Important Notice

Maintenance through Remote Deviation Adjustment is deemed fraudulent.

Deviation adjustment necessitates the presence of a qualified individual on board to inspect and maintain the magnetic compass, followed by a sea trial where the ship is turned 360-degree to measure and correct the deviation with a maintenance certificate issued thereafter. Unscrupulous operators claim that a 90-degree turn data sufficiency, or even making stationary adjustments while ship is docked are acceptable. Such improper maintenance cannot guarantee safety. The magnetic compass is the last important heading device in an emergency. The Japan Compass Adjusters' Association is an organization of qualified professionals.

Is your Marine Magnetic Compass properly adjusted?

The ISO (International Organization for Standardization) published ISO25862 in May 2009 with regard to the construction and performance of marine magnetic compass for navigation and steering purposes. Such compasses now need more careful adjustment and check than before.

Shoud your ship's condition be as follows then your magnetic compass will need it's deviation checked.

Shin's condition and past	Reason why the				
	magnetic compass	Action that should be taken			
life history	may be influenced				
A new ship particularly in the	There has been a great	Measure the deviation frequently.			
first few months and under 2	change in the ship's	Fill out the attachead table recording on it, the gyro			
years old.	magnetic field.	compass course and deviation as requested by Note *1			
		below. Should you be unable to correct the deviation			
		yourself. Please request the assistance of a trained			
		compass adjuster. See Note *2.			
Your ship:	Ship's magnetism might	Measure the deviation.			
has been struck by lightning.	have changed.	Should the deviation exceed that in the regulations.			
has vibrated violentlly.		Please request assistance. See Note *2.			
has been in a fire.					
Large deviations in the direction	B component error	Please conplete the attached table so that the present			
of east and west only.	compensation may not	performance of the magnetic compass is known. See			
	be possible for your ship.	Note *1. Should a authorized compass adjuster be			
	See Note * 3	required. Please request as stated in Note * 2.			
Over 2 years old.	Ship's magnetism changed	The deviation should be measured and corrected every			
	by the earth magnetic field.	1 or 2 years. Please request assistance. See Note * 2.			

Note * 1 Measure and record the deviation in the 8 main compass courses (N.NE.E.SE.S.SW.W.NW). Note also the ship's latitude and longitude, magnetic variation and the correctors' data. The information will be required by your compass adjuster.

*2 Make your request for a compass adjuster through the Japan Compass Adjusters' Assocuation (JCAA) or via your agent or shipyard.

*3 Flinders bars and fore-and-aft side correcting magnets are required to reduce the deviation. Note that the coefficient B. will only be minimized if the adjusting has done on the magnetic equator or two positions. If the adjusting has done in only one position it might not be possible to obtain a completely accurate adjusting.

A magnetic conpass is not suitable for PSC(Port State Control) requirement (* 4) in the following condition. It should be checked repaired and overhauled as necessary.

Note *4 The following problems have been noted by PSC in the past 5 years.

- · It has been not possible to read the information on a magnetic compass due to a broken light bulb.
- · In some cases the deviation has not been read in all courses specifically asked for.
- · The compass bowl dones not maintion the horizontal level.
- · There are some bubbles in the compass bowl.

We send this brochure to ship's captains, owners and management companies.

The Japan Compass Adjusters' Association and our compass adjusters are ready to help with the correct and appropriate adjustment of your magnetic compasses. This will lead safer navigation. Establish your navigation safety with a deviation-corrected magnetic compass together JCAA.

Japan	Commpass	Adjusters'	Association
mail@jo	aa.jp	Fax : +81	L3-6734-0713

Please complete that table when you find your magnetic compass errors exceed the correct figures and you require

the help of a compass adjuster.

This table should be sent via a shipyard company or your agent.

Your name

	phone nun	nber							
e-mail address									
Please write in block capital letters.									
Ship' s	name								
(Gross Tonnage)				(i/T)	
Date of last adjustment month/day/year			1 1		Name of adjuster Registered number				
Present c	ondition		Manufactu	irer & Type	Manu.	Ту	pe		
Position at	which follow	wing measur	ements wer	e taken. La	t	Long.			
Date of th	ne following	g measuren	nents. mo	onth/day/ye	ear	1	/		
Cargo information (kind)		070		Load condition of ship		Full • Half • Empty			
Compass	Ν	NE	E	SE	S	SW	W	NW	
course	0°	45°	90°	135°	180°	225°	270°	315°	
Variation		Ų	Ų	Ŷ	Ţ	Ų	Ŷ	Ų	
Gyro compass course									
Deviation									
	Type,r	number,leng	gth,and pos	sition of ac	ljustment l	bars & ma	ignets		
Flinders bars(number,length)					number				
Example : 3	3 pieces, 15	ōcm			length				
Foi	Port (number,i	nsertion positio	n scale(force)*	*1)					
or e	ex)3: 15(S),2	13(M),12(W)							
& Afi adji	Draw a circle to the right to indicate the position of the red end.				magnet red end : Fore / Aft				
. Ma ustn	Starb'd (numbe	er,insertion pos	ition scale(for	ce)*1)					
agne 1en	ex)3:15(S),2	ex)3: 15(S),13(M),12(W)							
t ts	Draw a circle to the right to indicate the position of the red end.				magnet red end : Fore / Aft				
Athwartship magnet for adjustment(number,scale*1)					Position:				
ex)2: 12(S),10(W) Position :									
Draw a circle to the right to indicate the position of the red end.					magnet red end : Port / Starboard				
*1 S:Strong	(dark blue/red)	M: Medium	(blue/red) W	/:Weak(light b	olue/red)				
(The sh	ade of indica	ates the strer	ign of the m	agnet smagne	tic field.)		tion for an		
Please send the last deviation adjusting record to ICAA if it is possible. We wish everyses our gratitude									
1 10030 30110	* * * *			this sheet	hefore us	xe * * *			

There is same table at our web site. http://www.jcaa.jp/table-e.html/

Japan Commpass Adjusters' Association

Send to : mail@jcaa.jp Fax : +813-6734-0713 or Send to the Last Adjuster