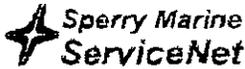


# Post Incident

SCHEMEL PRESS (CHARLOTTEVILLE VA 22911) 3011668 00 000



## PRODUCT SERVICE REPORT NORTHROP GRUMMAN SPERRY MARINE

PSR#: 759765

Ship Name <b>COSCO BUSAN</b>	IMO # <b>4231743</b>	USC Sign <b>VRD16</b>	<input type="checkbox"/> Normal Charge	<input type="checkbox"/> Warranty																																																																																												
Owner Company Name	Port of Call <b>OAKLAND, CA</b>	Date of Service <b>12-NOV</b>	<input type="checkbox"/> Service	<input type="checkbox"/> Product Warranty																																																																																												
Service Req. # <b>98880</b>	Service Station Name / # <b>CS1860</b>		<input type="checkbox"/> Installation	<input type="checkbox"/> Service Warranty																																																																																												
Equipment Type <b>GYRO</b>	Model <b>NAVIGATOR MK1 / SR200</b>	Software Version	<input type="checkbox"/> Maintenance Contract																																																																																													
Serial Number <b>5538 / 1101</b>	Location of Serial Number <b>SIDE / TOP</b>	Raw	OEM?																																																																																													
Problem Description <b>VERIFY OPERATION.</b>																																																																																																
Report <b>BOTH GYRO'S PROVIDING GOOD DATA TO VMS AND RADAR. GYRO SELECTABLE AT VMS OR AT COMPASS MONITOR GYRO'S WITH IN POINT 2 DEGREES OF EACH OTHER. NO ALARMS AND ARE OPERATING CORRECTLY. COURSE RECORDER PRINTING HEADLINE AND RUDDER INFORMATION CORRECTLY.</b>																																																																																																
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Engineer Name <b>CHRISTOPHER TAYLOR</b>	Engineer Code <b>17690</b>	Engineer Signature <i>Christopher Taylor</i>																																																																																														
MATERIAL SUPPLIED			MATERIAL REMOVED																																																																																													
QTY	PART NUMBER	REV	DESCRIPTION	SERIAL NO.	NEW	DEF	REPA	REPL	OTHER	SERIAL NO.	NEW	DEF	REPA	REPL	OTHER																																																																																	
<table border="1"> <tr> <th colspan="7">LABOR</th> <th colspan="3">EXPENSES</th> <th colspan="6">CUSTOMER ACCEPTANCE</th> </tr> <tr> <th>DATE</th> <th>ENG CODE</th> <th>ENG INIT</th> <th>TRAVEL ST OT</th> <th>ONBOARD ST OT</th> <th>IN OFFICE ST OT</th> <th>WAITING ST OT</th> <th>MILES</th> <th>TELEPHONE</th> <th>HOTEL</th> <th>MEALS</th> <th>AIR</th> <th>TOLLS</th> <th>MISC</th> <th>TTL EXP</th> <th>TTL LABOR</th> <th>TTL MATL</th> <th>TTL PSR</th> <th colspan="6">THE WORK DESCRIBED ABOVE HAS BEEN CARRIED OUT TO MY SATISFACTION</th> </tr> <tr> <td></td> <td colspan="6">                     PRINT NAME: <b>SUN MDC (2)</b>                      TITLE: <b>CAPTAIN</b>                      SIGN: <i>[Signature]</i>                      COMMENTS:  <b>NORTHROP GRUMMAN Sperry Marine</b>  <b>CM Taylor</b>  <b>FCC# DBG8067821</b> </td> </tr> <tr> <td colspan="17">                     SHIP'S STAMP  <b>M.V. COSCO BUSAN</b>                      THANK YOU FOR USING SPERRY MARINE  <b>ServiceNet</b> </td> </tr> </table>																LABOR							EXPENSES			CUSTOMER ACCEPTANCE						DATE	ENG CODE	ENG INIT	TRAVEL ST OT	ONBOARD ST OT	IN OFFICE ST OT	WAITING ST OT	MILES	TELEPHONE	HOTEL	MEALS	AIR	TOLLS	MISC	TTL EXP	TTL LABOR	TTL MATL	TTL PSR	THE WORK DESCRIBED ABOVE HAS BEEN CARRIED OUT TO MY SATISFACTION																								PRINT NAME: <b>SUN MDC (2)</b> TITLE: <b>CAPTAIN</b> SIGN: <i>[Signature]</i> COMMENTS: <b>NORTHROP GRUMMAN Sperry Marine</b> <b>CM Taylor</b> <b>FCC# DBG8067821</b>						SHIP'S STAMP <b>M.V. COSCO BUSAN</b> THANK YOU FOR USING SPERRY MARINE <b>ServiceNet</b>																
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JOB NO.	<b>98880</b>						CHARGE NO.																																																																																									

HEADQUARTERS: SPERRY MARINE • 1070 SEMINOLE TRAIL • CHARLOTTEVILLE, VA 22901-8091 USA (434) 874-2000  
ATTENTION: TERMS AND CONDITIONS ON REVERSE SIDE.

J 8274-1

REGIONAL OFFICE

Pre-Incident



**PRODUCT SERVICE REPORT**  
NORTHROP GRUMMAN SPERRY MARINE

PSR#: 797504

Vessel Name <u>COCO BEAN</u>	IMC# / Hull#	Call Sign	<input checked="" type="checkbox"/> Normal Charge	<input type="checkbox"/> Warranty
Owner Company Name	Port of Call <u>SAN FRANCISCO</u>	Date of Service <u>12/11/07</u>	<input checked="" type="checkbox"/> Service	<input type="checkbox"/> Product Warranty
Service Req. # <u>99298</u>	Service Station Name / # <u>841</u>		<input type="checkbox"/> Installation	<input type="checkbox"/> Service Warranty
Equipment Type <u>Gyro</u>	Model <u>NAVIGAT 2100</u>	Software Version	<input type="checkbox"/> Maintenance Contract	
Serial Number	Location of Serial Number	Rev	OEM?	

Problem Description: SHIP REQUESTS CHECK OF FOG

Report: FLEW TO OAKLAND AND PROCEEDED TO VESSEL. FOUND FOG CONTINUALLY LOOPING IN A SELFTEST. DISCONNECTED POWER TO UNIT. RECONNECTED POWER. UNIT ALIGNED PER NORMAL OPERATION AFTER COMPLETION OF ALIGNMENT FOG GYRO DRIFTS TALKED TO MSE TONY. OPENED EP AND FOUND DC PWR DISCONNECT. CHECKED VOLTAGE OK AND CONNECTED ALD NOTED SOFTWARE REV. A4 INPUT MANUAL LAT SPD, VARI CURRENT VALUES, FOG STILL DRIFTS. INPUT A MANUAL SPD OF 10KTS. PROBLEMS STILL EVIDENT. RECOMMEND NEW SOFTWARE AND/OR NEW COMPASS UNIT. P/N: 074574.

\* (NO FAULT REPORTED BY VESSEL)

Fault Confirmed?	Fault Intermittent?	Fault Repaired?	Follow-up Required?	Job Complete?	Next Port	ETA
Nature of Service (Fault Code/Code)		Engineer Name	Engineer Code	Signature		
<u>RF1</u>		<u>T. WILLIAMS</u>	<u>17817</u>	<u>[Signature]</u>		

MATERIAL SUPPLIED							MATERIAL REMOVED							
QTY	PART NUMBER	REV	DESCRIPTION	SERIAL NO.	U	SPK	WIP	MA	LS	LS	LS	LS	LS	LS
<del> </del>														

LABOR							EXPENSES			CUSTOMER ACCEPTANCE								
DATE	ENG. CODE	ENG. INIT	TRAVEL ST OT	ONBOARD ST OT	IN OFFICE ST OT	WAITING ST OT	MILES	TELEPHONE	HOTEL	MEALS	AUTO	AIR	TOLLS	MISC	TTL EXP	TTL LABOR	TTL MAIL	TTL PSR
<u>12/11</u>	<u>17817</u>	<u>TW</u>	<u>2</u>	<u>1</u>	<u>1</u>													

THE WORK DESCRIBED ABOVE HAS BEEN CARRIED OUT TO MY SATISFACTION

PRINT NAME: Capt Samuel

TITLE: Master

SIGN: [Signature]

COMMENTS: Subject to owner Approval

SHIP'S STAMP

THANK YOU FOR USING SPERRY MARINE **ServiceNet**







**PRODUCT SERVICE REPORT**  
NORTHROP GRUMMAN SPERRY MARINE

PSR#: 797502

Vessel Name <b>COSCO BUSAN</b>	IMC#/4586	Call Sign	<input checked="" type="checkbox"/> Normal Charge	<input type="checkbox"/> Warranty
Owner Company Name	Port of Call <b>SAN FRANCISCO</b>	Date of Service <b>12/11/07</b>	<input checked="" type="checkbox"/> Service	<input type="checkbox"/> Product Warranty
Service Req. # <b>99298</b>	Service Station Name / # <b>841</b>		<input type="checkbox"/> Installation	<input type="checkbox"/> Service Warranty
Equipment Type <b>Gyro</b>	Model <b>NAVIGAT X MK I</b>	Software Version	<input checked="" type="checkbox"/> Maintenance Contract	
Serial Number	Location of Serial Number	Rev	OEM?	

Problem Description: **ANNUAL SERVICE**

Report: **Flew to OAKLAND. Picked up Mercury and Supporting Fluid from Fed Ex. Proceeded to vessel and boarded located Gyro and recorded settings. Opened unit and secured power. Waited 45 min for Gyro sphere to stop. Inspected all wires and connections. Disassembled container. Sea removed 20 Mercury and Supporting Fluid. Cleaned container and sphere. Verified all resistances in spec. Reassembled container and added new Mercury and Supporting Fluid. Reinstalled container in unit and restored power. Waited while Gyro settled and noted proper settling curve.**

Fault Confirmed? <input type="checkbox"/>	Fault Intermittent? <input type="checkbox"/>	Fault Repaired? <input type="checkbox"/>	Follow-up Required? <input type="checkbox"/>	Job Complete? <input checked="" type="checkbox"/>	Next Port	ETA
Nature of Service (Fault Code/Code) <b>SCH</b>		Engineer Name <b>T. Williams</b>	Engineer Code <b>17817</b>	Signature <i>[Signature]</i>		

MATERIAL SUPPLIED					MATERIAL REMOVED				
QTY	PART NUMBER	REV	DESCRIPTION	SERIAL NO	TYPE	QTY	SERIAL NO	TYPE	QTY
26	49060		SUPPORTING FLUID	-	X				X
1	30026		MERCURY	-	X				X

LABOR							EXPENSES			CUSTOMER ACCEPTANCE	
DATE	ENG CODE	ENG INIT	TRAVEL ST OT	ONBOARD ST OT	IN OFFICE ST OT	WAITING ST OT	MILES	TELEPHONE	THE WORK DESCRIBED ABOVE HAS BEEN CARRIED OUT TO MY SATISFACTION		
12/11	17817	TW	4	3		1			PRINT NAME: <i>Capt Samuel</i>		
									TITLE: <i>Master</i>		
									SIGN: <i>[Signature]</i>		
									COMMENTS: <i>Subject to owner approval</i>		
									SHIP'S STAMP		
									THANK YOU FOR USING SPERRY MARINE		
									<b>ServiceNet</b>		

# ADG 3000 Autopilot

RSP0049R  
11/07/07

System PSR's - All  
1970-01-01 thru 2007-11-07

Page 1  
14:56:55

Ship: COSCO BUSAN  
PCC : S31 - ADG-3000

Ship No: 36645893  
Sys No : 77633752

System Text: ADG 3000 VT  
Mod Code:

Serial: N/A  
Rel Lv:

Serial Loc: UNIT  
Sys Status: N

PSR: 623362      Type: W    SSC: HAMBURG      MSE: WENDT      Dt: 03-08-15  
PSR Entry Dt: 03-10-07

Ship# 36645893

DISABLED TRACK STEERING POSSIBILITY FROM SPERRY VMS SYSTEM TO AUTOPILOT SPERRY ADG 3000. CHECKED AUTOPILOT AT DOCK SIDE. NO CUMMUNICATION TO VMS ANYMORE. ALL OTHER FUNCTIONS SATISFIED.

PSR: 424834      Type: W    SSC: LONG BEACH      MSE: SEMINARIO      Dt: 03-01-06  
PSR Entry Dt: 03-01-14

Ship# 36645893

SPOKE TO MASTER , WHOM RECENTLY JOINED AGAIN. REQUESTED INFO FROM CREW AND PROBLEM REPORTED IS THAT WHEN VESSEL CHANGES FROM VMS NAV MODES TO AUTO MODE , THE AUTO PILOT DOES NOT CHANGE HEADING TEST ENOUGH. PROBLEM CAN NOT BE RECREATED ALONG SIDE , AND ALSO FOUND SETTELING OF HEADING IN"HIGHEST" INSTEAD OF LOADED. MASTER WILL TEST PILOT AT SEA AND CONFIRM MOTOR SETTELING ARE ACTIVE. MASTER WILL ADVISE.

PSR: 5633832      Type: C    SSC: KOREA      MSE: KOREA AGENT      Dt: 02-12-17  
PSR Entry Dt: 03-01-20

Ship# 36645893

WEHN ONBOARD CHECKED AUTOPILOT ADG 3000 SYSTEM. TESTED BY AUTO MODE AND STEERING CONTROL IS PROPER OPERATION. WE HAVE CHECKED CONNECITON OF BOLTS SYSTEM SWITCH AND MADE SWITCH ON THE CONNECTION BOARD. CARRIED OUT FASTENER BOLTS ABOVE BOTH SWITCHES. WE HAVE TO TRY AGAIN-AUTOPILOT STEERING CONTROL-WORKING NORMALLY.

PSR: 563813      Type: W    SSC: KOREA      MSE: KOREA AGENT      Dt: 02-11-09  
PSR Entry Dt: 02-11-11

Ship# 36645893

ONBOARD VESSEL CHECKED AND TESTED AUTOPILOT BUT NEVER FOUND ANY MALFUNCTION. SHIP'S CAPTAIN AND OFFICERS SAID THAT DOES NOT CHANGE ORDER HEADING BY TURNING HEADING OVER KNOB IN THE AUTOMODE DURING HER VOYAGE. CHECKED ALL PCB AND INTERNAL/EXTERNAL CABLE CONNECTIONS WITH GROUND CONDITION BUT NO WRONG POSITION FOUND. TESTED SEVERAL TIMES IN HELM AND AUTO MODE. FOUND THAT THE AUTOPILOT IS WORKING NORMALLY.

PSR: 563695      Type: W    SSC: KOREA      MSE: KOREA AGENT      Dt: 02-09-18  
PSR Entry Dt: 02-10-18

Ship# 36645893

WENT BOARD VESSEL ACCORDING TO SHIP'S OFFICER. THE RUDDER WILL NOT REMAIN AT THE ORDERED RUDDER ANGLE ESP. WHILE BERTHING AND IN ASTERN DIRECTION, THE RUDDER WILL NOT REMAIN IN THE MIDSHIP POSITION. AFER SOME SECONDS THE RUDDER MOVES TO PORT OR STBD AND IT IS NECESSARY TO SET THE RUDDER TO THE MIDSHIPS POSITION AGAIN. CHECKED RUDDER SERVO AMP AND NFU LEVER SWTICH OF AUTOPILOT SYSTEM. NORMAL WORKING-ASSUMING THAT HYDRAULIC STEERING GEAR SYSTEM FAULT. ARRANGED ENINGEER OF "YOOWON MITSUBISHI".

-----  
Ship: COSCO BUSAN  
PCC : S31 - ADG-3000

Ship No: 36645893  
Sys No : 77633752

PSR: 563382      Type: W    SSC: KOREA

MSE: KOREA AGENT    Dt: 02-08-13

PSR Entry Dt: 02-10-01

Ship# 36645893

WENT ONBOARD VESSEL AND THEN ACCORDING TO SHIP'S OFFICER WHILE THE STEERING MODE IS IN NFU AND RMT MODE, THE RUDDER WILL NOT REMAIN AT THE ORDERED RUDDER FOR EXAMPLE-WHILE BERTHING AND IN ASTERM DIRECTION THE RUDDER WILL NOT REMAIN IN THE MIDSHIP POSITION. AFTER SOME SECONDS THE RUDDER MOVED TO PORT OR STBD AND IT IS NECESSARY TO SET THE RUDDER TO THE MIDSHIPS POSITION AGAIN. SO CHECKED AUTO PILOT. AUTO AND HELM NFU AND RMT MODE IS WORKING NORMALLY AT ALONGSIDE PIER. RE-CHECKED SHIP'S POWER AND EACH CONTROL CABLE AND CONNECTION-FOUND OK.

PSR: 563311      Type: I    SSC: KOREA

MSE: KOREA AGENT    Dt: 01-12-19

PSR Entry Dt: 02-05-03

Ship# 36645893

INSTALLED ADG 3000 VT AUTOPILOT SYSTEM. CHECKED ALL POWER AND IN/OUT SIGNAL CABLES. ADJUSTED ARM BAR LENGTH OF BOTH FEEDBACK UNITS AND ALSO ADJUSTED ZERO POINT HARD TO HARD OVER TIME AND EACH DEGREE FOR HELM ORDER. ALSO CARRIED OUT ADJUSTING OF HYDRAULIC LOCKING ARM TIRGGER LEVEL AND SENSOR CONTACT WHICH ACTIVATÈS 1/2 FULL STROKE. RECEIVED CLASS AND OWNER'S INSPECTION IN THE QUAY SIDE AND DURING SEA TRIAL. ADJUSTED AND PROGRAMMED CALCON DATA AND GAIN VALUE IN DURING SEA TRIAL AND ALSO CARRIED OUT DEMONSTRATION.



# DGPS

Ship: COSCO BUSAN  
PCC : E15 - GPS

Ship No: 36645893  
Sys No : 84226142

System Text: LMX 400 DGPS  
Mod Code:

Serial: 00708543  
Rel Lv:

Serial Loc: UNIT  
Sys Status: N

*Year Month Day*  
↓ ↓ ↓

PSR: 639510      Type: W    SSC: ROTTERDAM

MSE: LEEUWERBURGH    Dt: 03-06-20  
PSR Entry Dt: 03-08-13

Ship# 36645893

CHECKED DGPS RECEIVER AND FOUND NO POSITION UPDATE. CHECKED RECEIVER SIGNALS AND FOUND 1 AND 2 SATELLITE AVAILABLE WITH VERY LOW SIGNALS. CHECKED CABLECONNECTORS AND ANTENNA. FOUND CONNECTOR WITH WATER DAMGAE AND A DEFECTIVE ANTENNA. REPLACED CONNECTOR INCLUDED CONNECTOR NEAR GPS RECEIVER AND THE ANTENNNA. REPLACED DISPLAY ASSEMBLY AND CHECKED WORKING OK.

PSR: 426306      Type: C    SSC: LONG BEACH

MSE: MARTELL      Dt: 03-03-11  
PSR Entry Dt: 03-03-19

Ship# 36645893

PROCEEDED TO VESSEL AND FOUND GPS WORKING OK CABLE WAS NOT YET RUN. CAPTAIN REPORTED THAT GPS HAS BEEN WORKING WITH NO PROBLEMS SINCE THE INSTALLATION OF AN ISOLATED POWER SUPPLY. POWER SUPPLY WAS INSTALLED IN LONG BEACH LAST CALL. DOING SUPPLY WAS INSTALLED BECAUSE VESSELS HULL GROUND FAULT. VESSELS HULL IS DC GROUND THEREBY CAUSING TO HAVE A NEG/POS VOLTAGE AT POWER INPUT OF GPS. CABLE WILL NOT BE RUNNED TO AVOID OWNER UNNESSASARY EXPENSE SINCE PROBLEM IS FIX. CAPTAIN WILL NOTIFY OWNERS OF READINGS AND NOTIFY US ON WHEN TO BE REMOVE MOUNTING HARDWARE/CABLE FROM NEW POSITION.

PSR: 583653      Type: C    SSC: HONG KONG

MSE: LO      Dt: 03-02-24  
PSR Entry Dt: 03-04-03

Ship# 36645893

ONBAORD FIXED NO #2 N PLUGS AND ADAPTER FOR COAX CABLE. FIXED THE NEW ANTENNA MOUNTING PIPE ON PORTSIDE TOP OF THE MAST AFT THE MASTER AGREED TO RUN THE COAX CABLE TO NEW ANTENNA LOCATION. DUE TO VESSEL TO BE SAILING NO MORE TIME TO RUN THE COAX CABLE TO BRIDGE. MASTER REQUIRES ENGINEER TO FIX THE ANTENNA-TO CONTINUE AT NEXT PORT LONG BEACH USA. TO STAY THREE DAYS. CHECKED GPS. FIXED THE POSITION AND WAS OK.

PSR: 604287      Type: W    SSC: LONG BEACH

MSE: PETERSON      Dt: 03-02-05  
PSR Entry Dt: 03-07-11

Ship# 36645893

FORMER EMPLOYEE REFUSED TO DO PSR. THIS PSR SUBMITTED PER INSTRUCTIONS FROM SUPERVISOR ROBERTO SEMINARIO. 7/11/03.

PSR: 424646      Type: W    SSC: LONG BEACH

MSE: SEMINARIO      Dt: 03-01-08  
PSR Entry Dt: 03-01-14

Ship# 36645893

PROCEEDED TO VESSEL TO ADVISE CAPTAIN THAT ORIGINAL GPS WAS TESTED BY LEICA. NO PROBLEMS WERE OBSERVED WITH A DAY 1/2 OF TESTING UNIT LEICA SUSPECTS PROBLEM MIGHT BE CAUSE BY INTERFEARANCE AND VESSEL WILL NEED TO TEST OUT AT SEA. ORIGINAL UNIT FOR INSTALLATION WAS INSTALLED. NORMAL

Ship: COSCO BUSAN  
PCC : E15 - GPS

Ship No: 36645893  
Sys No : 84226142

OPS. IF PROBLEM PERSISTS, WILL HAVE TO RELOCATE GPS ANTENNA , SO THAT INTERFERANCE FROM THE TV ANTENNA'S WILL NOT AFFECT IT. ALSO, TROUBLE SHOOTING ADVISE WAS GIVEN TO CREW IF PROBLEM REOCCURS.

PSR: 563383 Type: C SSC: KOREA

MSE: KOREA AGENT Dt: 02-12-17  
PSR Entry Dt: 03-01-20

Ship# 36645893

WE HAVE CHECKED LMX 412 DGPS EQUIPMENT. CHECKED COAXIAL CABLE AND CONNECTOR FOUND OK. SUSPECT THE PROBLEM IS ANTENNA UNIT. HAVE NO SPARE PART AND GROUND. TO REPLACE NEW ONE. WE WILL ARRANGE SERVICE AT NEXT PORT OF NEXT TIME. WE NEED SPARE PART AS. 1 TYPE MGL-3  
P/N 10927

PSR: 425773 Type: W SSC: LONG BEACH

MSE: PETERSON Dt: 02-07-30  
PSR Entry Dt: 02-08-21

Ship# 36645893

OBSERVED GPS POSITION GOING IN AND OUT. POSITION OF CRANES NEXT TO ANTENNAS DOES NOT HELP EITHER, HOWEVER, AFTER TESTING DISPLAY AND CHECKING SERVICE MENU, FOUND DISPLAY NOT WORKING PROPERLY. DISPLAY IS 6 CH GPS AND ONLY 3 CHANNELS WORKING. PERFORMED A MASTER RESET TO RESTORE ALMANAC AND LEFT OVERNIGHT. ALSO NOTICED ANTENNA HAS A CRACK ON BASE. MOUNTING POLE IS WRONG TYPE. PROBABLY BROKE BASE, . REPLACED ANTENNA AND MOUNTING KIT. ALSO HAD TO REPLACE DISPLAY WITH A 12 CH ONE. UNIT PICKUP SAT & BUILT ALMANAC RIGHT AWAY. RECEIVER LOOKS A LOT BETTER. WILL BE TESTED AT SEA. WORKING OK NOW.

PSR: 607304 Type: W SSC: VLAARDINGEN

MSE: MUL Dt: 02-01-14  
PSR Entry Dt: 02-02-18

Ship# 36645893

CHECKED GPS AND TESTED SIGNAL LEVEL. FOUND AND RENEWED GPS ANTENNA. MADE TEST RUN AND WORKING OK.

PSR: 563314 Type: I SSC: KOREA

MSE: KOREA AGENT Dt: 01-12-19  
PSR Entry Dt: 02-05-03

Ship# 36645893

INSTALLED LMX-400D SINGLE DGPS SYSTEM. CONNECTED POWER ANTENNA AND OUTPUT SIGNAL CABLES AND THEN CARRIED OUT CONFIGURATION OF INITIAL VALUE. RECEIVED OWNER'S INSPECTION AND ALSO CARRIED OUT DEMONSTRATION TO SHIP'S OFFICERS FOR OPERATING EQUIPMENT.