



Elite 2500 Plug 'n' Play Adaptor Harness HT-141320

Supported Models

SUBARU WRX MY06-07
SUBARU WRX STI MY07

Package Contents

THIS SUBARU WRX MY06-07 PACKAGE CONTAINS THE FOLLOWING:

- SUBARU WRX MY06-07 ELITE 2500 PLUG 'N' PLAY ADAPTOR HARNESS (HT-141320)
- ELITE SERIES PLUG 'N' PLAY ADAPTER HARNESS (HT-130201)
- INTAKE AIR TEMPERATURE SENSOR (HT-010200)



Application Notes

THIS SUBARU WRX MY06-07 ELITE 2500 PLUG 'N' PLAY ADAPTOR HARNESS IS SUITABLE FOR USE ONLY WITH A HALTECH **ELITE SERIES** ECU.
ENSURE THAT THE CORRECT BASEMAP IS LOADED BEFORE STARTING THE VEHICLE.

THE BASEMAP IS ONLY FOR USE AS A STARTING POINT AND THE ECU WILL REQUIRE APPROPRIATE TUNING.

HALTECH WILL NOT BE HELD RESPONSIBLE FOR ENGINE DAMAGE DUE TO THE IMPROPER USE OF BASEMAPS.

THE 16 PIN AUXILIARY CONNECTOR PROVIDES A NUMBER OF ADDITIONAL INPUT/OUTPUT LINKS TO THE HALTECH ELITE ECU.

THIS KIT IS SUPPLIED WITH SPARE PINS FOR USE WITH THE 16 PIN AUXILIARY CONNECTOR.

AN APPROPRIATE CRIMPING TOOL IS RECOMMENDED TO USE THE 16 PIN AUXILIARY CONNECTOR.

A CRIMPING TOOL KIT (PART # HT-070300) CAN BE PURCHASED AT STORE.HALTECH.COM

AFTER THE INSTALLATION OF THIS KIT, THE FACTORY ECU PROTECTIVE PANEL MAY BE USED AS PER NORMAL.

THE PHOTO BELOW GIVES A GUIDE ON HOW THE HALTECH PRODUCTS SHOULD BE INSTALLED SO THAT THIS PROTECTIVE PANEL CAN BE USED.

ECU Location

THE FACTORY SUBARU WRX MY06-07 ECU IS LOCATED UNDER THE PASSENGER SIDE FOOT WELL.
IT CAN BE ACCESSED BY LIFTING THE CARPET AND REMOVING THE PANEL IN PLACE.



Elite 2500 Basemaps

MAKE	MODEL	CODE	ENGINE	BASEMAP
SUBARU	WRX	MY06-07	EJ25	Subaru MY06-07 EJ25.e2500
SUBARU	WRX STI	MY07	EJ25	Subaru WRX MY06-07 EJ25.e2500

Auxiliary Connector

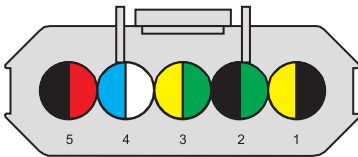


AUXILIARY CONNECTOR (16 PIN)
REAR VIEW (WIRE SIDE)

Position (16 Pin Plug)	Connection	Function	Notes
1	From Haltech ECU (A9)	+5V	+5V Supply for Input Sensors (50mA Max)
2	From Subaru Harness (B135-24)	Additional I/O	Set/Coast Switch
3	-	Not Used	Not Used
4	From Haltech ECU (B14, B15, B16)	SIGNAL GROUND	Signal Ground For Input Sensors
5	From Haltech ECU (B17)	IGN 7	Secondday Air Valve Relays (1, 2)
6	From Haltech ECU (B18)	IGN 8	Secondary Air Pump Relay
7	From Haltech ECU (B8)	SPI 1	Spare SPI (Optional Flex Fuel Input)
8	From Haltech ECU (A26)	+12V (INJ)	+12V Supply for Relays and Solenoids (500mA Max)
9	From Haltech ECU (A9)	+5V	+5V Supply for Input Sensors (50mA Max)
10	From Subaru Harness (B135-10)	Additional I/O	Fuel Level Sensor
11	-	Not Used	Not Used
12	From Haltech ECU (B14, B15, B16)	SIGNAL GROUND	Signal Ground For Input Sensors
13	From Haltech ECU (A29)	INJ 7	VTC Solenoid Left Bank
14	From Haltech ECU (A30)	INJ 8	VTC Solenoid Right Bank
15	From Subaru Harness (B136-32)	Additional I/O	Starter Switch (MY07 Only)
16	From Haltech ECU (A26)	+12V (INJ)	+12V Supply for Relays and Solenoids (500mA Max)

ADDITIONAL I/O CONNECTIONS ARE AVAILABLE FOR USE IF DESIRED BUT AN I/O EXPANDER 12 BOX MAY BE REQUIRED TO UTILIZE THEM.

MAF/Air Temp Sensor

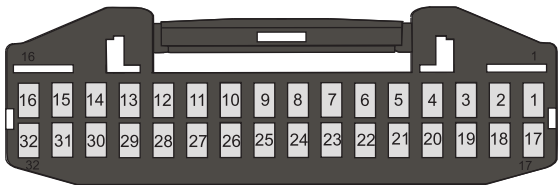


REAR VIEW (WIRE SIDE)
DENSO 197400 - 2090

PIN	COLOUR	FUNCTION
1	YELLOW/BLACK	+12V
2	BLACK/GREEN	Signal Ground
3	YELLOW/GREEN	Mass Air Flow Signal
4	BLUE/WHITE	Air Temperature Signal
5	BLACK/RED	Chassis Ground

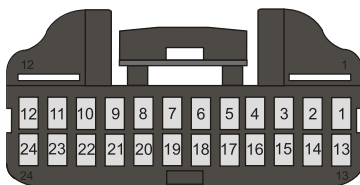
IF THE FACTORY **MAF** SENSOR IS REMOVED, AN **INTAKE AIR TEMPERATURE (IAT)** INPUT CAN BE INSTALLED BY UTILISING PINS 2 (**SIGNAL GROUND**) AND 4 (**AVI 10**) OF THE FACTORY MAF SENSOR CONNECTOR. PIN 2 (**SIGNAL GROUND**), PIN 3 (**AVI 10**) AND PIN 4 (**AVI 7**) OF THE FACTORY **MAF** CONNECTOR MAY ALSO BE USED AS **SPARE AVI** IF REQUIRED.

Main Connectors



CONNECTOR (32 PIN)
REAR VIEW (WIRE SIDE)

Position (32 Pin Plug)	ECU Connector (34 Pin Plug)	Function	Description
1	A1	DPO 2	Fuel Pressure Control
2	A2	AVI 4	APP 1
3	A3	IGN 1	Ignition Output 1
4	A4	IGN 2	Ignition Output 2
5	A5	IGN 3	Ignition Output 3
6	A6	IGN 4	Ignition Output 4
7	A7	IGN 5	TGV Open
8	A8	IGN 6	Boost Control
9	A9	+5V	5V Sensors
10	A10	BATTERY GROUND	Battery Negative
11	A11	BATTERY GROUND	Battery Negative
12	A12	+8V	8V Sensors
13	A13	IGNITION INPUT	Ignition Switch
14	A14	AVI 10 (TPS)	Mass Air Flow 1 Sensor
15	A15	AVI 9 (MAP)	Manifold Pressure Sensor
16	A16	AVI 2	Throttle Position Sensor 1
17	A17	AVI 3	Throttle Position Sensor 2
18	A18	DPO 1	Tachometer
19	A19	INJ 1	Injection Output 1
20	A20	INJ 2	Injection Output 2
21	A21	INJ 3	Injection Output 3
22	A22	INJ 4	Injection Output 4
23	A23	DPO 3	A/C Clutch
24	A24	DPO 5 (FP)	Fuel Pump Relay
25	A25	DPO 6 (ECR)	Engine Control Relay Output
26	A26	+12V (INJ)	Fused Power
27	A27	INJ 5	Thermofan 1
28	A28	INJ 6	Thermofan 2
29	A31	STEP1 P1	Pressure Control Valve
30	A32	STEP2 P2	Cruise Light
31	A33	STEP3 P3	EVAP Purge
32	A34	STEP4 P4	Purge 1



CONNECTOR (24 PIN)
REAR VIEW (WIRE SIDE)

Position (24 Pin Plug)	ECU Connector (26 Pin Plug)	Function	Description
1	B1	TRIGGER	Crankshaft Sensor (+)
2	B2	HOME	Cam Position Sensor
3	B3	AVI 7 (ATS)	Air Temperature Sensor
4	B4	AVI 8 (CTS)	Coolant Temperature Sensor
5	B5	TRIGGER -	Crankshaft Sensor (-)
6	B6	HOME -	Not Used
7	B7	SPI 4	A/C Request
8	B8	SPI 1	Spare SPI (Flex Fuel Input)
9	B9	SPI 2	Cam Control - Intake Angle 2
10	B10	SPI 3	Vehicle Speed Sensor
11	B11	+12V (ECU)	Fused Power
12	B12	AVI 6 (O2_1)	Brake Pedal Switch
13	B13	AVI 1 (O2_2)	Clutch Switch
14	B14	SIGNAL GROUND	0V Sensors
15	B15	SIGNAL GROUND	0V Sensors
16	B16	SIGNAL GROUND	0V Sensors
17	B23	CAN HIGH	CAN High (Vehicle Bus)
18	B24	CAN LOW	CAN Low (Vehicle Bus)
19	B19	DPO 4	Check Engine Light
20	B20	AVI 5	APP 2
21	B21	KNOCK 1	Knock Sensor Signal
22	B22	KNOCK 2	Not Used
23	B25	DBW 1	Drive By Wire Motor
24	B26	DBW 2	Drive By Wire Motor

Notes

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