



CERTIFICATE NUMBER 26-0452770-PDA
EFFECTIVE DATE 15-Jan-2026
EXPIRY DATE 14-Jan-2031
ABS TECHNICAL OFFICE Houston ESD

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

KOBELT MANUFACTURING CO. LTD.

located at

8238 129TH STREET, , SURREY, Canada, V3W 0A6

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product: **Electronic Engine Control Module**

Model: **Steering Control Equipment: 7170, 7171 7181, 7195, 7196, 7197, 7198, 6511-AP8, 6511- APS10 & 6511-HL, 7173-KAS & 7173-TX-SPEC, 7175, 7178, 7180**

Engine Control Equipment: 6570, 657...

Endorsements:

Tier: **3 - Type Approved, unit certification not required**

This Product Design Assessment (PDA) Certificate remains valid until 14/Jan/2031 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Electronically Signed by:

John Vincent B. Ulep
Senior Principal Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

KOBELT MANUFACTURING CO. LTD.

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SURREY B.C.

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Telephone: 604-572-3935

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Web: www.kobelt.com

Tier: 3 - Type Approved, unit certification not required**Product: Electronic Engine Control Module****Model: Steering Control Equipment: 7170, 7171 7181, 7195, 7196, 7197, 7198, 6511-AP8, 6511-APS10 & 6511-HL, 7173-KAS & 7173-TX-SPEC, 7175, 7178, 7180****Engine Control Equipment: 6570, 6570S, 6657, 6652, 6511-APE10, 6511-TP****Endorsements:****Intended Service:**

Steering and Engine Control in Marine & Offshore Application

Description:

Electronic Steering & Engine Control Equipment

Rating:

24 VDC

Model	Application	Drawing no.
7170	Jog Lever	7170_Ga Rev. A
7171	Full Follow Up Control Lever	C-7171 Rev. A
7181	Full Follow Up Control 240°	C-7181 Rev. B
7195	Stacked Full Follow Up Lever	D-7195 Rev. C
7196	Two Speed	C-7196 Rev. L
7197	Single FFU/Jog Lever Combination	D-7197 Rev. C
7198	Dual FFU/Jog Lever Combination	D-7198D Rev. -
7173-KAS	Full Follow Up Amplifier Unit	7173_TDS KAS Rev. -
7173-KAS	Wiring Diagram	B-401270 Rev. B
7173-TX-SPEC	Electronic Transfer Unit	7173-TX-SPEC Rev. -
6511-AP8	Steering Gear Alarm Panel	C-6511-AP8-S Rev. B
6511-HL	Hydraulic Lock Interface Unit	6511-HL Rev. -
7175	Rudder and Pitch Angle Indicators	7175/7180 Rev. -
7178	Rudder Angle Indicator	7178 Rev. -
7180	Rudder Angle Indicator	7175/7180 Rev. -
7175	Rudder and Pitch Angle Indicators	7175-MZ_GA Rev. C
6570	Electronic Control Head (6525)	H-6570 Rev. -
6570S	Electronic Control Head (MM)	H-6570S Rev. -
6657	Electronic Control Head	C-6657 Rev. B
6652	Electronic Control Head	D-6652 Rev. B
6652	6652 Connection Diagram	B-402077 Rev. A
6511-APE10	Engine Monitoring Alarm Panel	C-6511-APE10_GA Rev. A
6511-APS10	Steering Gear Alarm Panel	6511-APS10_GA Rev. B
6511-TP	Telegraph Panel	C-6511-TP Rev. -

Service Restriction:

Unit Certification is not required for this product.

If the manufacturer or purchaser's request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Tests and approval for hardware only. Each particular application/configuration is to be specifically approved.
3. For Category II or III Computer Based Systems (Programmable Electronic Systems) in accordance with 4-9-3/7.1 and 4-9-3/Table 1 of the ABS Marine Vessel Rules, the requirements in 4-9-3/9.3.4 and 4-9-3/Table 2 of the ABS

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Marine Vessel Rules are applicable.

4. Review of Cyber security and Cyber-Resilience for vessels as per ABS Marine Vessel Rules 4-9-13 are not included in this assessment. The system integrator is required to assess cyber security as part of the whole system implementation for vessels and/or offshore installations contracted after July 2024.

Notes/Drawing/Documentation:

Certificate No. 18-VA3490578-A, MA Cert 18-VA3490578-A (2018-2023) 2020 endorsement

Drawing No. 6511-APS10-GA_revB, Alarm Panel - Steering; 10 Point, Revision: B

Drawing No. 6511-AP8-S_revB, Steering Alarm Panel (8 point), Revision: B

Drawing No. 6511-APE10_GA_revB, Alarm Panel - Engine; 10 Point, Revision: A

Drawing No. 6511-HL_dwg, Hydraulic Lock Interface Unit, Revision: -

Drawing No. 6511-TP_dwg, Telegraph Panel, Revision: -1

Drawing No. 6570S_dwg, Electronic Control Head (Mighty Mariner), Revision: -

Drawing No. 6570_dwg, Electronic Control Head (6525), Revision: -

Drawing No. 6652_dwg, Electronic Control Head, Revision: B

Drawing No. 6657_dwg, Electronic Control Head, Revision: B

Drawing No. 7170_GA_revA, Jog Lever, Single Speed, Revision: A

Drawing No. 7171_REV A, Full Follow-Up Control Lever, Revision: A

Drawing No. 7173-KAS product dwg, Full Follow-Up Amplifier Unit, Revision: -

Drawing No. 7173-KAS wiring dwg, 7173-KAS Full Follow-Up Amplifier Detailed Wiring Diagram, Revision: B

Drawing No. 7173-TX-SPEC_dwg, Electronic Transfer Unit, Revision: -

Drawing No. 7175-MZ_GA_revC, Panel Meter, Voltage Input, Master, Revision: C

Drawing No. 7175-SZ_GA_revC, Panel Meter, Voltage Input, Slave, Revision: C

Drawing No. 7178_dwg, Panoramic Rudder Angle Indicator, Revision: -

Drawing No. 7180_Drawing_rev0, Rudder Angle Indicator 7180, Revision: -

Drawing No. 7181_revB, FFU Control 240A° (With Switches), Revision: B

Drawing No. 7195_revC, Stacked FFU Lever (For Push Boat), Revision: C

Drawing No. 7196_revL, Jog Lever, Dual Speed, Revision: L

Drawing No. 7197_revC, Single FFU/Jog Lever Combination with Rudder Angle Indicator, Revision: C

Drawing No. 7198_dwg, Dual FFU/Jog Lever Combination, Revision: -

Drawing No. Test Report-Steering system, Test Report - QAI E10996-2302_Kobelt_Steering System_ Rev 1.0, Revision: 1.0, Pages:

Drawing No. Test Report-Propulsion system, Test Report - QAI E10996-2302_Kobelt_Propulsion System_ Rev 1.0, Revision: 1.0, Pages:

Drawing No. Test Report 7175, Test Report - QAI E10996-2107_Kobelt_Steering Rudder Angle Indicator_ Rev 2.0, Revision: 2.0, Pages:

Terms of Validity:

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STANDARDS

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ABS Rules:

2026 Rules for Conditions of Classification 1-1-4/7.7, 1-1-A3 and A4, which covers the following:

2026 Rules for Building and Classing Marine Vessel Rules: 4-8-3/1.11, 4-8-3/Table 2, 4-9-9/Table 1 & Table 2

2026 Rules for Conditions of Classification - Offshore Units and Structures 1-1-4/9.7, 1-1-A2 and A3, which covers the following:

2026 Rules for Building and Classing Mobile Offshore Units: 4-3-1/15, 4-3-1/17.1

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA