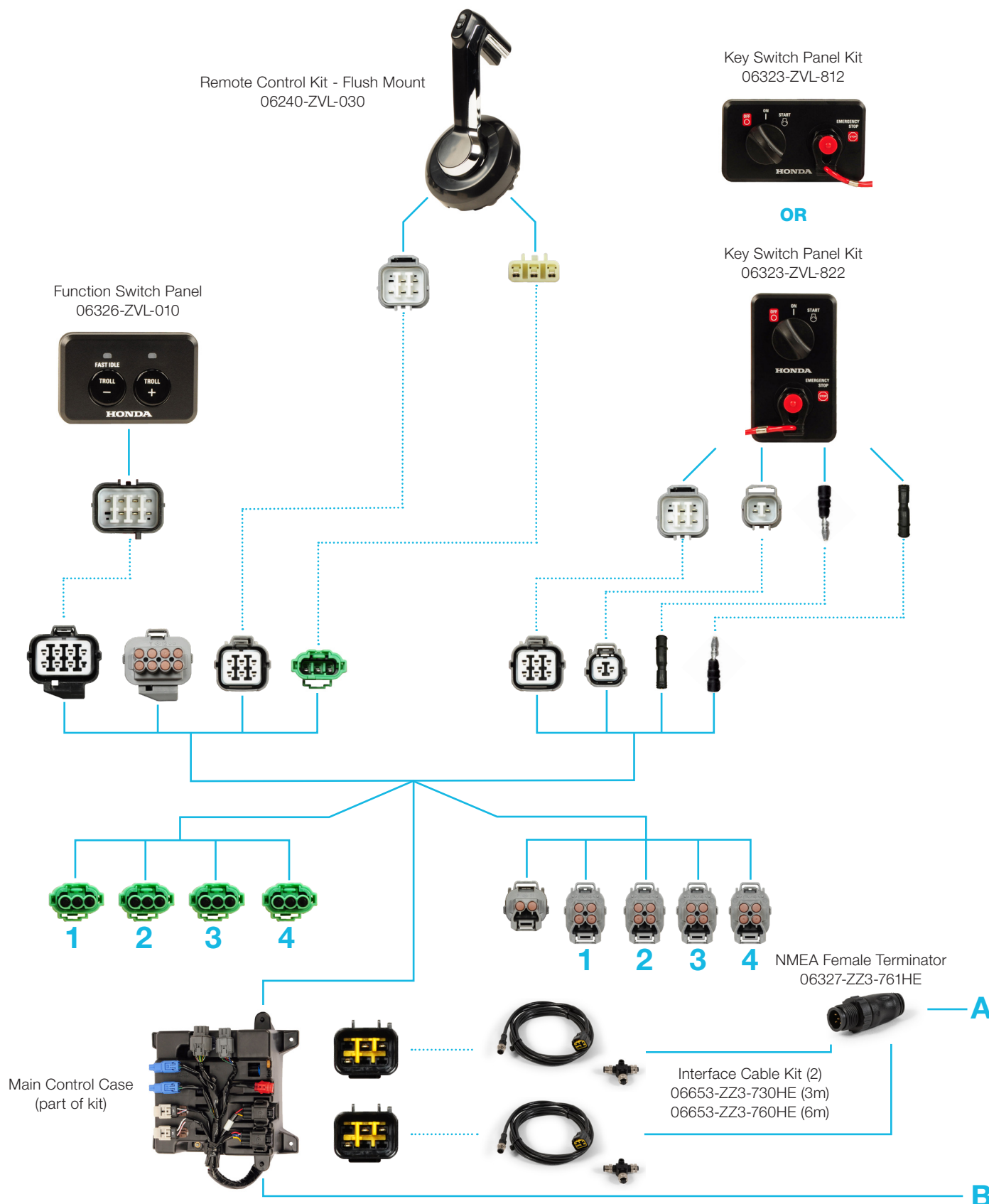
Quad-Engine

Port (P) on left panel connects to engine 1 connector.
Starboard (S) on left panel connects to engine 2 connector.
Port (P) on right panel connects to engine 3 connector.
Starboard (S) on right panel connects to engine 4 connector.



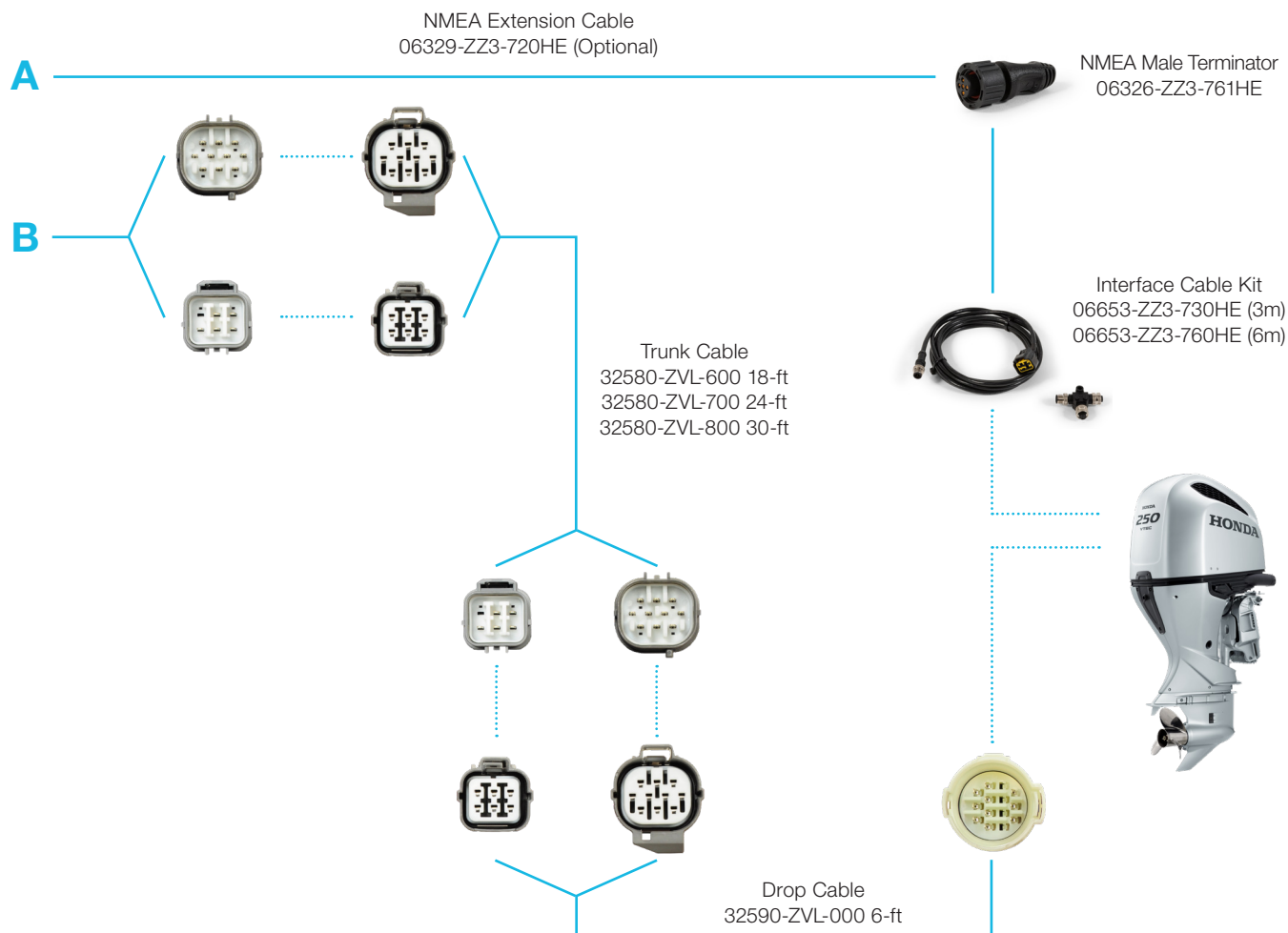
PRE RIGGING

Single Engine, Flush-Mount Control



PRE RIGGING

Single Engine, Flush-Mount Control



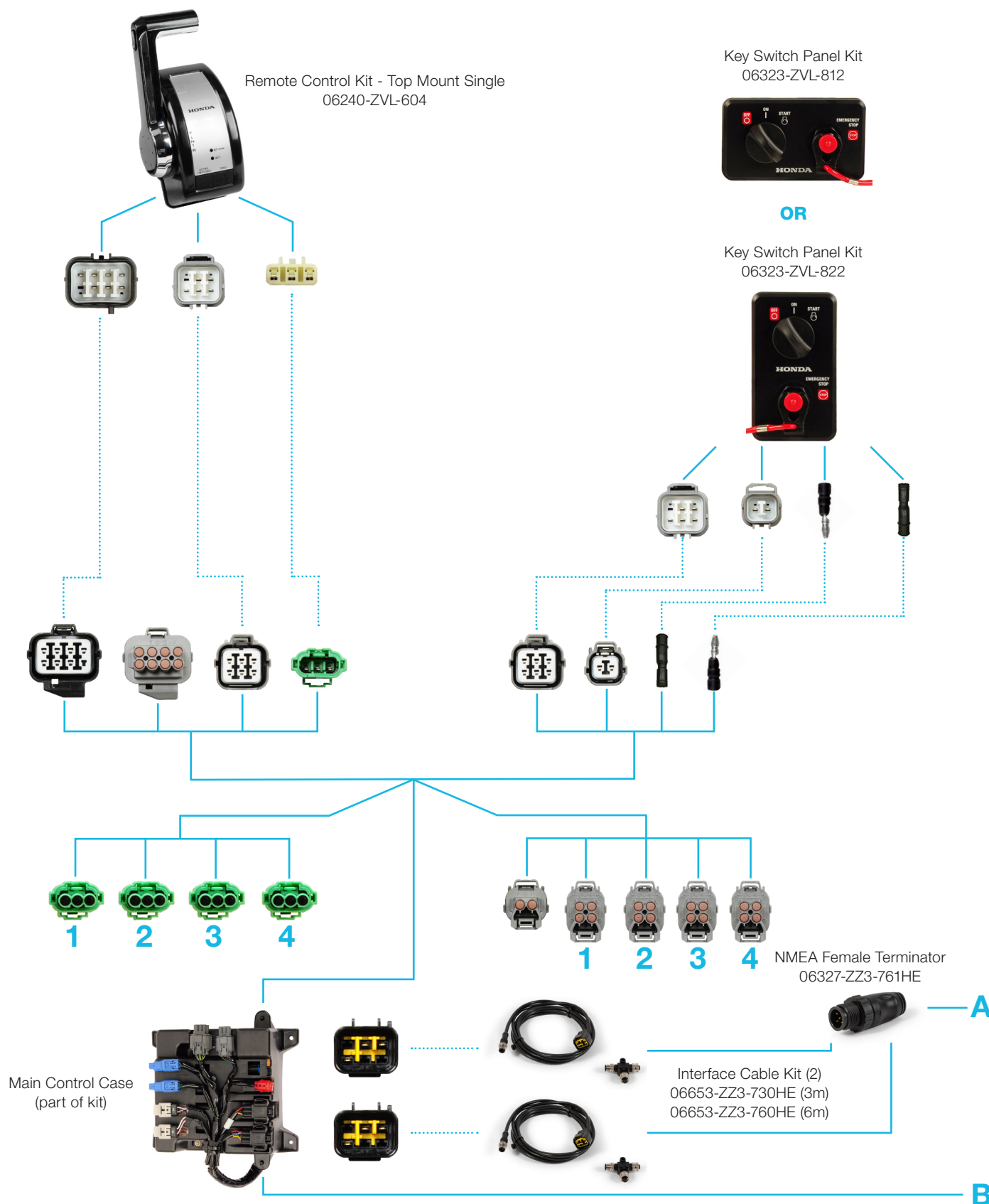
Single Engine, Flush-Mount Control

Description	Remarks	Part Number	Quantity Required
Cable Assy, Interface - SELECT LENGTH	3M NMEA2000 Control Unit Cable	06653-ZZ3-730HE	2
	6M NMEA2000 Control Unit Cable	06653-ZZ3-760HE	
Cable Assy, Network - SELECT LENGTH	3M NMEA2000 Engine Cable	06653-ZZ3-730HE	1
	6M NMEA2000 Engine Cable	06653-ZZ3-760HE	
Cable Assy, Trunk DBW - SELECT LENGTH	18FT Engine Control Cable	32580-ZVL-600	1
	24FT Engine Control Cable	32580-ZVL-700	
	30FT Engine Control Cable	32580-ZVL-800	
Cable Assy Engine Drop Single (6FT)	6FT Drop Cable for Single Engine Installation	32590-ZVL-000	1
T-Connector	NMEA2000 T-Connector for Display	06325-ZZ3-760HE	1
Terminator Connectors	NMEA2000 Terminator Male	06326-ZZ3-761HE	1
	NMEA2000 Terminator Female	06327-ZZ3-761HE	
Box Kit, Remote Control (Flush Mount)	Flush Mount R/C	06240-ZVL-030	1
Panel Kit, Key Switch (Start) - SELECT TYPE	Single, Horizontal (ON-OFF-START)	06323-ZVL-812	1
	Single, Vertical (ON-OFF-START)	06323-ZVL-822	
Panel Kit, Function Switch	Required for Flush Mount R/C box Only	06326-ZVL-010	1
Display Kit	Display Kit, Cover, Fitting Kit	06371-ZY6-040	1
Cable For Display Kit - SELECT LENGTH	NMEA2000 Extension 0.3M	06329-ZZ3-703HE	1
	NMEA2000 Extension 2M	06329-ZZ3-720HE	

Refer to the NMEA2000 standards for correct connection of the display to the NMEA network.

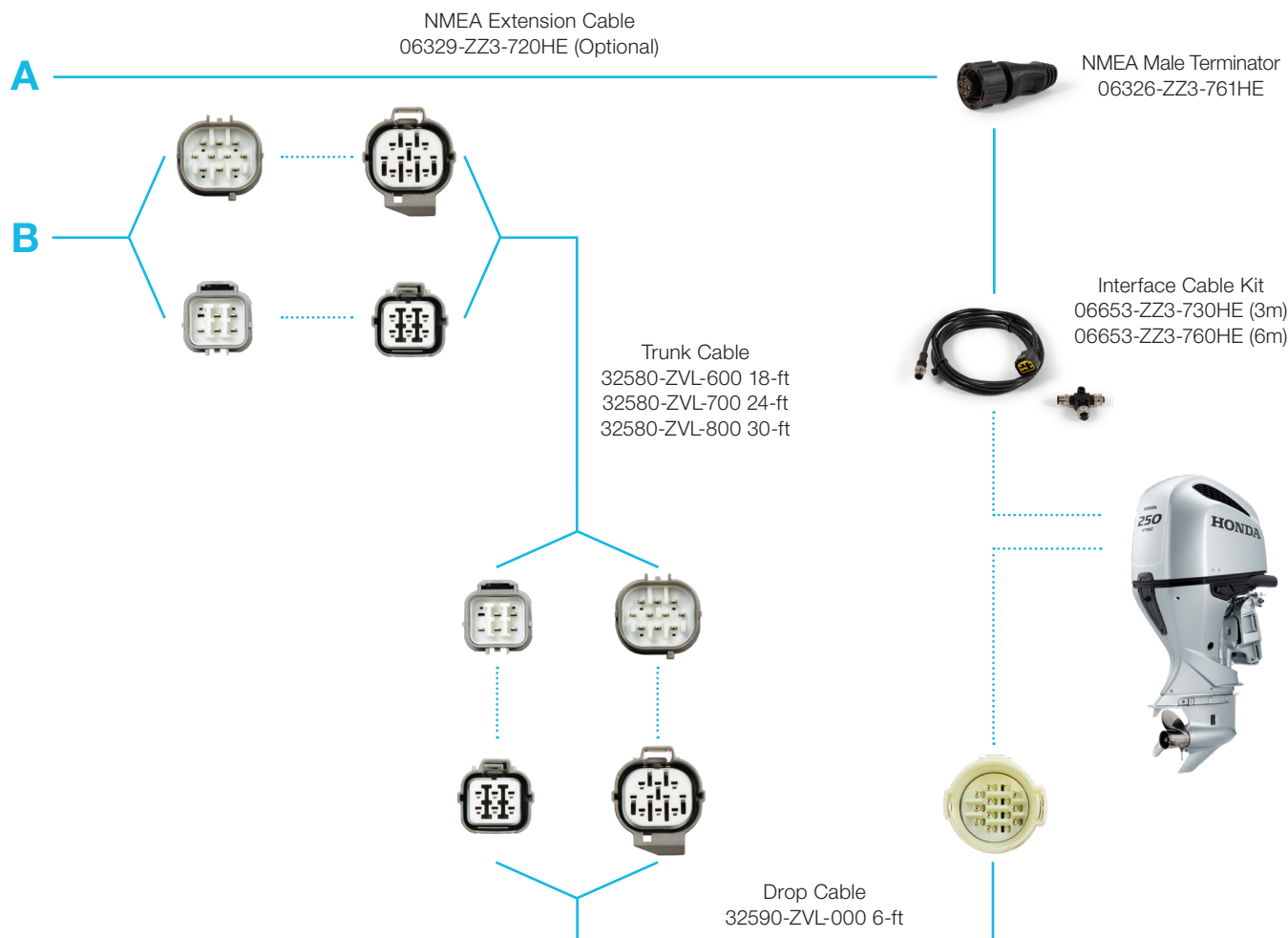
PRE RIGGING

Single Engine, Top-Mount Control



PRE RIGGING

Single Engine, Top-Mount Control



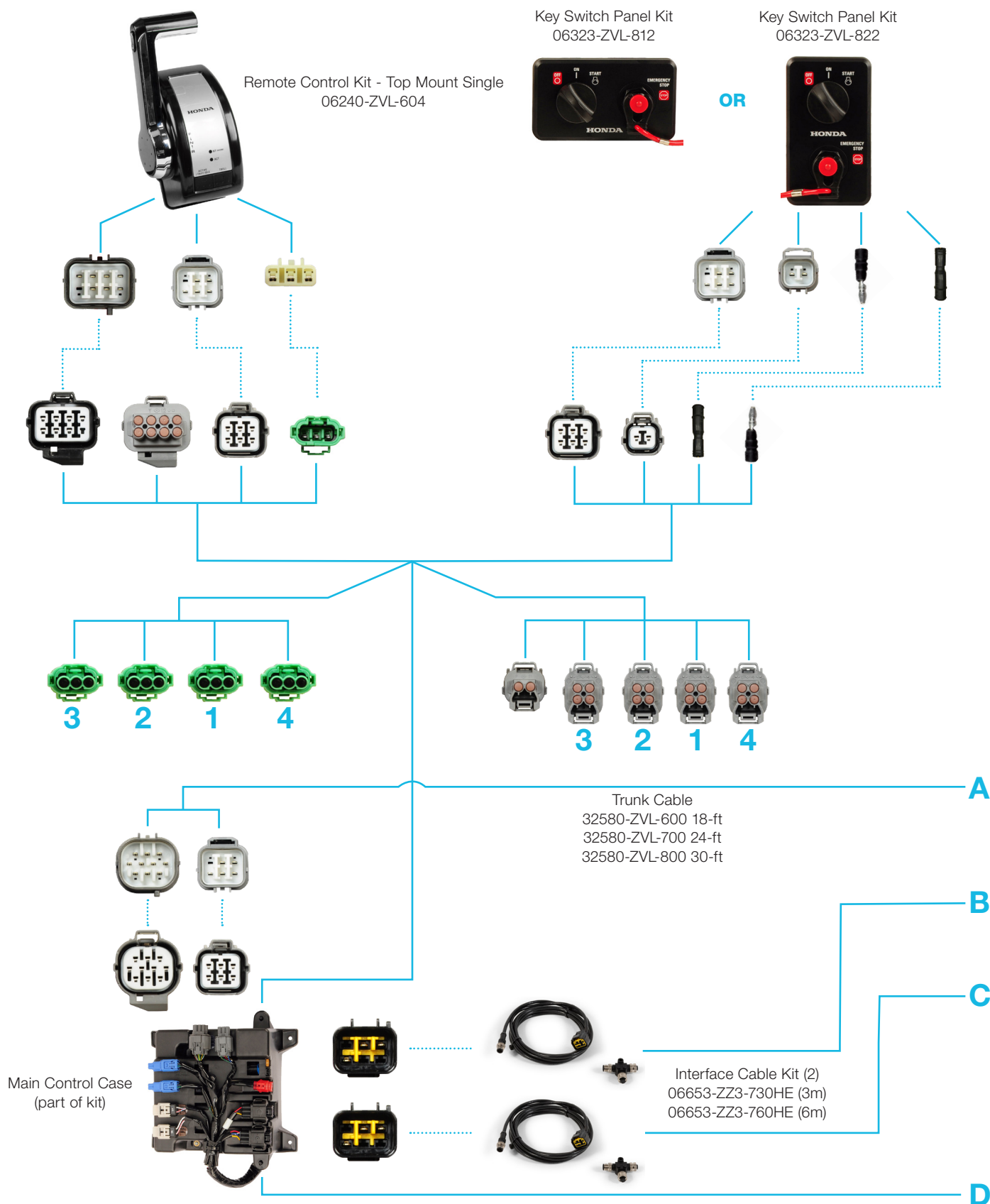
Single Engine, Top-Mount Control

Description	Remarks	Part Number	Quantity Required
Cable Assy, Interface - SELECT LENGTH	3M NMEA2000 Control Unit Cable	06653-ZZ3-730HE	2
	6M NMEA2000 Control Unit Cable	06653-ZZ3-760HE	
Cable Assy, Network - SELECT LENGTH	3M NMEA2000 Engine Cable	06653-ZZ3-730HE	1
	6M NMEA2000 Engine Cable	06653-ZZ3-760HE	
Cable Assy, Trunk DBW - SELECT LENGTH	18FT Engine Control Cable	32580-ZVL-600	1
	24FT Engine Control Cable	32580-ZVL-700	
	30FT Engine Control Cable	32580-ZVL-800	
Cable Assy Engine Drop Single (6FT)	6FT Drop Cable for Single Engine Installation	32590-ZVL-000	1
T-Connector	NMEA2000 T-Connector for Display	06325-ZZ3-760HE	1
Terminator Connectors	NMEA2000 Terminator Male	06326-ZZ3-761HE	1
	NMEA2000 Terminator Female	06327-ZZ3-761HE	
Box Kit, Remote Control (Top Mount Single)	Top Mount R/C	06240-ZVL-604	1
Panel Kit, Key Switch (Start) - SELECT TYPE	Single, Horizontal (ON-OFF-START)	06323-ZVL-812	1
	Single, Vertical (ON-OFF-START)	06323-ZVL-822	
Display Kit	Display Kit, Cover, Fitting Kit	06371-ZY6-040	1
Cable For Display Kit - SELECT LENGTH	NMEA2000 Extension 0.3M	06329-ZZ3-703HE	1
	NMEA2000 Extension 2M	06329-ZZ3-720HE	

Refer to the NMEA2000 standards for correct connection of the display to the NMEA network.

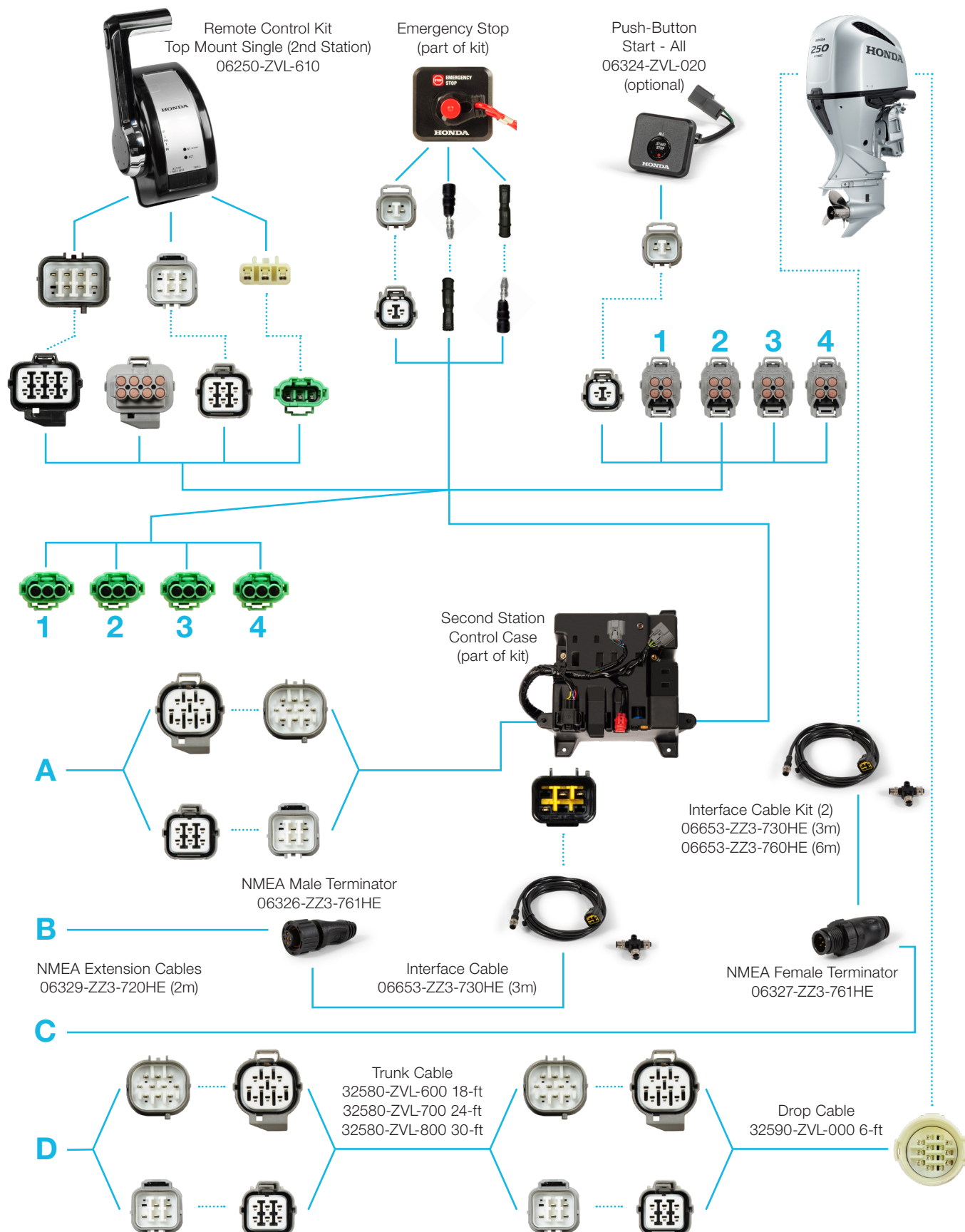
PRE RIGGING

Single Engine, Top-Mount Control With Second Station



PRE RIGGING

Single Engine, Top-Mount Control With Second Station



PRE RIGGING

Single Engine, Top-Mount Control With Second Station

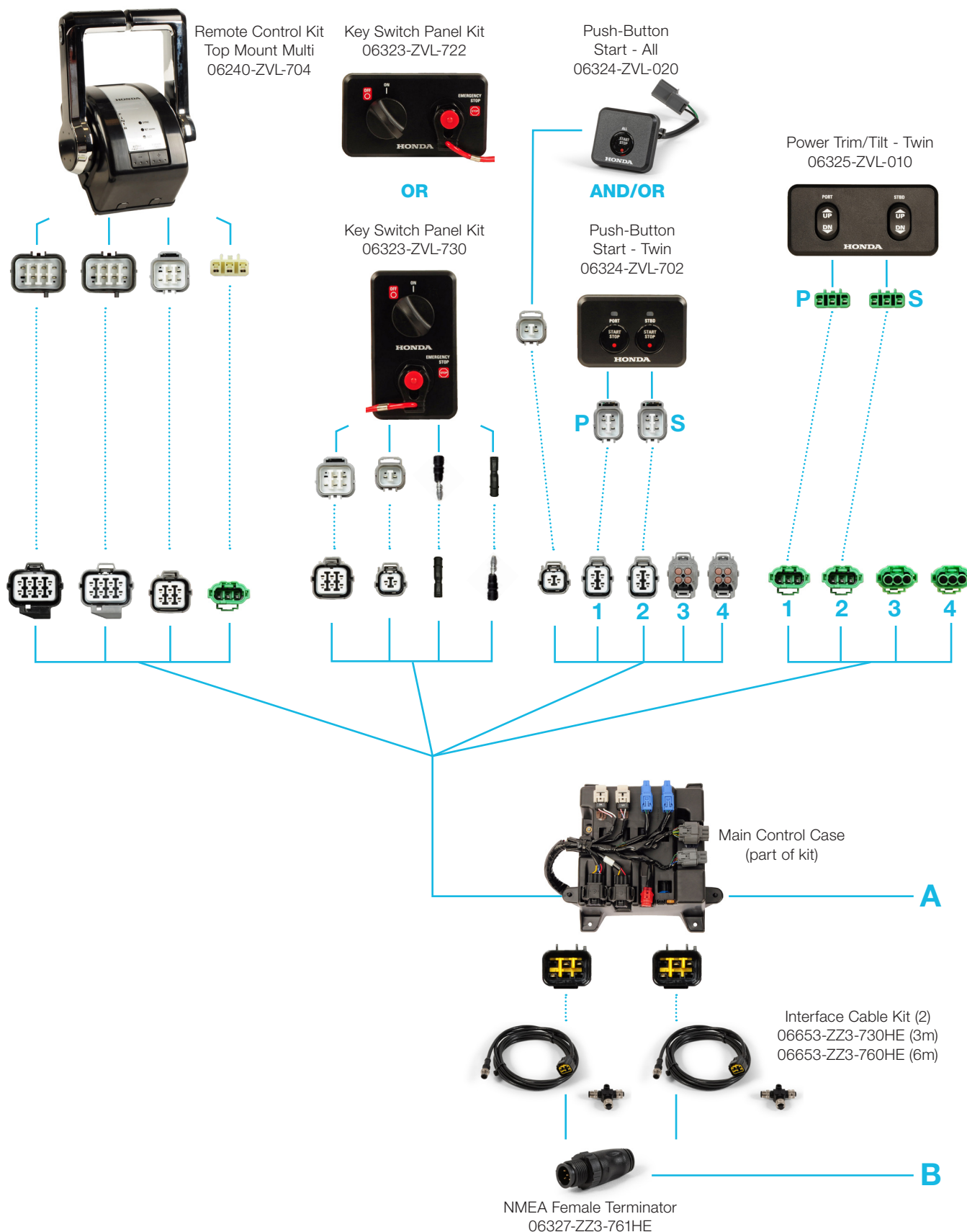
Components required in addition to Single Engine Top Mount Control

Description	Remarks	Part Number	Quantity Required
Cable Assy, Network - SELECT LENGTH	3M NMEA2000 Engine Cable	06653-ZZ3-730HE	1
	6M NMEA2000 Engine Cable	06653-ZZ3-760HE	
Cable Assy, Trunk DBW - SELECT LENGTH	18FT Engine Control Cable	32580-ZVL-600	1
	24FT Engine Control Cable	32580-ZVL-700	
	30FT Engine Control Cable	32580-ZVL-800	
Panel Kit, Start Stop Switch (All)	Push Start All Engines	06324-ZVL-020	1
Box Kit, Remote Control (Top Mount Single) (2ND)	Top Mount R/C 2 nd Station	06250-ZVL-610	1
Network Cable Extention	2M NMEA2000 Extension Cable	06329-ZZ3-720HE	2

Refer to the NMEA2000 standards for correct connection of the display to the NMEA network.

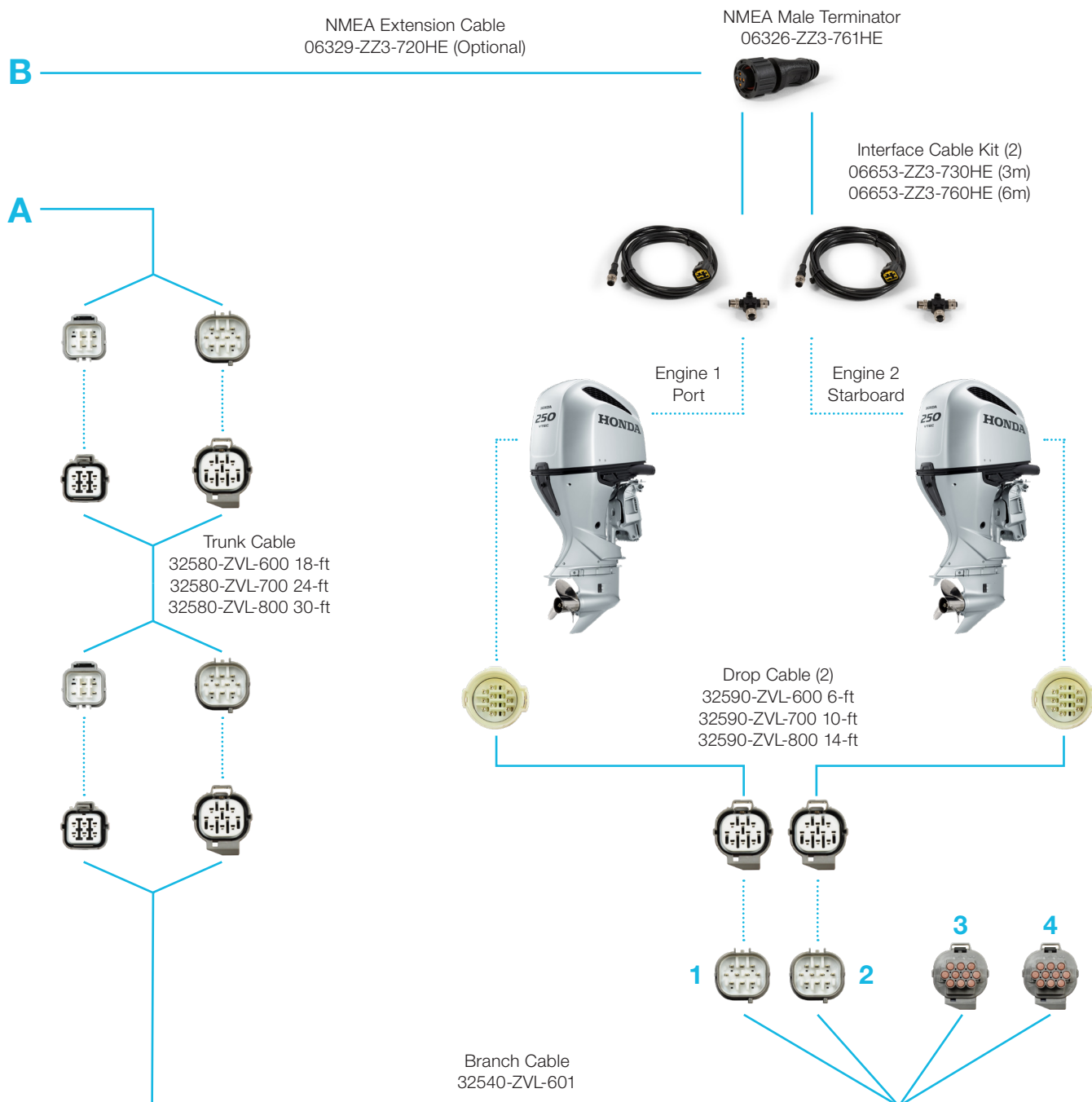
PRE RIGGING

Twin Engine, Top-Mount Control



PRE RIGGING

Twin Engine, Top-Mount Control



PRE RIGGING

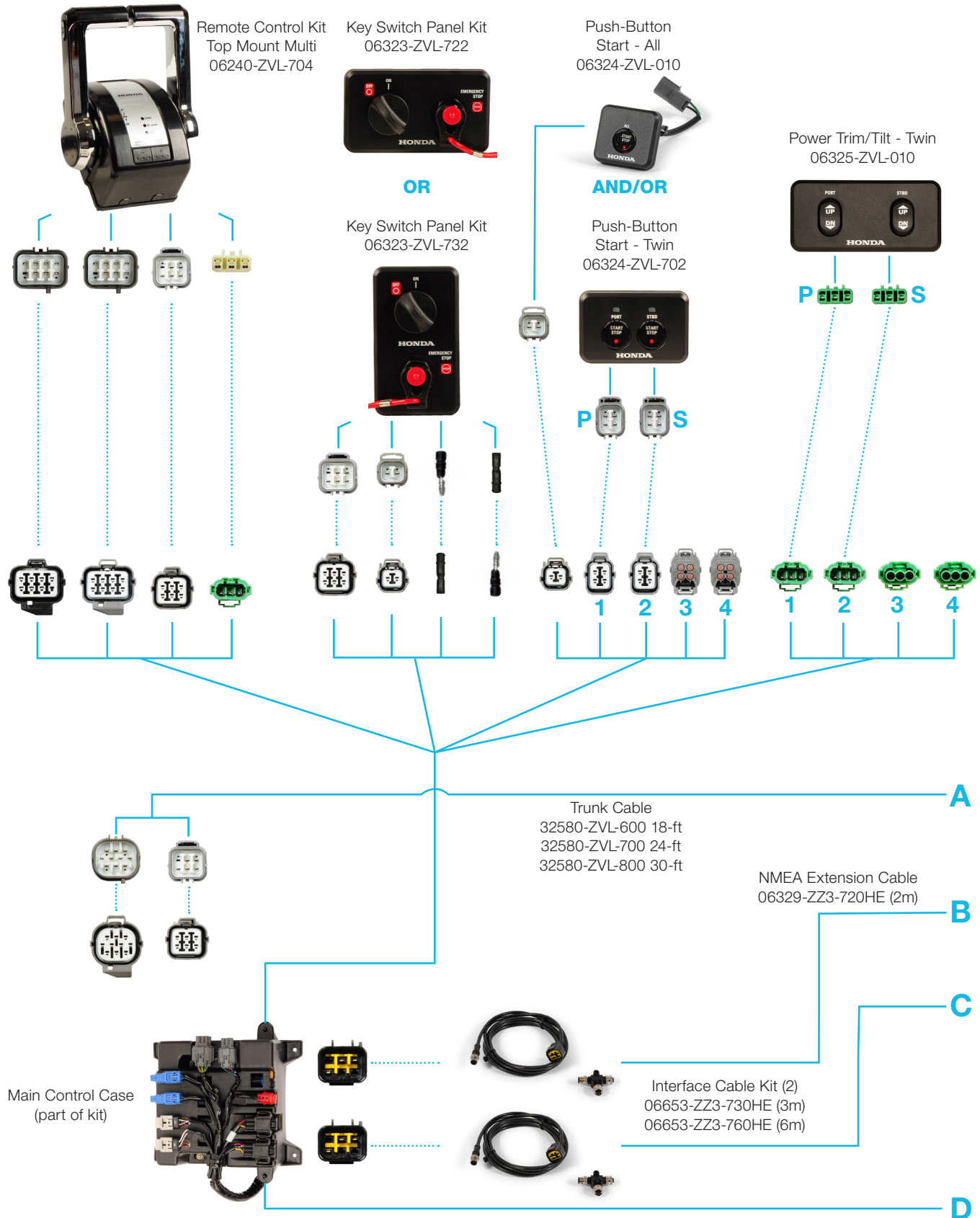
Twin Engine, Top-Mount Control

Description	Remarks	Part Number	Quantity Required
Cable Assy, Interface - SELECT LENGTH	3M NMEA2000 Control Unit Cable	06653-ZZ3-730HE	2
	6M NMEA2000 Control Unit Cable	06653-ZZ3-760HE	
Cable Assy, Network - SELECT LENGTH	3M NMEA2000 Engine Cable	06653-ZZ3-730HE	2
	6M NMEA2000 Engine Cable	06653-ZZ3-760HE	
Cable Assy, Trunk DBW - SELECT LENGTH	18FT Engine Control Cable	32580-ZVL-600	1
	24FT Engine Control Cable	32580-ZVL-700	
	30FT Engine Control Cable	32580-ZVL-800	
Drop Cable - SELECT LENGTH	6FT Drop Cable for Multi Engine Installation	32590-ZVL-600	2
	10FT Drop Cable for Multi Engine Installation	32590-ZVL-700	
	14FT Drop Cable for Multi Engine Installation	32590-ZVL-800	
Cable Assy, Branch	Branch Cable for Multiple Engine Installation	32540-ZVL-601	1
Panel Kit, Key Switch (Start) - SELECT TYPE	Single, Horizontal (ON-OFF)	06323-ZVL-722	1
	Single, Vertical (ON-OFF)	06323-ZVL-732	
Box Kit, Remote Control (Top Mount Dual) (Main)	Top Mount R/C (Dual)	06240-ZVL-704	1
Panel Kit, Start Stop Switch (All)	Multiple Installation, Push Start All Engines	06324-ZVL-020	1
Panel Kit, Start Stop Switch (Twin)	Twin Installation, Push Start Engines Separately	06324-ZVL-702	1
Panel Kit, Power Trim Tilt Switch (Twin)	Twin Installation, Operate PTT's Separately	06325-ZVL-010	1
Dummy Water Proof Connector	For Multiple Installation H-CAN Termination	32108-ZVL-003	1
T-Connector	NMEA2000 T-Connector for Display	06325-ZZ3-760HE	1
Terminator Connectors	NMEA2000 Terminator Male	06326-ZZ3-761HE	1
	NMEA2000 Terminator Female	06327-ZZ3-761HE	
Display Kit	Display Kit, Cover, Fitting Kit	06371-ZY6-040	1
Cable For Display Kit - SELECT LENGTH	NMEA2000 Extension 0.3M	06329-ZZ3-703HE	1
	NMEA2000 Extension 2M	06329-ZZ3-720HE	1

Refer to the NMEA2000 standards for correct connection of the display to the NMEA network.

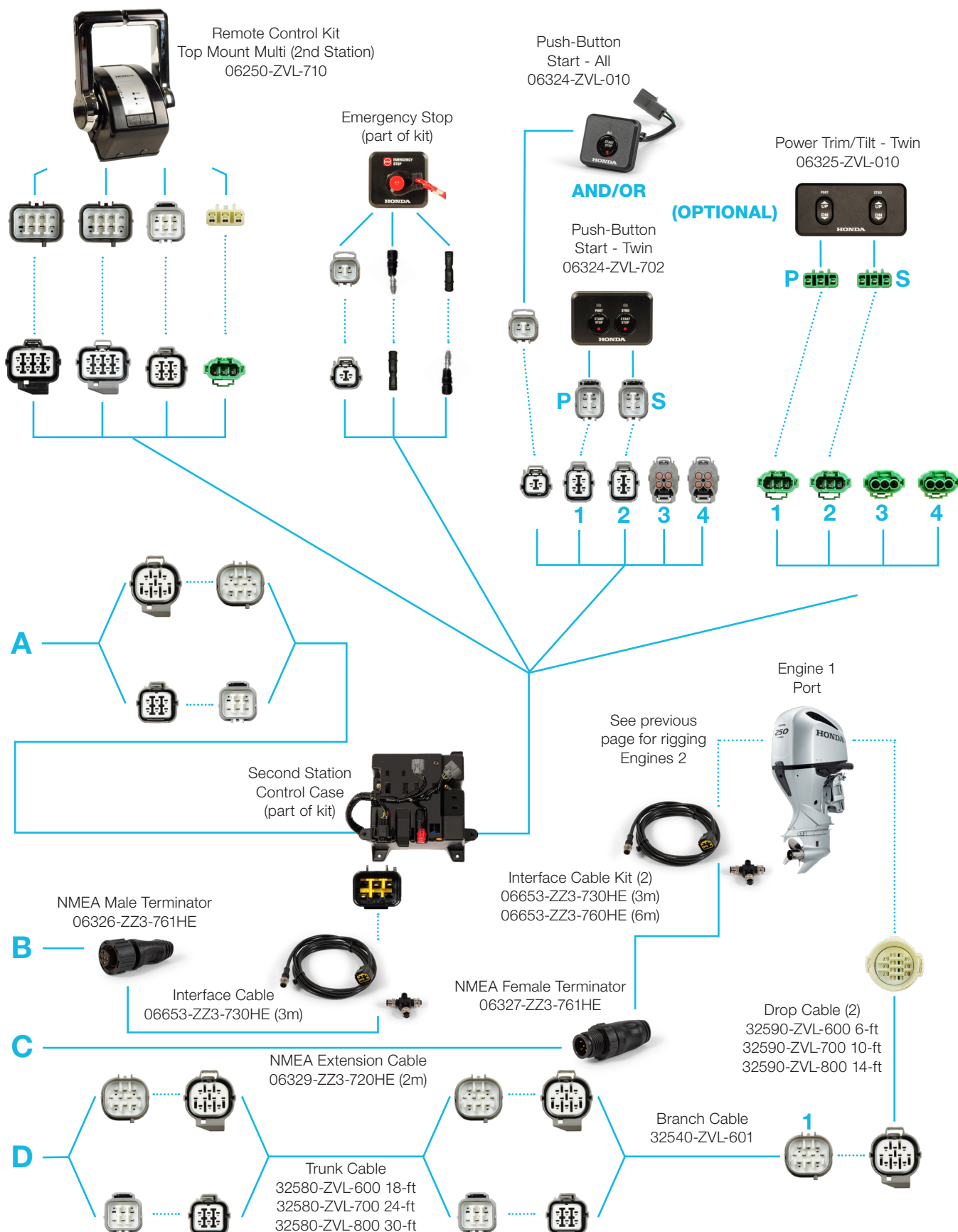
PRE RIGGING

Twin Engine, Top-Mount Control With Second Station



PRE RIGGING

Twin Engine, Top-Mount Control With Second Station



PRE RIGGING

Twin Engine, Top-Mount Control With Second Station

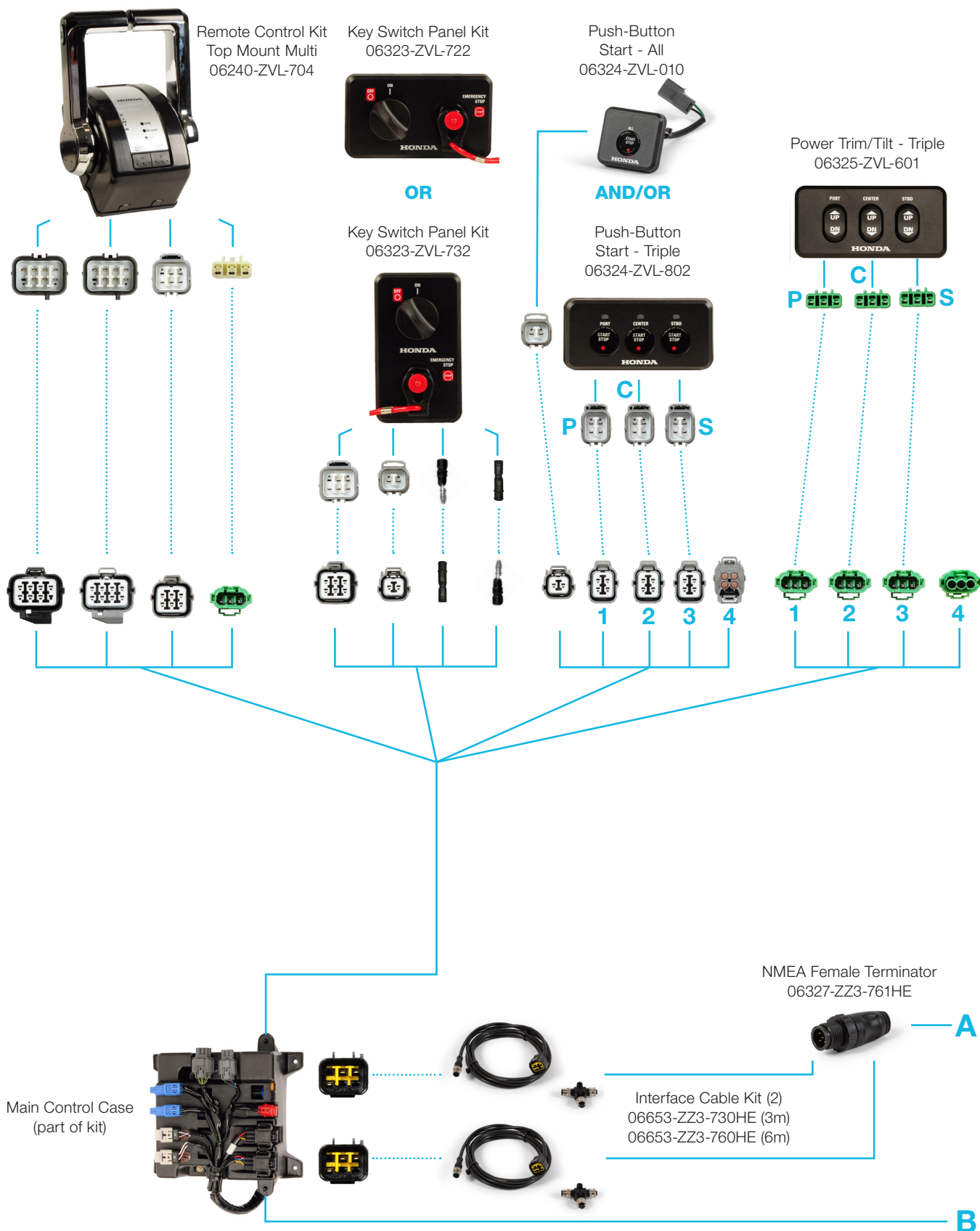
Components required in addition to Twin Engine Top Mount Control

Description	Remarks	Part Number	Quantity Required
Cable Assy, Network - SELECT LENGTH	3M NMEA2000 Engine Cable	06653-ZZ3-730HE	1
	6M NMEA2000 Engine Cable	06653-ZZ3-760HE	
Cable Assy, Trunk DBW - SELECT LENGTH	18FT Engine Control Cable	32580-ZVL-600	1
	24FT Engine Control Cable	32580-ZVL-700	
	30FT Engine Control Cable	32580-ZVL-800	
Panel Kit, Start Stop Switch (All)	Push Start All Engines	06324-ZVL-010	1
Box Kit, Remote Control (Mount Dual) (2ND)	Top Mount R/C 2 nd Station	06250-ZVL-710	1
Network Cable Extension	2m NMEA2000 Extension Cable	06329-ZZ3-720HE	2

Refer to the NMEA2000 standards for correct connection of the display to the NMEA network.

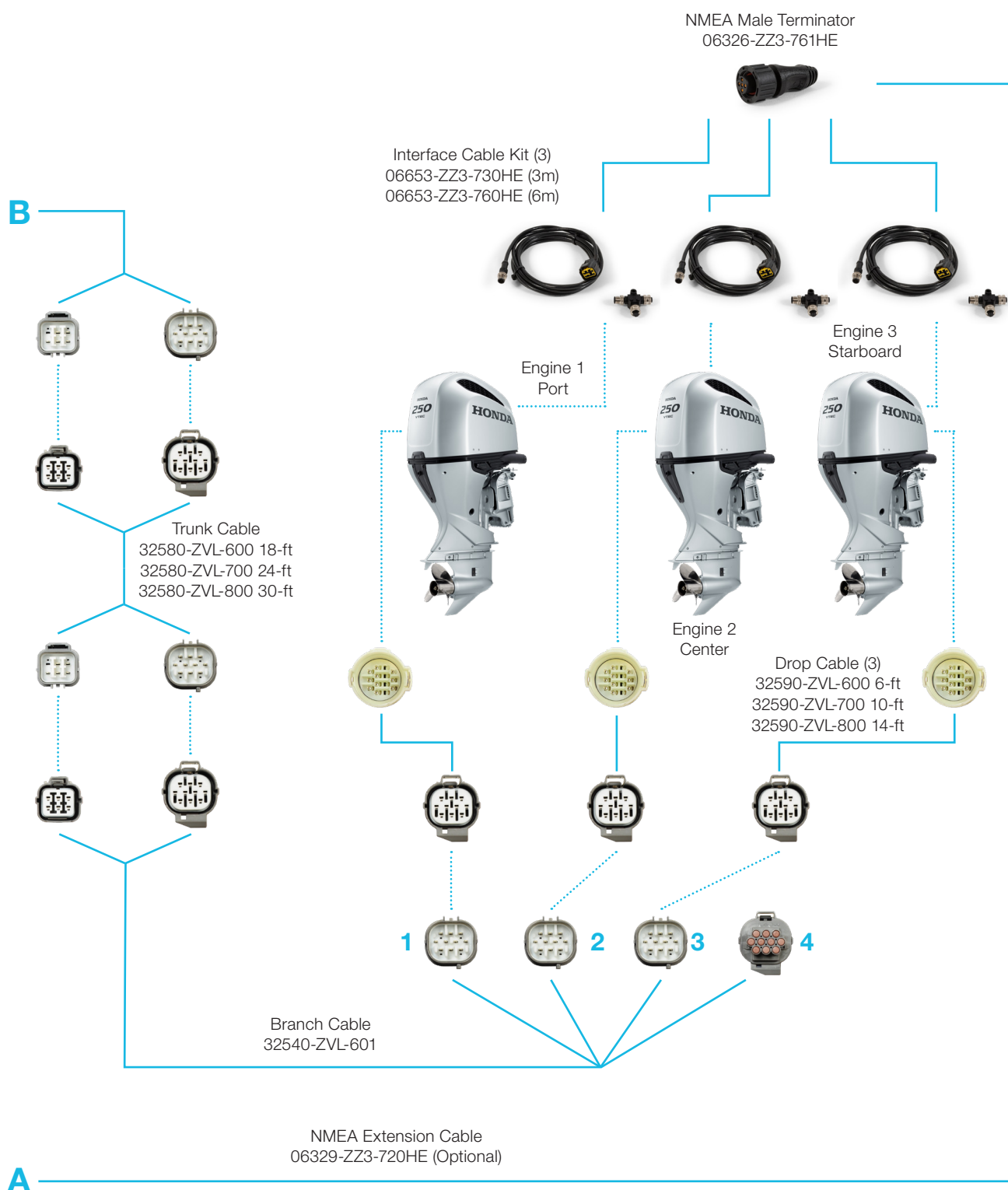
PRE RIGGING

Triple Engine, Top-Mount Control



PRE RIGGING

Triple Engine, Top-Mount Control



PRE RIGGING

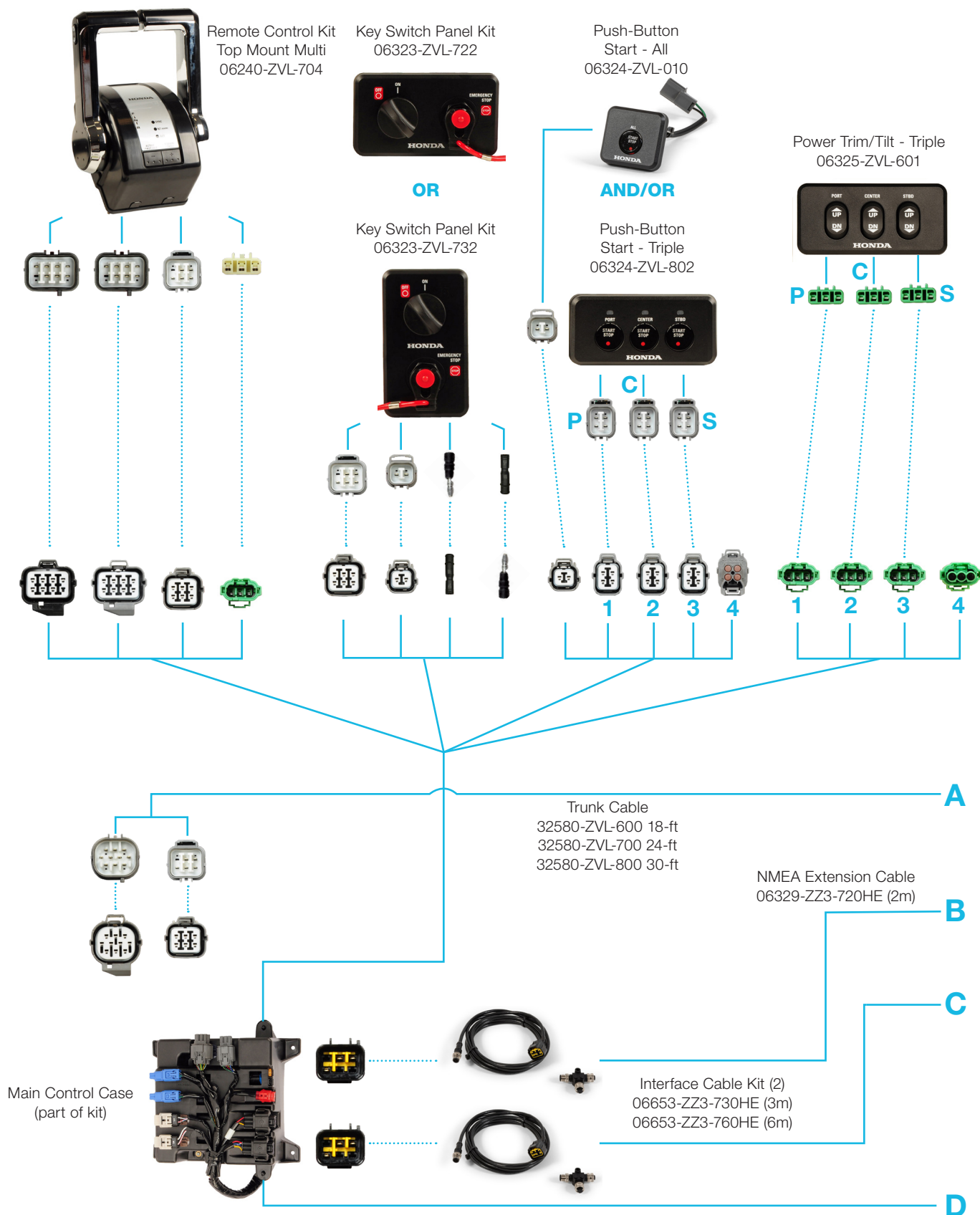
Triple Engine, Top-Mount Control

Description	Remarks	Part Number	Quantity Required
Cable Assy, Interface - SELECT LENGTH	3M NMEA2000 Control Unit Cable	06653-ZZ3-730HE	2
	6M NMEA2000 Control Unit Cable	06653-ZZ3-760HE	
	3M NMEA2000 Engine Cable	06653-ZZ3-730HE	3
	6M NMEA2000 Engine Cable	06653-ZZ3-760HE	
Cable Assy, Trunk DBW - SELECT LENGTH	18FT Engine Control Cable	32580-ZVL-600	1
	24FT Engine Control Cable	32580-ZVL-700	
	30FT Engine Control Cable	32580-ZVL-800	
Drop Cable - SELECT LENGTH	6FT Drop Cable for Multi Engine Installation	32590-ZVL-600	3
	10FT Drop Cable for Multi Engine Installation	32590-ZVL-700	
	14FT Drop Cable for Multi Engine Installation	32590-ZVL-800	
Cable Assy, Branch	Branch Cable for Multiple Engine Installation	32540-ZVL-601	1
Panel Kit, Key Switch (Start) - SELECT TYPE	Single, Horizontal (ON-OFF)	06323-ZVL-722	1
	Single, Vertical (ON-OFF)	06323-ZVL-732	
Box Kit, Remote Control (Top Mount Dual) (MAIN)	Top Mount R/C (Dual)	06240-ZVL-704	1
Panel Kit, Start Stop Switch (All)	Multiple Installation, Push Start All Engines	06324-ZVL-010	1
Panel Kit, Start Stop Switch (Triple)	Triple Installation, Push Start Engines Separately	06324-ZVL-802	1
Panel Kit, Power Trim Tilt Switch (Triple)	Triple Installation, Operate PTT's Separately	06325-ZVL-601	1
Dummy Water Proof Connector	For Multiple Installation H-CAN Termination	32108-ZVL-003	2
T-Connector	NMEA2000 T-Connector for Display	06325-ZZ3-760HE	1
Terminator Connectors	NMEA2000 Terminator Male	06326-ZZ3-761HE	1
	NMEA2000 Terminator Female	06327-ZZ3-761HE	
Display Kit	Display Kit, Cover, Fitting Kit	06371-ZY6-040	1
Cable For Display Kit - SELECT LENGTH	NMEA2000 Extension 0.3M	06329-ZZ3-703HE	1
	NMEA2000 Extension 2M	06329-ZZ3-720HE	1

Refer to the NMEA2000 standards for correct connection of the display to the NMEA network.

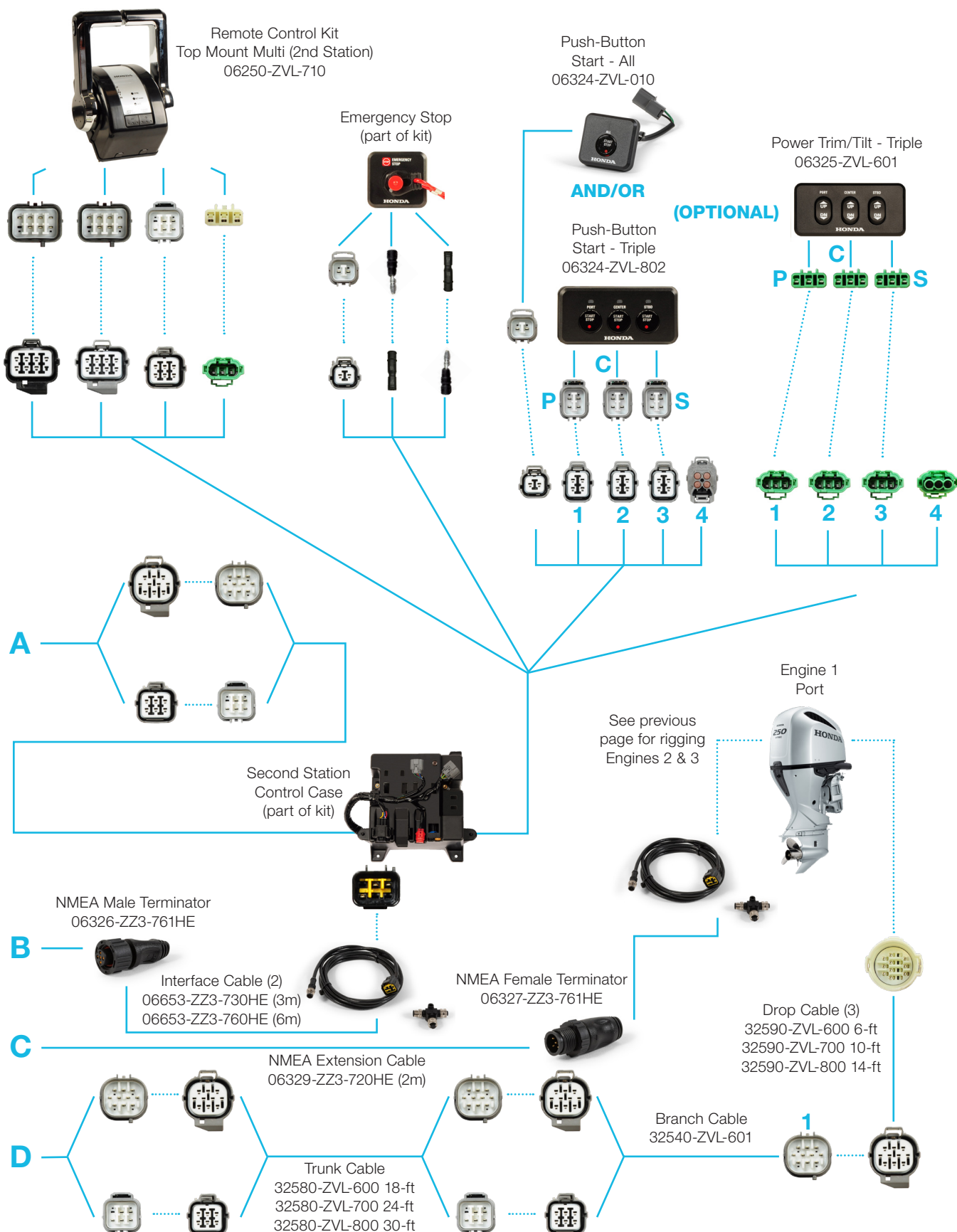
PRE RIGGING

Triple Engine, Top-Mount Control With Second Station



PRE RIGGING

Triple Engine, Top-Mount Control With Second Station



PRE RIGGING

Triple Engine, Top-Mount Control With Second Station

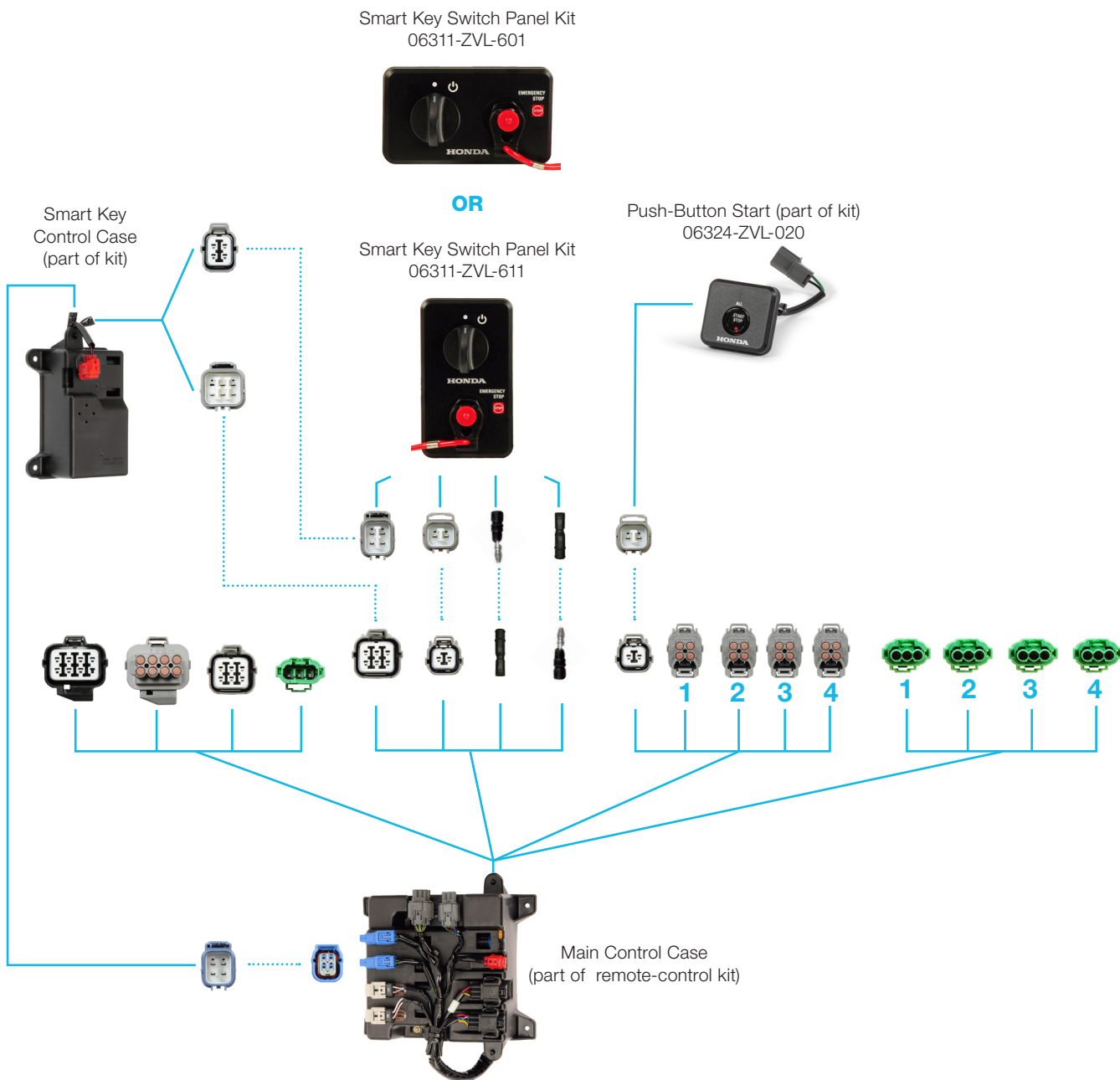
Components required in addition to Twin Engine Top Mount Control

Description	Remarks	Part Number	Quantity Required
Cable Assy, Network - SELECT LENGTH	3M NMEA2000 Engine Cable	06653-ZZ3-730HE	1
	6M NMEA2000 Engine Cable	06653-ZZ3-760HE	
Cable Assy, Trunk DBW - SELECT LENGTH	18FT Engine Control Cable	32580-ZVL-601	1
	24FT Engine Control Cable	32580-ZVL-700	
	30FT Engine Control Cable	32580-ZVL-800	
Panel Kit, Start Stop Switch (All)	Push Start All Engines	06324-ZVL-000	1
Box Kit, Remote Control (Top Mount Dual) (2ND)	Top Mount R/C 2 nd Station	06250-ZVL-710	1
Network Cable Extension	2m NMEA2000 Extension Cable	06329-ZZ3-720HE	2

Refer to the NMEA2000 standards for correct connection of the display to the NMEA network.

PRE RIGGING

Smart Key Installation (DBW engine only)



Description	Remarks	Part Number	Quantity Required
Panel Kit, Key Switch (Start) - SELECT TYPE	Single, Horizontal (ON-OFF)	06311-ZVL-601	1
	Single, Vertical (ON-OFF)	06311-ZVL-611	

Key Switch Start & Stop



06323-ZVL-812
For DBW type Single ENG



06323-ZVL-722
For DBW type Twin or more ENG



06323-ZVL-822
For DBW type Single ENG



06323-ZVL-730
For DBW type Twin or more ENG

PRE RIGGING

Smart Key Switch, Start/Stop & PTT Switches



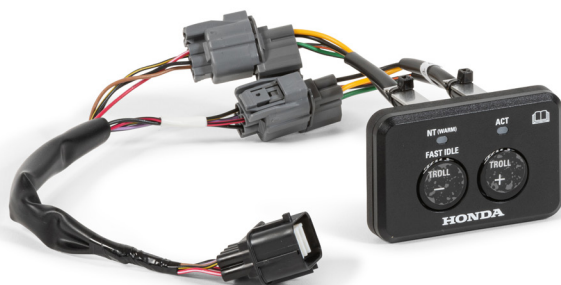
06311-ZVL-601
For Smart Key
Included in Smart Key Kit



06311-ZVL-611
For Smart Key
Included in Smart Key Kit



06324-ZVL-020
Start/Stop push button
For Smart Key System



06326-ZVL-010
Function Panel for Flush type
R/C box



06325-ZVL-010
PTT SW for Twin Eng



06324-ZVL-020
Start/Stop push button



06324-ZVL-702
Start/Stop push button



06325-ZVL-601
PTT SW for Triple Eng

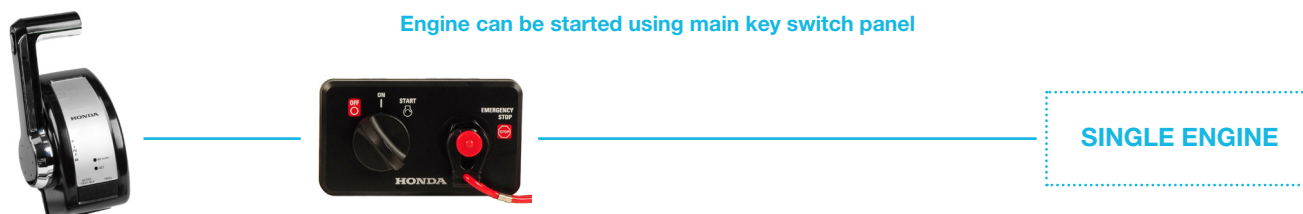


06324-ZVL-802
Start/Stop push button

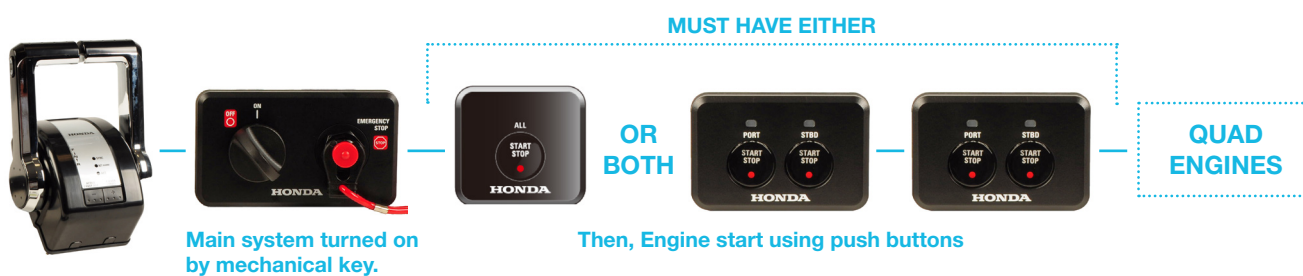
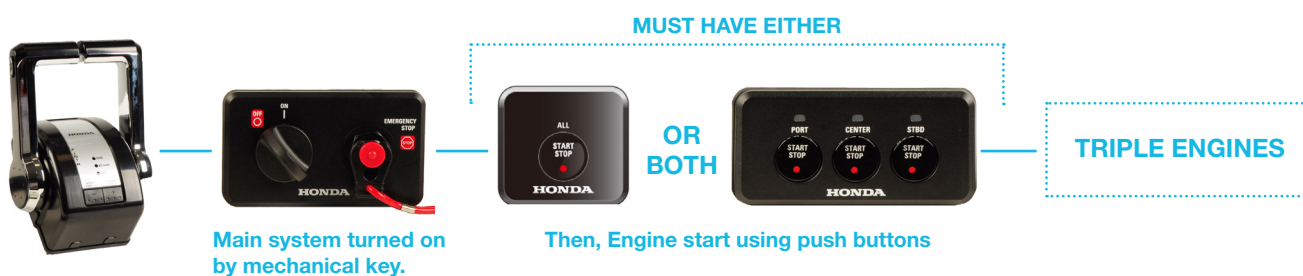
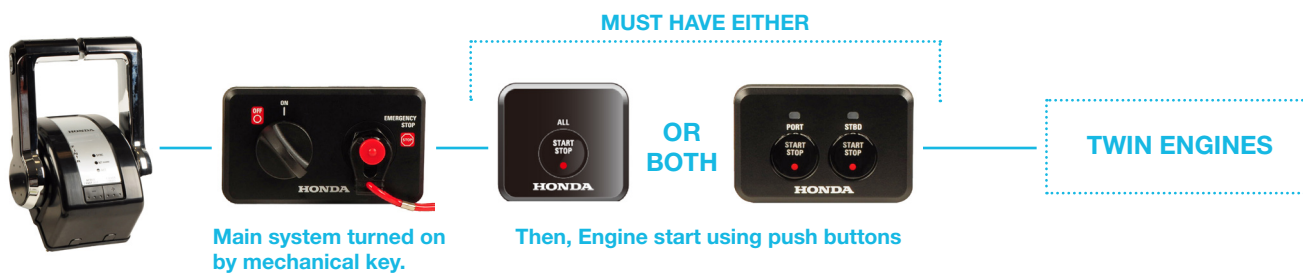
PRE RIGGING

Engine Start & Stop Switches

Single ENG Installation



Multi ENG Installation



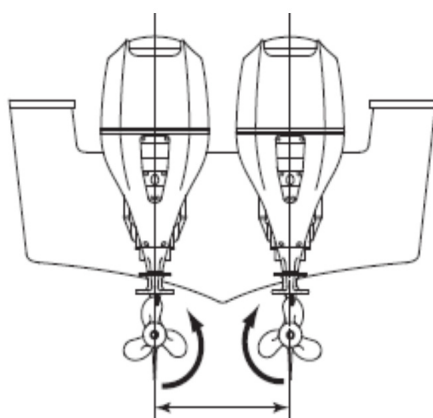
PRE RIGGING

Twin Engine Set-up

Minimum Engine Centre Distance

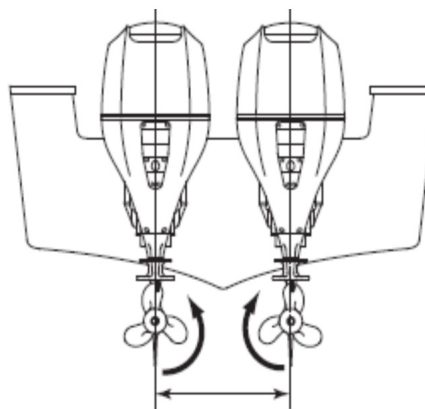


CURRENT V6 ENGINES



660mm (26in)
MINIMUM

NEW V6 ENGINES



711mm (28in)
MINIMUM

PRE RIGGING

Battery Cable Extension

Applicable Model	Temperature	Battery	Max total extension length				
			AWG4 20mm ²	AWG2 30mm ²	AWG1/0 50mm ²	AWG2/0 60mm ²	AWG4/0 100mm ²
BF175/200/225/250 DBW model AND	Air Temperature 0°C or more	12V-110Ah/20HR	5.5m (18ft)	8.3m (28ft)	13.8m (48ft)	16.6m (55ft)	26.0m (85ft)
BF200/225/250 Mechanical model	Air Temperature 0°C ~ -15°C or less	12V-110Ah/20HR	2.3m (8ft)	3.5m (12ft)	5.8m (19ft)	7m (23ft)	12.5m (41ft)

When extending the battery cables use the table above to select the correct gauge of cable for the **combined length** of all the cables.

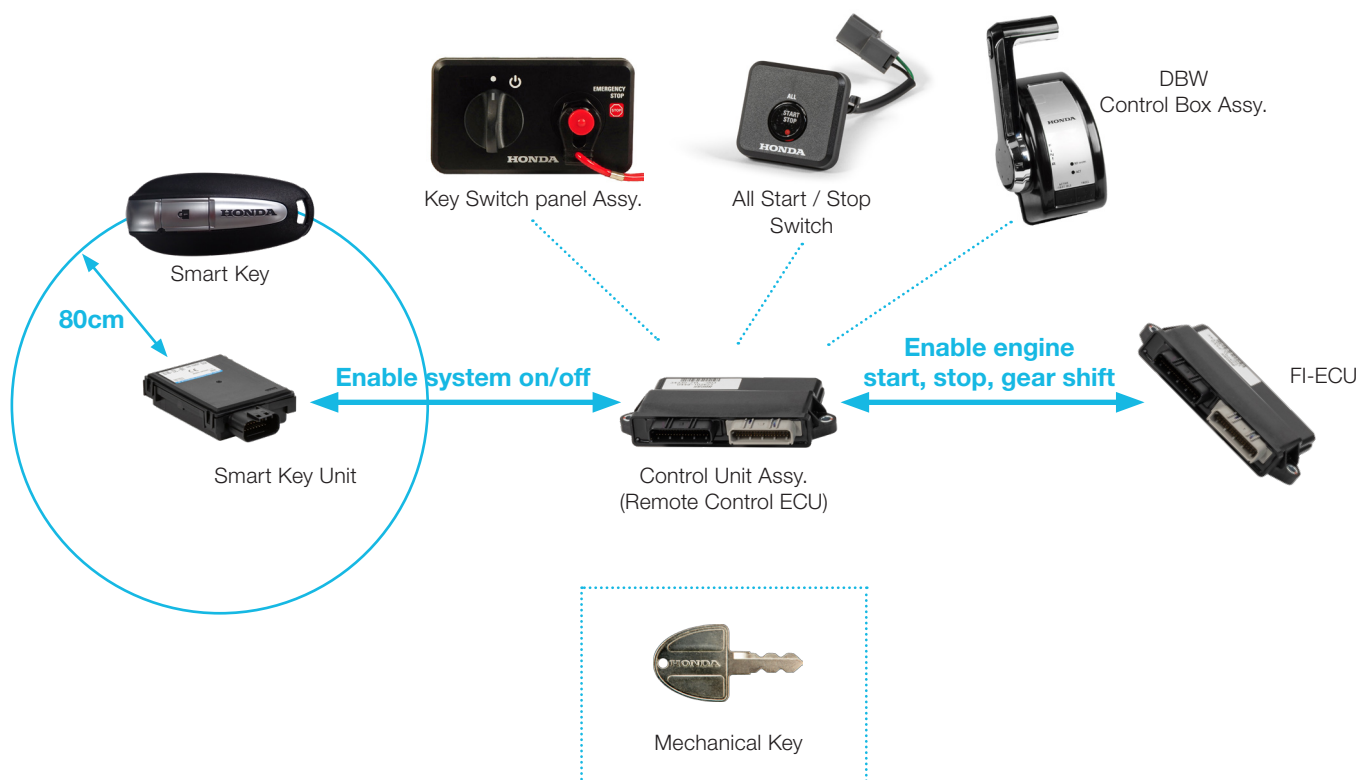
When fitting a battery isolator the switch must be capable of carrying a **minimum** current of 300 amps.

Each battery must be 110Ah/20HR (CCA799) minimum. One battery is required for each installed engine.

The cable lengths stated in the above table are combined lengths including all live and ground cables.

Smart Key System

A **mechanical key** is supplied with the smart key system. The ignition switch (IG/SW) can be operated using the supplied mechanical key if the smart key is misplaced. However, when the engine is started using the mechanical key there will be a 3000rpm limit on engine speed. The engine speed restriction can be overridden using the PIN code, please see instruction or shop manual.



PRE RIGGING

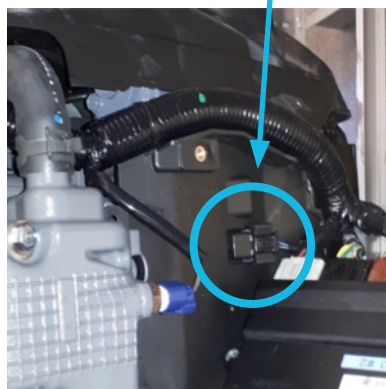
Engine Control Set-up

ENGINE INSTANCE NUMBER USING DR H



Use Dr H to set the correct engine instance number and which engine responds to which lever when using dual top mount remote control.

APPLICATION OF THE "DUMMY" CONNECTOR TO TERMINATE THE H-CAN



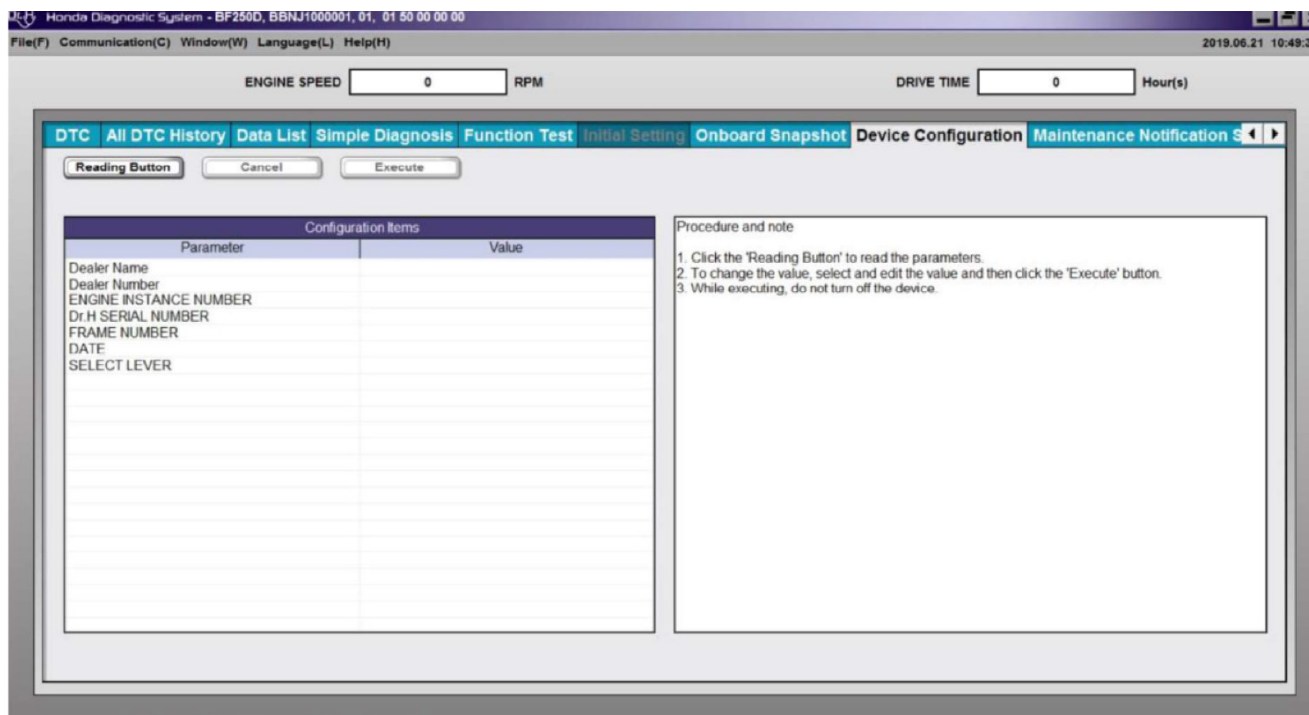
On multi engine installations: Replace the blue terminator under ECU, with the "DUMMY" connector on all engines except the engine with the highest instance number.

PRE RIGGING

Engine Control Set-up

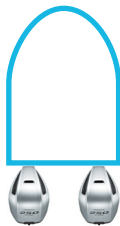
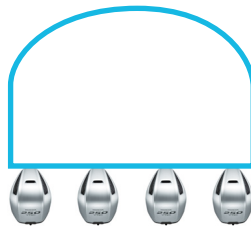
Use the Dr H “Device Configuration” tab to assign each of the engines an instance number and which **remote-control** lever will control which engine.

NOTE: This procedure is not required for single engine installations. However, in multiple engine configurations connect Dr H to and configure each engine in the installation.



Engine Control Set-up

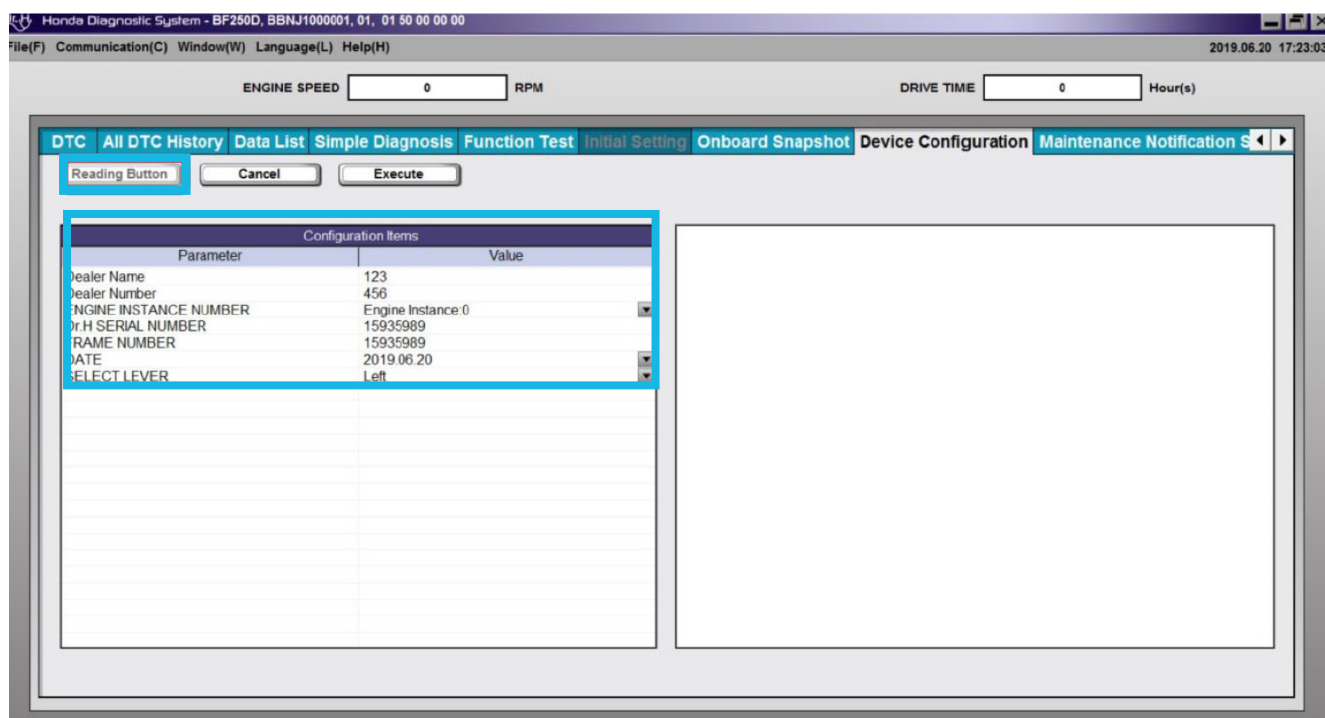
Below are examples of different configurations with each engine having a different incidence number and remote-control lever assigned to it.

Number of engines	2		3			4			
Position	PORT	STB	PORT	CENTER	STB	PORT	C.PORT	C.STB	STB
									
Engine instance number	0	1	0	1	2	0	1	2	3
Lever left / right	L	R	L	L or R	R	L	L	R	R

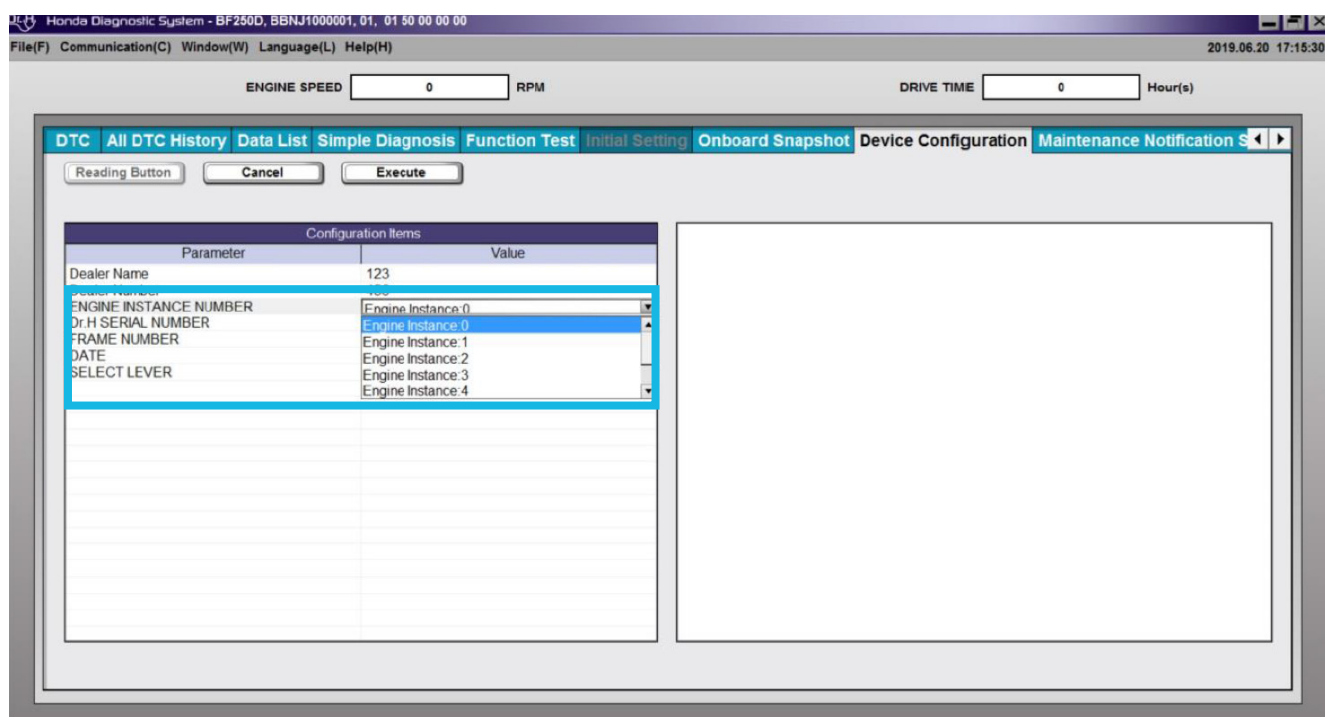
PRE RIGGING

Engine Control Set-up

Connect the Dr H unit to the engine in the normal way. Select the “Device Configuration” tab and then press the “Reading Button”. Information on the current configuration of the engine will be displayed as shown below.



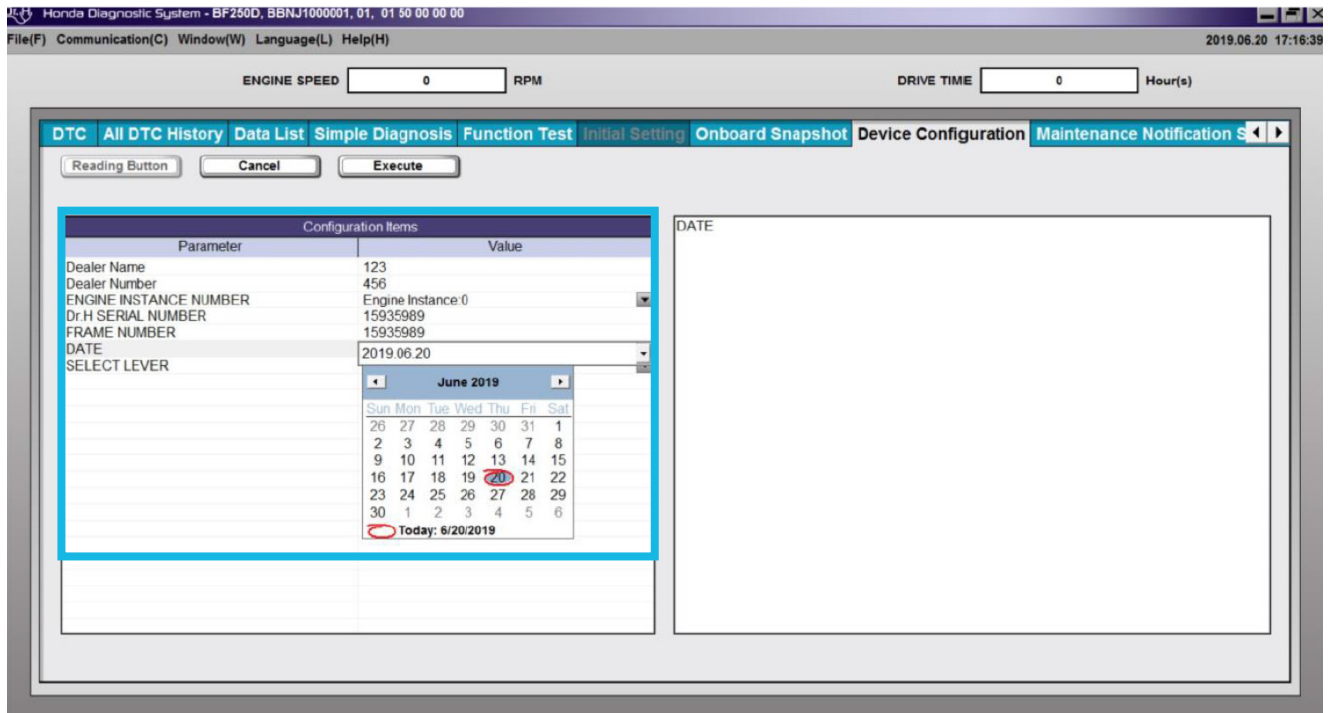
Select the relevant instance number from the drop-down menu for the engine you are configuring.
(Refer to the chart on the previous page)



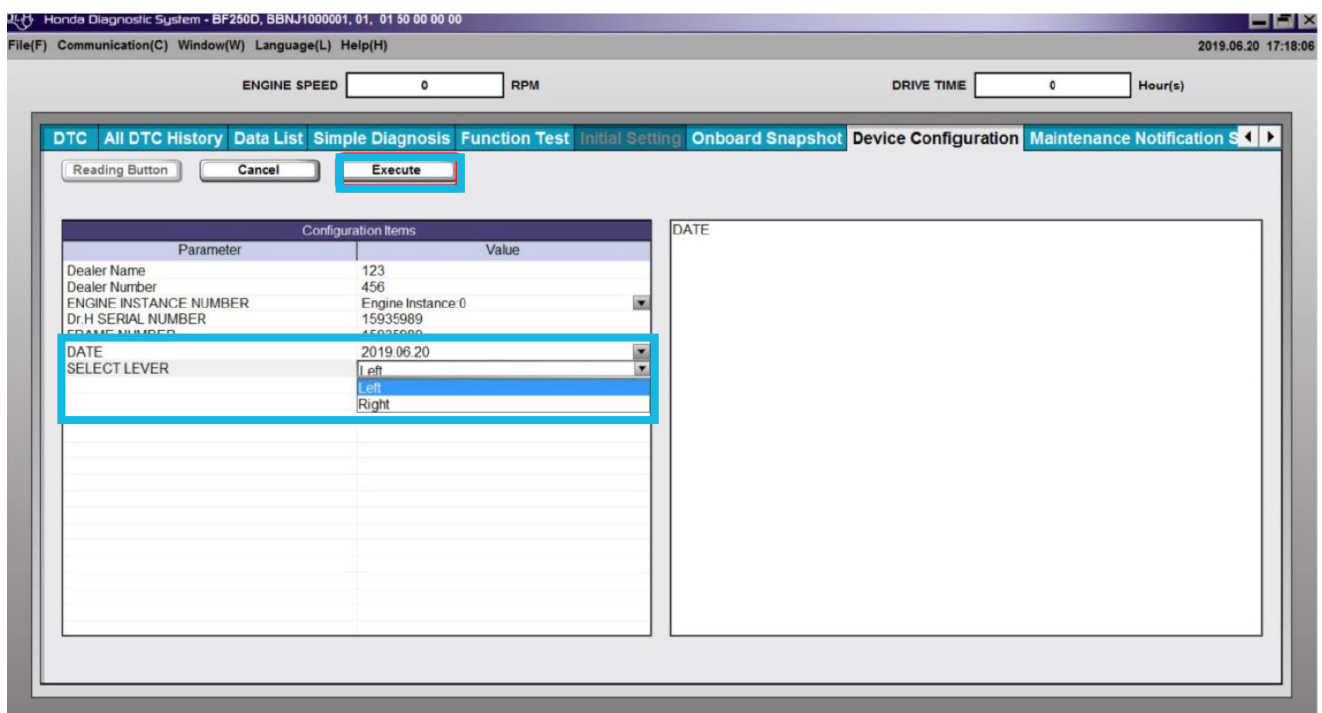
PRE RIGGING

Engine Control Set-up

Enter the serial number for the Dr H you are using and the engines frame number. Then select the current date from the calendar drop down menu.



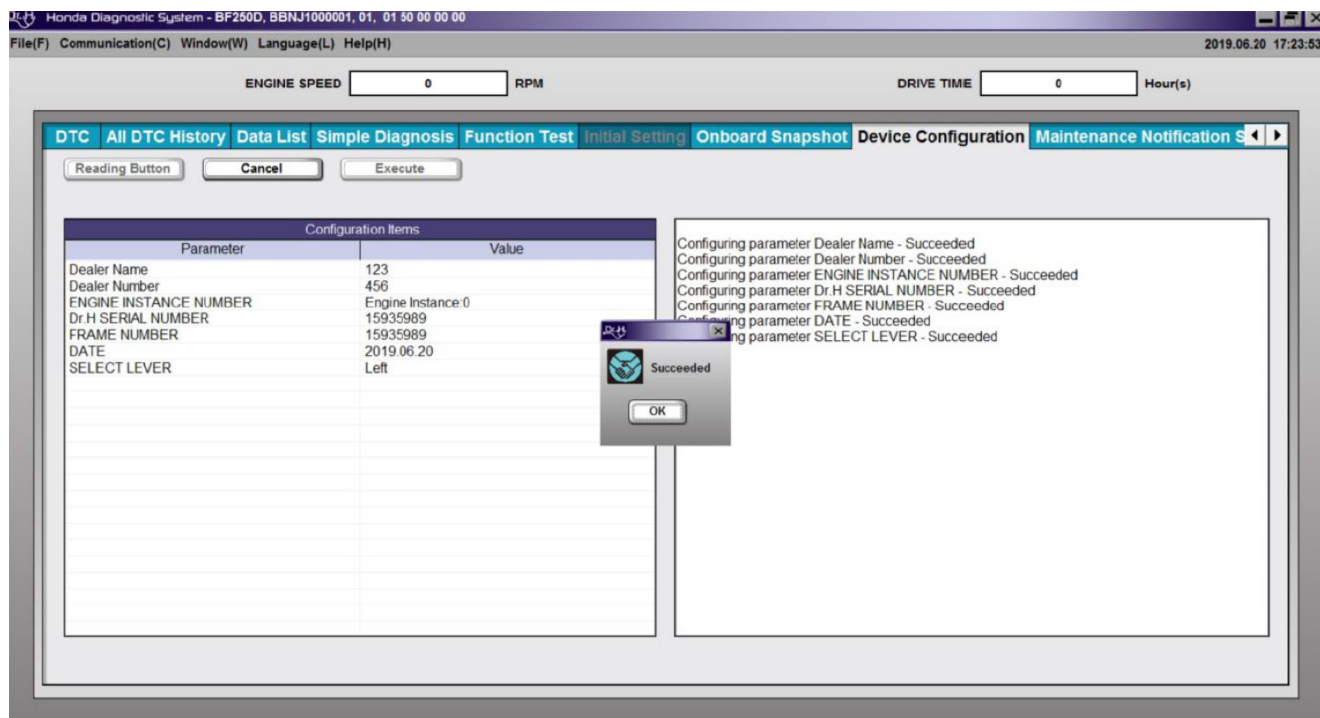
Select which remote control lever the engine will be controlled by. The “Execute” button should now become active. Press the “Execute” button to write the information to the engine. **NOTE:** Do not turn off the ignition whilst the configuration is in progress.



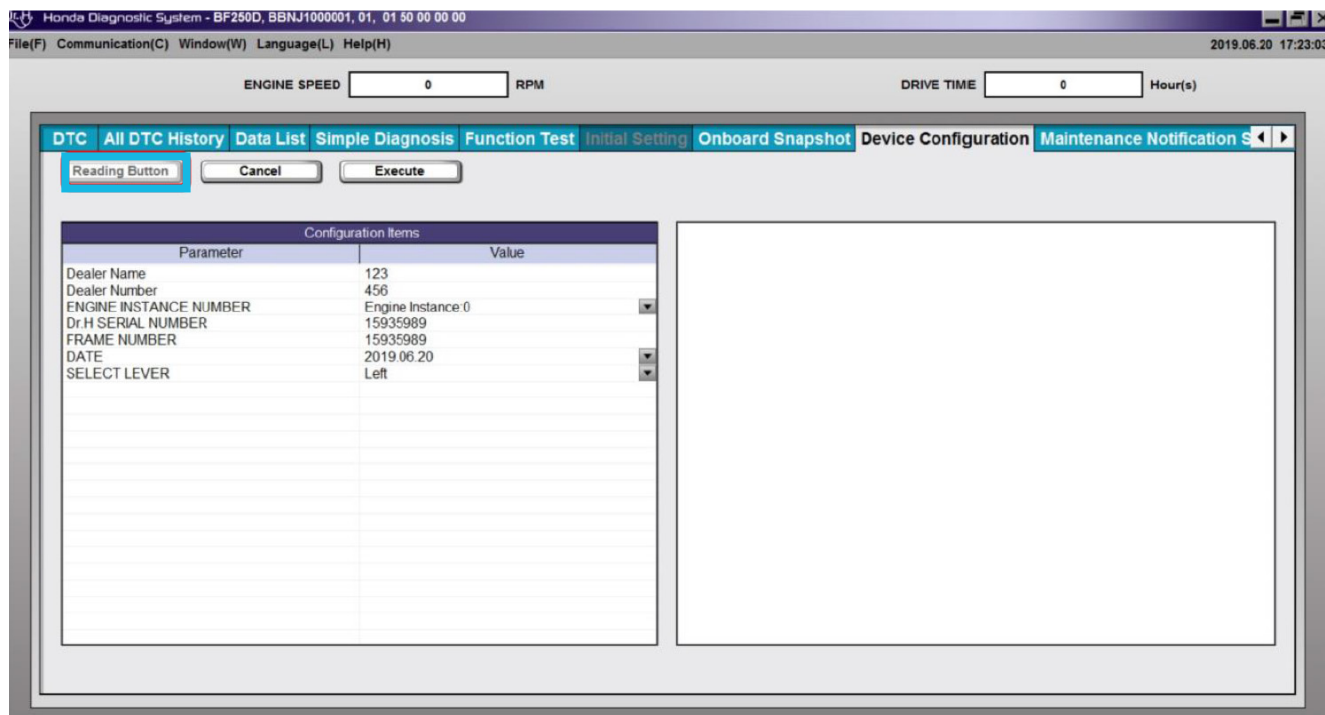
PRE RIGGING

Engine Control Set-up

When the page below is displayed the engine configuration procedure has been successful.



After the configuration is complete press the “Reading Button” once again to confirm that the configuration settings are correct. Finally turn the ignition off then back on and check that the engine functions correctly.



NMEA 2000



HONDA
MARINE

ENGINEERING FOR *Life*

NMEA 2000

NMEA 2000 (N2K) Communication Cable (N2K Drop cable)

- Description**
- NMEA 2000 communication cable permits direct connection of N2K engines to existing CAN Network



Application	Cable	Part Number	Comments
BF40 ~ BF250D NMEA compliant models	0.5M	06325-ZZ3-705HE	0.5 meter drop cable (includes T connector)
	1M	06325-ZZ3-710HE	1 meter drop cable (includes T connector)
	3M	06653-ZZ3-730HE	3 meter drop cable kit (includes T connector)
	6M	06653-ZZ3-760HE	6 meter drop cable kit (includes T connector)

NMEA 2000 (N2K) T connector & Terminators

- Description**
- T piece connectors and terminators to be used for:
- Creation of CANbus network
 - Expansion of existing CANbus network



Application	Part Number	Comments
BF40 ~ BF250D NMEA compliant models	06325-ZX2-000EU	T connector gauge
	06325-ZZ3-760HE	T piece connector
	06325-ZZ3-002HE	T piece connector dual channel
	06325-ZZ3-004HE	T piece connector quad channel
	06326-ZZ3-761HE	Male terminator
	06327-ZZ3-761HE	Female terminator

NMEA 2000

NMEA 2000 (N2K) CANbus Network Components

- Description**
- Extension cables
 - 12 volt power lead
 - NMEA 2000 Starter kit
- NMEA 2000 extension cables are designed to extend the CANbus network, not for the engine drop cable
- Can not be used as an engine drop cable



Application	Part Number	Comments
BF40 ~ BF250D NMEA compliant models	06329-ZZ3-000HE	NMEA 2000 Power Lead
	06328-ZZ3-000HE	NMEA Micro Power Isolator
	06329-ZZ3-703HE	NMEA 2000 Extension (0.3M)
	06329-ZZ3-720HE	NMEA 2000 Extension (2.0M)
	06329-ZZ3-U00HE	NMEA 2000 starter kit 12 Volt power lead, terminators male/female, T connector
	06329-ZZ3-U00HE	NMEA 2000 Network Starter Kit
	06654-ZZ3-706HE	NMEA 2000 Network Cable (6.0M)
	06654-ZZ3-708HE	NMEA 2000 Network Cable (8.0M)
	06654-ZZ3-710HE	NMEA 2000 Network Cable (10.0M)
	06654-ZZ3-715HE	NMEA 2000 Network Cable (15.0M)

NMEA 2000 Fuel tank sender adaptor kit

Part Number
06385-ZX2-001HE

- Description**
- High $\pm 1\%$ Accuracy
 - Low cost
 - Suits 0-180 and 240-30 Ohm Senders
 - Fuel, Freshwater, Wastewater, Oil,
 - Live Well or Blackwater
 - Up to 16 tanks of each type
 - Robust Aluminium Construction sealed to IP67
 - Easy to Install
 - Simple switch setup
 - Under 50mA Power Usage



NMEA volumetric fuel sender

Part Number	Fuel Sender
06385-ZX2-100HE	5 bolt mount 500mm
06385-ZX2-300HE	BSP mount 500mm

- Description**
- The NMEA2000 Volumetric Fuel Level Senders provide accurate fuel level information on to the NMEA2000 network. They monitor for water contamination and send a warning to the display if water is detected in the fuel. They have no moving parts and have a damping effect to increase the accuracy of fuel level measurement during rough conditions. The sensor is available in standard SAE 5 bolt fitting, or 1.25 inch BSP thread fitting and can be cut to fit any tank depth from 250mm to 500mm.



PROPELLERS

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PROPELLERS

ADDITIONAL MOUNTING/INSTALLATION INFO

The range of Honda propellers has been carefully selected to ensure that precise matching of customers boats and Honda Outboards can be undertaken. It is essential that the correct selection is made for the customer to ensure the perfect match for the boat package is achieved, thus meeting customer expectations. A wide variety of propellers, (varying in diameter & pitch) have been made available to ensure engines operate within the Honda recommended operating range.

When mounting Outboard Motors, some factors must be considered prior to installation. All of these are important to boat handling, engine performance and to maximise engine fuel efficiency.



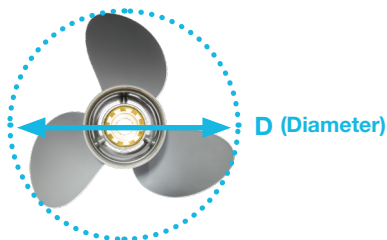
1/ Horizontal Positioning

In most boat applications, engine location is normally at centre line of the transom. However, some boats do require a slight offset to starboard side. The boat manufacturer should provide details on the necessity of this if required. For twin motor applications, both outboards must be mounted at the same distance from the centre point on the transom of the boat.



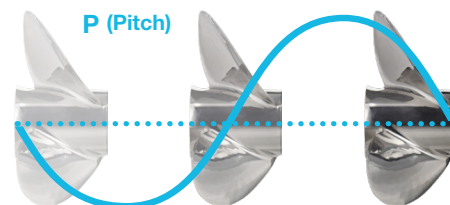
2/ Vertical Positioning

The vertical positioning of the engine is also very important and this will directly affect cavitation/ventilation characteristics, top speed and fuel efficiency. The chosen height position will be different on boat types and dependant on boat hull shape, weight and usage, such as high performance, fishing, commercial, cruising etc. The position for optimum performance may need to be decided upon, only after on water testing with different height settings and propeller types. Always allow for passengers, fuel and equipment on board when determining propeller type.



Diameter:

Is the distance between propeller blade tips through the centre line of the propeller. Large diameter propellers are commonly found on larger slower moving boats and smaller diameter propellers on faster moving craft.



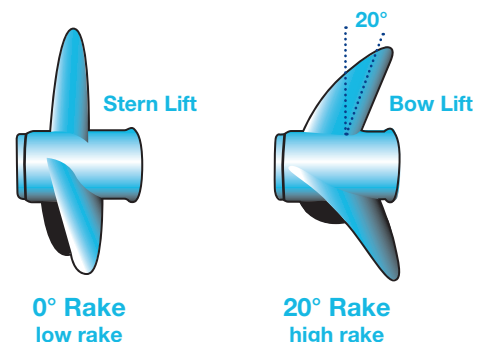
Pitch:

Is the theoretical distance the propeller travels forward upon completion of a full 360° of rotation. This is defined as the propeller pitch. However, as water is not a solid, this figure will not be achieved due to "slip" in the water.

Tip: 1"(25MM) change of pitch will vary engine rpm by approximately 300 / 400 rpm

Rake:

The propeller rake is given by the angle between the vertical line on the prop axis and a line following the edge of the blade. If viewed from the side, the blades will be seen to slope forward or rearward, positive or negative rake. High rake propellers provide better results on higher mounted or trimmed outboards. In general, if the negative rake angle is large, cavitation and ventilation toughness is improved as the rake can help strengthen the blade sections.



PROPELLERS

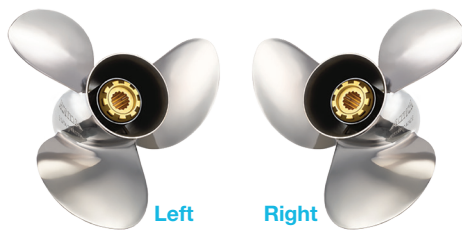
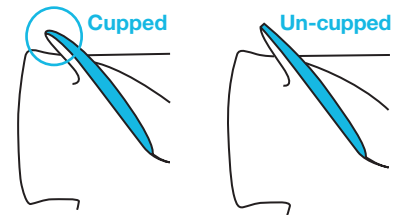
ADDITIONAL MOUNTING/INSTALLATION INFO

Propeller Slip (Slip Factor):

Propeller slip is most commonly expressed as a percentage, this being the difference between the theoretical distance travelled forward (propeller pitch) and the actual distance measured as a result of a full 360° rotation of the propeller. If a propeller with a pitch of 10" only moves the boat forward a distance of 9", the slip factor can be judged to be 10%.

Propeller Cup:

When the trailing edge of a propeller blade has a "curl" away from the boat, it is normally described as being cupped. Cupping the propeller blade is an easy way to increase the pitch or rake without bending the entire blade.



Counter Rotating Propellers:

On selected higher HP outboards, counter rotating propellers are available. The port side propeller is a mirror image (of the std type) and rotates in the opposite direction to the starboard propeller. The opposite turning effect of the propellers reduces the necessity for constant adjustment of steering by the customer, (a neutral steering control) and ensures easier manoeuvrability by balancing out the turning forces created by the propeller rotation. This becomes a more important requirement, especially with motors in excess of 75Hp.

3 Blade Propeller

This is the most common type used and provides excellent levels of performance throughout the outboard operating range. Selected counter rotating versions are also available. A good general purpose type, available in Stainless Steel and Aluminium.

4 Blade Propeller

Less common than 3 blade types, 4 blade propellers provide increased acceleration and mid range performance over similar 3 blade types (although a slightly lower top speed will be achieved). The additional blade also adds to a smoother running application. Ideal for ski-ing/wakeboarding where acceleration and trust is an important operating factor. Available in Stainless Steel and Aluminium.

High Thrust Propeller (BF8D / BF10D / BF15D / BF20D)

Although the BF8D ~ BF20D are supplied with 4 blade propellers as standard equipment, a high thrust 4 blade propeller is also available for use with these motors to enable better matching to heavier, slower moving watercraft. This type of propeller provides higher levels of thrust over the standard type, both in forward and reverse.

High Thrust Propeller (BFP60A)

The BFP60A (High Thrust Model) features a gear-casing based on that of the BF75D / BF90D. By use of this gear-case and a different gear ratio to the std BF60A, high thrust performance is achieved by the slower turning of the propeller and increased grip in the water. Selected propellers from the BF75D / BF90D are listed for use with BFP60A along with newly added versions, unique for use with this model.

PROPELLERS

TYPES OF PROPELLER

Plastic Propeller

(3 Blade)

- Replacement propeller for BF2D ~ BF2.3D
- Perfectly matched to ensure optimum performance



Aluminium Propellers

(3 Blade)

- Light weight, General Purpose Propellers
- Provide excellent levels of performance throughout the engine operating range
- Lower cost alternative to Stainless Steel
- Ideal for use on board as a spare or alternative pitch propeller



Aluminium Propellers

(4 Blade)

In addition to 3 Blade Aluminium propellers, 4 Blade types provide:

- Improved acceleration & powerful thrust in low to mid range
- Smoother running with excellent cruising performance
- Ideal for waterski / wakeboard activities
- Suited to rough water conditions



Aluminium Propellers - Power Thrust (BF8D ~ BF20D)

(4 Blade)

- Light weight - Power Thrust Propellers
- Ideal for use with heavier slow moving craft (displacement type hulls)



Stainless Steel Propellers

(3 Blade)

- Provide higher levels of performance versus comparable Aluminium types
- Higher levels of resistance to blade flexing & cavitation compared to Aluminium
- Suited to high performance leisure craft & commercial applications
- Increased durability due to material hardness compared to Aluminium
- See additional notes in propeller section on boat applications & usage



Stainless Steel Propellers

(4 Blade)

In addition to 3 Blade Stainless Steel propellers, 4 Blade types provide:

- Improved acceleration & powerful thrust in low to mid range
- Smoother running with excellent cruising performance
- Ideal for waterski / wakeboard activities
- Suited to rough water conditions
- See additional notes in propeller section on boat applications & usage



PROPELLERS

PLASTIC PROPELLER

BF2.3D

(3 Blade)

Part Number	Specification (D & P)
58130-ZV0-841ZB	7 1/4" x 4 3/4"



ALUMINIUM PROPELLERS 3 BLADE

BF4AH / BF5DH / BF6AH / BF5A

(3 Blade)

Part Number	Specification (D & P)
58130-ZVD-U01ZA	7 1/4" x 5 1/2"
58130-ZVD-701ZA	7 7/8" x 5 7/8"
58130-ZVD-801ZA	7 7/8" x 8 1/4"
58130-ZVD-003ZA	7 7/8" x 7 1/2"
58130-ZVD-601ZA	7 7/8" x 6 3/4"



BF30D

(3 Blade)

Part Number	Specification (D & P)
58130-ZV7-000ZA	9 1/4" x 12"
58130-ZV7-850ZA	9 3/4" x 9 7/8"
58130-ZV7-860ZB	10" x 8 1/4"
58130-ZW2-F11ZA	9 7/8" x 9"
58130-ZW2-F21ZA	9 7/8" x 10"
58130-ZW2-F31ZA	9 7/8" x 11"
58130-ZW2-F01ZA	9 7/8" x 12"



PROPELLERS

ALUMINIUM PROPELLERS 3 BLADE

BF40D / BF40E / BF50D / BF60A (BF40A / BF50A) (3 Blade)

Part Number	Specification (D & P)	Comments
58130-ZV5-000ZA	11 1/4" x 13"	BF40A / BF50A only
58130-ZV5-850ZA	11 1/2" x 12"	
58130-ZV5-860ZA	11 3/4" x 10"	
58130-ZV5-870ZA	11 1/2" x 14 1/4"	BF40D / BF50D / BF60A BF40A / BF50A
59130-ZV5-007AH	12 1/4" x 7"	
59130-ZV5-008AH	12 1/4" x 8"	
59130-ZV5-009AH	12 1/8" x 9"	BF40D / BF50D / BF60A BF40A / BF50A / BF40E
59130-ZV5-011AH	11 5/8" x 11"	
59130-ZV5-012AH	11 3/8" x 12"	
59130-ZV5-013AH	11 1/8" x 13"	BF40D / BF50D / BF60A
59130-ZV5-014AH	11 1/8" x 14"	
59130-ZV5-015AH	11" x 15"	
59130-ZV5-016AH	11" x 16"	BF40D / BF50D / BF60A
59130-ZV5-017AH	11" x 17"	
58130-ZZ5-000ZA	11 1/4" x 13"	BF40D / BF50D / BF40E
58130-ZZ5-630ZA	11 3/4" x 10"	
58130-ZZ5-660ZA	11 1/2" x 12"	
58130-ZZ5-760ZA	11 1/2" x 14 1/4"	



BFP60A / BF80A / BF100A (3 Blade)

Part Number	Specification (D & P)	Comments
58130-ZW1-011AH	14" x 11"	BFP60A / BF75A / BF75D / BF80A / BF90 / BF90D / BF100A / BF115A / BF130A
58130-ZW1-013AH	13 3/4" x 13"	
58130-ZW1-013B	13 3/4" x 13" CR	BF115A / BF130A
58130-ZW1-015AH	13 1/2" x 15"	BFP60A / BF75A / BF75D / BF80A / BF90 / BF90D / BF100A / BF115A / BF130A
58130-ZW1-015B	13 1/2" x 15" CR	
58130-ZW1-017AH	13 1/4" x 17"	BFP60A / BF75A / BF75D / BF80A / BF90 / BF90D / BF100A / BF115A / BF130A
58130-ZW1-017B	13 1/4" x 17" CR	
58130-ZW1-018AH	13 1/4" x 18"	BF80A / BF100A
58130-ZW1-019AH	13" x 19"	BFP60A / BF75A / BF75D / BF80A / BF90 / BF90D / BF100A / BF115A / BF130A
58130-ZW1-021AH	13" x 21"	
58130-ZZ0-D81ZB	13 1/5" x 19"	BFP60A
58130-ZZ0-D91ZB	13 1/5" x 21"	



PROPELLERS

ALUMINIUM PROPELLERS 3 BLADE

BF115D / BF115J / BF135A / BF135D
BF150A / BF150D

(3 Blade)

Part Number	Specification (D & P)	Comments
58130-ZY3-013A	15 1/2" x 13"	
58130-ZY3-015AH	15 1/4" x 15"	
58130-ZY3-015BH	15 1/4" x 15"	Counter Rotating type
58130-ZY3-017AH	15" x 17"	
58130-ZY3-017BH	15" x 17"	Counter Rotating type
58130-ZY3-019AH	14 3/4" x 19"	
58130-ZY3-019BH	14 3/4" x 19"	Counter Rotating type
58130-ZY3-021AH	14 1/2" x 21"	
58130-ZY3-021BH	14 1/2" x 21"	Counter Rotating type
58130-ZY3-023AH	14 1/4" x 23"	
58130-ZY3-015AP	15 3/4" x 15"	
58130-ZY3-017AP	15 1/2" x 17"	
58130-ZY3-017BP	15 1/2" x 17"	Counter Rotating type



PROPELLERS

STAINLESS STEEL PROPELLERS 3 BLADE

BF30D

(3 Blade)

Part Number	Specification (D & P)	Comments
58133-ZV7-009AH	10" x 9"	
58133-ZV7-010AH	10" x 10"	
58133-ZV7-011AH	10" x 11"	
58133-ZV7-013AH	10" x 13"	



BF40D / BF50D / BF60A (BF40A / BF50A)

(3 Blade)

Part Number	Specification (D & P)	Comments
59133-ZV5-009AH	12 1/4" x 9"	
59133-ZV5-011AH	11 3/4" x 11"	
59133-ZV5-012AH	11 1/2" x 12"	
59133-ZV5-013AH	11 1/8" x 13"	
59133-ZV5-014AH	11 1/8" x 14"	
59133-ZV5-015AH	11" x 15"	
59133-ZV5-016AH	10 3/4" x 16"	
59133-ZV5-017AH	11" x 17"	



BFP60A / BF80A / BF90D / BF90A / BF100A / BF115D / BF115J / BF135A / BF135D / BF150A / BF150D

(3 Blade)

Large blade area design provides:

- Great load carrying capability
- Excellent fuel economy

Part Number	Specification (D & P)	Comments
58133-ZW1-A13AH	13 3/4" x 13"	
58133-ZW1-A15AH	13 3/4" x 15"	
58133-ZW1-A17AH	13 1/4" x 17"	
58133-ZW1-A18AH	13 1/4" x 18"	
58133-ZW1-A19AH	13 1/4" x 19"	
58133-ZY3-A15AH	13 1/2" x 15"	



PROPELLERS

BF115D / BF115J / BF135A / BF135D / BF150D / (3 Blade)
BF175A / BF175D / BF200A / BF200D / BF225A / BF225D

- Description** Provides good acceleration & top end performance on a wide variety of craft.
- Larger Blade area
 - Moderate Cupping

Part Number	Specification (D & P)	Comments
58133-ZY3-A17AH	14 1/4" x 17"	
58133-ZY3-B17AH	14 1/4" x 17"	Counter Rotating type
58133-ZY3-A19AH	14" x 19"	
58133-ZY3-B19AH	14" x 19"	Counter Rotating type
58133-ZY3-A21AH	14" x 21"	
58133-ZY3-B21AH	14" x 21"	Counter Rotating type

- Description** Provides better load carrying capability and higher levels of fuel efficiency for higher power Honda Outboard engines
- High camber blade geometry
 - Large blade area

58133-ZY3-A15S	15 1/2" x 15"	
58133-ZY3-B15S	15 1/2" x 15"	Counter Rotating type
58133-ZY3-A17S	15 1/4" x 17"	
58133-ZY3-A19S	15" x 19"	
58133-ZY3-B19S	15" x 19"	Counter Rotating type
58133-ZY3-A21S	14 3/4" x 21"	
58133-ZY3-B21S	14 3/4" x 21"	Counter Rotating type
58133-ZY3-A23S	14 1/2" x 23"	
58133-ZY3-B23S	14 1/2" x 23"	Counter Rotating type



PROPELLERS

STAINLESS STEEL PROPELLERS 3 BLADE

BF115D / BF115J / BF135A / BF135D / BF150A / BF150D / BF175A / BF200A / BF225A (3 Blade)

Description This 3 Blade High Rake range provides better results on higher mounted or trimmed outboards, improving cavitation and ventilation toughness.

Part Number	Specification (D & P)	Comments
58133-ZY3-A16HR	14 3/4" x 16"	
58133-ZY3-B16HR	14 3/4" x 16"	Counter Rotating type
58133-ZY3-A17HR	14 3/4" x 17"	
58133-ZY3-B17HR	14 3/4" x 17"	Counter Rotating type
58133-ZY3-A18HR	14 3/4" x 18"	
58133-ZY3-B18HR	14 3/4" x 18"	Counter Rotating type
58133-ZY3-A19HR	14 3/4" x 19"	
58133-ZY3-B19HR	14 3/4" x 19"	Counter Rotating type
58133-ZY3-A20HR	14 3/4" x 20"	
58133-ZY3-B20HR	14 3/4" x 20"	Counter Rotating type
58133-ZY3-A21HR	14 1/2" x 21"	
58133-ZY3-A22HR	14 1/4" x 22"	
58133-ZY3-B22HR	14 1/4" x 22"	Counter Rotating type



BF115J / BF135D / BF150D / BF175D / BF200D / BF225D / BF250D (3 Blade)

Part Number	Specification (D & P)	Comments
58133-ZY3-A15LX	15 3/4" x 15"	
58133-ZY3-B15LX	15 3/4" x 15"	Counter Rotating type
58133-ZY3-A16LX	15 5/8" x 16"	
58133-ZY3-B16LX	15 5/8" x 16"	Counter Rotating type
58133-ZY3-A17LX	15 1/2" x 17"	
58133-ZY3-B17LX	15 1/2" x 17"	Counter Rotating type
58133-ZY3-A18LX	15 3/8" x 18"	
58133-ZY3-B18LX	15 3/8" x 18"	Counter Rotating type
58133-ZY3-A19LX	15 1/4" x 19"	
58133-ZY3-B19LX	15 1/4" x 19"	Counter Rotating type
58133-ZY3-A20LX	15 1/8" x 20"	
58133-ZY3-B20LX	15 1/8" x 20"	Counter Rotating type
58133-ZY3-A21LX	15" x 21"	
58133-ZY3-B21LX	15" x 21"	Counter Rotating type



PROPELLERS

ALUMINIUM PROPELLERS 4 BLADE

BF8D / BF10D / BF15D / BF20D (standard type) (4 Blade)

Part Number	Specification (D & P)	Comments
Standard Propeller		
58130-ZW9-B23ZA	10" x 6 1/4"	
58134-ZV4-007AH	9 1/4" x 7"	
58134-ZV4-008AH	9 1/4" x 8"	
58134-ZV4-009AH	9 1/4" x 9"	
58134-ZV4-010AH	9 1/4" x 10"	
58134-ZV4-011AH	9 1/4" x 11"	
High Thrust Propeller Kit		
06581-ZW9-A40ZA	10" x 6 1/4"	BF8D / BF10D
06581-ZY0-S00ZB	10" x 7 5/8"	BF15D / BF20D



BF30D (4 Blade)

Part Number	Specification (D & P)	Comments
58134-ZV7-011AH	10 1/4" x 11"	
58134-ZV7-012AH	10 1/8" x 12"	
58134-ZV7-013AH	10" x 13"	
58134-ZV7-014AH	10" x 14"	
58134-ZV7-015AH	10" x 15"	



BF40D / BF50D / BF60A (4 Blade)

Part Number	Specification (D & P)	Comments
58134-ZV5-009AH	11 7/8" x 9"	
58134-ZV5-010AH	11 3/8" x 10"	
58134-ZV5-011AH	11 1/8" x 11"	BF40D / BF50D / BF60A BF40A / BF50A
58134-ZV5-012AH	10 7/8" x 12"	
58134-ZV5-013AH	10 1/2" x 13"	
58134-ZV5-014AH	10 1/2" x 14"	



BFP60A / BF80A / BF100A (4 Blade)

Part Number	Specification (D & P)	Comments
58134-ZW1-013AH	13 1/4" x 13"	
58134-ZW1-015AH	13" x 15"	Suitable for use on: BFP60A / BF75A / BF75D / BF90A / BF90D / BF115A / BF130A
58134-ZW1-017AH	12 3/4" x 17"	
58134-ZW1-019AH	12 1/2" x 19"	
58134-ZW1-021AH	12 1/2" x 21"	



PROPELLERS

ALUMINIUM PROPELLERS 4 BLADE

BF115D / BF115J / BF135A / BF135D / BF150A / BF150D / BF175A / BF200A / BF225A (4 Blade)

Part Number	Specification (D & P)	Comments
58134-ZY3-015A	14 3/4" x 15"	
58134-ZY3-015B	14 3/4" x 15"	Counter Rotating type
58134-ZY3-017A	14 1/2" x 17"	
58134-ZY3-019A	14 1/4" x 19"	
58134-ZY3-019B	14 1/4" x 19"	Counter Rotating type
58134-ZY3-021A	14" x 21"	
58134-ZY3-021B	14" x 21"	Counter Rotating type



STAINLESS STEEL PROPELLERS 4 BLADE

BF115D / BF115J / BF135A / BF135D / BF150A / BF150D / BF175A / BF175D / BF200A / BF200D / BF225A / BF225D / BF250A / BF250D (4 Blade)

Description This 4 Blade High Rake range, offers excellent cruising performance and maneuvering capability making it ideal for offshore applications.

- Very Powerful Thrust
- Smooth Operation
- Provides additional transom lift

Part Number	Specification (D & P)	Comments
58134-ZY3-A15HR	14 1/2" x 15"	
58134-ZY3-B15HR	14 1/2" x 15"	Counter Rotating type
58134-ZY3-A17HR	14 1/4" x 17"	
58134-ZY3-B17HR	14 1/4" x 17"	Counter Rotating type
58134-ZY3-A18HR	14 1/8" x 18"	
58134-ZY3-B18HR	14 1/8" x 18"	Counter Rotating type
58134-ZY3-A19HR	14 1/8" x 19"	
58134-ZY3-B19HR	14 1/8" x 19"	Counter Rotating type
58134-ZY3-A20HR	14" x 20"	
58134-ZY3-B20HR	14" x 20"	Counter Rotating type
58134-ZY3-A21HR	14" x 21"	
58134-ZY3-B21HR	14" x 21"	Counter Rotating type
58134-ZY3-A23HR	14" x 23"	
58134-ZY3-B23HR	14" x 23"	Counter Rotating type
58134-ZY3-A25HR	14" x 25"	
58134-ZY3-B25HR	14" x 25"	Counter Rotating type



New inner hubs for our S/S propellers

Part Number	Comments
08135-ZW1-003HE	for all +++ZW1+++ SS propellers
08135-ZY3-003HE	for all +++ZY3+++ SS propellers



* The pictures shown, may not correspond with the content of the package that goes with the partnumber(s) mentioned.

FUEL SYSTEMS

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FUEL SYSTEMS

FUEL TANKS & FUEL LINES

Fuel Tanks

Application: BF5A ~ BF250D

Part Number	Specifications	Comments
17500-ZV4-G02	Plastic Fuel Tank - 12 litre capacity - fuel gauge not integrated in fuel cap	BF5A ~ BF250D
17500-ZV5-G01	Plastic Fuel Tank - 25 litre capacity - fuel gauge integrated in fuel cap	BF5A ~ BF250D



Fuel Line

Application: BF5A ~ BF250D

Part Number	Specification (D & P)	Comments
17700-881-C03ZA	Fuel Line - inc fittings & Priming Bulb	BF5A ~ BF8A
17700-ZW9-030		BF5DH ~ BF6AH ~ BF8DK2 ~ BF10DK2 ~ BF15DK2 ~ BF20DK2 ~ BF30DK2 ~ BF40DK4 ~ BF40DK2 ~ BF50DK2 ~ BF50DK4
04101-ZW9-010		BF9.9A ~ BF130A
17700-ZY3-010		BF115DK1 ~ BF135AK2 ~ BF150AK2 - inboard fuel tank fittings
17700-ZY9-000		BF40E ~ BF60AK1 ~ BFP60AK1 ~ BF80A ~ BF100A - Portable fuel tank fittings
17700-ZX2-010		BF80A ~ BF100A ~ BF115J ~ BF135D ~ BF115DK1 ~ BF135AK2 ~ BF150AK2 ~ BF150D ~ BF175AK3 ~ BF175D ~ BF200AK3 ~ BF200D ~ BF225AK3 ~ BF225D ~ BF250A ~ BF250D



Bulk Fuel Line

Application: BF2 ~ BF250D



Diameter	Length (Meters)		
	1 Meter	3 Meter	8 Meter
3,5 MM	95001-3500160M	95001-3500360M	/
4,5 MM	95001-4500160M	95001-4500360M	95001-4500860M
5,5 MM	95001-5500160M	95001-5500360M	95001-5500860M
7,5 MM	95001-7500160M	95001-7500360M	95001-7500860M

FUEL SYSTEMS

FUEL FILTER / WATER SEPERATORS

Complete Filter Assemblies

Application: BF5A ~ BF250D

Part Number	Specifications
06177-ZX2-000HE	Flow capacity up to 340 litres / hour, 10 micron filtration



Replacement Filter Cartridges

Application: BF5A ~ BF250D

Part Number	Specifications
17670-ZX2-000HE	Flow capacity up to 340 litres / hour (06177-ZX2-000HE)



Fuel Line Fittings (Hosetail)

Application: BF5A ~ BF250D

Description For use with following filter assembly 06177-ZX2-000HE

Part Number	Specifications	Comments
19271-ZZ3-010HE	Straight Connector	Brass fitting 1/4 NPT -3/8 - 10mm Ø fuel line
19271-ZZ3-507HE	Elbow Connector	Brass fitting 1/4 NPT -3/8 - 10mm Ø fuel line



CABLES

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MARINE

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CABLES

Hi-Lex Premium Remote Control Cables

- Description**
- This super flexible and highly efficient remote control cable is the thinnest marine control cable with double layered structure.

Application	Feet	Part Number	Comments
BF8 ~ BF250D	6	24906-ZY3-003HE	1.8 M
	7	24907-ZY3-003HE	2.1 M
	8	24908-ZY3-003HE	2.4 M
	9	24909-ZY3-003HE	2.7 M
	10	24910-ZY3-003HE	3.05 M
	11	24911-ZY3-003HE	3.35 M
	12	24912-ZY3-003HE	3.66 M
	13	24913-ZY3-003HE	3.96 M
	14	24914-ZY3-003HE	4.27 M
	15	24915-ZY3-003HE	4.57 M
	16	24916-ZY3-003HE	4.88 M
	17	24917-ZY3-003HE	5.18 M
	18	24918-ZY3-003HE	5.49 M
	19	24919-ZY3-003HE	5.79 M
	20	24920-ZY3-003HE	6.10 M
	21	24921-ZY6-003HE	6.40 M
	22	24922-ZY3-003HE	6.70 M
	24	24924-ZY3-003HE	7.32 M
	26	24926-ZY3-003HE	7.92 M
	28	24928-ZY3-003HE	8.53 M
	30	24930-ZY3-003HE	9.14 M
	32	24932-ZY3-003HE	9.75 M
	34	24934-ZY3-003HE	10.36 M
	35	24935-ZY3-003HE	10.67 M



Multipack available as from 1.80 meters up to 6.70 meters.
(24906-ZY3-003MP - 24922-ZY3-003MP)

- Features:**
- Featuring flexibility and high efficiency
 - Thinnest and double layered structured cable affords you easy routing and high efficient performance
 - Braided wire core with splined nylon coating

- Specifications:**
- Brand name: Hi-Lex control cable
 - Type: clamp "3300 to 33C"
 - Braided wire core with splined nylon coating

- Performance data:**
- Load efficiency:

	push	pull
70N	79.9	80.7
160N	81.3	84.2
 - Motion loss: 3.6 mm
 - Non Friction load: push 2.0

CABLES

Honda Pro-X Cables

- Description**
- “The ultimate in high performance control cable technology”
With a proven track record of high performance in even the most challenging applications. Pro-X cables continue to exceed user expectations wherever they are used.

Application	Feet	Part Number	Comments
BF8 - BF250D	6	24906-ZY3-710HE	1.8 M
	7	24907-ZY3-710HE	2.1 M
	8	24908-ZY3-710HE	2.4 M
	9	24909-ZY3-710HE	2.7 M
	10	24910-ZY3-710HE	3.05 M
	11	24911-ZY3-710HE	3.35 M
	12	24912-ZY3-710HE	3.66 M
	13	24913-ZY3-710HE	3.96 M
	14	24914-ZY3-710HE	4.27 M
	15	24915-ZY3-710HE	4.57 M
	16	24916-ZY3-710HE	4.88 M
	17	24917-ZY3-710HE	5.18 M
	18	24918-ZY3-710HE	5.49 M
	19	24919-ZY3-710HE	5.79 M
	20	24920-ZY3-710HE	6.10 M
	22	24922-ZY3-710HE	6.70 M
	24	24924-ZY3-710HE	7.32 M
	26	24926-ZY3-710HE	7.92 M
	28	24928-ZY3-710HE	8.53 M
	30	24930-ZY3-710HE	9.14 M
	32	24932-ZY3-710HE	9.75 M
	34	24934-ZY3-710HE	10.36 M
	36	24936-ZY3-710HE	10.97 M
	38	24938-ZY3-710HE	11.58 M
	40	24940-ZY3-710HE	12.19 M

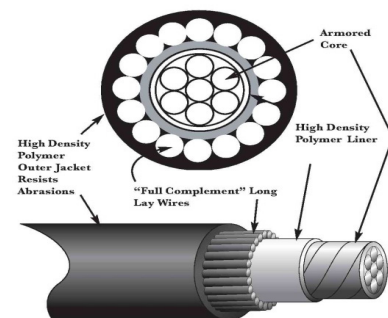


Multipack available as from 1.80 meters up to 5.49 meters.
(24906-ZY3-710MP - 24918-ZY3-710MP)

Honda Pro-X Cables Key Features include:

- Braided Stainless Steel with Armoured Core
Provides high flexibility and incredible strength (4 inch bend radius!)
- Inner Polymer Liner
Minimises friction, improves efficiency and reduces lost motion
- Heavy Duty Conduit
Delivers maximum protection without loss in flexibility
- Stainless Steel Terminals
Ensures maximum corrosion resistance

PRO-X Cable Cross Section



ELECTRICALS

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ELECTRICALS

Switch panel PGM-FI (4 light alert)

- Description**
- Key start /Emergency stop switch
 - 4 light alert panel → oil pressure/overheat/PGM-FI/ACG
 - Warning buzzer
 - Panel fittings
 - No main wire harness included

Note: Switch panel is available as 1 piece or 2 piece construction
Sperate light panel on 2 piece construction

Application	Part Number	Comment
BF40DK4 ~ BF40E ~ BF50DK4 ~ BF60AK1 ~ BFP60AK1 ~ BF115J ~ BF115DK1 ~ BF135D ~ BF135AK2 ~ BF150AK2 ~ BF150D ~ BF200D ~ BF225D ~ BF250D	06323-ZZ5-M82	1 piece construction
	06323-ZZ5-M92	2 piece construction



Switch panel PGM-FI (4 light alert)

Application	Part Number	Comment
BF115J ~ BF135D ~ BF150D ~ BF200D ~ BF225D ~ BF250D	06323-ZY6-752	For dual key switch with 1 emergency stop switch



Trolling Control Switch Kit

- Description**
- Permits precise control of engine speed in increments of 50rpm from idle speed.No of increments will be model dependant.
 - Ideal for use on leisure fishing boats.

Application	Part Number
BF40DK2 ~ BF40E ~ BF50DK2 ~ BF60AK1 ~ BFP60AK1 ~ BF80A ~ BF100A ~ BF115DK1 ~ BF135AK2 ~ BF150AK2	35345-ZZ3-741
BF115J / BF135D / BF150D	35345-ZZ5-M02



Trolling Control - Top Mount / Flush Mount Installations

- Description**
- The following harness must also be used in addition to Trolling control switch kit 35345-ZZ3-741

Application	Part Number
BF40DK4 ~ BF40E ~ BF50DK4 ~ BF60AK1 ~ BFP60AK1 ~ BF115J ~ BF115DK1 ~ BF135D ~ BF135AK2 ~ BF150AK2 ~ BF150D ~ BF200D ~ BF225D ~ BF250D	32186-ZZ3-000



Tilt Limit Switch Kit

- Description**
- Limits Tilt angle from the Remote control box & reduces risk of impact with the boat and engine hood
 - Full tilt angle is still obtainable by use of the engine PTT switch

Application	Part Number
BF40E / BF60 / BFP60 A-AK1	06357-ZZ3-000
BF115J / BF135D / BF150D	06357-ZVT-000



ELECTRICALS

Rudder meter kit

- Description**
- Rudder meter allows the operating angle of the motor to be determined easily without looking behind or if the motor is obstructed from view.
 - Recommended for use with Deluxe gauge Pre Rigging kits

Application	Part Number	Comments
BFP60A	06373-ZZ3-000	White
BFP60A	06373-ZZ3-610	Black



Main wire harness (PGM-FI cord-integrated type)

- Description**
- Main wire harness
 - Not compatible with BF115J - BF250D

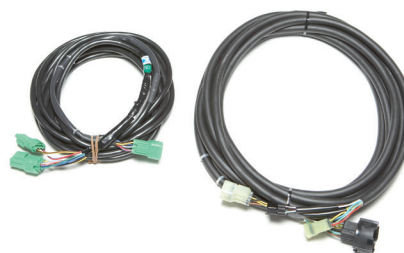
Application	Metres	Part Number
BF40DK4 ~ BF40DK2 ~ BF40E ~ BF50DK2 ~ BF50DK4 ~ BF60AK1 ~ BFP60AK1 ~ BF80A ~ BF100A ~ BF115DK1 ~ BF135AK2 ~ BF150AK2 ~ BF175AK3 ~ BF200AK3 ~ BF225AK3 ~ BF250A	5	32205-ZY6-016AH
	6.1	32205-ZY6-020AH
	7.6	32205-ZY6-025AH
	9.1	32205-ZY6-030AH
	15.2	32205-ZY6-050AH



Main wire harness kit (separate PGM-FI cord)

- Content**
- Main wire harness
 - 2 light panel indicator cord (PGM-FI)
 - Not compatible with BF115J - BF250D

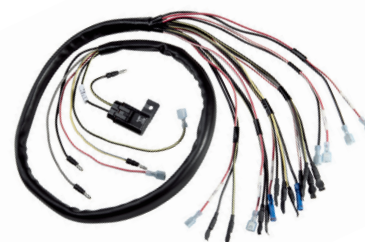
Application	Metres	Part Number
BF40DK4 ~ BF40DK2 ~ BF40E ~ BF50DK2 ~ BF50DK4 ~ BF60AK1 ~ BFP60AK1 ~ BF80A ~ BF100A ~ BF115DK1 ~ BF135AK2 ~ BF150AK2 ~ BF175AK3 ~ BF200AK3 ~ BF225AK3 ~ BF250A	6.1	06325-ZZ5-600
	7.6	06325-ZZ5-700
	9	06325-ZZ5-800



Instrument harness

- Description**
- For fog resistant gauges
 - Connects 5 gauge set
 - Optional water pressure gauge connection

Application	Metres	Part Number
BF40D ~ BF250D	1.37	32200-ZW7-000AH
	2.1	32200-ZW7-210EU



Main wire harness (PGM-FI cord required)

- Content**
- Main wire harness
 - Not compatible from BF115J - BF250D

Application	Metres	Part Number
BF40DK4 ~ BF40DK2 ~ BF40E ~ BF50DK2 ~ BF50DK4 ~ BF60AK1 ~ BFP60AK1 ~ BF80A ~ BF100A ~ BF115DK1 ~ BF135AK2 ~ BF150AK2 ~ BF175AK3 ~ BF200AK3 ~ BF225AK3 ~ BF250A	5.0	32580-ZW2-D01
	6.1	32580-ZZ5-D01
	7.6	32580-ZZ5-D11
	9.1	32580-ZZ5-D21



ELECTRICALS

Wire harness extensions

Description • 2.1M long

Application	Part Number	Comments
BF15D ~ BF20D	32570-ZW9-D01	4 plugs, extension of the main 10 wire, attaches at engine end
BF40D ~ BF250A	32570-ZY3-900	6 plugs, extension of the main 14 wire, attaches at remote control end
BF40D ~ BF250A	32570-ZW5-U20	8 plugs, extension of the main 18 wire, attaches at remote control end
BF8D / BF10D	32570-ZW9-900	4 plugs, extension of 8 wire conductor harness, attaches at engine end



2 light Panel - Indicator harness (PGM-FI)

Application	Length (M)	Part Number	Comments
BF40D ~ BF250A	6.1	32185-ZY6-020AH	Engine end has a 6 pin connector
	7.6	32185-ZY6-025AH	Helm end has both 6 & 3 pin connectors
	1.25	32185-ZY6-004AH	Used to extend the above harness



Wire harness

Application	Length (M)	Part Number	Comments
BF8 ~ BF250D	2.1	32540-ZV5-911	Harness A: connecting tachometer, trim meter, light switch and harness B
	2.1	32550-ZV5-910	Harness B: connects to Harness A, includes connections for the speedometer light, voltmeter and hourmeter
	2.1	32550-ZW5-U00	Deluxe: connects to harness A, includes connections for the speedometer light, voltmeter and hourmeter Deluxe



Main engine harness

Application	Length (M)	Part Number	Comments
BF115J ~ BF 135D ~ BF150D ~ BF175D ~ BF200D ~ BF225D ~ BF250D	6.1	32580-ZVL-901	20 feet
MECHANICAL TYPE	7.52	32580-ZVL-911	25 feet
	9.14	32580-ZVL-921	30 feet



Adaptor harness

Application	Length (M)	Part Number	Comments
BF115J ~ BF 135D ~ BF150D ~ BF175D ~ BF200D ~ BF225D ~ BF250D	1.8	32590-ZVL-901	6 feet
MECHANICAL TYPE	3.05	32590-ZVL-911	10 feet



ELECTRICALS

Smart Key Sytem

Note: Not compatible with adaptor harness

Application	Part Number	Comments
BF115J ~ BF135D ~ BF150D mechanically controlled engines	06311-ZVT-600	Horizontal Single engine kit
	06311-ZVT-610	Vertical Single engine kit
	06312-ZVT-600	Horizontal Twin engine kit
	06312-ZVT-610	Vertical Twin engine kit



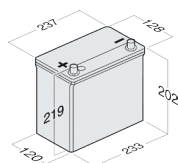
Battery

- Description**
- Totally maintenance free battery
 - Cover heatsealed
 - No filler caps
 - No contamination
 - Charge indicator

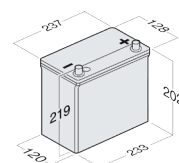


Ah	kg	Reference	BF 8D	BF 10D	BF 15D	BF 20D	BF 25D	BF 30D	BF 40D/E	BF 50D	BF 60D	BFP 60D
45	12.4	31500-ST3-111HE	■	■	■	■						
45	12.4	31500-ST3-011HE	■	■	■	■						
70	17.7	31500-SP0-031HE	■	■	■	■	■	■	■	■	■	■

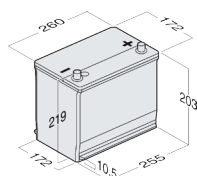
CATALOG REF 31500-ST3-011HE	
Ah	45
RES CAP MIN	75
CCA EN - 18° C	420
CCA BCI - 18° C	450
CCA IEC - 18° C	250
CCA DIN - 18° C	210
LOAD TEST AMPS	220
WEIGHT KG	12.40



CATALOG REF 31500-ST3-111HE	
Ah	45
RES CAP MIN	75
CCA EN - 18° C	420
CCA BCI - 18° C	450
CCA IEC - 18° C	250
CCA DIN - 18° C	210
LOAD TEST AMPS	220
WEIGHT KG	12.40



CATALOG REF 31500-SP0-031HE	
Ah	70
RES CAP MIN	125
CCA EN - 18° C	600
CCA BCI - 18° C	500
CCA IEC - 18° C	275
CCA DIN - 18° C	250
LOAD TEST AMPS	250
WEIGHT KG	17.65



Honda OptiMate

Description	Part Number	Comments
HONDA OptiMate 5 battery optimiser (NOT FOR UK)	08M51-EWA802E	Automatic charger, maintainer and tester for 12V lead/acid batteries for from 7,5 to 120Ah. includes crocodile clamps harness & a permanent connection harness.
HONDA OptiMate 5 battery optimiser (ONLY FOR UK)	08M51-EWA-802U	Automatic charger, maintainer and tester for 12V lead/acid batteries for from 7,5 to 120Ah. includes crocodile clamps harness & a permanent connection harness. Fitted with a 3-pin UK plug.



GAUGES

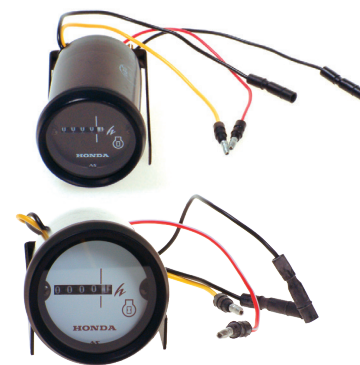


GAUGES

Hourmeter

- Description**
- 0-9999 hours
 - Flat lens
 - Drilling diameter 53MM
 - Required parts:
Wiring Harness A: 32540-ZV5-911
Wiring Harness B: 32550-ZW5-U00

Application	Part Number	Comments
BF25D ~ BF250D	06397-ZW5-U10	Black face, analogue display, req. part: 32550-ZW5-U00
	06397-ZW5-U00	White face, analogue display, req. part: 32550-ZW5-U00
BF20A ~ BF250D (Not with BF25 ~ BF50A4)	39700-ZV5-800AH	Black face, digital display, req. part: 32550-ZV5-910



Speedometer

- Description**
- Flat lens
 - Drilling diameter 53MM
 - Required parts:
Wiring Harness A: 32540-ZV5-911
Wiring Harness B: 32550-ZW5-U00
Wiring Harness 32550-ZV5-910

Application	Part Number	Comments
BF25D ~ BF250D	06373-ZW5-U11	Black face, 10-50 mph/20-80 km/h, req. part 32550-ZW5-U00
	06373-ZW5-U01	White face 10-50 mph/20-80 km/h, req. part 32550-ZW5-U00



Tachometer

- Description**
- 0-7000 rpm
 - Drilling diameter 86MM
 - Required parts:
Wire harness: 32540-ZV5-911

Application	Part Number	Comments
BF25D ~ BF250D	06375-ZW5-U11	Black face, drilling diameter 81MM
	06375-ZW5-U01	White face, drilling diameter 81MM
BF40A / BF50A, BF40D / BF50D	37250-ZV5-823	Black face, drilling diameter 81MM
BF20 / BF30D BF60 ~ BF250D	37250-ZV7-913	
BF8D ~ BF20D	37250-ZW9-902	
BF20A ~ BF250	37250-ZV5-950AH	Black face, drilling diameter 86MM



Trimmer

- Description**
- Up & down indicator
 - Flat lens
 - Drilling diameter 53MM
 - Required parts:
Wire harness: 32540-ZV5-911

Application	Part Number	Comments
BF25D ~ BF250D	06372-ZW5-U11	Black face
BF25D ~ BF250D	06372-ZW5-U01	White face
BF40 ~ BF250A	37260-ZV5-822	Black face



GAUGES

Voltmeter

- Description**
- 8-16 volts indicator
 - Flat lens
 - Drilling diameter 53MM
 - Required part:
Wire harness: 32540-ZV5-911, 32550-ZW5-U00

Application	Part Number	Comments
BF25D ~ BF250D	06374-ZW5-U10	Black face
	06374-ZW5-U00	White face



Dual assay meter with Tacho/Hour meter function

- Description**
- A five digit LCD display reads up to 99999 rpm in 20 rpm increments
 - Displays up to 9999.9 hours of engine operation before resetting to zero
 - Maximum 16000 RPM

Application	Part Number
BF2 ~ BF20	08174-ZL8-023HE



Instrument set

- Description**
- Fog Resistant
 - Includes 5* gauges: 0-7000rpm / digital hour meter, 10-65 mph / 20-100 km/h speedometer, 8-18 voltmeter, 240-33 ohms (or 10-180 ohms EU sender) fuel gauge, trim meter, drilling diameter 86MM (rpm & speed) and 53MM (volt, fuel, trim), domed lens
 - Required part:
Wire harness: 32200-ZW7-000AH

Application	Part Number	Comments
BF25 ~ BF250D	06304-ZW5-001ZB	EU Instrument set, white face, black letters



Instrument set

- Description**
- Fog Resistant
 - Includes 5* gauges: 0-7000rpm / digital hour meter, 10-65 mph / 20-100 km/h speedometer, 8-18 voltmeter, 240-33 ohms (or 10-180 ohms EU sender) fuel gauge, trim meter, drilling diameter 86MM (rpm & speed) and 53MM (volt, fuel, trim), domed lens
 - Required part:
Wire harness: 32200-ZW7-000AH

Application	Part Number	Comments
BF25 ~ BF250D	06304-ZW5-001ZA	EU Instrument set, black face, white letters



GAUGES

Instrument set

- Description**
- Fog Resistant
 - Includes 4 gauges: 0-7000rpm / digital hour meter, 10-65 mph / 20-100 km/h speedometer, 240-33 ohms (or 10-180 ohms EU sender) fuel gauge, trim meter, drilling diameter 86MM (rpm & speed) and 53MM (volt, fuel, trim), domed lens
 - Required parts:
Wire harness: 32200-ZW7-000AH



Application	Part Number	Comments
BF25 ~ BF250D	06300-ZW5-004SK	US Instrument set, Charcoal grey face - no voltmeter
	06320-ZW5-004SK	EU Instrument set, Charcoal grey face - no voltmeter

Speedometer

- Description**
- Fog Resistant
 - 10-65mph / 20-100 km/h*
 - Domed lens
 - Drilling diameter 86MM
 - Required parts:
Wire harness: 32200-ZW7-000AH



Application	Part Number	Comments
BF25 ~ BF250D	37203-ZW5-000ZB	White face, black letters, 0 ~ 65Kts
	37203-ZW5-001ZA	Black face, white letters, 0 ~ 65kts
	37200-ZW5-003SK	Charcoal grey, 0 ~ 50kts

Tacho / hourmeter

- Description**
- Fog Resistant
 - 0-7000 rpm & digital hour meter
 - Domed lens
 - Drilling diameter 86MM
 - Required parts:
Wire harness: 32200-ZW7-000AH



Application	Part Number	Comments
BF25 ~ BF250D	37253-ZW5-001ZB	White face, black letters
	37253-ZW5-001ZA	Black face, white letters
	37250-ZW5-004SK	Charcoal grey

Trimmer

- Description**
- Fog Resistant
 - Up & down indicator
 - Domed lens
 - Drilling diameter 53MM
 - Required parts:
Wire harness: 32200-ZW7-000AH



Application	Part Number	Comments
BF25 ~ BF250D	37263-ZW5-001ZB	White face, black letters
	37263-ZW5-001ZA	Black face, white letters
	37260-ZW5-004SK	Charcoal grey

GAUGES

Voltmeter

- Description**
- Fog Resistant
 - 8-18 volts indicator
 - Domed lens
 - Drilling diameter 53MM
 - Required part:
Wire harness: 32200-ZW7-000AH



Application	Part Number	Comments
BF25 ~ BF250D	37453-ZW5-001ZB	White face, black letters
	37453-ZW5-001ZA	Black face, white letters
	37450-ZW5-004SK	Charcoal grey

Fuel Meter (EU type - 10 ohms ~ 180 ohms)

- Description**
- Fog Resistant
 - For inbuilt fuel tanks
 - Drilling diameter 53MM



Application	Part Number	Comments
BF25 ~ BF250D	37304-ZW5-001ZB	EU, white face, Ohms 10Ω (empty) to 180Ω (full) scale
	37304-ZW5-001ZA	EU, black face, Ohms 10Ω (empty) to 180Ω (full) scale
	37320-ZW5-004SK	EU Charcoal grey face, Ohms 10Ω (empty) to 180Ω (full) scale

Fuel Meter (USA type - 240 ohms ~ 33 ohms)

- Description**
- Fog Resistant
 - For inbuilt fuel tanks
 - Drilling diameter 53MM



Application	Part Number	Comments
BF25 ~ BF250D	37303-ZW5-001ZB	US, white face, Ohms 240Ω (empty) to 33Ω (full) scale
	37303-ZW5-001ZA	US, black face, Ohms 240Ω (empty) to 33Ω (full) scale
	37300-ZW5-004SK	US, charcoal grey face, Ohms 240Ω (empty) to 33Ω (full) scale

Prestige Gauges

- Description**
- Tachometer and Trim function in one 3" dial - no need to mount separate gauges saving space on dash
 - Black and silver styling - compliments latest styling of Honda engine covers
 - Deutsch plug in connections - makes for easy installation/service etc
 - Harness supplied with Prestige Tach/Trim gauge provides an additional connector for easy addition of fuel gauge whenever required



Application	Part Number	Comments
BF25 ~ BF250D	06380-ZX2-U01HE	Black face tachometer trim harness
	06303-ZX2-U01HE	Black face US fuel meter Ohms 240Ω ~ 33Ω
	06304-ZX2-U01HE	Black face EU fuel meter Ohms 10Ω ~ 180Ω

GAUGES

Multi Functional Display

- Description**
- MFDS 7 inch sunlight readable touch screen
 - will be ordered using the MTOC
 - Will display engine information from up to 2 engines

Application	Comments
BF40 ~ BF250D	NMEA compliant models



Trunnion Mounting Bracket

Application	Part Number	Comments
BF40 ~ BF250D	06371-ZY6-070HE	NMEA compliant models



Marine Monitor Unit

- Description**
- BM40 - will be ordered using the MTOC

Application	Comments
BF40 ~ BF250D	NMEA compliant models



Digital Display

- Description**
- Marine 4.3" digital display

Application	Part Number	Comments
BF40 ~ BF250D	06371-ZY6-040	NMEA compliant models



PROTECTION

HONWAVE LUBRICANTS MISCELLANEOUS PROTECTION GAUGES ELECTRICALS CABLES FUEL SYSTEMS PROPELLERS NMEA 2000 PRE RIGGING CONTROLS

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PROTECTION

Remote control cover

Description • Remote control cover single and dual, top mount.

Application	Part Number
06240-ZY6-U91	06881-ZW5-U01
06240-ZY6-V92	06881-ZW5-U11



Outboard cover

Description

- Protects from UV rays, fading, sun damage
- Protects from road grime and rock chips when towing
- Keeps dust out of intakes, protects the internal workings
- Weather resistant, great for winter storage

Application	Part Number
BF2 - BF2.3	06311-ZW6-000ZB
BF2.3D	06311-ZVA-000ZB
BF4AH - BF4.5 - BF5DH -BF6AH	06311-ZV1-000ZB
BF8 - BF10	06311-ZW9-000ZB
BF15 - BF20	06311-ZV6-000ZB
BF25 - BF30	06311-ZV4-000ZB
BF40 - BF50	06311-ZV3-000ZB
BF60A - BFP60A	06311-ZZ3-000ZB
BF75DK0 - BF90DK0 - BF80 - BF100	06311-ZY9-000ZB
BF115A - BF130A	06311-ZW5-000ZB
BF115D -BF135A BF150A	06311-ZY6-000ZB
BF175 - BF225	06311-ZY3-000ZB
BF250	06311-ZX2-000ZB
BF175D - BF200D - BF225D - BF250D	06311-ZVL-000ZB



Outboard locks

Application	Part Number
BF4.5 ~ BF30	06248-ZW6-000HE
BF35 ~ BF250	06248-ZW5-000HE



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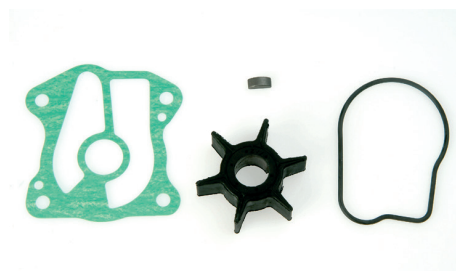
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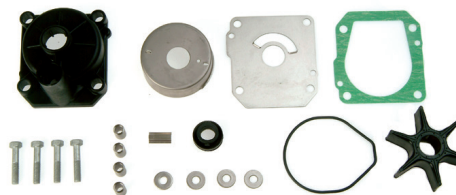
Impeller service kits

Description	For general or annual servicing / repair
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Water pump rebuild kit

Description	For rebuild and repair
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Impeller & pump kits

Application: BF5A

Part Number	Specification	Comments
06192-ZV1-C00	Impeller service Kit	Also suitable for use with BF4.5
06193-ZV1-000	Water Pump Rebuild Kit	Also suitable for use with BF4.5



Impeller & pump kits

Application: BF4AH / BF5DH / BF6AH

Part Number	Specification	Comments
06193-ZVD-000	Water Pump Rebuild Kit	



Impeller & pump kits

Application: BF8D / BF10D / BF15D / BF20D

Part Number	Specification	Comments
06192-ZW9-010	Impeller service Kit	
06193-ZW9-030	Water Pump Rebuild Kit	
06192-ZW9-A31	Impeller service Kit	Extra Long Shaft (X Type)
06193-ZW9-A33	Water Pump Rebuild Kit	Extra Long Shaft (X Type)



Impeller & pump kits

Application: BF30D

Part Number	Specification	Comments
06192-ZV7-010	Impeller service Kit	
06193-ZV7-030	Water Pump Rebuild Kit	



MISCELLANEOUS

Impeller & pump kits

Application: BF40D/BF50D - BF60A/BF40E

Part Number	Specification	Comments
06192-ZV5-013	Impeller service Kit	BF40A/BF50A - BF40D/BF50D
06193-ZV5-030	Water Pump Rebuild Kit	BF40A/50A , BF40D/50D
06193-ZZ3-020	Water Pump Rebuild Kit	BF40E/BF60A



Impeller & pump kits

Application: BFP60A / BF80A / BF100A

Part Number	Specification	Comments
06194-ZZ3-010	Water Pump Rebuild Kit	BFP60A
06193-ZY9-H02	Impeller service Kit	BF80 / 100A



Impeller & pump kits

Application: BF115D / BF115J / BF135A / BF135D / BF150A / BF150D / BF175A / BF175D / BF200A / BF200D / BF225A / BF225D / BF250D

Part Number	Specification	Comments
06192-ZY9-H01	Water pump rebuild Kit	BF115D / BF135A / BF150A
06192-ZY6-010	Impeller service Kit	
06193-ZY6-000	Water Pump Rebuild Kit	
06192-ZY6-010	Impeller service Kit	BF115J / BF135D / BF150D
06193-ZY6-A02	Water Pump Rebuild Kit	
06192-ZY3-000	Impeller service Kit	
06193-ZY3-000	Water Pump Rebuild Kit	BF175A / BF200A / BF225A
06192-ZX2-C01	Impeller service Kit	
06193-ZX2-C01	Water Pump Rebuild Kit	



MISCELLANEOUS

First maintenance service kit

Application: BF2.3D ~ BF225A BF80/100A

Part Number	Specification	Comments
06211-ZW6-505	BF2.3	Kits contain most parts to undertake first major service Example kit (BF75A / BF90A) contains: • Pump kit impeller • Oil filter • Fuel strainer • Gasket thermo • Pin split 4 • Spark plugs
06211-ZV1-606	BF5AK2	
06211-ZVD-505	BF4AH / BF5DH / BF6AH	
06211-ZW9-505	BF8D / BF10D	
06211-ZY0-505	BF15D / BF20D	
06211-ZZ5-505	BF40D / BF50D	
06211-ZZ3-506	BF40E / BF60D	
06211-ZZ0-505	BF80A / BF100A	
06211-ZY6-507	BF115D/DK1	
06211-ZY2-506	BF175A / BF200A / BF225A	
06150-ZVL-100HE	BF175D / BF200D / BF225D / BF250D	100 hours maintenance
06150-ZVL-200HE		200 hours maintenance
06150-ZVL-400HE		400 hours maintenance
06150-ZVR-100HE	BF115J / BF135D / BF150D	100 hours maintenance
06150-ZVR-200HE		200 hours maintenance
06150-ZVR-400HE		400 hours maintenance



Transom Bolt Kits

Application: BF25D ~ BF250D

Part Number	Specification (mm)/Qty	Comments
06413-ZV7-000	10 x 100 (4)	BF25D / BF30D
06413-ZZ5-000HE	12 x 100 (4)	BF40D / BF50D
06413-ZZ3-000HE	12 x 100 (4)	BF60A / BFP60A
06413-ZW1-000HE	12 x 119 (4)	BF75D / BF90D / BF80A / BF100A
06413-ZY9-000HE	12 X 130 (4)	BF115D / BF250
90129-ZZ3-010AH	12 X 160 (2)	BF75 / BF250



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Lubricants

Application: BF2~ BF250D

4 Stroke Engine Oil

- Mineral based Marine engine oil
- Formulated for use with Honda Motors
- High quality solvent refined base oil

Gear Oil

- Mineral based lubricant
- Formulated for use in mechanical transmissions
- High quality solvent refined base oil

Marine Grease

- High quality multi purpose lithium grease
- Excellent anti corrosion / oxidation additives

Automatic Transmission Fluid

- ATF-Z1 for Trim & Tilt



Part Number	Specification	Comments
08221-999-100HE	4 Stroke engine oil - AP / SJ 10 W 30	1 x litre Bottle (to be ordered in multiples of 12pcs)
08221-999-124MP	4 Stroke engine oil - AP / SJ 10 W 30	Multi pack - 24 x 1litre Bottles
08221-999-500HE	4 Stroke engine oil - AP / SJ 10 W 30	1 x 5 litre Bottle
08221-999-600HE	4 Stroke engine oil - AP / SJ 10 W 30	60 litre
08221-999-208HE	4 Stroke engine oil - AP / SJ 10 W 30	208 litre
08251-999-102HE	Marine gear oil - SAE 90 GL4	1 x litre Bottle
08251-999-101MP	Marine gear oil - SAE 90 GL4	Multi pack - 12 x 1litre Bottles
08739-B06-100HE	Honda Marine Grease (Lithium Nr 2)	400 gr Tube
08268-99904HE	Honda Marine ATF-DW1	4 litre barrel

Lubricants

Application: BF40D~ BF50D

Synthetic oil

A range of modern oils & lubricants have been developed to provide superior levels of engine protection in the harshest of marine environments.

- Superior protection against engine wear at low and high operating temperatures
- Excellent anti rust performance
- Outstanding engine cleanliness
- Reduced oil / fuel consumption



Application	Part Number	Specification	Comments
BF40D ~ BF50D	08221-777-060HE	4 Stroke Synthetic engine oil 05W30 API SL JASO MA	1 x 0.6 litre Bottle (to be ordered in multiples of 12pcs)
	08221-777-060MP		Multi pack - 24 x 0.6 litre Bottles
	08221-777-100HE		1 x 1 litre Bottle (to be ordered in multiples of 12pcs)
	08221-777-100MP		Multi pack - 24 x 1litre Bottles
	08221-777-400HE		1 x 4 litre Bottle
	08221-777-400MP		Multi pack - 4 x 4 litre Bottles

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Gear Oil Pump

Application: BF2~ BF250D

Part Number	Comments
08200-9011-HE	Fits standard Honda Marine 1 litre Gear oil bottle



Oil Extractor

Application: BF2~ BF250D

Description

- Vacuum engine oil extractor
- Removes oil from engine with no spills or mess
- Float mechanism prevents overfill
- Capacity of 6.5 litres

Part Number	Comments
07999-ZW7-000AH	
07998-ZW7-009AH	Replacement extractor tube (225mm)



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ACCESSORIES

Bow Bag Oxford

Description • Including Small D-ring 6ea+ 30g glue 2ea

Application	Part Number
T20-SE1 / T20-SE2 / T20-SE3 / T25-SE1 / T25-SE2 / T25-SE3 / T25-AE1 / T25-AE2 / T25-AE3 / T30-AE1 / T30-AE2 / T30-AE3	06310-ZV5-T25HE
T24-IE1 / T24-IE2 / T24-IE3 / T27-IE1 / T27-IE2 / T27-IE3 / T32-IE1 / T32-IE2 / T32-IE3	06310-ZV5-T24HE
T38-IE1 / T38-IE2 / T38-IE3	06310-ZV5-T38HE
T35-AE1 / T35-AE2 / T35-AE3 / T40-AE1 / T40-AE2 / T40-AE3	06310-ZV5-T35HE



Seat bag

Application	Part Number
T25-SE1 / T25-SE2 / T25-SE3 / T25-AE1 / T25-AE2 / T25-AE3 / T30-AE1 / T30-AE2 / T30-AE3 / T27-IE1 / T27-IE2 / T27-IE3 / T32-IE1 / T32-IE2 / T32-IE3	06883-ZV5-T11HE
T35-AE1 / T35-AE2 / T35-AE3 / T38-IE1 / T38-IE2 / T38-IE3	06883-ZV5-T21HE
T40-AE1 / T40-AE2 / T40-AE3	06883-ZV5-T31HE



Boat cover

Application	Part Number
T20-SE1 / T20-SE2 / T20-SE3	06311-ZV5-T61HE
T25-SE1 / T25-SE2 / T25-SE3	06311-ZV5-T71HE
T25-SE1 / T25-SE2 / T25-SE3	06311-ZV5-T76HE
T24-IE1 / T24-IE2 / T24-IE3	06311-ZV5-T81HE
T27-IE1 / T27-IE2 / T27-IE3	06311-ZV5-T01HE
T32-IE1 / T32-IE2 / T32-IE3	06311-ZV5-T11HE
T38-IE1 / T38-IE2 / T38-IE3	06311-ZV5-T51HE
T30-AE1 / T30-AE2 / T30-AE3	06311-ZV5-T21HE
T35-AE1 / T35-AE2 / T35-AE3	06311-ZV5-T31HE
T40-AE1 / T40-AE2 / T40-AE3	06311-ZV5-T41HE
T38-IE1 / T38-IE2 / T38-IE3	06311-ZV5-T61HE



Seat kits

Description • Additional kits including holders and glue

Application	Part Number
T24-IE1 / T24-IE2 / T24-IE3 / T25-AE1 / T25-AE2 / T25-AE3 / T25-SE1 / T25-SE2 / T25-SE3 / T27-IE1 / T27-IE2 / T27-IE3 / T30-AE1 / T30-AE2 / T30-AE3 / T32-IE1 / T32-IE2 / T32-IE3	77210-ZV5-T30HE
T35-AE1 / T35-AE2 / T35-AE3 / T38-IE1 / T38-IE2 / T38-IE3	77210-ZV5-T40HE
T40-AE1 / T40-AE2 / T40-AE3	77210-ZV5-T50HE



ACCESSORIES

Boat bag

Application	Part Number
T20-SE1 / T20-SE2 / T20-SE3	06893-ZV5-T41HE
T24-IE1 / T24-IE2 / T24-IE3/ T25-SE1 / T25-SE2 /T25-SE3 / T25-AE1 / T25-AE2 / T25-AE3 / T30-AE1 / T30-AE2 /T30-AE3 / T27-IE1 /T27-IE2 / T27-IE3 / T32-IE1 / T32-IE2 / T32-IE3	06893-ZV5-T51HE
T35-AE1 / T35-AE2 / T35-AE3 / T38-IE1 / T38-IE2 / T38-IE3 - Bag for Boat Only	06893-ZV5-T61HE
T35-AE1 / T35-AE2 / T35-AE3 / T38-IE1 / T38-IE2 / T38-IE3 - Bag for Aluminium Floor	06893-ZV5-T70HE
T40-AE1 / T40-AE2 / T40-AE3 - Bag for the Boat Only	06893-ZV5-T81HE
T40-AE1 / T40-AE2 / T40-AE3 - Bag for the Aluminium Floor	06893-ZV5-T90HE



Wheel kit

Application	Part Number	Comments
T32-IE3 / T38-IE3 / T35-AE3 / T40-AE3	06427-ZV5-T20HE	Inflatable, Slatted and aluminium floor

