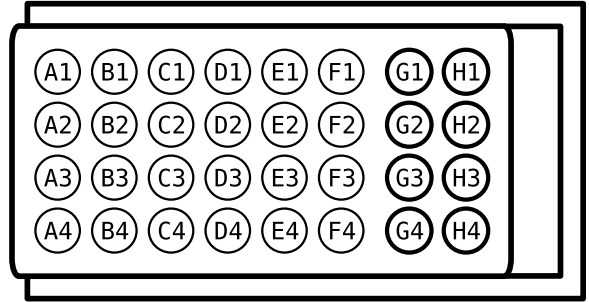
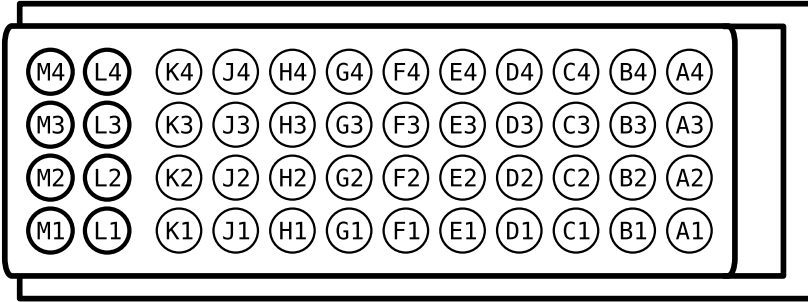


EM140/EM160/EM180 PINOUT

PLUG A

PLUG B



VIEWING WIRE SIDE OF LOOM PLUG

PLUG A			PIN TYPE	PLUG B		
COLOUR	PIN	NAME		NAME	PIN	COLOUR
RED RED	AK3 AK4	+12V Ignition +12V Ignition	ECU POWER INPUT			
ORANGE	AK2	+5 Volts Output	POWER FOR SENSORS			
LARGE BLACK LARGE BLACK	AF2 AG2	Battery Ground Battery Ground	GROUNDINGS	Battery Ground Battery Ground Signal Ground Signal Ground	BE2 BF2 BD2 BE4	LARGE BLACK LARGE BLACK SMALL BLACK SMALL BLACK
GREY GREY GREY GREY GREY GREY YELLOW(SHIELDED)	AC2 AB2 AD2 AH2 AJ2 AE2 AK1	Engine Temperature Air Temperature Throttle Position Signal Lambda 1 VS Lambda 1 IP CAL TRIM 1 Knock 1	SENSORS	Lambda 2 VS Lambda 2 IP CAL TRIM 2 Knock 2	BC2 BB2 BF3 BF1	GREY GREY GREY YELLOW(SHIELDED)
GREEN(SHIELDED) YELLOW(SHIELDED)	AC1 AB1	Trigger Sync 1	TRIGGER AND SYNCs	Sync 2 Sync 3 Sync 4	BB4 BC4 BD4	YELLOW(SHIELDED) YELLOW(SHIELDED) YELLOW(SHIELDED)
BLUE BLUE BLUE BLUE BLUE BLUE BLUE BLUE BLUE	AJ3 AH3 AG3 AF3 AE3 AD3 AC3 AB3	0 - 5V Input 2 0 - 5V Input 3 0 - 5V Input 4 0 - 5V Input 5 0 - 5V Input 6 0 - 5V Input 7 0 - 5V Input 8 0 - 5V Input 9	ANALOG INPUTS	0 - 5V Input 1 0 - 5V Input 10 0 - 5V Input 11 0 - 5V Input 12 0 - 5V Input 13	BF4 BB3 BC3 BD3 BE3	BLUE BLUE BLUE BLUE BLUE
GREEN GREEN GREEN GREEN GREEN GREEN	AJ1 AH1 AG1 AF1 AE1 AD1	Digital Input 1 Pulsed Digital Input 2 Pulsed Digital Input 3 Digital Input 4 Digital Input 5 Digital Input 6	DIGITAL INPUTS			
PINK PINK PINK PINK	AE4 AD4 AC4 AB4	Ignition 1 Ignition 2 Ignition 3 Ignition 4	IGNITION OUTPUTS	Ignition 5 Ignition 6 Ignition 7 Ignition 8	BA1 BA2 BA3 BA4	PINK PINK PINK PINK
WHITE WHITE WHITE WHITE WHITE WHITE WHITE WHITE	AM4 AL4 AM3 AL3 AM2 AL2 AM1 AL1	Injector 1 Injector 2 Injector 3 Injector 4 Staged Injector 1 Staged Injector 2 Staged Injector 3 Staged Injector 4	INJECTOR OUTPUTS	Injector 5 Injector 6 Injector 7 Injector 8 Staged Injector 5 Staged Injector 6 Staged Injector 7 Staged Injector 8	BG1 BH1 BG2 BH2 BG3 BH3 BG4 BH4	WHITE WHITE WHITE WHITE WHITE WHITE WHITE WHITE
YELLOW YELLOW YELLOW YELLOW	AJ4 AH4 AG4 AF4	PWM 1 PWM 2 PWM 3 PWM 4	AUXILARY OUTPUTS	PWM 5 PWM 6 PWM 7 PWM 8	BB1 BC1 BD1 BE1	YELLOW YELLOW YELLOW YELLOW
YELLOW YELLOW YELLOW YELLOW	AA1 AA4 AA3 AA2	Motor 1 + Motor 1 - Motor 2 + Motor 2 -	DRIVE-BY-WIRE MOTOR OUTPUTS/ STEPPER MOTOR			

DRIVE-BY-WIRE ANALOG INPUTS:

- PEDAL1 = INPUT 10
- PEDAL2 = INPUT 8
- PEDAL3 = INPUT 9
- TPSA1 = TPS INPUT
- TPSA2 = INPUT 11
- TPSB1 = INPUT 12
- TPSB2 = INPUT 13

SMALL BLACKS ARE FOR SENSORS
DO NOT CONNECT TO CHASSIS
LEAVE UNCONNECTED IF UNUSED

TITLE EM1XX PINOUT

DATE 09-Sep-2016

REV 8