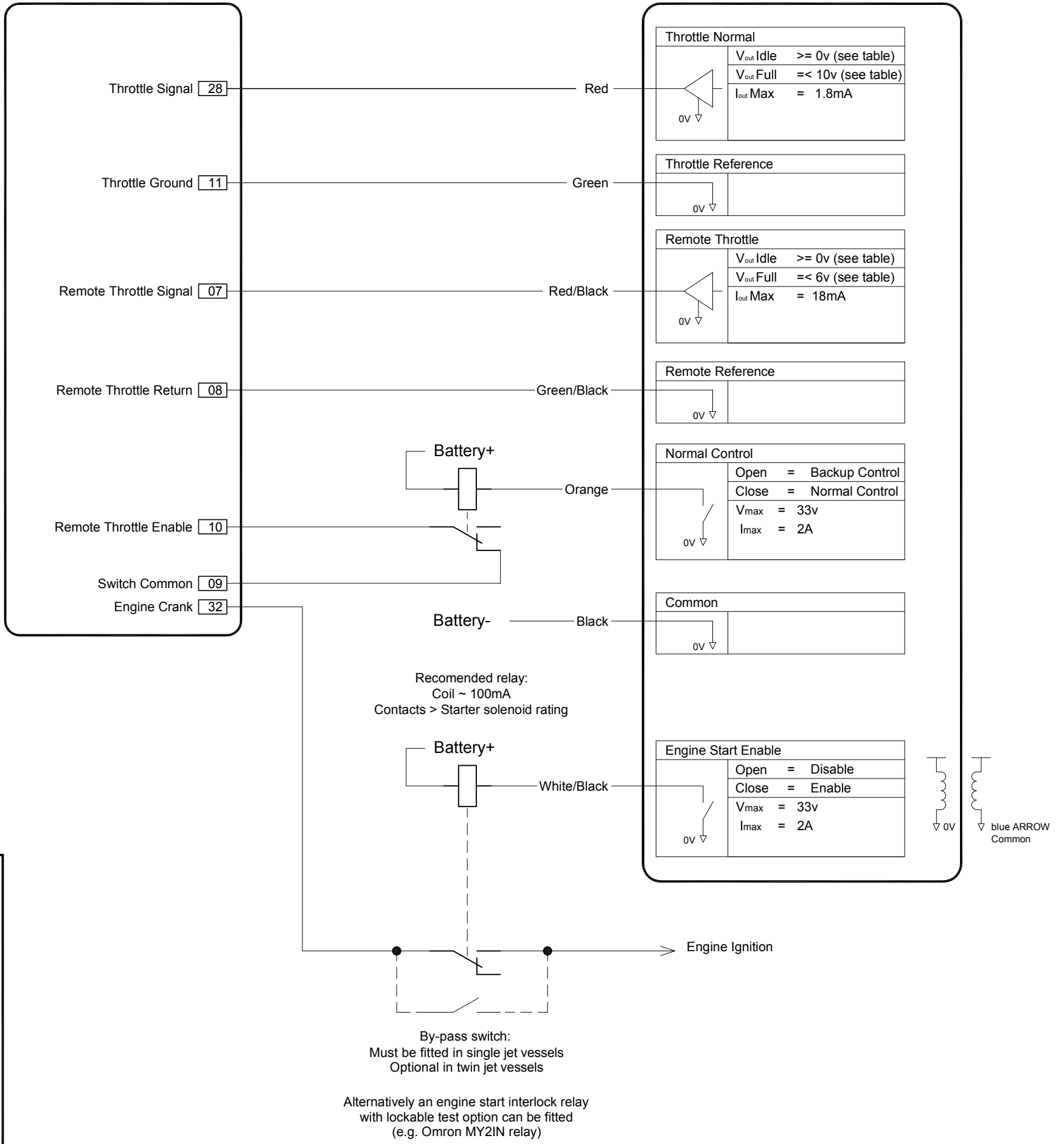


Engine Controller

blue ARROW Engine Interface Module



REMOTE THROTTLE OPTION

**C. W. F. Hamilton & Co. Ltd Christchurch, New Zealand**

AMENDMENT  
D - SHEET 3 ADDED TO DRAWING  
C - ENGINE INTERLOCK BYPASS SWITCH ADDED

ECN	CL678	BY	J.S.R	DATE	07.09.11
JET					

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

MATERIAL	Certified	Weight (kg)
UNLIMITED DIMENSIONS TO BE 50.5	Cast	M/C
Standard	Approvals	Name
Standard	Approvals	Date
Designed	Reviewed	F.K.
20.03.06		

DESCRIPTION  
blueARROW ENGINE SCHEMA D CONFIGURATION VOLTAGE DRIVE

DWG No 204970 SHEET 1/3 D

Manufacturer	Model	Notes	Normal				Backup				
			Demand Type	Feedback Type	Idle RPM	Full RPM	Idle Level	Full Level	EngDmd Mode	EngDmdHi	EngDmdLo
Cummins	QSC		Voltage	Jet	800#	2600#	12	41	Voltage	9933* (4.12v)	3271* (1.2v)
Cummins	QSB		Voltage	Jet	600#	3000#	12	41	Voltage	9933* (4.12v)	3271* (1.2v)

Notes

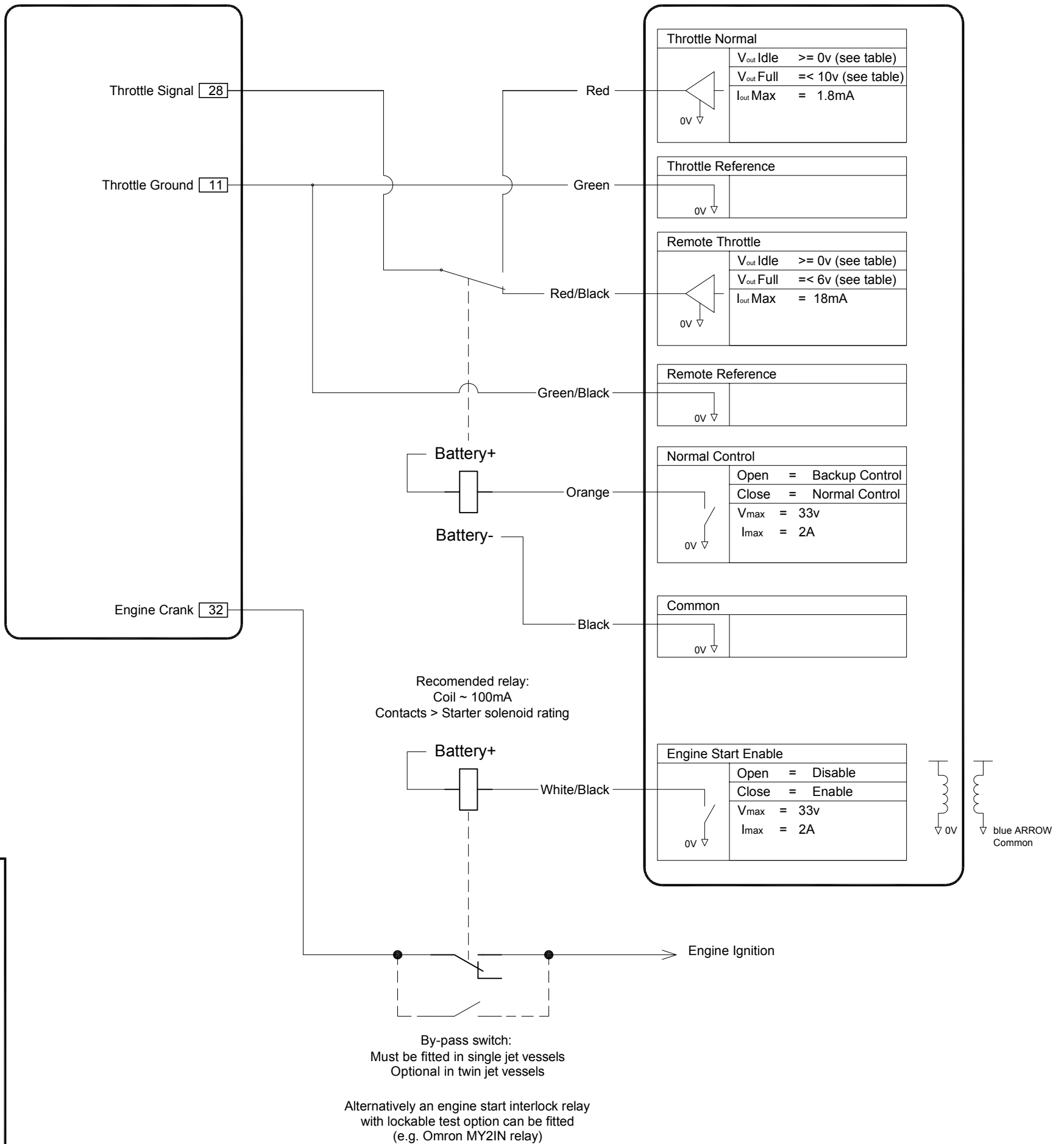
# Engine RPM is affected by specific waterjet selection. Enter values set for particular installation. If gearbox fitted adjust to give jet shaft RPM.

\* Initial values only. Adjust values during installation to achieve correct levels.

Values not specified to be left at factory defaults

Engine Controller

blue ARROW  
Engine Interface Module



**NON REMOTE THROTTLE OPTION**

Manufacturer	Model	Notes	Normal				Backup				
			Demand Type	Feedback Type	Idle RPM	Full RPM	EngDmd Mode	EngDmdHi	EngDmdLo		
Cummins	QSC		Voltage	Jet	800#	2600#	12	41	Voltage	9933* (4.12v)	3271* (1.2v)
Cummins	QSB		Voltage	Jet	600#	3000#	12	41	Voltage	9933* (4.12v)	3271* (1.2v)

Notes

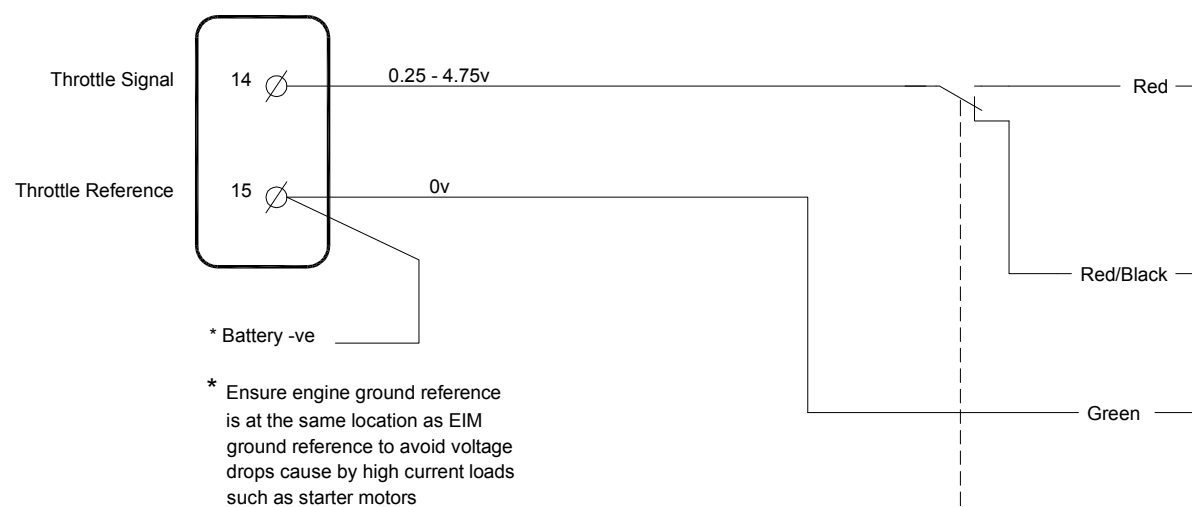
- # Engine RPM is affected by specific waterjet selection. Enter values set for particular installation. If gearbox fitted adjust to give jet shaft RPM.
- \* Initial values only. Adjust values during installation to achieve correct levels.
- Values not specified to be left at factory defaults

**C. W. F. Hamilton & Co. Ltd Christchurch, New Zealand**

AMENDMENT		MATERIAL		Weight (kg)	
SEE SHEET 1 FOR AMENDMENTS		Certified	Cast	UNLIMITED DIMENSIONS TO BE 50.5	
ECN	BY	DATE	Standard	Scale NTS	
JET			Approvals	DESCRIPTION	
			Name	blueARROW	
			Date	ENGINE SCHEMA D	
			Reviewed	CONFIGURATION	
			Designed	VOLTAGE DRIVE	
			F.K.	20.03.06	
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 204970 SHEET 2/3 D	

blue ARROW  
Engine Interface Module

MTU MIM  
DRC 16-245



\* Battery -ve

\* Ensure engine ground reference is at the same location as EIM ground reference to avoid voltage drops cause by high current loads such as starter motors

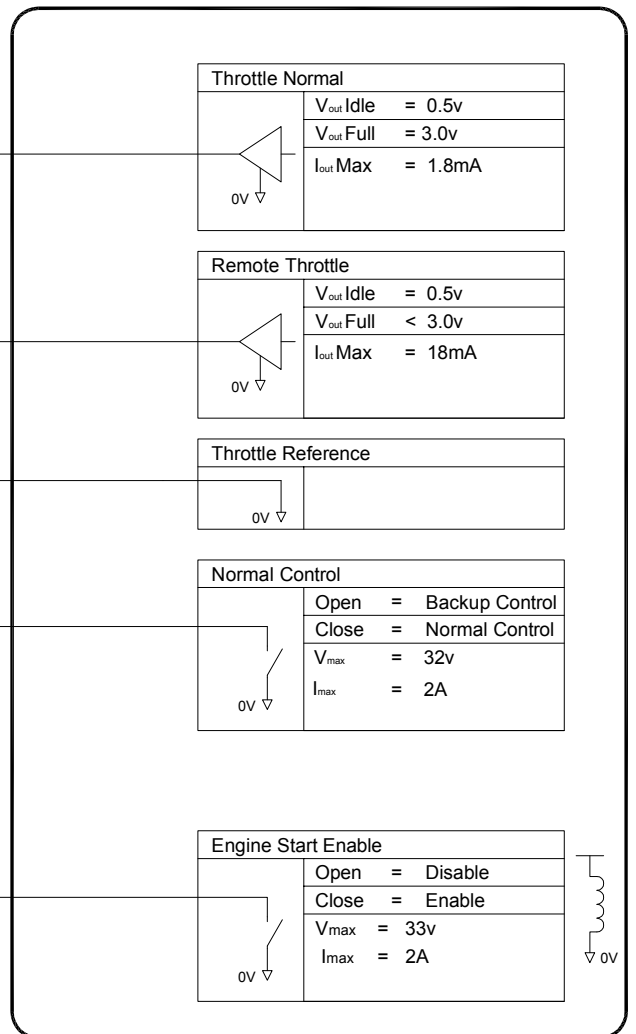
**Recommended Relay**  
Omron MY4 (Gold Contacts)  
Available from  
Farnell Inone

- Base: 176-963
- Clip: 103-923
- MY4 Relay: 186-454

**RS**

- MY4 Relay: 488-2569
- Base: 196-6147

Recommended relay:  
Coil ~ 100mA  
Contacts > Starter solenoid rating



BA J/BOX



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)

DWG No 204970

Make	Model	Feedback Type	Demand Type	Min RPM	Max RPM	Volt Min	Volt Max	Eng Dmd Mode	Eng Dmd Low	Eng Dmd High
MTU	MTU SERIES 60	Jet	Voltage	550 <sup>#</sup>	2350 <sup>#</sup>	2	47	Voltage	1300*	8250*

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

C. W. F. Hamilton & Co. Ltd Christchurch, New Zealand										
AMENDMENT SEE SHEET 1 FOR AMENDMENTS				MATERIAL	Certified	Weight (kg)	√ = N9 EXCEPT AS STATED			
						Cast	UNLIMITED DIMENSIONS TO BE ±0.5		Scale NTS	
						M/C	DESCRIPTION			
							blueARROW ENGINE SCHEMA D CONFIGURATION VOLTAGE DRIVE			
ECN		BY		DATE		Name	Date			
JET					Designed	F.K.	20.03.06			
				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 204970		SHEET 3/3	D