

Instruction Manual



30-7106/7108/7112 Infinity Hardware Specification



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WARNING: This installation is not for the tuning novice! Use this system with **EXTREME** caution! The AEM Infinity Programmable EMS allows for total flexibility in engine tuning. Misuse or improper tuning of this product can destroy your engine! If you are not well versed in engine dynamics and the tuning of engine management systems **DO NOT** attempt the installation. Refer the installation to an AEM-trained tuning shop or call 800-423-0046 for technical assistance.

NOTE: All supplied AEM calibrations, Wizards and other tuning information are offered as potential starting points only. IT IS THE RESPONSIBILITY OF THE ENGINE TUNER TO ULTIMATELY CONFIRM IF THE CALIBRATION IS SAFE FOR ITS INTENDED USE. AEM holds no responsibility for any engine damage that results from the misuse or mistuning of this product!

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Hardware

Infinity Hardware Specifications

Specifications	Infinity-308 PN: 30-7113	Infinity-358 PN: 30-7114	Infinity-506 PN: 30-7106	Infinity-508 PN: 30-7108/7112	Infinity-708 PN: 30-7101	Infinity-710 PN: 30-7100	Infinity-712 PN: 30-7111
Cylinders	Up to 8	Up to 8	Up to 6	Up to 8	Up to 8	Up to 10	Up to 12
Injectors, Low Impedance (Sequential)	2	N/A	6	N/A	8	10	12
Injectors High Impedance (Sequential)	8	8	Up to 6	8	8	10	12
Ignition (or Coil) Triggers - 0-5v Falling Edge	8	N/A	6	8	8	10	10
Direct Coil Driver - Distributed	1	1	N/A	N/A	N/A	N/A	N/A
Direct Coil Drivers - COP	N/A	8	N/A	N/A	N/A	N/A	N/A
Connector Pins	73	73	80	80	129	129	129
Drive-by-Wire	N/A	N/A	Single	Single	Dual	Dual	Dual
H-Bridge Channels	N/A	N/A	1	1	2	2	2
RS232 Channels*	1	1	1	1	1	1	1
CAN Channels	1	1	2	2	2	2	2
Knock Control	2-Channel	2-Channel	2-Channel	2-Channel	2-Channel	2-Channel	2-Channel
Analog Voltage Inputs	Up to 9	Up to 9	Up to 9	Up to 9	Up to 17	Up to 17	Up to 17
Analog Temp Inputs	Up to 3	Up to 3	Up to 3	Up to 3	Up to 6	Up to 6	Up to 6
VR/Mag Inputs	Up to 2	Up to 2	Up to 4	Up to 4	Up to 6	Up to 6	Up to 6
Digital Inputs	Up to 8	Up to 8	Up to 8	Up to 6	Up to 8	Up to 8	Up to 8
Internal Wideband UEGO Controller	N/A	N/A	1	1	2	2	2
High Side Outputs	N/A	N/A	1	1	Up to 2	Up to 2	Up to 2
Low Side Outputs	10	10	8	6	10	10	10

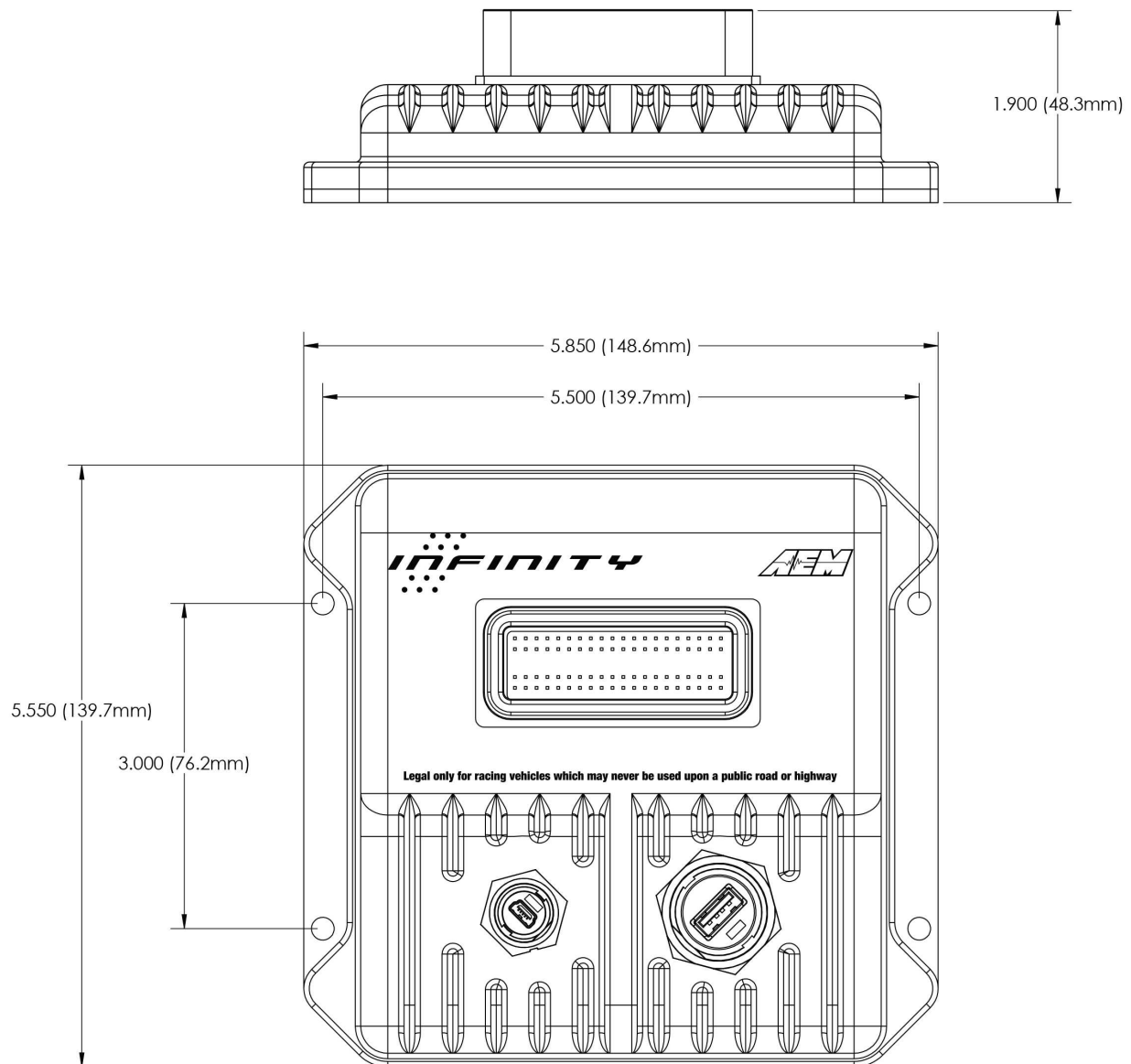
Infinity Hardware Specification

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Specifications	Infinity-308 PN: 30-7113	Infinity-358 PN: 30-7114	Infinity-506 PN: 30-7106	Infinity-508 PN: 30-7108/7112	Infinity-708 PN: 30-7101	Infinity-710 PN: 30-7100	Infinity-712 PN: 30-7111
4-Wire Stepper Motor Control	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Boost Control (RPM, Time, Gear, VSS, Switch Input, Flex Fuel Content)	Application Dependent	Application Dependent	Yes	Yes	Yes	Yes	Yes
Engine Protection	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Variable Cam Control	Up to 2 Application Dependent	Up to 2 Application Dependent	Up to 2	Up to 2	Up to 4	Up to 4	Up to 4
Launch Control	Application Dependent	Application Dependent	Yes	Yes	Yes	Yes	Yes
Nitrous Control	Application Dependent	Application Dependent	Single Stage	Single Stage	Single Stage	Single Stage	Single Stage
Data Logging	PC & Internal Engine History	PC & Internal Engine History	Up to 64 GB	Up to 64 GB	Up to 64 GB	Up to 64 GB	Up to 64 GB
Traction Control	Up to 2-Wheel Speed Application Dependent	Up to 2-Wheel Speed Application Dependent	Up to 2-Wheel Speed	Up to 2-Wheel Speed	Up to 4-Wheel Speed	Up to 4-Wheel Speed	Up to 4-Wheel Speed
Weather Resistance	Yes, Sealed Enclosure with IP67 Connectors	Yes, Sealed Enclosure with IP67 Connectors	Yes, Sealed Enclosure with IP67 Connectors	Yes, Sealed Enclosure with IP67 Connectors	Yes, Sealed Enclosure with IP67 Connectors	Yes, Sealed Enclosure with IP67 Connectors	Yes, Sealed Enclosure with IP67 Connectors
Enclosure Dims	7.35"x6.55"x1.8"	.855"x5.55"x1.8"	5.855"x5.55"x1.8"	5.855"x5.55"x1.8"	6.75"x6.00"x1.8"	6.75"x6.00"x1.8"	6.75"x6.00"x1.8"
Weight	29.9 oz/848g	29.9 oz/848g	18.8 oz/476.27g	18.8 oz/476.27g	24oz/680g	24oz/680g	24oz/680g

**Dual use pins. Tx and Rx shared with 2 digital inputs.

ECU Installation Dimensions Infinity-Series5



Drawing: Infinity-6/8h Dimensions

ECU: Infinity-6/8h

Date: 07/23/2014

Rev: A

Engineer: Nakano

Wiring Harness

Wiring

Universal Pinout, Infinity-Series5

Infinity Pin	Hardware Ref.	Hardware Specification	Notes
C1-1	Lowside 4	Lowside switch, 1.7A max, NO internal flyback diode. 12V pullup	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-2	Lowside 5	Lowside switch, 6A max with internal flyback diode. Inductive load should NOT have full time power. 12V pullup	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-3*	Lowside 6 (*Infinity-506 Only)	Lowside switch, 6A max with internal flyback diode. Inductive load should NOT have full time power. No pullup	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-3**	Injector 7 (**Infinity-508 Only)	For use with high impedance (10-15 ohms) injectors only, 1.7A max.	Available on P/N 30-7108 only
C1-4*	Lowside 7 (*Infinity-506 Only)	Lowside switch, 6A max, NO internal flyback diode. No pullup	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-4**	Injector 8 (**Infinity-508 Only)	For use with high impedance (10-15 ohms) injectors only, 1.7A max.	Available on P/N 30-7108 only
C1-5	UEGO 1 Heat	Bosch UEGO controller	Lowside switch for UEGO heater control. Connect to pin 4 of Bosch UEGO sensor. NOTE that pin 3 of the Sensor is heater (+) and must be power by a fused/switched 12V supply.
C1-6	UEGO 1 IA		Trim Current signal. Connect to pin 2 of Bosch UEGO sensor
C1-7	UEGO 1 IP		Pumping Current signal. Connect to pin 6 of Bosch UEGO sensor
C1-8	UEGO 1 UN		Nernst Voltage signal. Connect to pin 1 of Bosch UEGO sensor
C1-9	UEGO 1 VM		Virtual Ground signal. Connect to pin 5 of Bosch UEGO sensor.

Infinity Pin	Hardware Ref.	Hardware Specification	Notes
C1-10	Battery Perm Power	Dedicated power management CPU	Full time battery power. MUST be powered before the ignition switch input is triggered (See C1-48).
C1-11	Coil 4	25 mA max source current	0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.
C1-12	Coil 3	25 mA max source current	0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.
C1-13	Coil 2	25 mA max source current	0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.
C1-14	Coil 1	25 mA max source current	0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.
C1-15	Coil 6	25 mA max source current	0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.
C1-16	Coil 5	25 mA max source current	0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.
C1-17	Crankshaft Position Sensor VR+	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page Cam/Crank for options.
C1-18	Crankshaft Position Sensor VR-		See Setup Wizard page Cam/Crank for options.
C1-19	Camshaft Position Sensor 1 VR-	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page Cam/Crank for options.
C1-20	Camshaft Position Sensor 1 VR+		See Setup Wizard page Cam/Crank for options.
C1-21	Lowside 2	Lowside switch, 1.7A max, NO internal flyback diode. No pullup	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-22	Lowside 3	Lowside switch, 6A max with internal flyback diode. Inductive	See Setup Wizard Page "Output Function Assignment" for setup options.

Infinity Hardware Specification

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Infinity Pin	Hardware Ref.	Hardware Specification	Notes
		load should NOT have full time power. No pullup	options.
C1-23	Analog Sensor Ground	Dedicated analog ground	Analog 0-5V sensor ground
C1-24	Analog Sensor Ground	Dedicated analog ground	Analog 0-5V sensor ground
C1-25	Crankshaft Position Sensor Hall	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page Cam/Crank for options.
C1-26	Camshaft Position Sensor 1 Hall	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page Cam/Crank for options.
C1-27	Digital 2	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page Cam/Crank for options.
C1-28	Dig3 [Hz] / Dig3 Duty	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page "Input Function Assignments" for setup options.
C1-29	Dig4 [Hz] / Dig4 Duty	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page "Input Function Assignments" for setup options.
C1-29	RS232 Rx	RS232 Line Driver/Receiver	Future expansion
C1-30	Digital 5	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page "Input Function Assignments" for setup options.
C1-30	RS232 Tx	RS232 Line Driver/Receiver	Future expansion
C1-31*	Dig6 [Hz] / Dig6_Duty (*Infinity-506 Only)	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page "Input Function Assignments" for setup options.
C1-31**	Coil 7 (**Infinity-508 Only)	25 mA max source current	Available on P/N 30-7108 only. 0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.
C1-32*	Digital 7 (*Infinity-506 Only)	10K pullup to 12V. Will work with ground or floating switches.	See Setup Wizard page "Input Function Assignments" for setup options.
C1-32**	Coil 8 (**Infinity-508 Only)	25 mA max source current	Available on P/N 30-7108 only. 0-5V Falling edge fire. DO NOT connect directly to coil primary. Must use an ignitor OR CDI that accepts a FALLING edge fire signal.

Infinity Pin	Hardware Ref.	Hardware Specification	Notes
C1-33	Battery Ground	Battery Ground	Connect directly to battery ground
C1-34	CANL A	Dedicated High Speed CAN Transceiver	Recommend twisted pair (one twist per 2") with terminating resistor. Contact AEM for additional information.
C1-35	CANH A	Dedicated High Speed CAN Transceiver	Recommend twisted pair (one twist per 2") with terminating resistor. Contact AEM for additional information.
C1-36	CanL B	Dedicated High Speed CAN Transceiver	Not used, reserved for future expansion.
C1-37	CanH B	Dedicated High Speed CAN Transceiver	Not used, reserved for future expansion.
C1-38	Analog Temp 1	12 bit A/D, 2.49K pullup to 5V	Default Coolant Temperature Input
C1-39	Analog Temp 2	12 bit A/D, 2.49K pullup to 5V	Default Air Temperature Input
C1-40	Analog Temp 3	12 bit A/D, 2.49K pullup to 5V	Default Oil Temperature Input. See Setup Wizard page "Input Function Assignments" for setup options.
C1-41	Lowside 0	Lowside switch, 1.7A max, NO internal flyback diode. No pullup	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-42	Lowside 1	Lowside switch, 6A max with internal flyback diode. Inductive load should NOT have full time power. No pullup	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-43	Battery Ground	Battery Ground	Connect directly to battery ground
C1-44	Knock Sensor 1	Dedicated knock signal processor	See Setup Wizard page Knock Setup for options.
C1-45	Knock Sensor 2	Dedicated knock signal processor	See Setup Wizard page Knock Setup for options.
C1-46	Battery Ground	Battery Ground	Connect directly to battery ground
C1-47	EFI Main Relay Switched Ground Output	0.7A max ground sink for external relay control	Will activate at key on and at key off according to the configuration settings.
C1-48	Ignition Switch	10K pulldown	Full time battery power must be

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Infinity Pin	Hardware Ref.	Hardware Specification	Notes
			available at C1-10 before this input is triggered.
C1-49	+5V Sensor Power	Regulated, fused +5V supply for sensor power	Analog sensor power
C1-50	+5V Sensor Power	Regulated, fused +5V supply for sensor power	Analog sensor power
C1-51	Analog 7	12 bit A/D, 100K pullup to 5V	Default primary Throttle Position sensor input. 0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU. See Setup Wizard Set Throttle Range page for automatic min/max calibration. Monitor the Throttle [%] channel. Also DB1_TPSA [%] for DBW applications.
C1-52	Analog 8	12 bit A/D, 100K pullup to 5V	Default Manifold Pressure Sensor input. 0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU.
C1-53	Analog 9	12 bit A/D, 100K pullup to 5V	Default Fuel Pressure Sensor Input. 0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU.
C1-54	VR+ 2	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page "Input Function Assignments" for setup options.
C1-55	VR- 2		
C1-56	VR- 3	Differential Variable Reluctance Zero Cross Detection	See Setup Wizard page "Input Function Assignments" for setup options.
C1-57	VR+ 3		

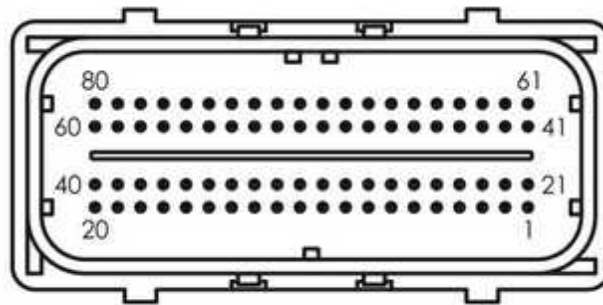
Infinity Pin	Hardware Ref.	Hardware Specification	Notes
C1-58	Highside 0	2.6A max, High Side Solid State Relay	See Setup Wizard Page "Output Function Assignment" for setup options.
C1-59	Stepper 1B	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor are properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.
C1-60	Stepper 2B	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor are properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.
C1-61	DBW1 Motor -	5.0A max Throttle Control Hbridge Drive	+12V to close
C1-62	DBW1 Motor +	5.0A max Throttle Control Hbridge Drive	+12V to open
C1-63	Main Relay Power Input	12 volt power from relay	12 volt power from relay. Relay must be controlled by +12V Relay Control signal, pin C1-47 above.
C1-64	Injector 6	Saturated (P/N 30-7108) or peak and hold, 3A max continuous (P/N 30-7106)	Injector 6
C1-65	Injector 5	Saturated (P/N 30-7108) or peak and hold, 3A max continuous (P/N 30-7106)	Injector 5
C1-66	Injector 4	Saturated (P/N 30-7108) or peak and hold, 3A max continuous (P/N 30-7106)	Injector 4
C1-67	Battery Ground	Battery Ground	Connect directly to battery ground
C1-68	Main Relay Power Input	12 volt power from relay	12 volt power from relay. Relay must be controlled by +12V Relay Control signal, pin C1-47 above.
C1-69	Analog 19	12 bit A/D, 100K pullup to 5V	0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU. See Setup Wizard page "Input Function Assignments" for setup options.

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Infinity Pin	Hardware Ref.	Hardware Specification	Notes
C1-70	Analog 18	12 bit A/D, 100K pullup to 5V	0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU. See Setup Wizard page "Input Function Assignments" for setup options.
C1-71	Analog 16	12 bit A/D, 100K pullup to 5V	0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU. See Setup Wizard page "Input Function Assignments" for setup options.
C1-72	Flash Enable	10K pulldown	Not usually needed for automatic firmware updates through Infinity Tuner. If connection errors occur during update, connect 12 volts to this pin before proceeding with upgrade. Disconnect the 12 volts signal after the update.
C1-73	Analog 13	12 bit A/D, 100K pullup to 5V	Default Oil Pressure Sensor input. 0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU.
C1-74	Analog 11	12 bit A/D, 100K pullup to 5V	0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU. See Setup Wizard page "Input Function Assignments" for setup options.
C1-75	Analog 10	12 bit A/D, 100K pullup to 5V	0-5V analog signal. Use +5V Out pins as power supply and Sensor Ground pins as the low reference. Do not connect signals referenced to +12V as this can permanently damage the ECU. See Setup Wizard page "Input Function Assignments" for setup options.
C1-76	Injector 3	Saturated (P/N 30-7108) or	Injector 3

Infinity Pin	Hardware Ref.	Hardware Specification	Notes
		peak and hold, 3A max continuous (P/N 30-7106)	
C1-77	Injector 2	Saturated (P/N 30-7108) or peak and hold, 3A max continuous (P/N 30-7106)	Injector 2
C1-78	Injector 1	Saturated (P/N 30-7108) or peak and hold, 3A max continuous (P/N 30-7106)	Injector 1
C1-79	Stepper 2A	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor are properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.
C1-80	Stepper 1A	Automotive, Programmable Stepper Driver, up to 28V and $\pm 1.4A$	Be sure that each internal coil of the stepper motor are properly paired with the 1A/1B and 2A/2B ECU outputs. Supports Bi-Polar stepper motors only.

Connector Views Infinity-Series5

INFINITY "C1" 80 PIN

Example System Schematics

Custom wiring harness projects should only be undertaken by experienced harness builders. If in doubt, please contact AEM for recommendations.

For users wishing to build their own wiring harnesses from scratch, the following kits are available to help.

30-3701 Infinity Series 7 Plug & Pin Kit

Bare necessities to begin a custom wire harness design. Includes 73- and 56-pin Molex MX123 harness connectors, terminals and sealing plugs, main relay and relay socket.

30-3702 Infinity Series 7 Mini-harness

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements. It allows the harness builder to populate the ECU connector with only the features needed by the application. Includes 100 96" pre-terminated leads.

30-3703 Infinity Series 7 Mini-harness

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements. It allows the harness builder to populate the ECU connector with only the features needed by the application.

30-3704 Infinity Series 5 Plug & Pin Kit

Bare necessities to begin a custom wire harness design. Includes 80-pin Molex MX123 harness connector, terminals and sealing plugs, main relay and relay socket.

30-3805 Universal modular V8 harness system for Infinity Series 7 systems

The Infinity Universal Modular V8 Harness system consists of a universal core harness and optional application specific extensions. It was designed with flexibility in mind. The harness system includes many features and it can be used in many different applications.

30-3809 Universal modular V8 harness system for Infinity Series 5 systems

The Infinity Universal Modular V8 Harness system consists of a universal core harness and optional application specific extensions. It was designed with flexibility in mind. The harness system includes many features and it can be used in many different applications.

30-3705 Universal Mini Harness for Infinity Series 5 systems

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements. It allows the harness builder to populate the ECU connector with only the features needed by the application.

30-3706 Universal Mini Flying Lead for Infinity Series 5 systems

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements.

30-3707 Universal Mini Flying Lead for Infinity Series 3 systems

This harness is intended to be used as a starting point by experienced harness builders. It saves time by including basic power distribution features that can be expanded to suit many application requirements.

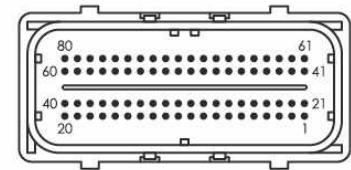
30-3708 Infinity Series 3 Plug & Pin Kit

Bare necessities to begin a custom wire harness design. Includes 73-pin Molex MX123 harness connector, terminals and sealing plugs, main relay and relay socket.

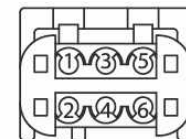
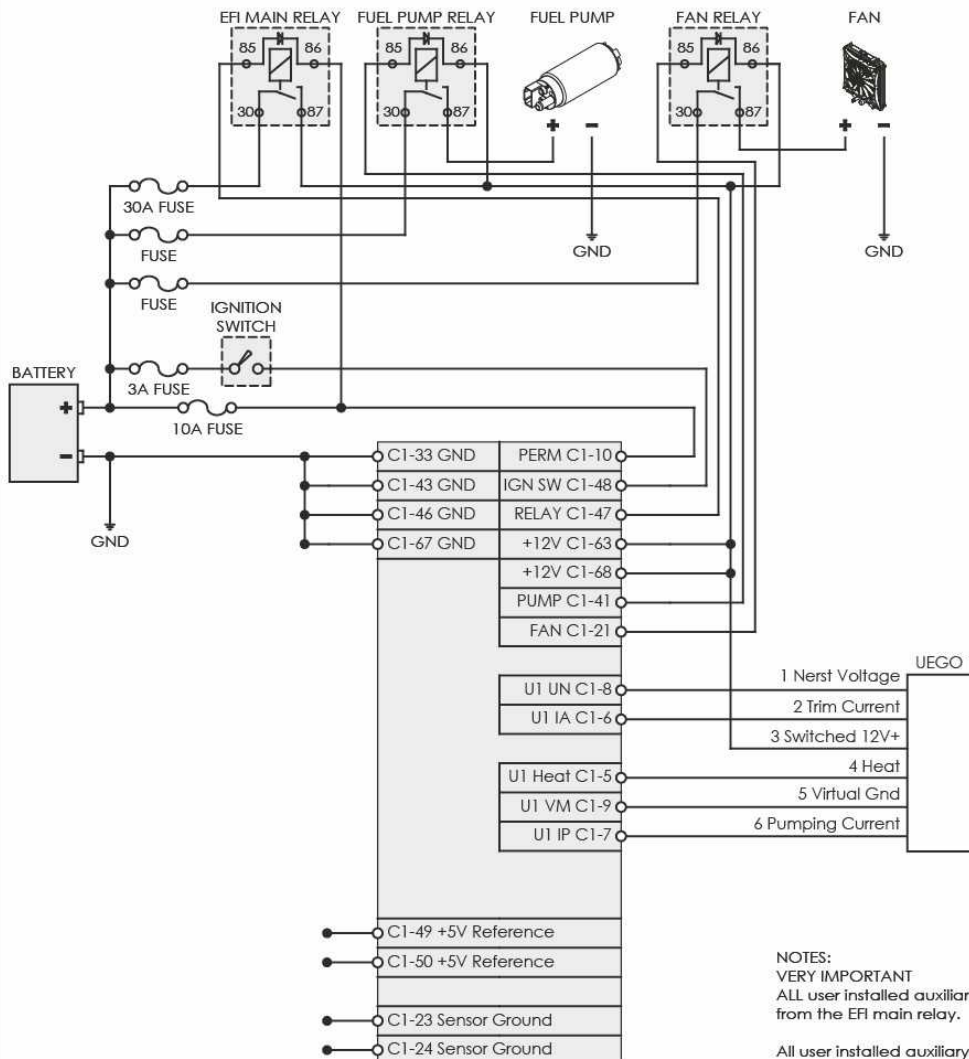
The following schematics show examples for wiring a basic Infinity system. Examples are included for Infinity Series 3, Infinity Series 5 and Infinity Series 7 hardware platforms. ***The power, ground and accessory relay sections of the following schematics must be strictly followed to avoid inconsistent power sequencing and possible ECU damage.***

Power Distribution, Infinity-Series5

NAME	FUNCTION
GND	Battery ground
PERM	Fused connection to battery positive terminal (+12V, always hot)
IGN SW	Fused connection to vehicle ignition switch (+12V in RUN/CRANK only)
RELAY	Switched ground from ECU connected to relay coil primary negative
+12V	Relay driven +12V power source for ECU power and auxiliary outputs
+5V Reference	+5V supplied by ECU
Sensor Ground	Analog ground used as ground point for sensors



INFINITY "C1" 80 PIN



NOTES:
 VERY IMPORTANT
 ALL user installed auxiliary relays must be powered by the output from the EFI main relay.

All user installed auxiliary circuits should be protected with a properly sized fuse as shown.

Relays with internal diodes must have the anode side of the coil connected to the ECU.



Drawing: Power Distribution

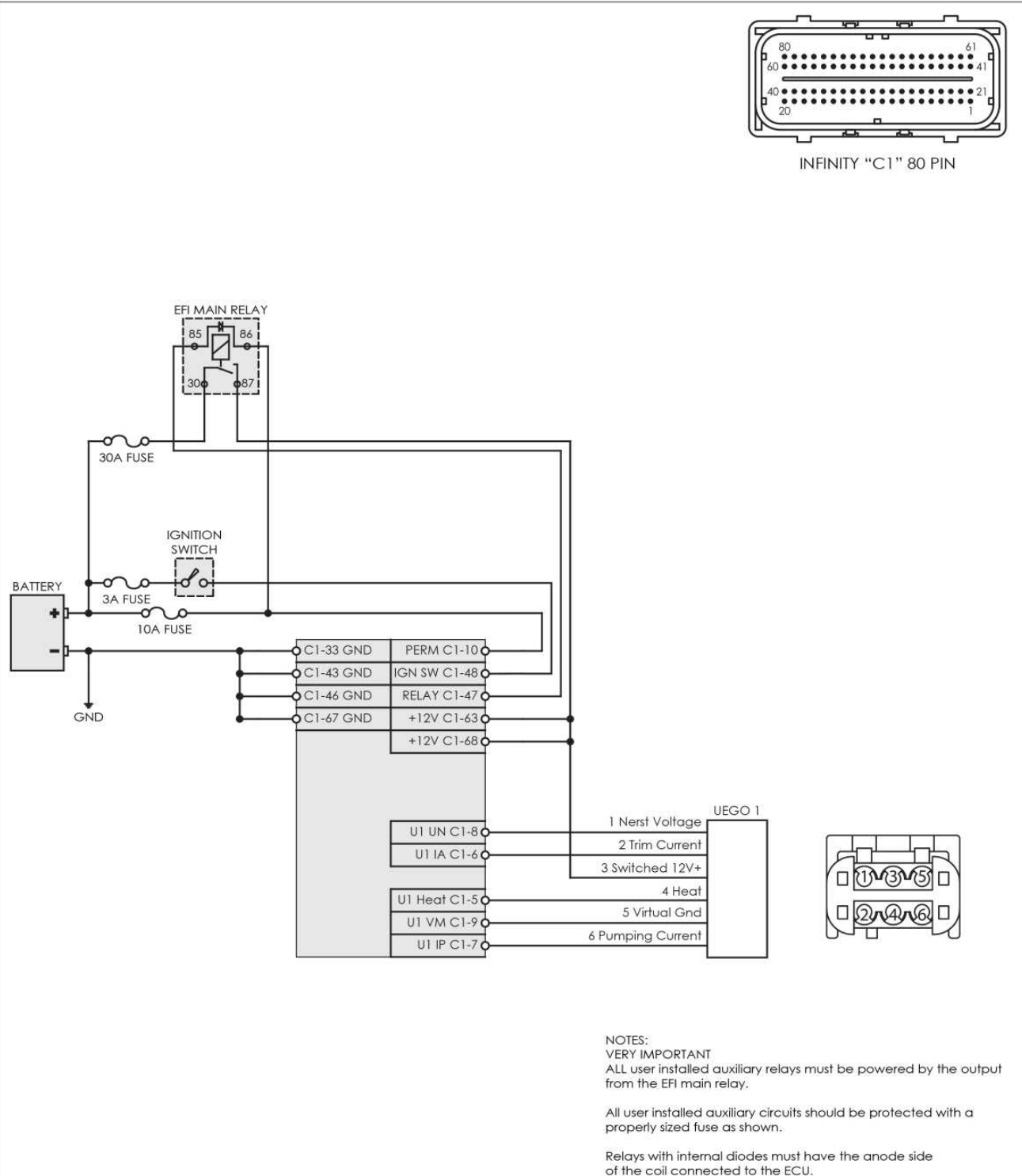
ECU: Infinity Series 5

Date: 3/24/16

Rev: C

Engineer: Nakano

Internal UEGO, Infinity-Series5



Drawing: Internal Wideband UEGO Sensor

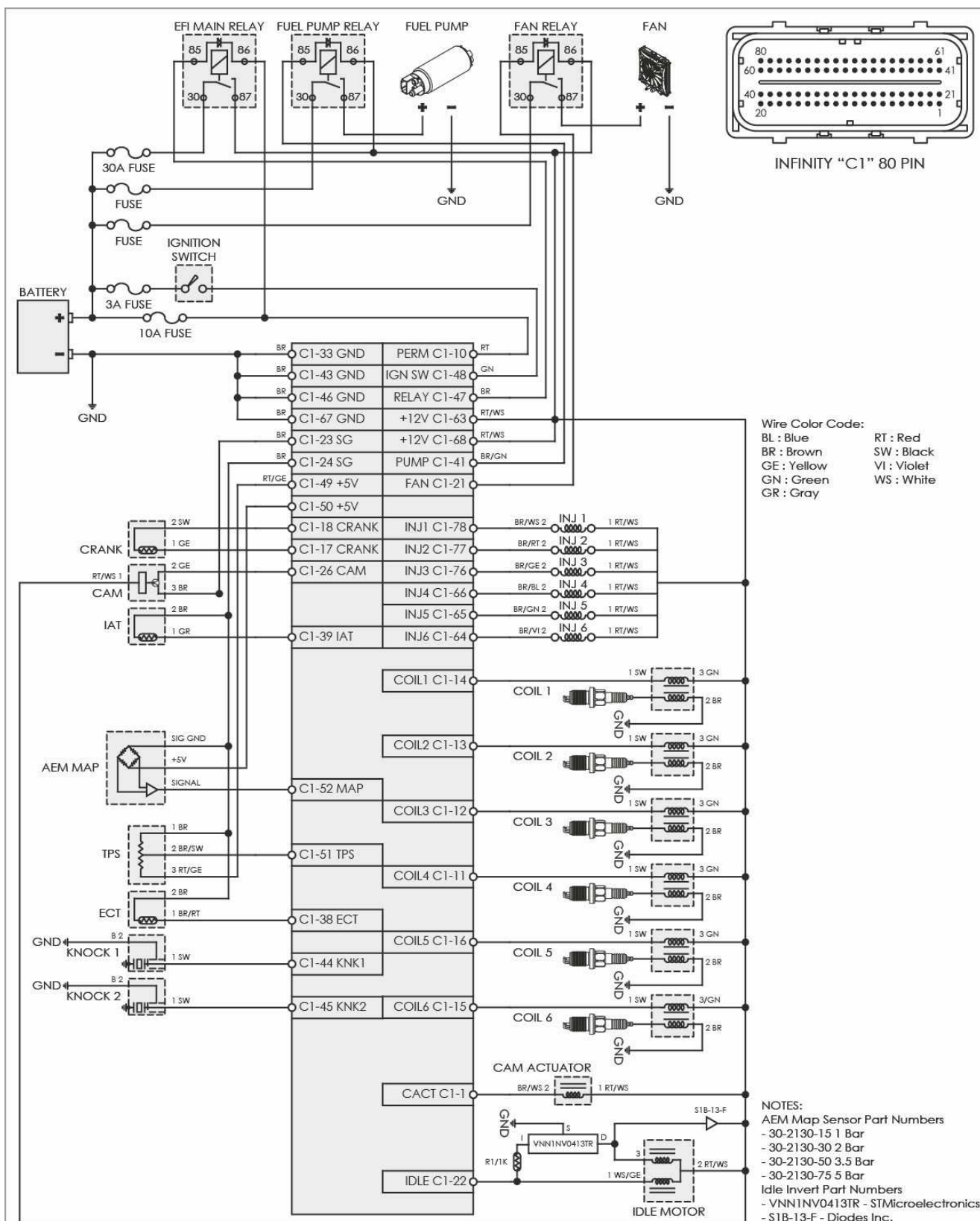
ECU: Infinity-6/8h

Date: 12/14/2014

Rev: A

Engineer: Nakano

95 BMW E36 M3, Infinity-Series5



Drawing: 1995 BMW M3 E36 M50

ECU: Infinity Series 5

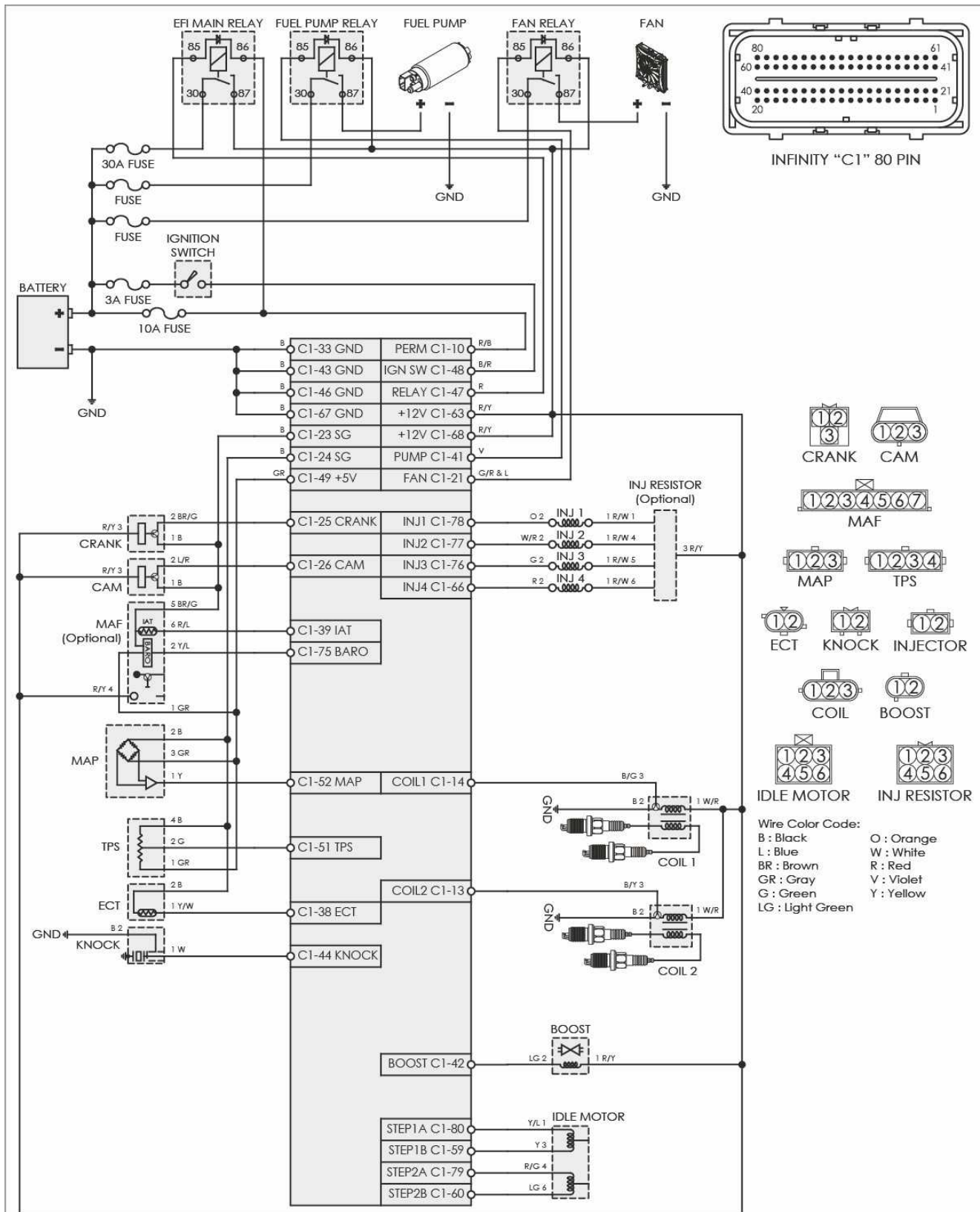
Date: 3/24/16

Rev: B

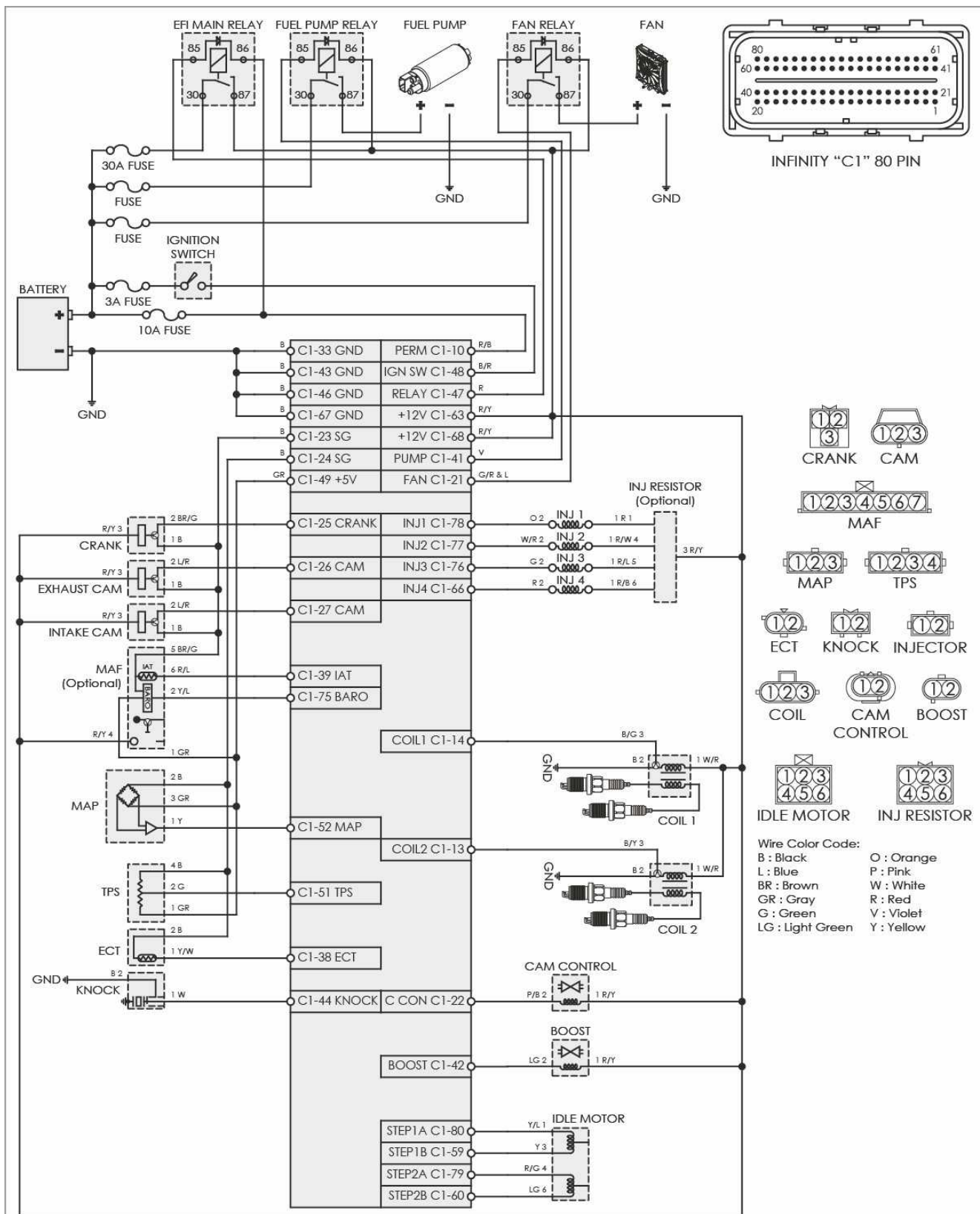
Engineer: Nakano

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EVO VIII, Infinity-Series5



EVO IX Pinout, Infinity-Series5



Drawing: 2006 Mitsubishi EVO IX

ECU: Infinity Series 5

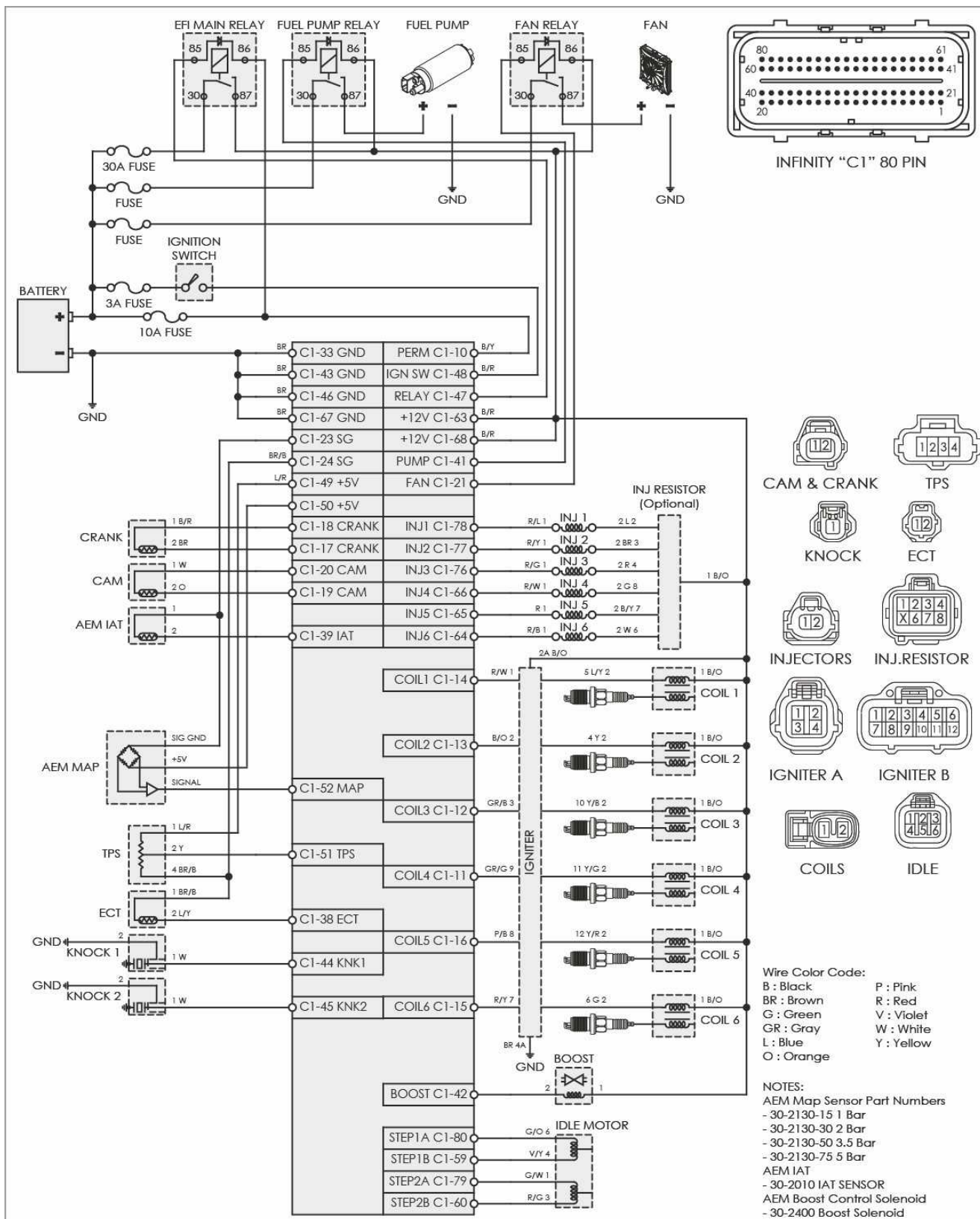
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Rev: B

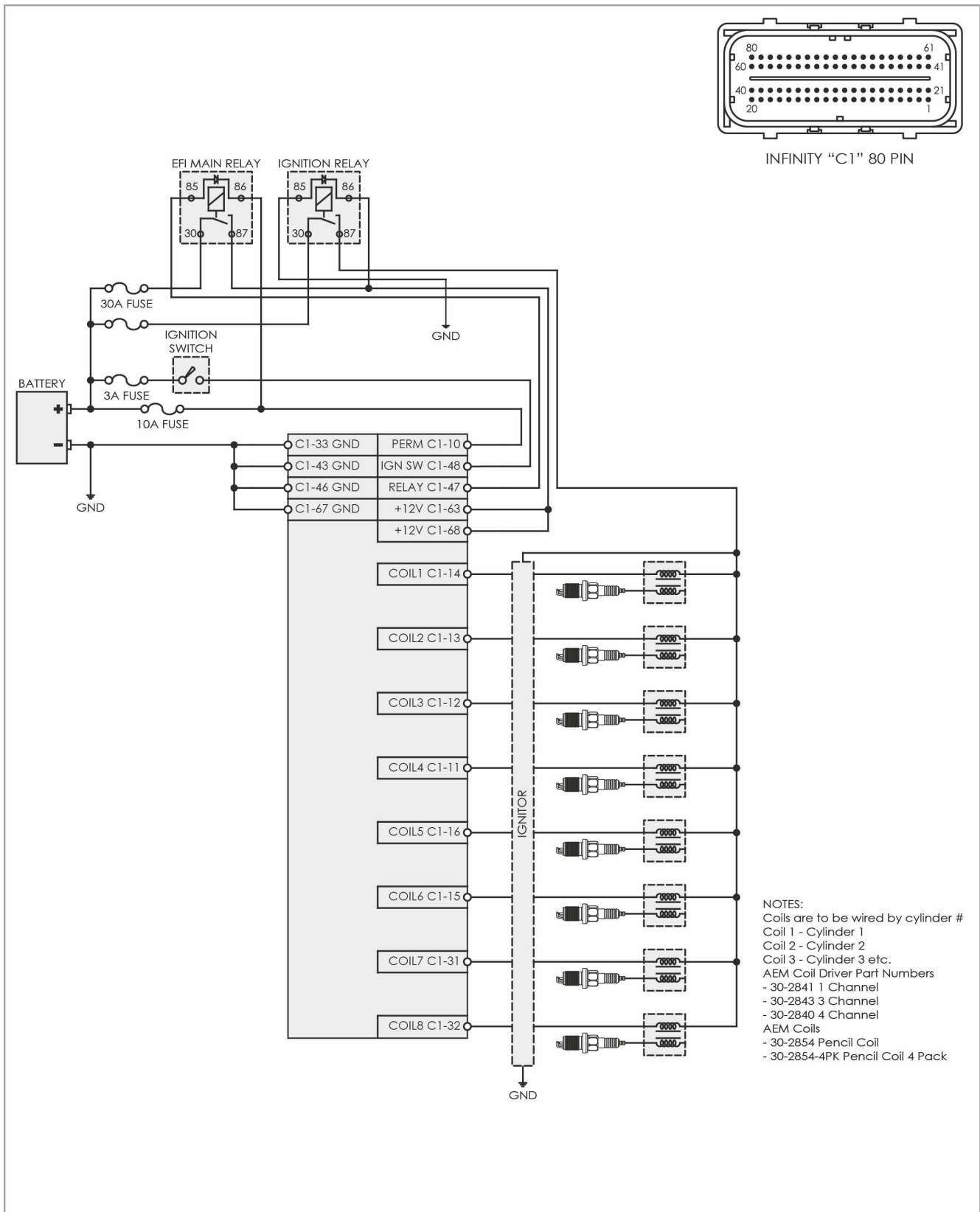
Engineer: Nakano

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93-98 Toyota Supra 2JZGTE, Infinity-Series5



Ignition System – COP 2 Wire "Dumb" Coils with Ignitor, Infinity-Series5



Drawing: Ignition System - COP 2-Wire Dumb Coils with Ignitor

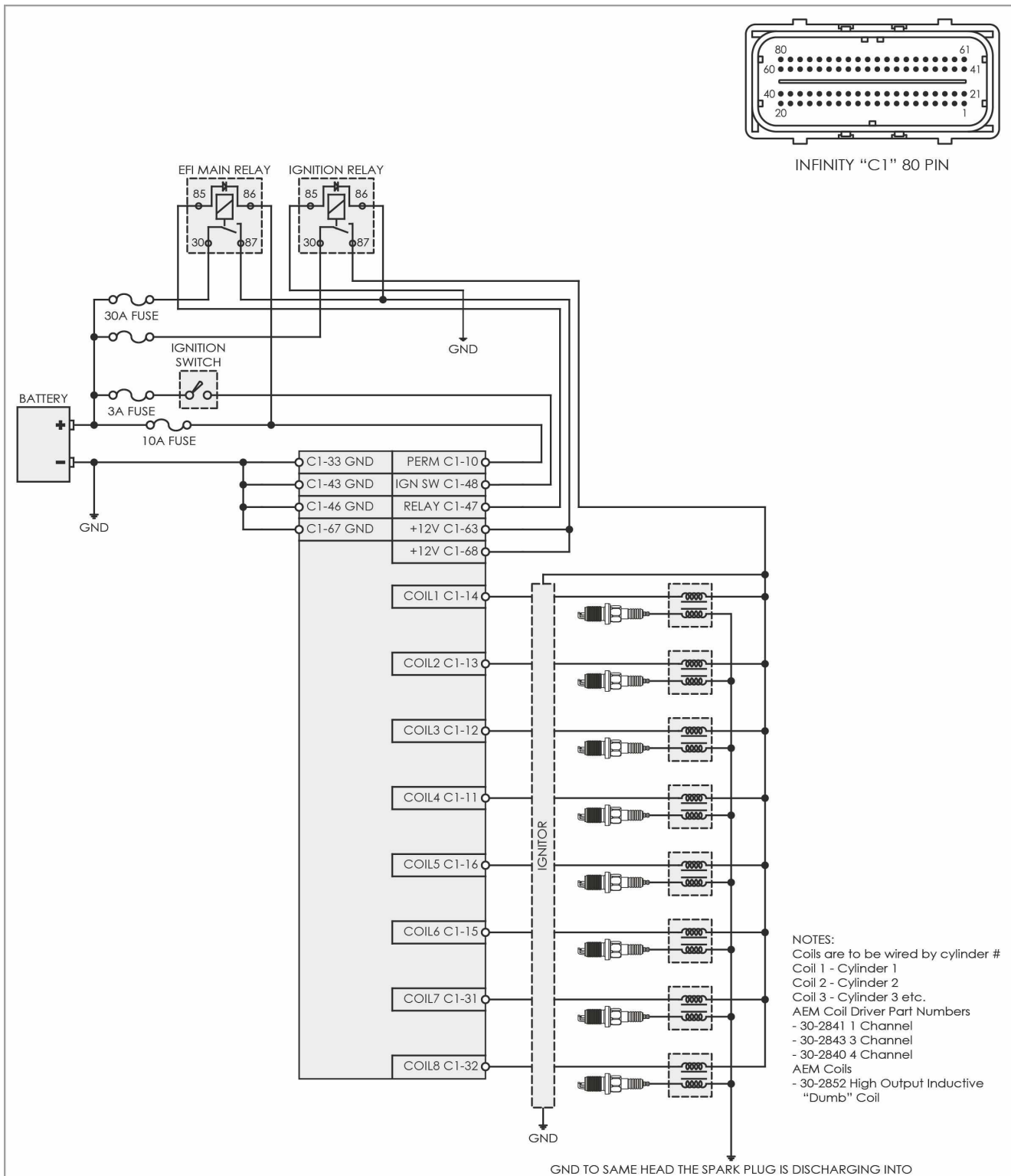
ECU: Infinity Series 5

Date: 3/24/16

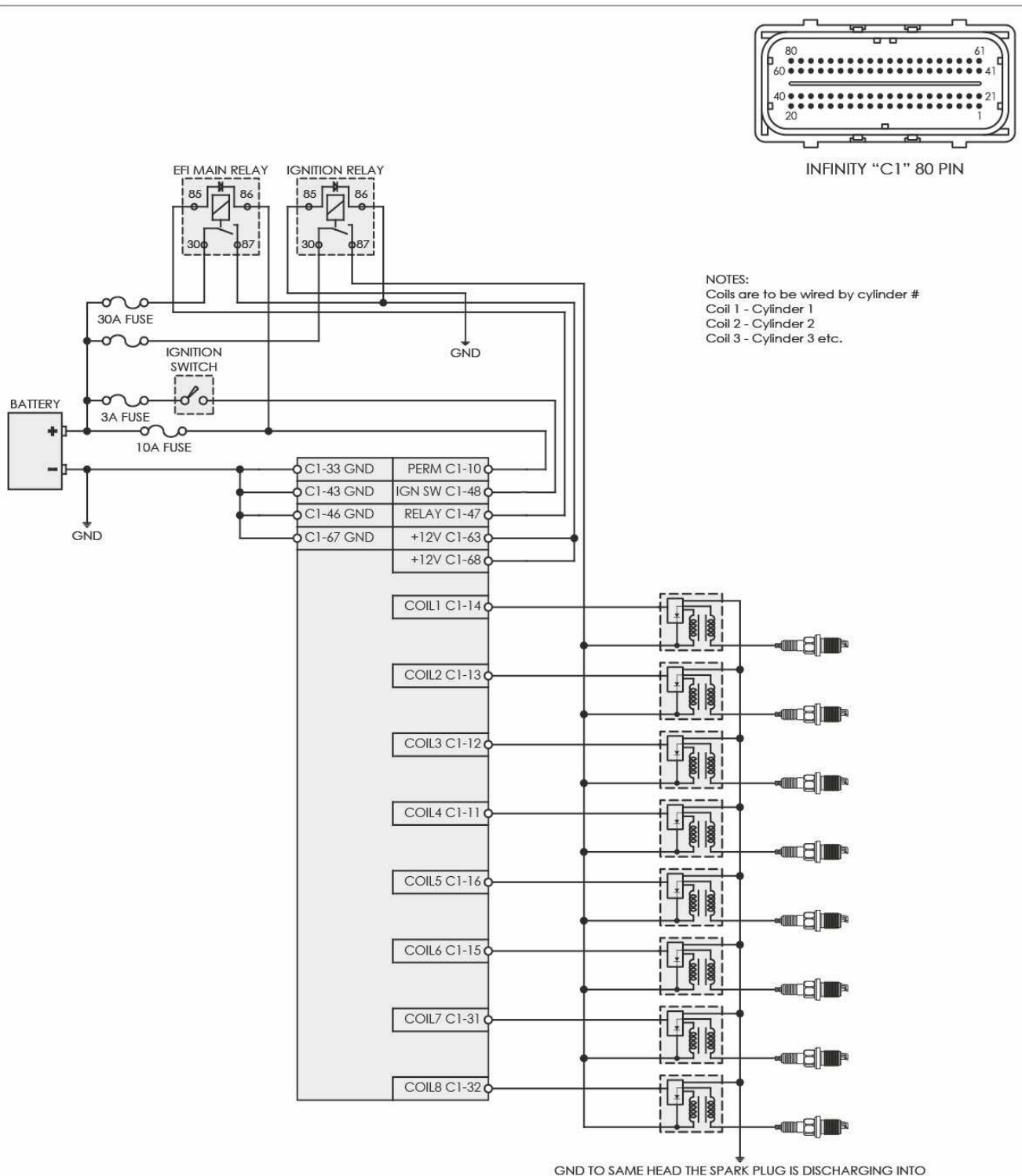
Rev: B

Engineer: Nakano

Ignition System – COP 3 Wire "Dumb" Coils with Ignitor, Infinity-Series5



Ignition System – COP 3 Wire "Smart" Coils, Infinity-Series5



Drawing: Ignition System - COP 3-Wire Smart

ECU: Infinity Series 5

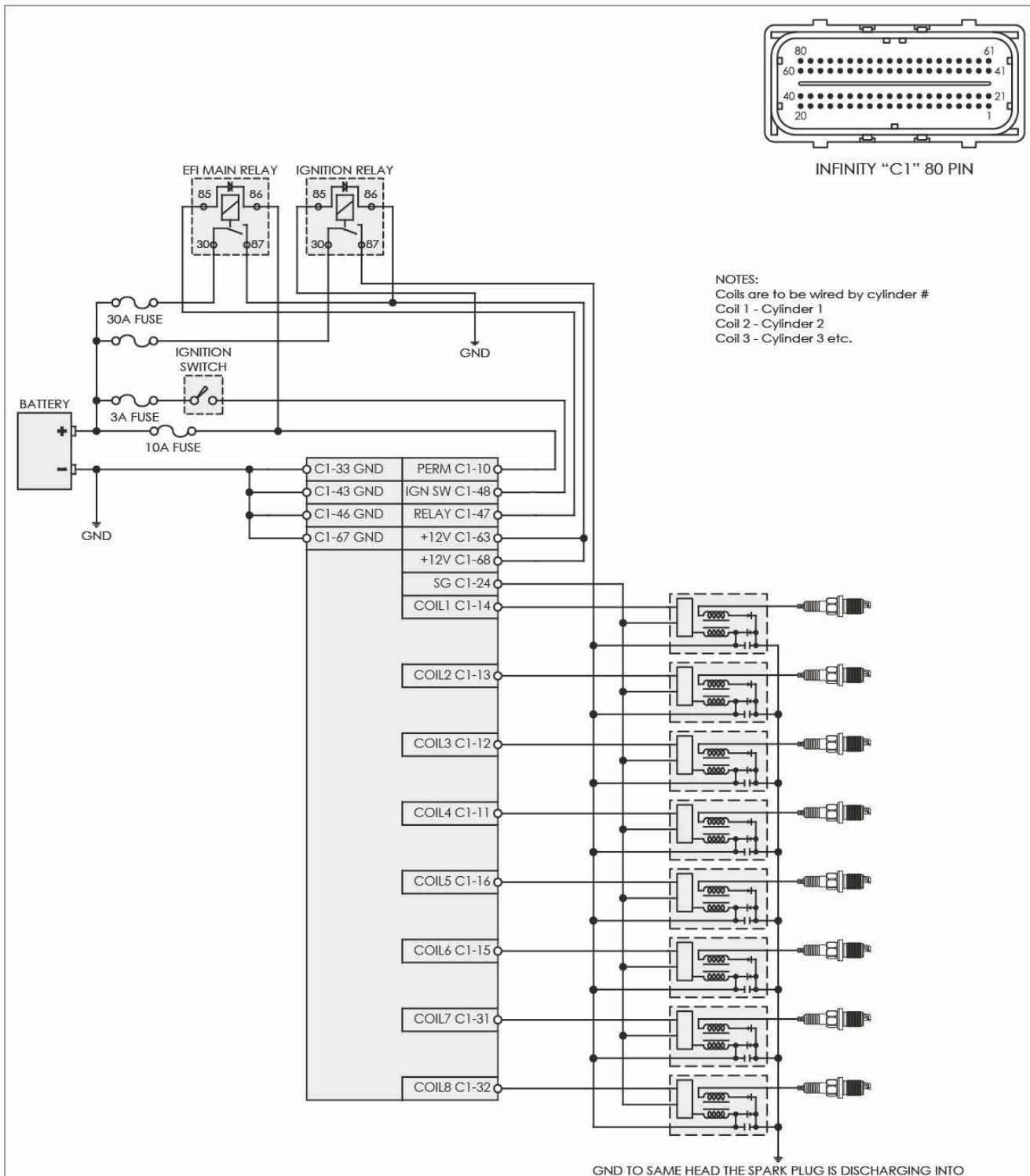
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Rev: B

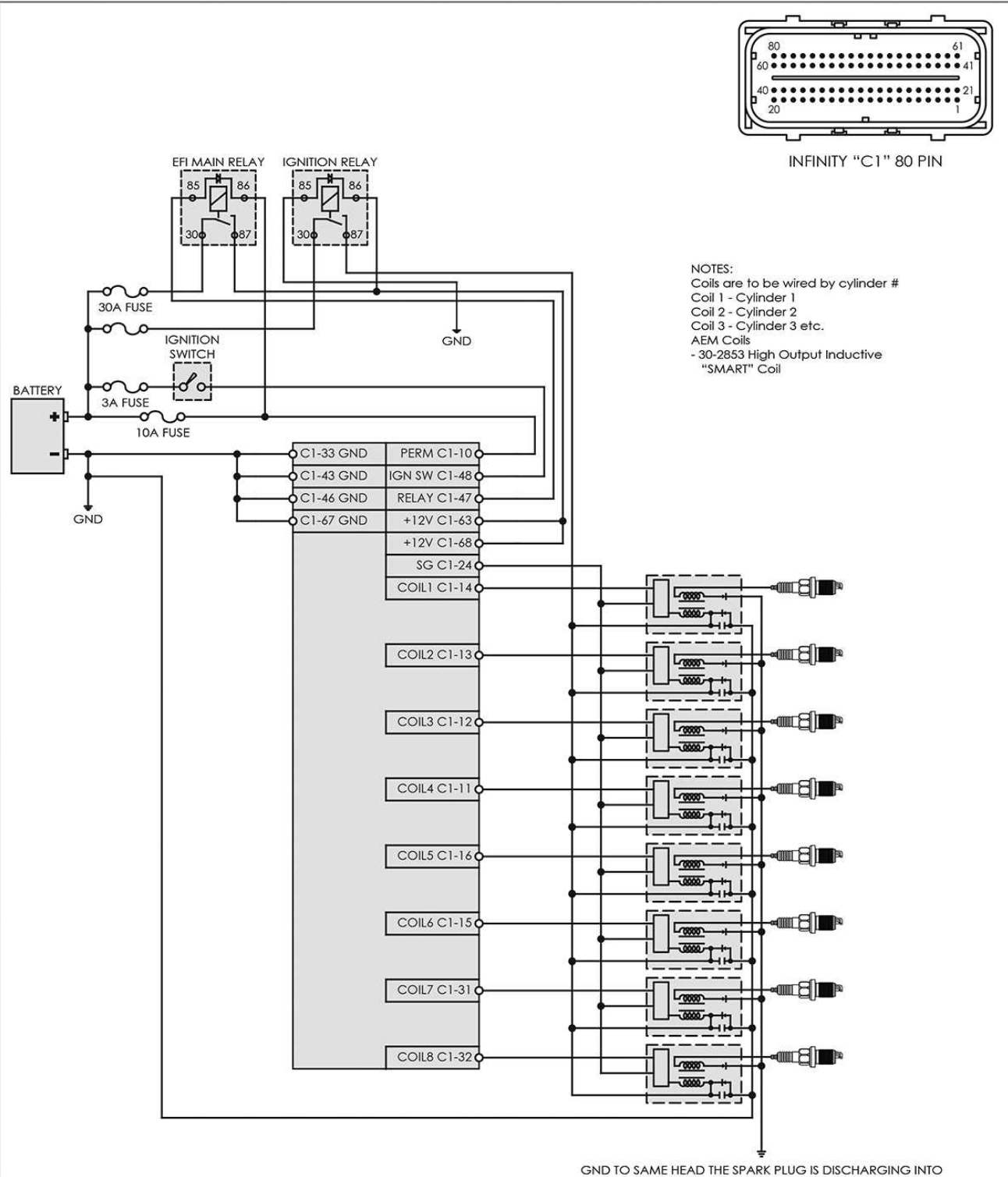
Engineer: Nakano

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Ignition System – COP 4 Wire "Smart" Coils, Infinity-Series5



Ignition System – COP 5 Wire "Smart" Coils, Infinity-Series5



Drawing: Ignition System - COP 5-Wire Smart

ECU: Infinity-6/8h

Date: 10/02/2014

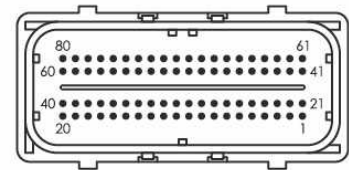
Rev: A

Engineer: Nakano

GM LS3 DBW Wiring, Infinity-Series5

ACCELERATOR PEDAL POSITION (APP) SENSOR

GM PIN	INFINITY PIN	WIRE COLOR	FUNCTION
A	C1-23	Purple	Sensor Ground
B	C1-69	Light Blue	Accelerator Pedal Position (APP) Sensor 2 Signal
C	C1-49	Tan	+5 Volt Reference
D	C1-24	Brown	Sensor Ground
E	C1-70	Dark Blue	Accelerator Pedal Position (APP) Sensor 1 Signal
F	C1-50	White/Black	+5 Volt Reference



INFINITY "C1" 80 PIN

THROTTLE BODY

GM PIN	INFINITY PIN	WIRE COLOR	FUNCTION
A	C1-61	Brown	Throttle Acuator Control (TAC) Motor Control - 2
B	C1-62	Yellow	Throttle Acuator Control (TAC) Motor Control - 1
C	C1-24	Tan/White	Sensor Ground
D	C1-51	Dark Green	Throttle Position Sensor 1 Signal
E	C1-50	Light Blue/Black	+5 Volt Reference
F	C1-71	Purple	Throttle Position Sensor 2 Signal

