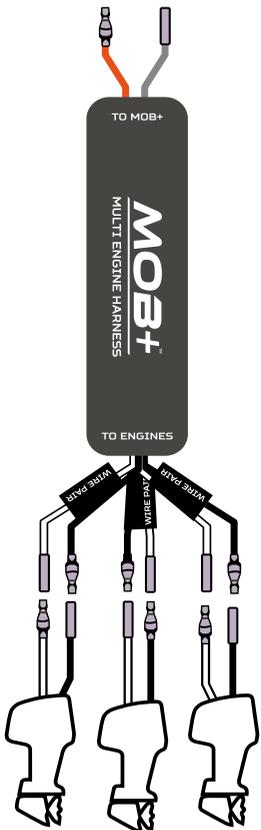




FELL Technology AS
Designs, manuals and features subject
to change. For more information visit our
website: www.fellmarine.com

MOB+™

MULTI ENGINE HARNESS



MULTI ENGINE HARNESS FOR THE MOB+ WIRELESS MAN OVERBOARD SYSTEM

⚠ WARNING

Disconnect battery cables at battery before attempting to install this product

Read all instructions carefully before use of this product.

FELL Marine equipment and accessories are designed to the best industry standards for use in the recreational marine environment. Their design and manufacture conforms to the appropriate Electromagnetic Compatibility (EMC) regulations, but correct installation is required to ensure that performance is not compromised. Please see section EMC Installation Guidelines in the User Manual for optimum EMC conditions.

⚠ CAUTION

Within the wireless range MOB+ will not shut down the engine automatically e.g. if you fall in your boat within the wireless range the engine will not stop automatically. In this event, you can shut down the engine by pressing the button on your MOB+ xFOB or on the MOB+ xHUB. Always check your wireless range before use.

Important information and caution

Read all instructions carefully before use of this product.

FELL Marine equipment and accessories are designed to the best industry standards for use in the recreational marine environment. Their design and manufacture conforms to the appropriate Electromagnetic Compatibility (EMC) regulations, but correct installation is required to ensure that performance is not compromised. Please see section EMC Installation Guidelines in the User Manual for optimum EMC conditions.

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Make sure that the system is working properly before leaving the dock. Refer to the next page in this User Manual for instructions on how to use the system and information about normal system operations.

Always make sure to check the battery level sign on the xHUB before driving the boat. Confer with section Battery Indication in the User Manual to check how many hours there are left of battery life on the xFOB.

Never attempt fast speed or dangerous maneuvers of the boat, especially if battery level is low on the xFOB. Battery depletion of xFOB can cause sudden engine stop and result in loss of control or maneuverability of the boat.

Never attempt any service of inside components in either the xHUB or the xFOB.



Voir www.fellmarine.com/support pour des informations importantes, consignes d'installation CEM, la garantie et exclusions en français.



Ver www.fellmarine.com/support para obtener información importante, pautas para la instalación de EMC la garantía y limitaciones de responsabilidad en Español.



Siehe www.fellmarine.com/support für wichtige Informationen, EMV-Installationsrichtlinien Gewährleistung und Haftungsausschlüsse in deutscher Sprache.

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Disclaimer

Always boat responsibly. Before starting, know your boat and waterway rules. Always follow your boat manufacturer's procedures of operation. Never overboard the boat and be sure to wear your life jacket at all times. Check your boat for all required safety equipment and never operate a boat under the influence of alcohol. Check your local weather forecast before leaving the dock and always provide a float plan to your marina, member of your family or friend.

In no event shall FELL Technology AS and its subsidiaries and/or its suppliers, agents or affiliates be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the improper installation, misuse, improper maintenance, self-repair, or tampering of our products.

Other safety considerations

Small parts contained in your device and its accessories may present a choking hazard to small children. Personal medical devices, such as pacemakers, may be sensitive to magnetic and electromagnetic fields. Since this device contain magnets and emit electromagnetic fields, they should be kept at least 30 cm from any personal medical device. If any interference is observed, consult with your physician before resuming use. Items with magnetically-stored data, such as credit cards and hard drives, may also be sensitive to magnetic or electromagnetic fields, and should not be placed near this device.

CE Declaration of Conformity

FELL equipment and accessories are designed to the best industry standards for use in the recreational marine environment. Their design and manufacture conforms to the appropriate Electromagnetic Compatibility (EMC) regulations, but correct installation is required to ensure that performance is not compromised. Please see section EMC Installation Guidelines in the User Manual for optimum EMC conditions. Products sold in the EU/CEEA is in accordance with the essential requirements and other relevant provisions of R&TE Directive 1990/269/EEC.

Recycling: In some areas, the disposal of certain electronic devices is regulated. Make sure you dispose of or recycle all FELL devices in accordance with your local laws and regulations.

Patent notice: The FELL devices and/or methods used in association with the FELL devices may be covered by one or more patents or pending patent applications.

Warranty, Important Product- and Safety Information

Failure to avoid the following potentially hazardous situations could result in an accident or collision resulting in death or serious injury.

Disclaimer: By using this device you agree upon all the following guidelines and information provided in this document. Read all instructions carefully before using this device. Always boat responsibly. Before starting, know your boat and waterway rules. Always follow your boat manufacturer's procedures of operation. Never overboard the boat and be sure to wear your life jacket at all times. Check your boat for all required safety equipment and never operate a boat under the influence of alcohol. Check your local weather forecast before leaving the dock and always provide a float plan to your marina, member of your family or friend. In no event shall FELL and its subsidiaries and/or its suppliers, agents or affiliates be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the improper installation, use, misuse, improper maintenance, self-repair, or tampering of our products.

Marine Operation Warnings

- You are responsible for the safe and prudent operation of your vessel. This device is a tool to enable you to enhance your safety while operating your vessel. It does not relieve you from the responsibility of safely operating your vessel. Avoid navigational hazards and never leave the helm unattended.
- Always drive the boat carefully and in accordance with local laws.
- Use this device only as a safety aid. This device does not replace the cord based kill switch, and should be used at your own discretion and responsibility, knowing that in the event that you fall in your vessel the system may not automatically shut down your engine.
- This device will shut down your engine and give an alarm signal when you are out of wireless range or falls into the water within 2 seconds. Within the wireless range this device will not shut down the engine automatically e.g. if you fall in your boat within the wireless range the engine will not stop automatically. In this event, you can shut down the engine by pressing the button on your MOB+ xFOB or on the MOB+ xHUB. Always check your wireless range before use. The wireless range may vary from 5 – 20 meters depending on the wireless environment surrounding your vessel.
- Make sure that the system is working properly before leaving the dock. Refer to the section Using MOB+ in the User Manual for instructions on how to use the system and information about normal system operations.
- Always make sure to check the battery level sign on the xHUB before operating your vessel. Confer with section Battery Indication in the User Manual to check how many hours there are left of battery life on the xFOB.
- Never attempt fast speed or dangerous maneuvers of the boat, especially if battery level is low on the xFOB. Battery depletion of xFOB can cause sudden engine stop and result in loss of control or maneuverability of the boat.
- Do not leave your xFOB in the boat unobserved, this to prevent easy theft of the boat if the ignition key is also situated in the vessel. Please refer to the engine manufacturer for information regarding ignition and starting procedure of the engine.

Limited Warranty

This FELL product is warranted to be free from defects in materials or workmanship for two years from the date of purchase. Within this period, FELL will, at its sole option, repair or replace any components that fail in normal use. Such repairs or replacements will be made at no charge to the customer for parts or labor, provided that the customer shall be responsible for any transportation cost. This warranty does not apply to: (i) cosmetic change, such as scratches, nicks and dents; (ii) consumable parts, such as batteries, unless product damage has occurred due to the defect in materials or workmanship; (iii) damage caused by accident, abuse, misuse, water, flood, fire, or other acts of nature or external causes; (iv) damage caused by service performed by anyone who is not an authorized service provider of FELL, or (v) damage to a product that has been modified or altered without the written permission of FELL, or (vi) damage to a product that has been connected to power and/or data cables that are not supplied by FELL. In addition, FELL reserves the right to refuse warranty claims against products or services that are obtained and/or used in contravention of the laws of any country. Repairs have 180 day warranty. If the unit sent in is still under its original warranty, then the new warranty will be for the remainder of the original two year warranty, depending on which is longer. For specific instructions about how to obtain warranty service for your device, please contact FELL support. THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE/COUNTRY TO STATE/COUNTRY. IN NO EVENT SHALL FELL, ITS SHAREHOLDERS, BOARD OF DIRECTORS, OR EXECUTIVE LEADERS BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. SOME STATES/COUNTRIES DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. SOME JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG A STATUTORY OR IMPLIED WARRANTY LASTS. SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. This limited warranty gives you specific rights. You may have additional rights under applicable law, and this limited warranty does not affect such rights. FELL retains the exclusive right to repair or replace (with a new or newly-overhauled replacement product) the device or software or offer a full refund of the purchase price at its sole discretion. SUCH REFUND SHALL BE YOUR SOLE EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY. To obtain warranty service, contact your local FELL authorized dealer or call FELL Support for shipping instructions and an Return Ticket Number. Securely pack the device and a copy of the original sales receipt, which is required as the proof of purchase for warranty repairs. Write the tracking number clearly on the outside of the package. Send the device, freight charges prepaid, to your nearest FELL address. See www.fellmarine.com to find your nearest address for return or contact your local FELL dealer. ONLINE AUCTION PURCHASES: Products purchased through online auctions are not eligible for rebates or other special offers from FELL warranty coverage. Online auction confirmations are not accepted for warranty verification. To obtain warranty service, an original or copy of the sales receipt from the original retailer is required. FELL will not replace missing components from any package purchased through an online auction.

FOR INTERNATIONAL PURCHASES: A separate warranty may be provided by international distributors for devices purchased outside Norway or the United States depending on country. If applicable, this warranty is provided by the local in-country distributor and this distributor provides local service for your device. Distributor warranties are only valid in the area of intended distribution.

FOR AUSTRALIAN CONSUMERS: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

Warranty provider
FELL Technology AS Nedre Storgate 46, N-3015 Drammen, Norway
Org.No: 912 282 554 - Website: www.fellmarine.com
Tel: +47 32 82 82 80

Support: support@fellmarine.com
Additional information
www.fellmarine.com
www.fellmarine.com/support

MOB+ MULTI ENGINE HARNESS

This product is designed to be used in conjunction with the MOB+ xHUB to stop up to three engines simultaneously for multiple outboard installations. The MOB+ xHUB should be installed prior to installation of this Multi Engine Harness.

TECHNICAL SPECIFICATION - MULTI ENGINE HARNESS	
Measurements and performance	
Weight	0,7oz. / 20g
Wires	18AWG / -0,8mm ² , Tinned
Voltage Max	1kV
Amp. Rating	1A
Dimensions (including wires)	14,7 x 0,7 x 0,35 in / 360 x 18 x 9mm
Temperature Range	From 5°F / -15°C to 131°F / 55°C
Certifications and compliance	
ABYC A-33 compliant	<input checked="" type="checkbox"/>
RoHS (2002/95/EC) compliant materials	<input checked="" type="checkbox"/>
Safety	IEC 60950, CE-UL94

SUPPORT

WATCH VIDEOS!
On www.fellmarine.com/videos you will find installation and user guide videos.

WE ARE HERE TO HELP YOU
Please feel free to contact us with any inquiry.
Customer care: www.fellmarine.com/customer-care
Business hours: Monday-Friday 08:00am – 04:00pm
Email: support@fellmarine.com
Web support: www.fellmarine.com/support/
Social Media: [facebook.com/fellmarine](https://www.facebook.com/fellmarine)
Web: www.fellmarine.com

Product category: Marine electronics

WARNING: CHOKING HAZARD
Small parts. Not for children under 3 years

Norway
FELL Technology AS
Nedre Storgate 46
N-3015, Drammen
www.fellmarine.com
mail@fellmarine.com

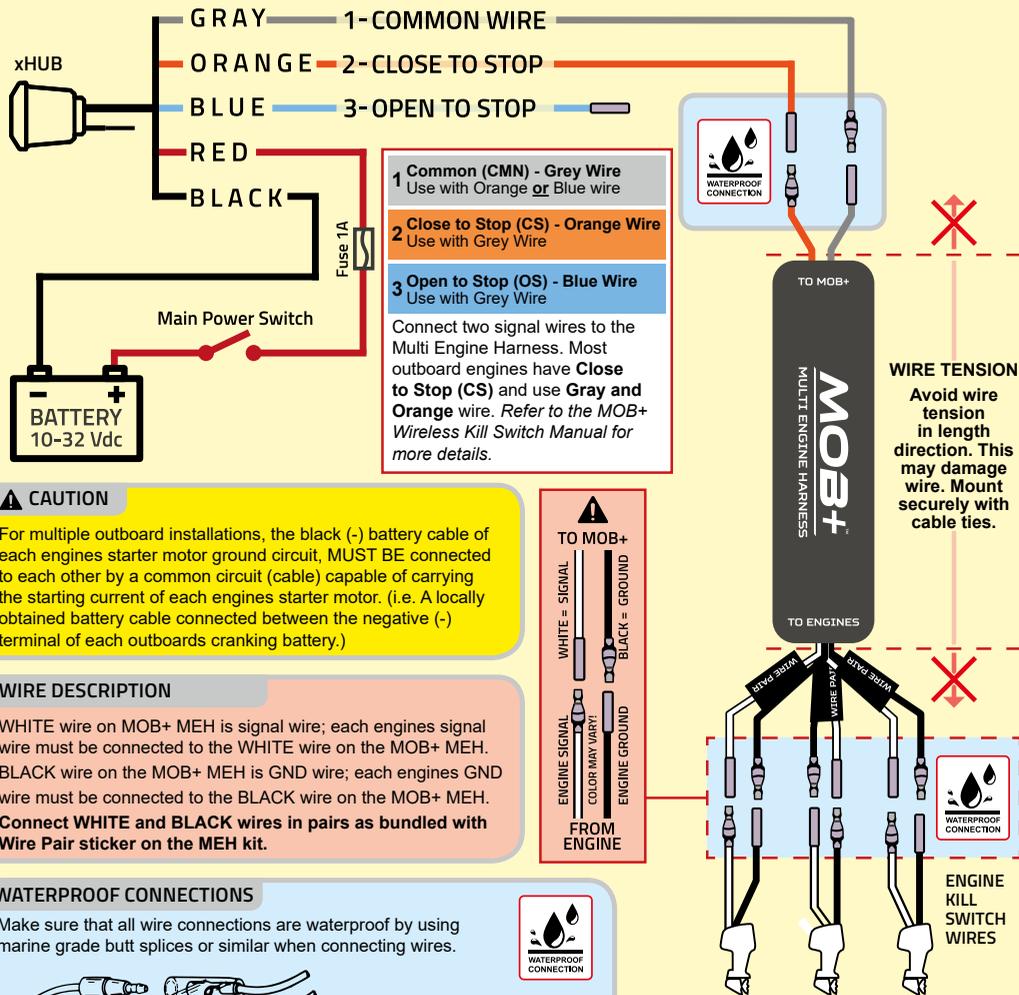
Designed in Norway. Printed in China

Part name: MOB+ Multi Engine Harness
P/N: (F-A/N): 72.380.401
Availability: FELL Marine dealers and buy.fellmarine.com

INSTALLATION

WIRING DIAGRAM

TO BE USED ON OUTBOARD ENGINES ONLY



! When used on two outboard engines only. Connect two of the three wire pairs to your two engines. Attach the included closed end terminals to the wire pair not used.

VERIFY INSTALLATION

PAIRING AND CONNECTING

1 After proper installation, pair the xFOB and the xHUB as described below. The xHUB remembers the 20 last paired xFOBs. Pairing saves the ID of xFOBs in the memory of the xHUB. Pairing is only done the first time you use an xFOB with an xHUB.



HOLD 3 SEC

Pairing is only necessary the first time you use your MOB+™. Press and hold the button on your xHUB™.



BLUE LIGHT

Release the button when the xHUB™ starts flashing blue and gives a sound signal indicating Pairing Mode.



HOLD 3 SEC

Immediately after releasing the button on the xHUB™, press and hold the button on your xFOB™.



GREEN LIGHT

The xHUB™ will give a sound signal and a green light to indicate a successful pairing.



CONNECT

Click the button on your xFOB to connect.



CONNECTED

The xHUB™ will give a sound signal and a green light to indicate a successful connection.

IMPORTANT

- !** We recommend that the installation of the MOB+ in your boat is performed by skilled personnel familiar with electric wiring, or by a professional mechanic or electrician. This is to prevent any malfunction of the device related to installation.

SYSTEM TEST

2 After installation, test the system as described below to ensure installation is done correctly. Always make sure the system is working properly before operating your vessel.



CONNECT

Click the button on your xFOB to connect.

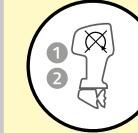


The xHUB™ will give a sound signal and a GREEN light to indicate a successful connection.



START ENGINES

Start your engines.



TEST THE MOB+

Test the MOB+ by disconnecting with the xFOB or by submerging the xFOB.

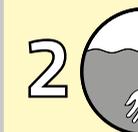
Both described methods are equal in terms of testing stop functionality.



DISCONNECT

Click the xFOB to stop the engines -The system will now shut down the engines and disconnect the wireless system.

RECONNECT AND RESTART THE ENGINES BEFORE TESTING SUBMERSION



SUBMERSION

Submerge the xFOB in the sea or the ocean more than 4 inches / 10cm. -The system will now go into Man Over Board mode and shut down the engine. After 6 seconds the xHUB will go into override mode. Press the xHUB or xFOB to disconnect the wireless system.



A bucket of water is not sufficient to test the functionality of MOB+. Test the system in the sea or ocean/lake.