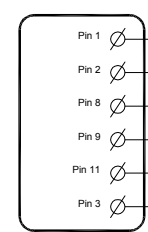
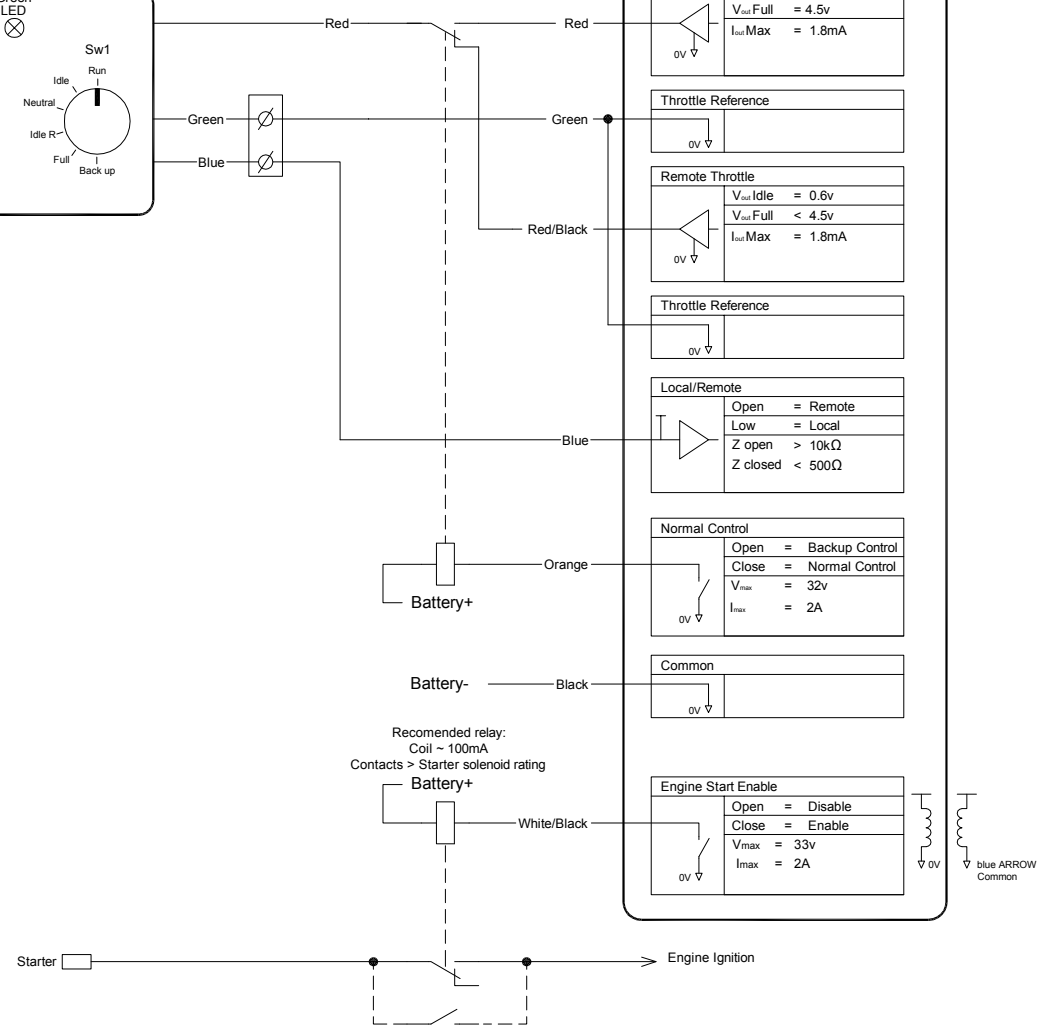
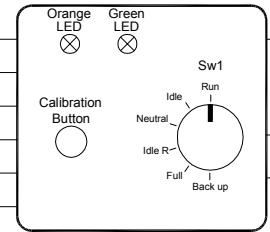


blue ARROW
Engine Interface Module

Teleflex Lever Connector
Pin Numbers



Interface



By-pass switch:
Must be fitted in single jet vessels
Optional in twin jet vessels

Alternatively an engine start interlock relay
with lockable test option can be fitted
(e.g. Omron MY2IN relay)

Make	Model	Feedback Type	Demand Type	Min RPM	Max RPM	Volt Min	Volt Max	Backup Dmd	Backup Min	Backup Max
Yanmar	6LY3-STP	Jet	Voltage	700 [#]	3300 [#]	6	45	Voltage	2000*	12000*
Yanmar	6SY-STP	Jet	Voltage	#	2300 [#]	6	45	Voltage	2000*	12000*
Yanmar	6BY260	Jet	Voltage	#	4000 [#]	6	45	Voltage	2000*	12000*

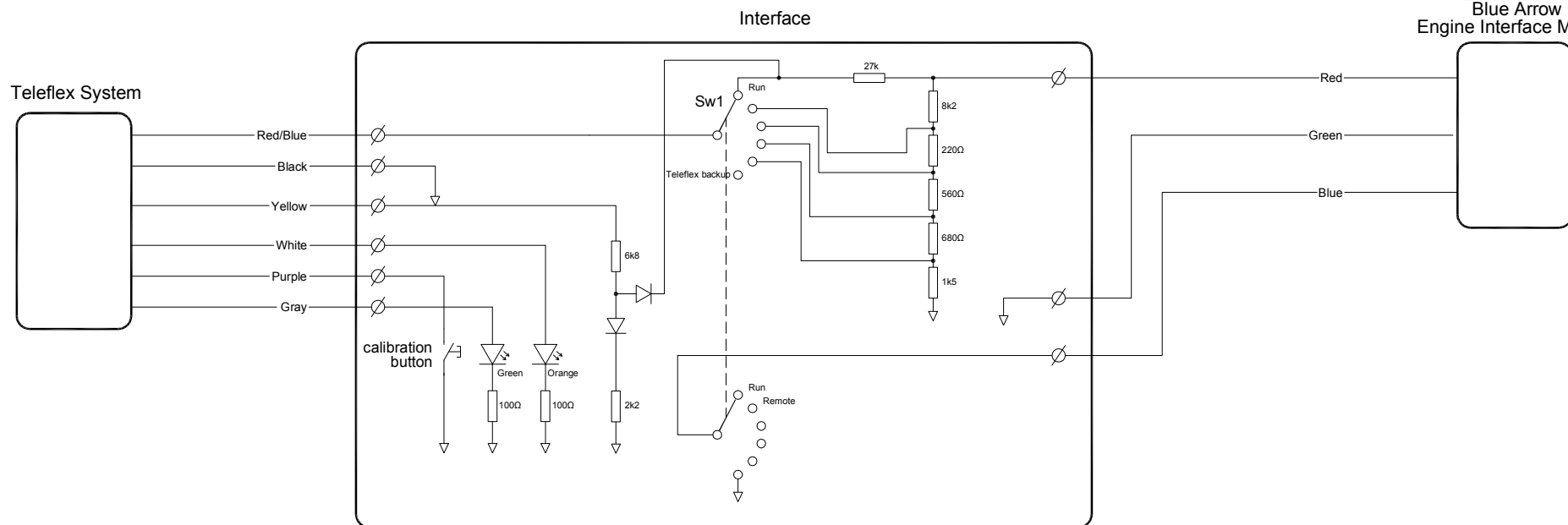
* Initial values only. Adjust values during installation to achieve correct level.
Engine RPM is affected by specific waterjet selection. If gearbox fitted, adjust to give jet shaft RPM.

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AMENDMENT ENGINE INTERLOCK BYPASS SWITCH ADDED DRAWING NO CHANGED FROM 205160 TO 208157		MATERIAL	Certified	Weight (kg)	✓ = N9 EXCEPT AS STATED
ECN		CL576	BY	F.K.	DATE 12.06.09
JET		Name		Date	07.04.06
This print is provided on a restricted basis and is not to be used in any way detrimental to the interests of C. W. F. Hamilton Ltd		Reviewed		DWG No 208157	

DESCRIPTION
blueARROW
ENGINE SCHEMA E
CONFIGURATION
SHEET 1 OF 2

G
DWG No 208157



Calibrating the Yanmar system to the Blue Arrow interface.

This will only be used on first setup and when the Yanmar lever controller is replaced.

- (Remove the local / remote wire in the junction box)
- Ensure that The Yanmar engine controller is powered down
- Turn on the Blue arrow system. Make sure there are no alarms
- Push the levers to full ahead
- Check that there is 4.5 volts at the output of the EIM.
- Push and hold the calibration button on the interface.
- Have the Yanmar Engine Controller powered up.
- The Orange LED will be flashing, Release the calibration button.
- Make sure that the SW1 switch is set to **Run** and then press the calibration button.
- The Orange LED will go off and the Green LED will turn on.
- Turn the SW1 switch to **Idle**. The Orange LED will be flashing.
- Press the calibration button the Orange LED will go off and the Green LED will turn on.
- Turn the SW1 switch to **Neutral**. The Orange LED will be flashing.
- Press the calibration button the Orange LED will go off and the Green LED will turn on.
- Turn the SW1 switch to Neutral. The Orange LED will be flashing.
- Press the calibration button. The Orange LED will go off and the

- Turn the SW1 switch to **Idle R**. The Orange LED will be flashing.
- Press the calibration button the Orange LED will go off and the Green LED will turn on
- Turn the SW1 switch to **Full**. The Orange LED will be flashing.
- Press the calibration button the Orange and Green LED will be flashing.
- This indicates that the Yanmar system is fully calibrated.
- Turn the SW1 switch to **Run**. This is the normal operating position.
- Turn the power off on the Yanmar engine controller and the Blue Arrow system.
- Return the levers to neutral.
- Replace the local / remote wire in the junction box.
- Re-power the Blue Arrow system then the Yanmar engine controller.
- You will see both LED's light up on the interface box.
- Only the Green LED will stay on when you move the levers.

Back up Position

- The Backup position on the Interface is to control the Yanmar system using their sub throttle.
- Turn SW1 to the Backup position on the interface module.
- The Green and Orange LEDs will be flashing quickly.
- The Yanmar system will fall back into their sub throttle.
- On the Yanmar display a throttle alarm will show up and a check engine alarm.
- The Red LED by the start switch will start flashing showing that the system is in sub throttle.
- The knob next to engine start switch controls the throttle. Giving you control of the throttle for the Yanmar engine.
- To remove from sub throttle, power down the Yanmar engine controller.
- Turn Sw1 back to Run and re-power the engine controller.
- With Blue Arrow on, both LED's will be illuminated.

DWG No 208157

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AMENDMENT		MATERIAL	Certified	Weight (kg)	✓ = N9 EXCEPT AS STATED
REFER TO SHEET 1 FOR AMENDMENTS				Cast	UNLIMITED DIMENSIONS TO BE ±0.5
				M/C	Scale
		Standard	DESCRIPTION		
		Approvals	blueARROW		
ECN	BY	DATE	Name	Date	ENGINE SCHEMA E
JET			Designed	F.K.	07.04.05
		Reviewed			DWG No 208157
This print is provided on a restricted basis and is not to be used in any way detrimental to the interests of C. W. F. Hamilton Ltd					G