

INSPECTOR		COMPANY	
SIGNATURE	GENERATOR MODEL	SERIAL NUMBER:	
OK/ GOOD			
NOT SUPPORTED C	OR RECOMMENDED BY MASTERVOLT		
NOT ACCEPTABLE			
VALUES TO BE REF	PORTED		
AC-CABLE COMPA nm2 1.5 mm2	AWG	Whisper 3,5 40 mm =1 5/	
1,5 mm2	16	Whisper 6/8/12 3000 rpm 40 mm =1 5/	
2,5 mm2	14	Whisper 6 Ultra 40 mm =1 5/	
l mm2	12	Whisper 8/10/12 Ultra 51 mm = 2 in	
3 mm2	10	Whisper 16 ULTRA 51 mm = 2 in	nch
10 mm2	6	STARTER BATTERIES MINIMUM SIZE	
16 mm2	4	Whisper 3,5 55Ah	
25 mm2	2	Whisper 6/8000/12 3000 rpm 85 Ah	
35 mm2	0	Whisper 6/8/10/12 ULTRA 85 Ah	
70mm2	<u> </u> U	Whisper 16 ULTRA 120 Ah	
PRIOR INSPE	CTION OF THE INSTALLATION	YES NO COMM	IENT
Positioning/noise			
The generator is on a	a solid foundation	V # Is the noi:	se acceptable
The generator is on t			
	e of walls, bulkheads and tanks	V # Is the res	onance acceptable

PRIOR INSPECTION	N OF THE INSTALLATION		YES	NO	COMMENT
1 Positioning/noise				•	<u> </u>
The generator is on a solid for	oundation			V	# Is the noise acceptable
The foundation is free of wal	ls, bulkheads and tanks			V	# Is the resonance acceptable
The foundation is supported	directly below the mountings.			V	# When not this can cause resonance
	Picture 1 generator free of bulkhead and tank	×	The found	X A Section Should	d be supported below the mountings
Ventilation	The environment is ventilated sufficiently; the generator requires a			V	X
	10 cm2 opening to allow combustion air				
Accessibility	The oil dip stick is accessible			V	The dip stick should be accessible
·	The impeller pump is accessible for replacing the impeller			V	The impeller should be accessible
	The cylinder head is accessible for readjusting valve clearance			V	The cylinder head should be accessible for
•		<u> </u>			adjustment of valve clearance



2 Water inlet system Is there a water scoop installed as a transom The transom should not be sensitive to pressure build up by the speed of the boat Is the scoop mounted in the correct position (refer to the picture below) The scoop should be mounted according to the picture If it is not possible to check the water scoop make a clear statement Sailing direction It is not possible to inspect the waterscoop This should be checked by Water flow direction Picture 2 inlet scoop against direction of water flow Has the system its own independent water inlet # A combined water inlet can cause trouble Has the water inlet an accessible sea cock It is dangerous to sail without a sea cock inch LENGTH A-C= MAX. 3M(120 INCHES) HEIGHTA-B= MAX. 1,5M(60 INCHES) LENGTH A-C= MAX. 2,5M(120 INCHES) HEIGHT A-B= MAX. 1,2M(47 INCHES) Water must flow out freely Water must flow out freely Air must flow in freely Air must flow in freely Min. 1,2" 3 cm Max. 4" 10 cm x∄M Picture 3 complete installation with dimensions W3,5 Installation Mitsubishi based Whisper models Is the water inlet piping not longer than 3 meters (10 ft) in total (x-y) # When longer this could be critical m/ft Is an independent water strainer fitted of the correct size An independent water strainer should be fitted; not too small and not too large. Is the strainer on the waterline We recommend the strainer to be on the waterline # # We recommend the strainer to be on the waterline Is the water strainer below the water line. # # The strainer being too far above the waterline can cause trouble Is the strainer above the waterline cm/inch



3 Anti siphoning valve	\neg			
	rator above the waterline (In all circumstances)	cm/i	nch	If the bottom is below the waterline a siphon breaker valve is
		<u>'</u>		needed.
Is an anti siphoning valve	Is an anti siphoning valve installed			V Only if the bottom of the generator is above the waterline
3 - 1				in all circumstances, is a siphon breaker not needed
	Is the valve 60 cm above the waterline in all circumstances (heeling)	cm/i	nch	# If the valve is lower this could be critical
	9	011.,	1011	45 cm is the absolute minimum.
	Is the siphon breaker in the centre of the boat		+	# Are you sure that it is 60 cm above the waterline
	is the signor breaker in the sente of the beat			when the boat is heeling
	Can water flow out of the drain of the siphon breaker and can			X No canisters that can fill up and block the drain! No bents that
	air flow into it freely			hold water and block the drain.
	Picture (a. Air abauld flau frach into untar dair a intern bracker			Picture 4b Siphon breaker and water/gas seperator above the
	Picture 4a Air should flow freely into water drain siphon breaker			waterline in all circumstances
	Is the by-pass used to install the siphon breaker			V Use the by pass to install a siphon breaker
4 Exhaust system		T		
Are all hoses and other ex	xhaust equipment dimensioned according to the manual	40 mm 51 n	ım	Only the correct diameter must be used, not smaller, not larger
Is there a water lock and	what are its connections	40 mm 51 n	ım	There should be a proper water lock and we recommend it
				is supplied by Mastervolt
	Is the water lock supplied by Mastervolt			# Give brand and dimensions
	Does the hose from the generator to the water lock slope down			V X The water lock should be below the generator
	Is the hose between the generator and the water lock free of bends.			V X The routing should be as straight as possible;
	to the need between the generator and the water leak here of benue.			bends going up and down are not allowed.
	Pictures 5 Position of the water lock (water lift)			
le there a good no strong		 /	a a b	V If not make a water connet enter the exhaust
is there a goose neck 60	cm (24 inch) above the waterline	cm/i	ncn	X If not make sure water cannot enter the exhaust.
	Is the goose neck (separator) in the centre of the boat			# Are you sure that the goose neck is 60 cm above
				the waterline when the boat is heeling. (Refer to picture 4b)
	Is the lift from the water lock to the goose neck or water/gas	cm/i	nch	The lift should not be more than 120 cm Whisper 3,5 or
	separator not more than 120 cm (Refer to pict. 3)	I		150m cm other Whisper models.



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	Is the length of the hose from the generator via the water lock to the	m/ft	V	X	This distance should be no longer than 3 m
	top of the goose neck no more than 3 m / 10 ft				· ·
	Picture 6 Keep the line to the goose neck or water/gas separator short There are no mufflers in the rising line to the goose neck		V I	X	There should be no mufflers in the rising line.
	Picture 7 no muffler in rising line				Trans.
Is there a water/gas separa	tor		V	#	When no water/gas separator is used one should
		1			apply a goose neck
	Is separator dimensioned at the proper diameter	40 mm 51 mm	V		Use the proper dimension
	Is the water/gas separator supplied by Mastervolt		V	#	Give brand and dimensions
	Is the gas outlet hose sloping down to the outlet transom		V	X	The gas outlet should slope down and should not go up again.
	Picture 8 No bends in the gas outlet that can hold water				
	Does the gas outlet end up minimum 5 cm(2 inch) above the waterline	cm/inch	V	X	The gas outlet should not be below the waterline
	Does the water drain have the correct diameter is 40 mm (1 5/8 inch)	mm	V	X	The water drain should not be smaller than 40 mm (1 5/8 inch)
	Does the water drain go straight to the water outlet		V	X	The water drain should release the water easily
	without too many bends				without too many restrictions.
	Does the waterdrain end up less than 10 cm below the water line	cm/inch	V	X	The outlet of the water drain should not release the
	Min. 3 cm (1,5 inches) Max. 10 cm (4 inches) Picture 9 Dimensions outlets water gas separator				water too deep.
	The outlet of the water drain cannot build up pressure		V	X	It should not build up pressure.
	from the speed of the boat				
	Can the water drain be shut of by a sea cock		V	X	It should have a sea cock



Fuel supply system			
Is the fuel tank (fuel level) above the generator and does the fuel return line end at the top	cm/inch	The fuel return should end on top of the tank	
Is the fuel tank (fuel level) below the generator and does the fuel return line end at the bottom	cm/inch	The fuel return should end on bottom of the tank	
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Picture 10 fuel tank higher than the generator	*	fuel tank lower than the generator	
Is the lift of the fuel less than one meter/3 ft	cm/inch	The fuel lift pump cannot lift the fuel more than one meter.	
Is there an extra water separator in the fuel supply		V # An extra water separator is recommended	
Is there a shut off valve in the supply line		There should be a shut off valve in the supply line	
Is there a water drain on the tank		There should be a water drain on the tank	
Does the generator have its own independent starter battery The starter battery should not be one of two in series that is also used for 24 V supply 24V 12V Picture 11 tapping 12V from two batteries in series will cause serious damage	e	We strongly recommend an independent starter battery. X Tapping 12V from two batteries in series will damage the b	atterie
Is the battery capacity in accordance with the installation instructions	Ah	V	
Is the battery within the distance of the standard supplied cables	cm/inch	/ If the distance is larger the cables should be	
		replaced by thicker cables.	
Is the battery properly stored		The battery should be stored for sea going conditions	
Is the battery of the dry type gel battery		V # A Mastervolt gel battery is recommended	
Is the battery of the wet type lead/acid type		# There should be ventilation for the hydrogen gasses.	
Is there sufficient ventilation for a wet type lead/acid battery		There should be ventilation for the hydrogen gasses.	
Is there a battery switch		We recommend the installation of a battery switch	
Is there a battery charger		We recommend the installation of a battery charger	



7 AC connections				TAILOR MADE ENE
	ected to the ship AC grid with the cable supplied with the generator	mm2	V	# A proper flexible multi string cable should be used.
Is there a main switch	n installed to disconnect generator and the ships grid		V	# There should be a way to switch off the generator
	A separate two pole switch is used		V	# Always use a two pole switch
	A circuit breaker is used (Check the Amps)	Amps	V	X According to CE regulations a circuit breaker has to be installed
	A two pole manual shore/generator selection switch is used		V	X A single pole switch must never be used
	A Mastervolt Masterswitch is used		V	# when not give brand and specifications
	An other brand transfer switch is used		#	# This switch should be two pole and properly designed
	SHORE GENERATOR INVERTER BATT. CHARGER SHIP			
	Picture 12 switching between generator shore and inverter			
	Two two-pole selection switches are used to select		V	# Check if the switches are wired correctly
	generator/shore/inverter			
Applications	Are there motors to be started			This requires extra starting power.
,	·	-		Check whether these motors can be started without problems.
	Are there sensitive users that cause problems		#	Check if there are such devices and test if they give trouble
Expansion tank	(not for Whisper 3,5)	7		
Is the tank mounted a	at the correct level (refer to picture)		V	The tank should be mounted at the correct level.
	MAX			
	Picture 13 expansion tank			
Is the transparent hos	se routed through the green lower part of the sound shield		V	The hose should not be routed through the white cover or through
				the slit between the white covers



PREPARATIONS PRIOR TO RUN		OK	NOT OK	TAILOR MADE ENERG
1 Inspection				<u>.</u>
Open sound cover and inspect for mechanical damage or misalignment, check V-belt tension.			V	Correct or repair any misalignment before starting.
2 Oil				, , ,
Is the oil according to the specifications: (15W40 API CC or CD)			V #	Give the specifications used
Is the oil level correct			V	Fill up to correct level
3 Coolant				
Is the engine filled with coolant up to the correct level (Whisper 3,5 has only oil)			V	Check both tank and manifold. Fill up when necessary
Is it filled with fresh water			X	We recommend the use of special coolant liquid for engines
Is it filled with fresh water with anti freeze			V #	We recommend the use of special coolant liquid for engines
Is it filled with coolant liquid for engines.			V	
4 AC Power				
Switch off the AC main switch or circuit breaker			V	
5 DC battery				
Switch on the battery switch			V	
6 Fuel			<u></u>	
Open fuel valve and press glow shortly priming fuel,			V	Refer to users manual if any problem arises.
ventilate air when necessary; fuel lift pump produces clicking noises.			V	To bleed system push an hold start button on local control panel
7 Water inlet and outlet				(refer to users manual)
Open seawater cock; the strainer to fill up with raw water, check strainer and piping for leaks.			V	
Open water drain water/gas separator and inspect for leaks.			V	
·				
FIDET TEST DUN		DOM	_	
FIRST TEST RUN		DONE	<u> </u>	
1 Starting				
Push start button to initiate starting procedure			V	
2 Immediate checks				
First check raw water Feel water pump become cold indicating water is flowing and look for	water leaks		V X	If water is not flowing shut down immediately and investigate
Listen for strange noises			V	Hearing strange noises stop and check for the cause
3 Further checks				
Check no load frequency (between 51,5 and 52,5 Hz) (62,5 and 61,5)	Hz		V	Use independent measurement instruments
Check no load voltage (max. 243V 50Hz) (max. 260V /130V 60 Hz)	Volts		V	Use independent measurement instruments
Wait for 10 minutes to run engine at working temperature				I=
4 Repeat inspections for leaks; stop the engine, check oil and coolant levels again and start it	again.		V	Fill up when necessary
5 Switch on generator to ships grid.			V	
6 Switch on loads and check the performance up to 70 %	1,,		V	
Measure frequency under 70 % load (min. 50 Hz/ 60 Hz)	Hz		V	
Measure voltage under 70 % load (min. 220V 50 Hz model; 230/115V 60 Hz model)	Volts		V	
7 Run for 10 minutes and check the performance up to full load	1		V	
Measure frequency under full load (min. 49 Hz / 59 Hz)	Hz		V	
Measure voltage under full load (min. 215V 50 Hz model; 220/110V 60 Hz model)	Volts		V	
8 Check performance with different consumers; especially critical consumers			V	
9 Stop generator and check again for leaks	4		V	140
10 Close the sound shield canopy and start again and check the noise level and check for vibrat	tions		V #	When noise level is too high find the cause or consult Mastervolt
11 Leave the generator:				
	1		M	
Close fuel valve		+	V	
Close sea cock		+	V	
Close water drain of water/gas separator		+	V	
Switch off circuit breaker or main switch		+	V	
Switch off battery switch			V	7
IF THE GENERATOR IS NOT IN GOOD ORDER LABEL IT AS FAULTY	AND NOT TO	BE US	ED	