

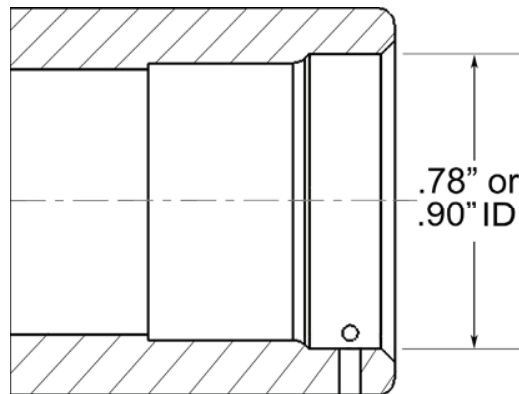
## PORT FITTINGS & HARDWARE

### ACCESSORIES



### PORT FITTINGS & HARDWARE

IMPCO uses several types of fittings with O-ring seals designed to fit into one of two port sizes. To determine the diameter of the fitting refer to the illustration below:



*Port Cross Section*

Assembly	Description	Fits .78" Port		Illustration
		Hose ID		
AF4-30613	Cap	N/A		
AF4-30614	70° Angle	5/8"		
AF4-50733-001	90° Angle	5/8"		

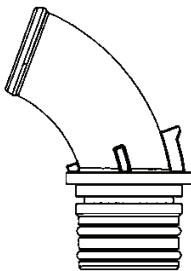
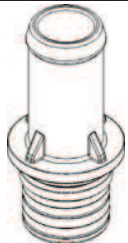
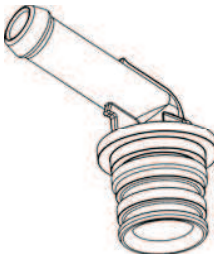
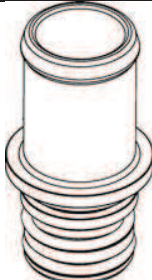
All fittings listed above include O-rings



## PORT FITTINGS & HARDWARE

### ACCESSORIES

#### PORT FITTINGS & HARDWARE

Fits .78" Port			
Assembly	Description	Hose ID	Illustration
AF4-50430-001	Swept 70°	3/4"	
AF4-30615	Straight	5/8"	
AF4-30614-002	70° Angle	10mm	
AF4-50045-001	Straight	3/4"	

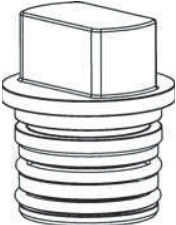
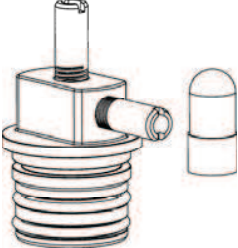
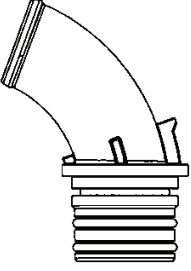
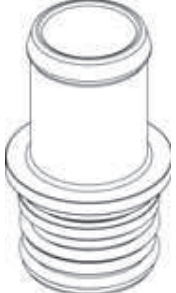
All fittings listed above include O-rings

## PORT FITTINGS & HARDWARE

### ACCESSORIES



### PORT FITTINGS & HARDWARE

Assembly	Description	Fits .90" Port	
		Hose ID	Illustration
AF4-50254-001	Plug	N/A	
AF4-50254-002	Test Cap (For Inter- mittent Pressure Testing On- ly)	1/4"	
AF4-50044-001	Swept 70°	3/4"	
AF4-31193-001	Straight	3/4"	

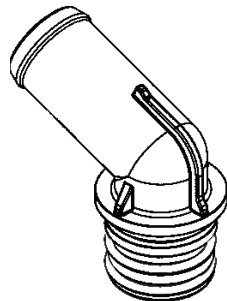
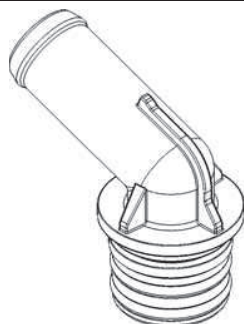
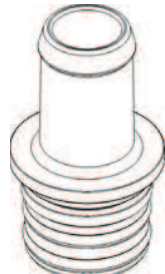
All fittings listed above include O-rings



## PORT FITTINGS & HARDWARE

### ACCESSORIES

#### PORT FITTINGS & HARDWARE

Fits .90" Port			
Assembly	Description	Hose ID	Illustration
AF4-31197-001	70° Angle	3/4"	
AF4-31259-001	70° Angle	5/8"	
AF4-31260-001	Straight	5/8"	

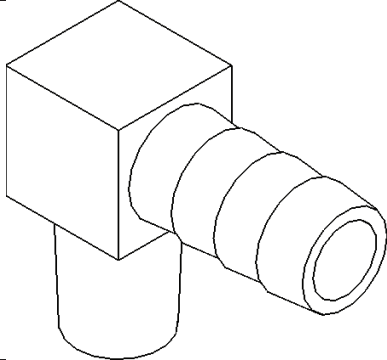
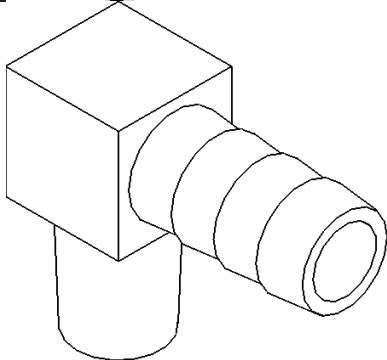

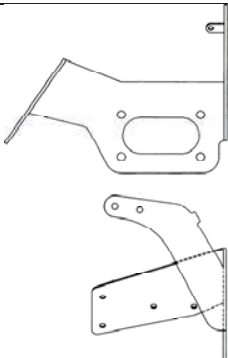
All fittings listed above include O-rings

## PORT FITTINGS & HARDWARE

### ACCESSORIES



### PORT FITTINGS & HARDWARE

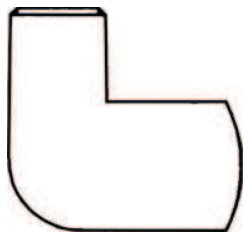
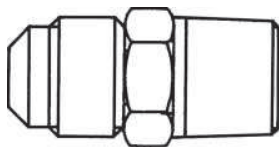
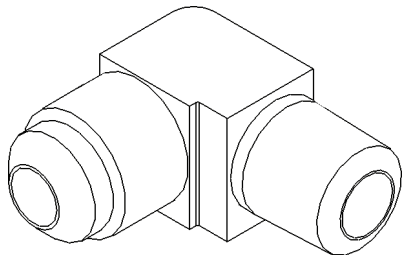
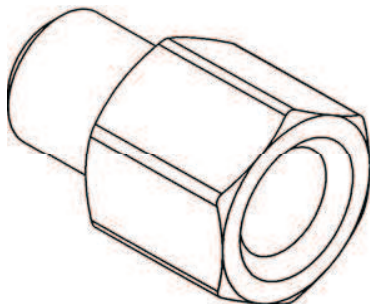
Assembly	Description	Dimensions	Illustration
401-2	90 Elbow Brass	1/8" NPT 3/8" Hose	
401-4	90 Elbow Brass	1/4" NPT 3/8" Hose	
417-03	Elbow, brass, 90 degree	3/8" NPT Male/Female	
B4-25647	Bracket	4.3L GM Engine	



## PORT FITTINGS & HARDWARE

### ACCESSORIES

#### PORT FITTINGS & HARDWARE

Assembly	Description	Dimensions	Illustration
F4-14184-002	Elbow, brass, 90 degree	1/4" NPT Male/Female	
F4-14220	Fitting, Flare, brass #6 SAE 3/8"	1/4" NPT 3/8"	
F4-25	Fitting, 90 degree Elbow #6 SAE	1/4" NPT 3/8" Flare	
F4-30953-001	Fitting, Adapter, Brass	1/4" NPT	

## PORT FITTINGS & HARDWARE

### ACCESSORIES

#### PORT FITTINGS & HARDWARE

Assembly	Description	Dimensions	Illustration
2F-137	Fitting, Brass	See Illustration	
2F-158P	Fitting, Brass	See Illustration	
C2-30500-002	Cap, Vacuum 3/6"		
181-09	Fitting, Idle		
F4-18	Fitting, straight	3/8 NPT 5/8 Nip Nylon	

# SPECTRUM SERIES II

## (2004-2006)



### CAUTION

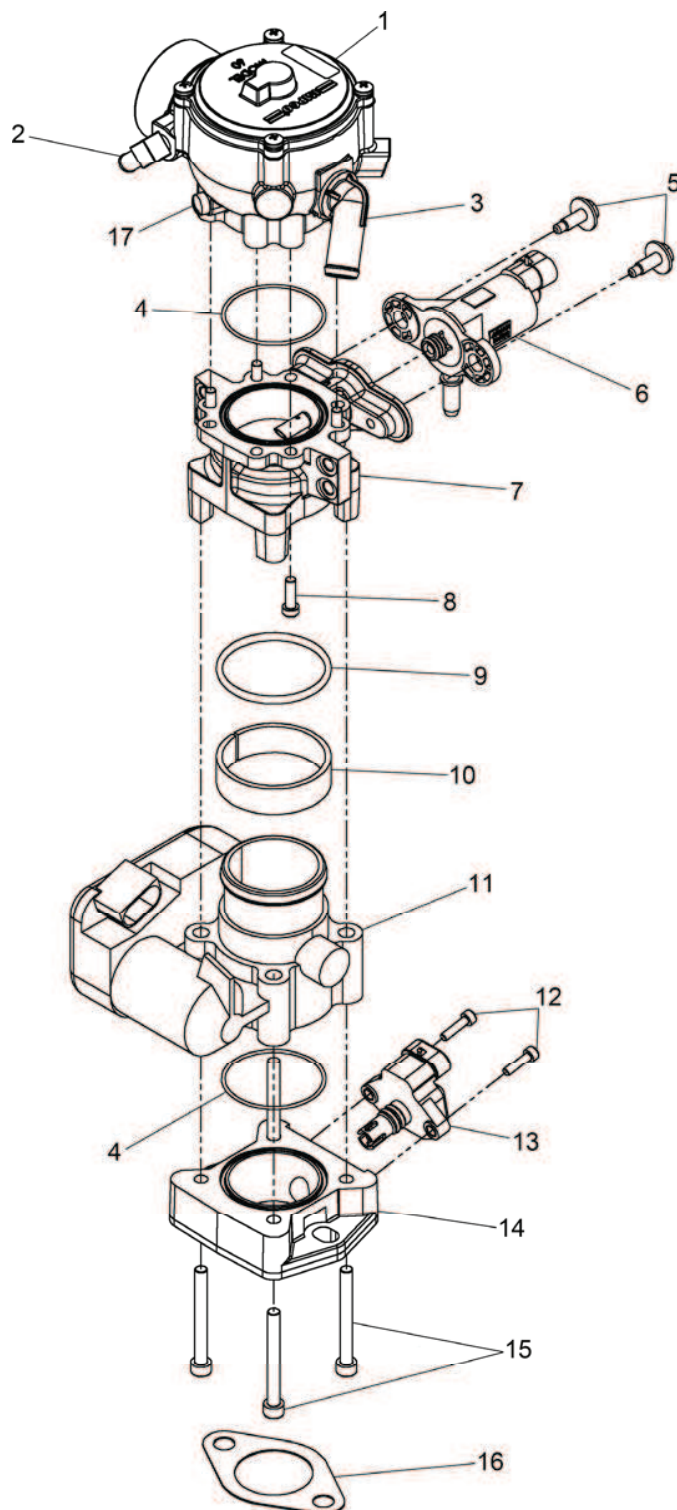
IMPCO technologies offers factory replacement fuel system components for the Spectrum Series II certified engine systems. These components are only available through authorized IMPCO distributors.

Factory service manuals, repair procedures, and TSBs must be acquired and used through the OEM parts network. IMPCO Technologies, Inc. is not able to supply these materials.

All ECMs are sold as unprogrammed generic hardware modules. The service technician must flash the appropriate .mot file before the ECM can be used in the application. IMPCO Technologies, Inc. does not supply the .mot files. These files must be acquired through the OEM service network. Service technicians must be factory authorized to access these files. If you are not able to access these files through your OEM network, you must purchase a pre-programmed ECM through your authorized OEM parts supplier. To receive Spectrum Series III training please visit our website at [www.impcotechnologies.com](http://www.impcotechnologies.com).



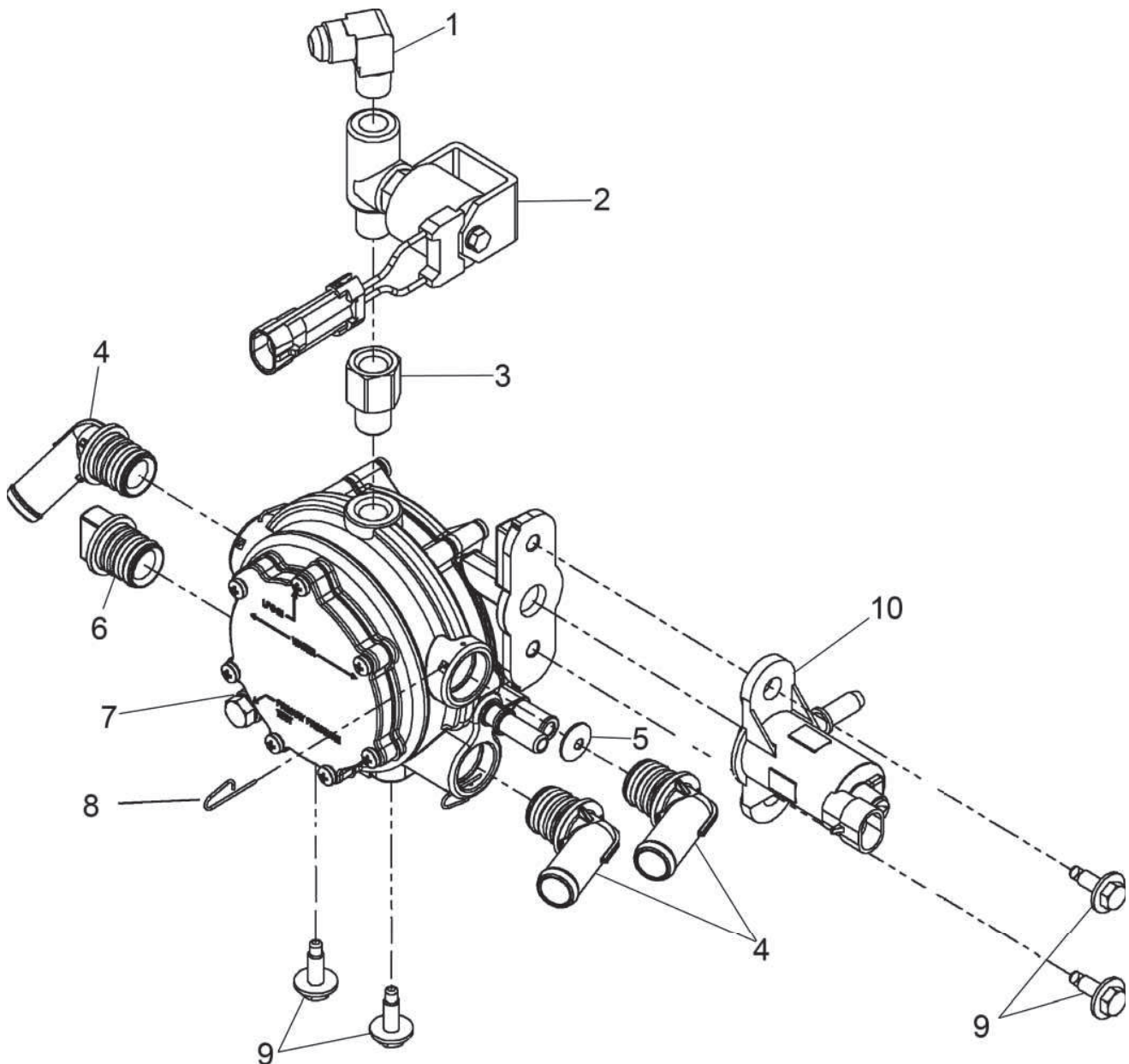
LPG MIXER AND THROTTLE BODY ASSEMBLY



**LPG MIXER AND THROTTLE BODY ASSEMBLY**

Item Number	Description	Qty.	IMPCO Part Number
1	Assembly, Mixer FT 60	1	FT60M-30741-52-001
2	Fitting, 90 Degree	1	F4-12
3	Fitting, 70 D	1	AF4-30614
4	O-ring, Hydrogenated Nitrile	2	S3-1524-003
5	Bolts, FTV Mounting	2	S1-30283-0620
6	Valve, Fuel Trim	1	V3-30270-277
7	Adapter, Assy. FTV	1	AA3-30952-001
8	Screw, Adpt to Mixer	4	S1-30295-0516
9	O-ring, FTV to Throttle Control	1	S3-1524-004
10	Sleeve, Plastic	1	S6-30976-001
11	Control, Throttle Bosch	1	E1312100
12	Screw, TMAP	2	S1-30295-0416
13	Sensor, TMAP	1	S8-30862-001
14	Adapter, Throttle to Manifold	1	A3-30875-001
15	Bolts, Throttle Body to Adapter	2	S1-30295-0655
16	Gasket, Adapter to Manifold	1	G1-18
17	Screw, Mixer	1	S1-69
Not Shown	Fitting, ¼ Vac Nipple	1	F4-2
Not Shown	Pin, Retainer Fitting	1	P1-30559
Not Shown	Plug, Mixer	1	P3-16699-001

**LPG REGULATOR ASSEMBLY (HHI)**





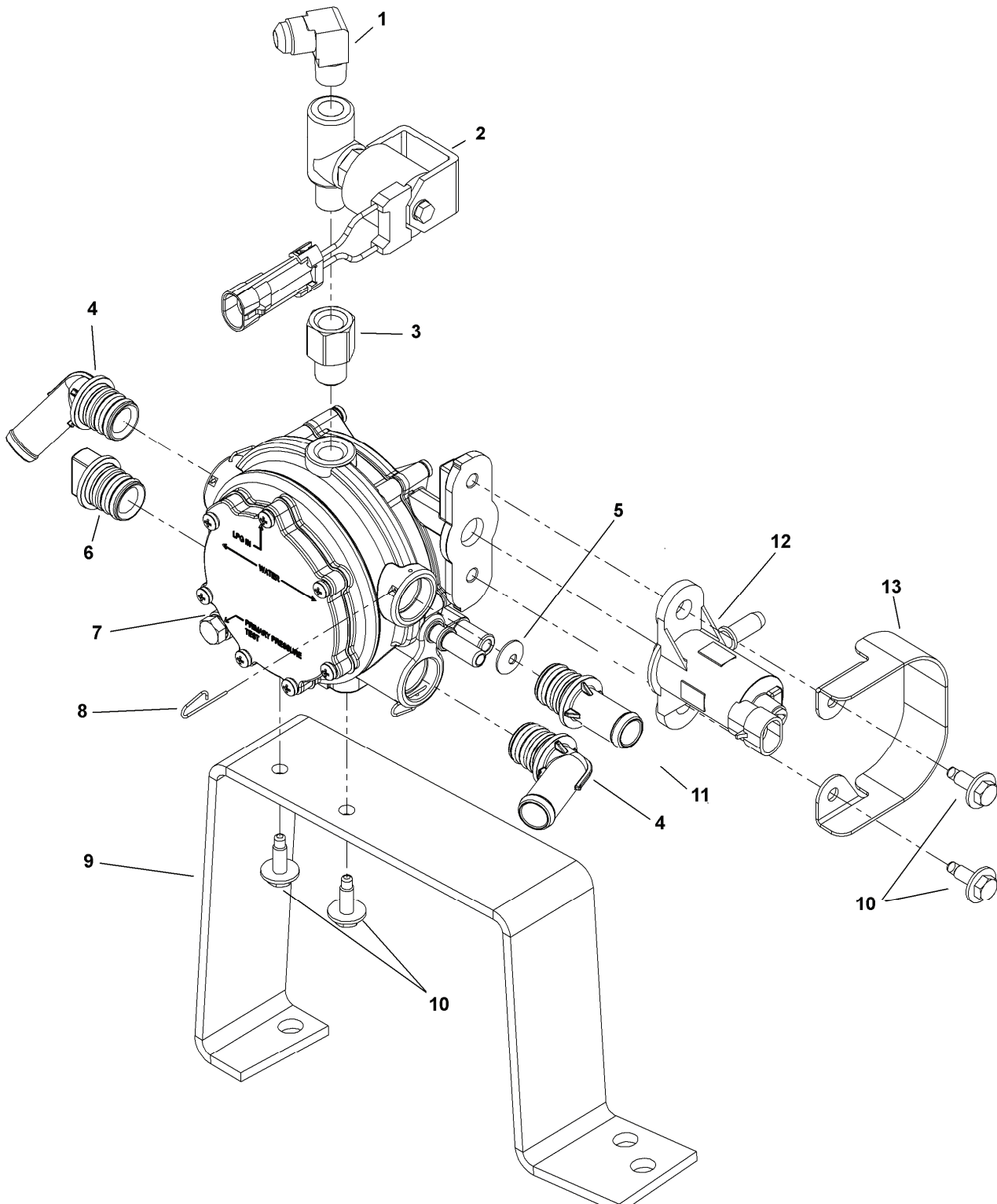
2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II

### LPG REGULATOR ASSEMBLY (HHI)

Item Number	Description	Qty.	IMPCO Part Number
1	Fitting, 90 Degree Elbow	1	F4-25
2	Valve, Lock off Assy	1	ET98-30515-001
3	Fitting, Adapter ¼ NPT	1	F4-30953-001
4	Fitting, 70 Degree	3	AF4-30614
5	Jet, Coolant Restrictor	1	J1-30872-047
6	Fitting, Cap	1	AF4-30613
7	Regulator, Low Pressure	1	CS4-30772-004
8	Pin, Fitting Retainer	4	P1-30559
9	Bolt, Regulator,PTV Mnt	4	S1-30283-0620
10	Valve, Pressure Trim	1	V3-30270-277

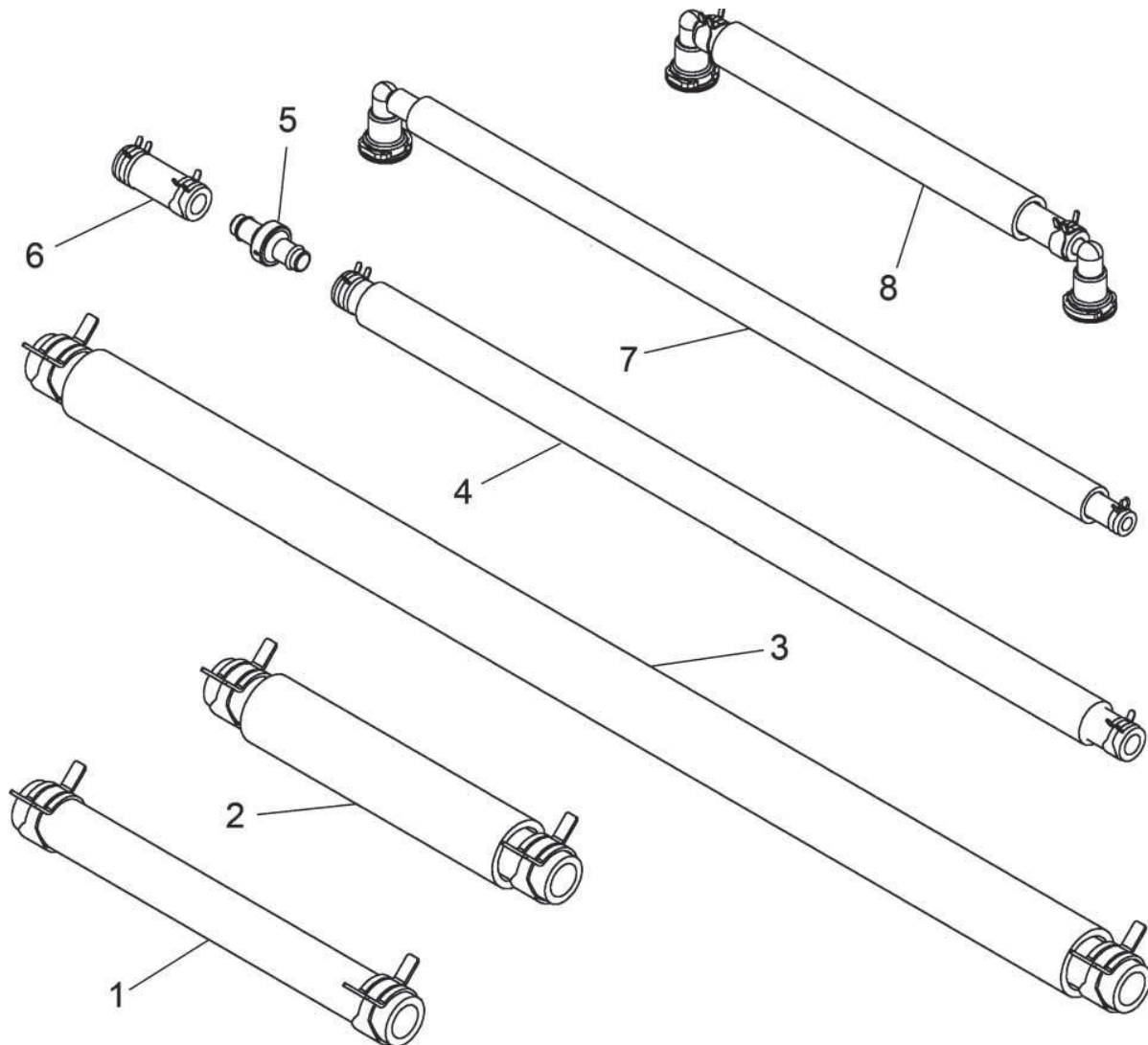
**LPG REGULATOR ASSEMBLY (MCFA)**



**LPG REGULATOR ASSEMBLY (MCFA)**

Item #	Description	Qty.	IMPCO Part Number
1	Fitting, 90 Degree Elbow	1	F4-25
2	Valve, Lock off Assy	1	ET98-30515-001
3	Fitting, Adapter ¼ NPT	1	F4-30953-001
4	Fitting, 70 Degree	2	AF4-30614
5	Jet, Coolant Restrictor	1	J1-30872-047
6	Fitting, Cap	1	AF4-30613
7	Regulator, Low Pressure	1	CS4-30772-004
8	Pin, Fitting Retainer	4	P1-30559
9	Bracket, Regulator Mnt	1	B4-30991-001
10	Bolt, Regulator,PTV Mnt	4	S1-30283-0620
11	Fitting, Straight	1	AF4-30615
12	Valve, Pressure Trim	1	V3-30270-277
13	Guard, PTV	1	G4-30894-001

## HOSES





2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

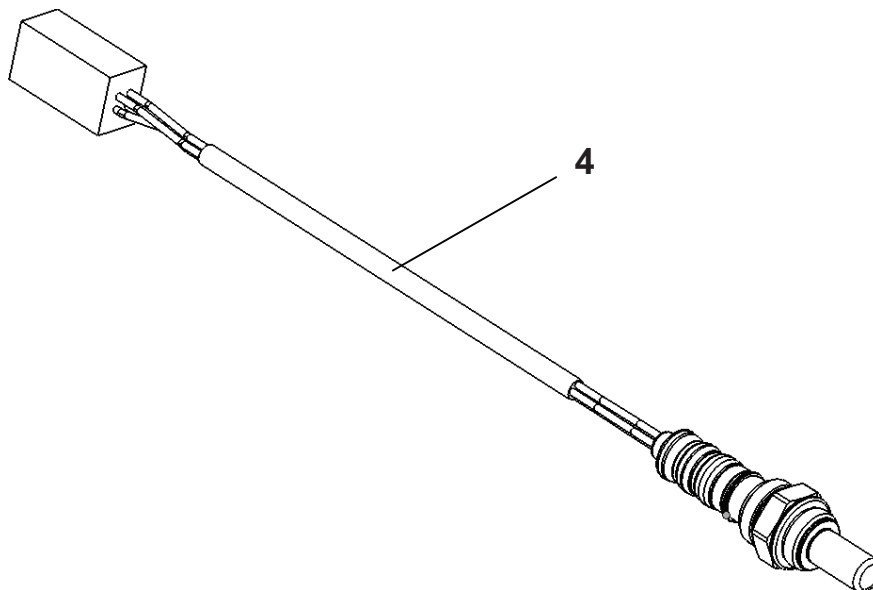
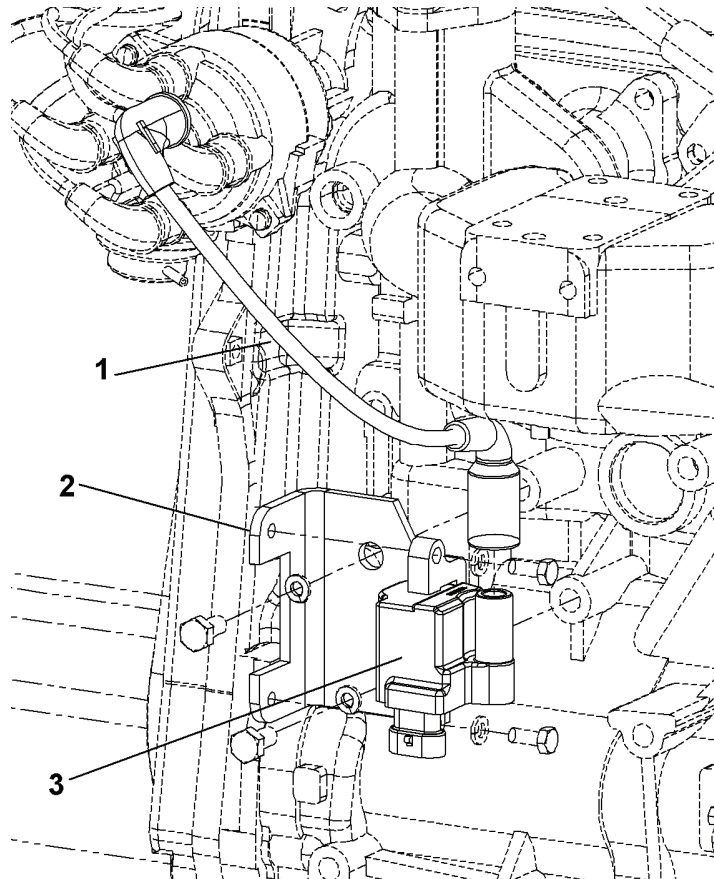
SPECTRUM II

## HOSES

Item Number	Description	Qty.	IMPCO Part Number
1	Assy, Hse Reg to Manif	1	AH1-30853-009
2	Assembly, Dry Gas Supply	1	AH1-30853-015
3	Assy, Hse Reg to W/Pmp	1	AH1-30853-006
4	Assy, Bal Hse Chck to Reg	1	AH1-30853-013
5	Valve, Check	1	V3-30958
6	Assy, Bal Hse Chck to Mix	1	AH1-30853-004
7	Assembly, Hose PTV	1	AH1-30852-010
8	Assembly, Hose FTV	1	AH1-30852-005



## IGNITION COIL & HEGO





2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II

### IGNITION COIL & HEGO

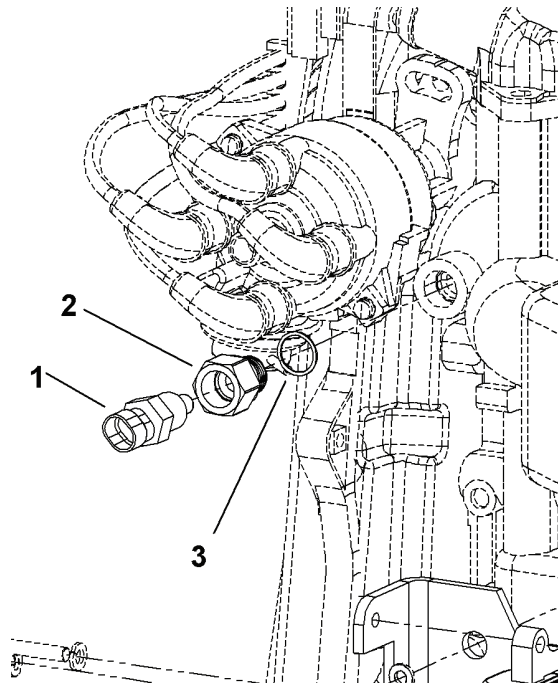
Item #	Description	Qty.	Part Number
1	Wire, Ignition Coil	1	7245160
2	Bracket, Ignition Coil	1	7245130
3	Coil, Ignition	1	7245140
4	HEGO, Pre-Catalyst	1	7176400

2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II



## ENGINE COOLANT TEMPERATURE SENSOR (ECT)





2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II

**ENGINE COOLANT TEMPERATURE SENSOR (ECT)**

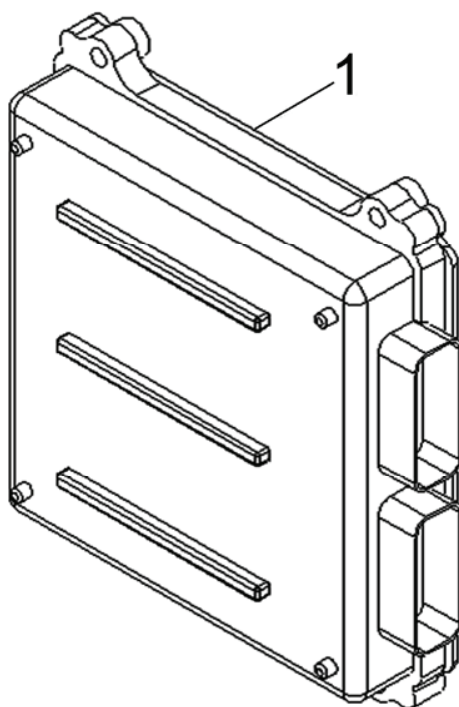
Item Number	Description	Qty.	IMPCO Part Number
1	Sensor, Engine Temp	1	7144790
2	Adapter, ECT	1	F4-31076-001
3	Seal, Copper Face	1	S3-30887-002

2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II



## ENGINE CONTROL UNIT





2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II

### ENGINE CONTROL UNIT

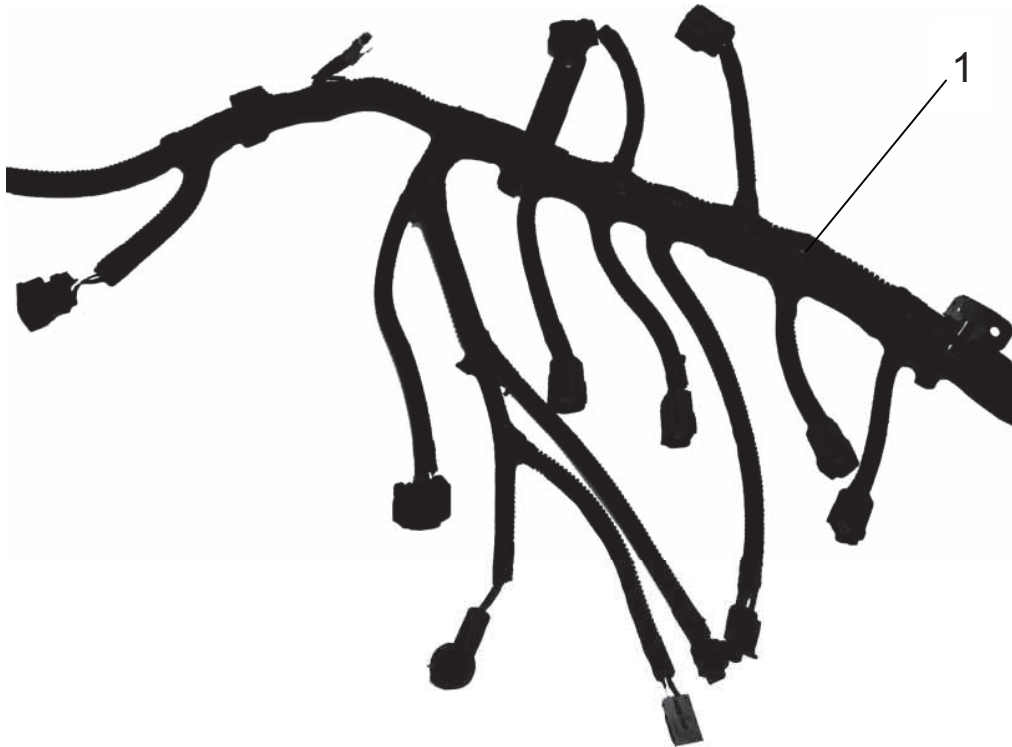
Item #	Description	Qty.	Part Number
1	Module, Engine Control (Blank w/o Calibration)	1	E1341002

2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II



## WIRE HARNESS ENGINE ELECTRICAL





2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

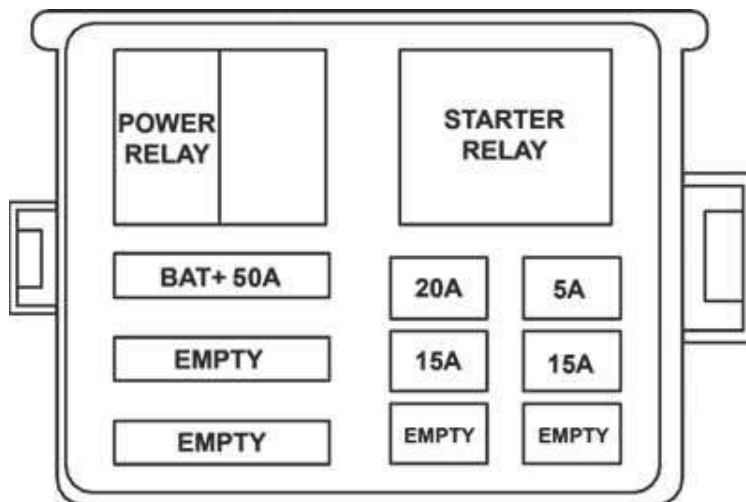
SPECTRUM II

### WIRE HARNESS ENGINE ELECTRICAL

Item #	Description	Qty.	Part Number
1	Harness, Engine Electrical DBW	1	E1503000

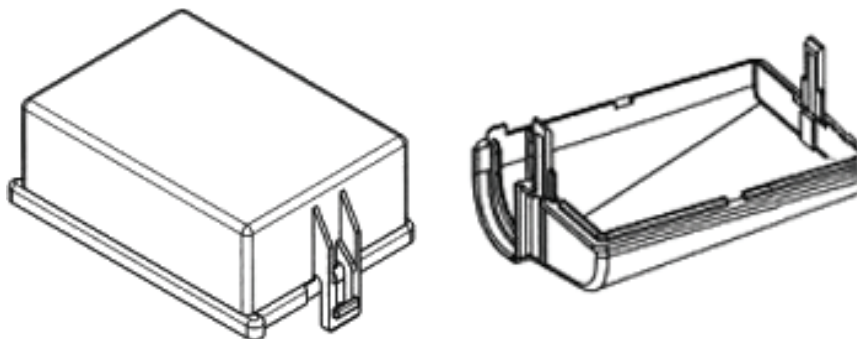


## WIRE HARNESSES/ENGINE ELECTRICAL/FUSE BOX



*Layout may vary depending on application*

### Fuse Box Covers





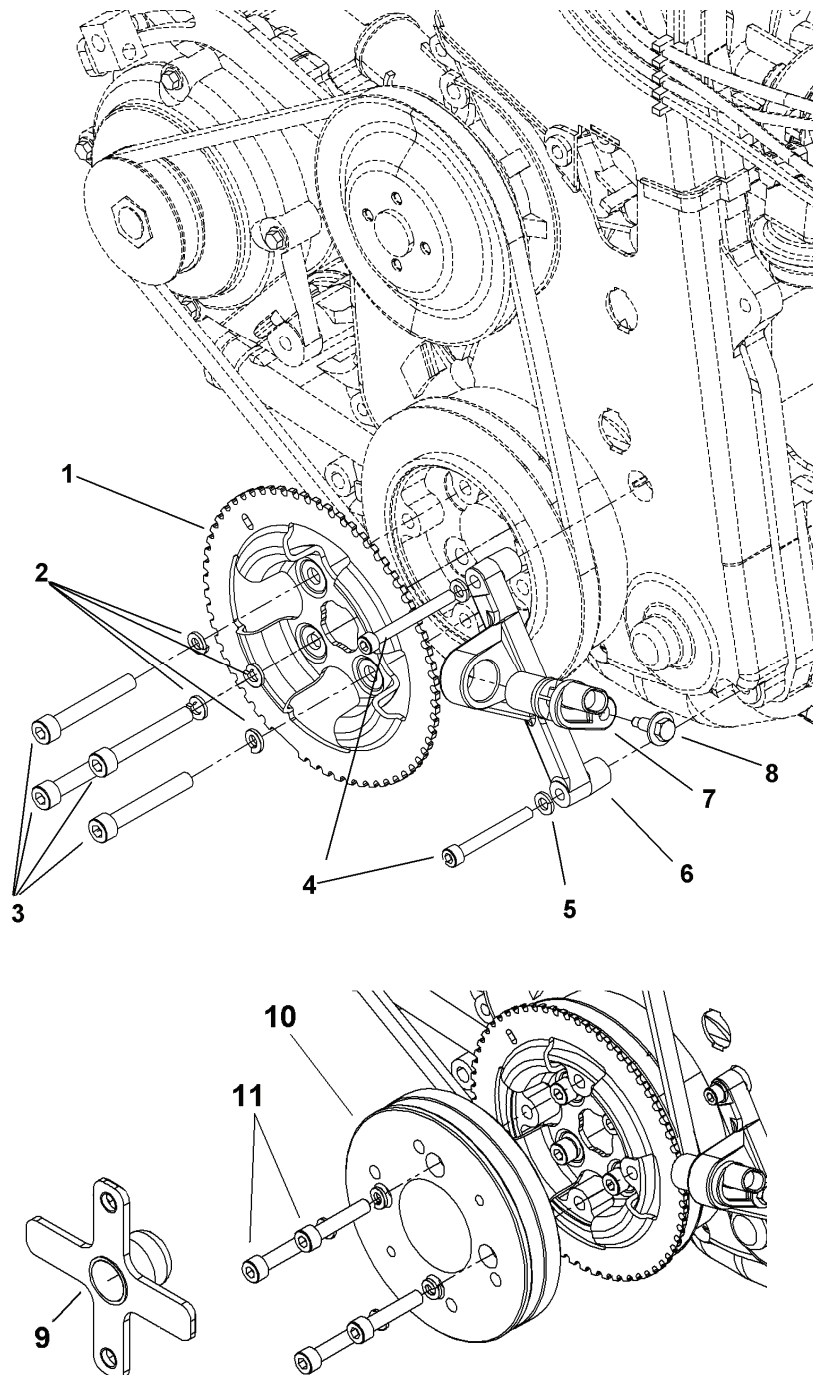
2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II

## WIRE HARNESSSES/ENGINE ELECTRICAL/FUSE BOX

Item #	Description	Qty	IMPCO Part Number
Power Relay	Power Relay	1	7381400
Starter Relay	Starter Relay	1	7381290
Alternator 50A Fuse	50A Maxi Fuse	1	7381280
5A Fuse	5A Minifuse	1	7380660
15A Fuse	15A Minifuse	1	7381220
20A Fuse	20A Minifuse	1	7381270
	Fuse Box Cover (Top) w/Label	1	E-6131-1
	Fuse Box Cover (Top) w/o Label	1	E-6131
	Fuse Box Cover (Bottom)	1	E-6132

## FRONT TIMING WHEEL ASSEMBLY



### FRONT TIMING WHEEL ASSEMBLY

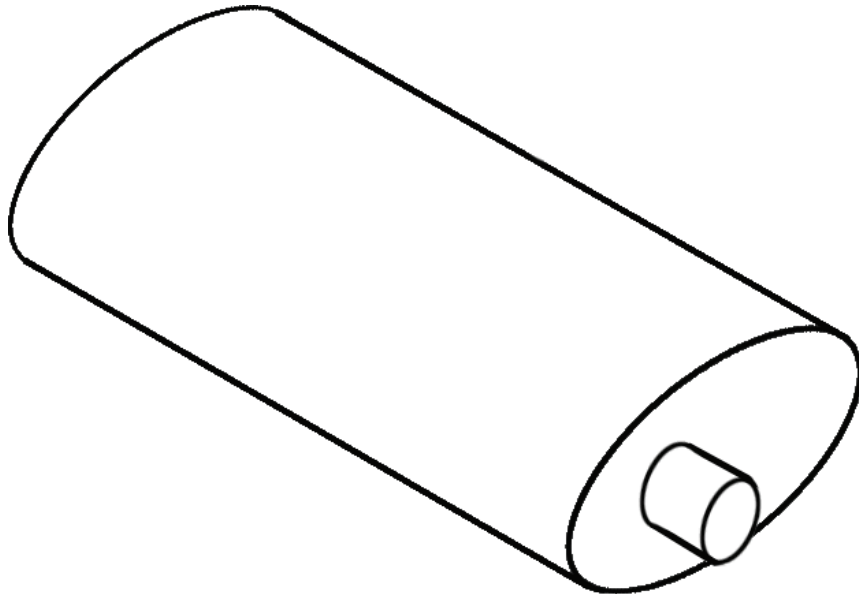
Item Number	Description	Qty.	IMPCO Part Number
1	Wheel, Timing	1	7180500
2	Washer, Split Lock M8	4	W1-31135-008
3	Bolt, Tmg wheel to Pulley	4	S1-30295-0855
4	Bolt, Sensor Bracket	2	S1-30295-0650
5	Washer, Split Lock M6	2	W1-1988-001
6	Bracket Sensor Timing	1	7180510
7	Sensor, Crankshaft	1	7180520
8	Bolt, Crank Sensor	1	S1-30283-0620
9	Tool, install Tmg Whl	1	7180501
10	Pulley, Fan 4G6X HHI	1	7071820
11	Screw, Sck HD	4	S1-30295-0840

2004-5 2.0/2.4L MITSUBISHI ENGINE LPG DBW

SPECTRUM II



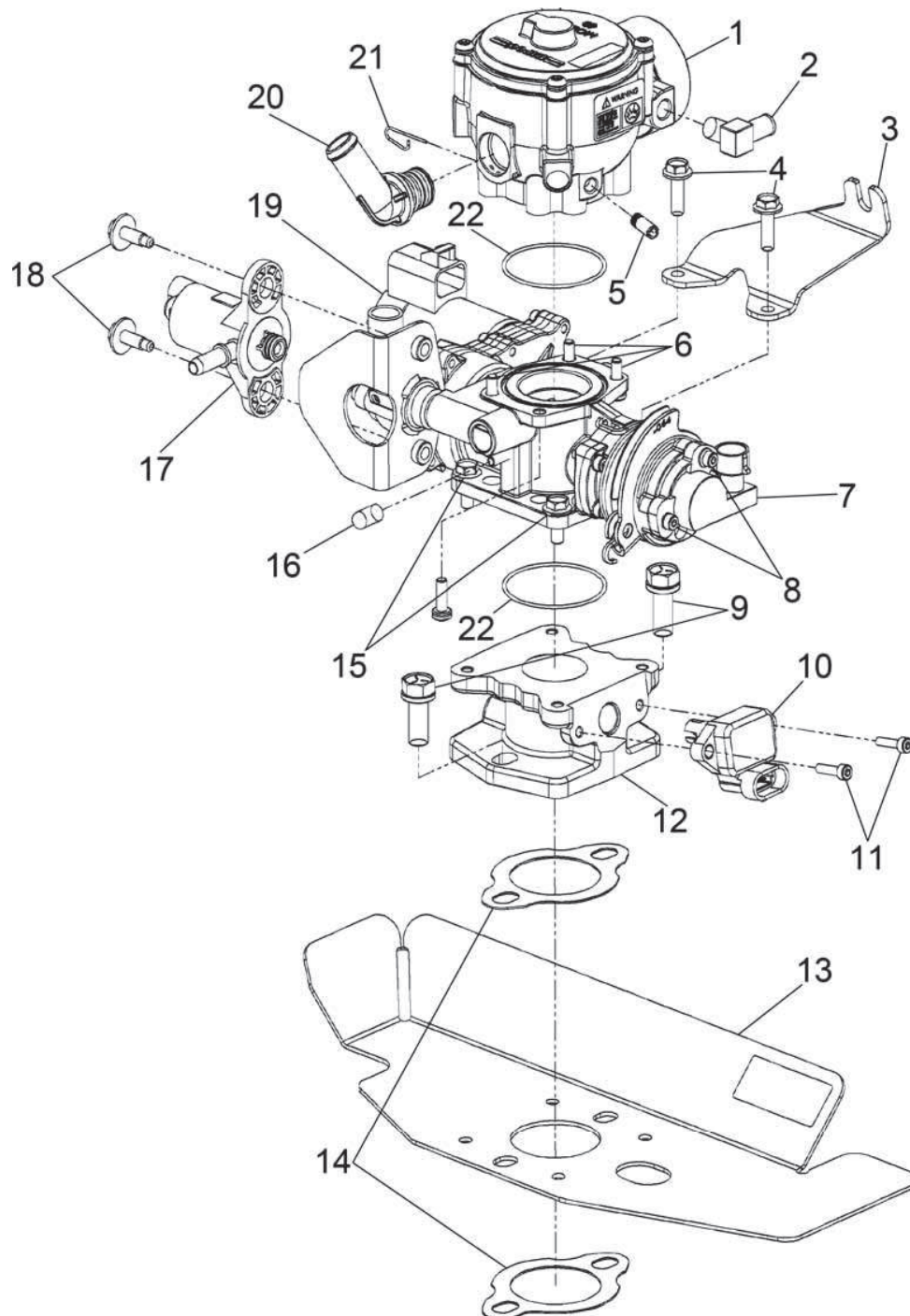
### THREE WAY CATALYTIC MUFFLER



**THREE WAY CATALYTIC MUFFLER**

Description	Application	Qty.	Part Number
Muffler, Three Catalytic LPG	HLFC15-5	1	7332500
Muffler, Three Catalytic LPG	HLF15-5	1	7332510
Muffler, Three Catalytic LPG	HLFC18-5	1	7332500
Muffler, Three Catalytic LPG	HLF18-5	1	7332510
Muffler, Three Catalytic LPG	HLFC20-5	1	7332470
Muffler, Three Catalytic LPG	HLF20-5	1	7332490
Muffler, Three Catalytic LPG	HLFC25-5	1	7332470
Muffler, Three Catalytic LPG	HLF25-5	1	7332490
Muffler, Three Catalytic LPG	HLFC30-5	1	7332470
Muffler, Three Catalytic LPG	HLF30-5	1	7332490
Muffler, Three Catalytic LPG	MMC 2 & 3 Ton	1	7332410
Muffler, Three Catalytic LPG	MMC 1 Ton	1	7332420

**THROTTLE BODY & MIXER**



## THROTTLE BODY & MIXER

Item#	Description	Qty.	Part Number
1	Assembly, Mixer FT 60	1	FT60M-30741-52-002
2	Fitting, 90 Degree	1	F4-12
3	Bracket, Throttle Cable	1	B4-30867-001
4	Bolts, Throttle Body to Adapter	2	S1-30871-02-0616
5	Fitting, Brass Vacuum	1	F4-2
6	Screws, Throttle Body to Mixer Retaining	4	S1-30047-001
7	Sensor, Foot Pedal Position (FPP)	1	S8-30237-001
8	Screw, Retaining FPP	2	S1-30295-0416
9	Bolts, Adapter to Manifold	2	S1-34
10	Sensor TMAP	1	S8-30862-001
11	Screws, TMAP Retaining	2	S1-30295-0416
12	Adapter, Throttle Body to Manifold	1	A3-30323-001
13	Shield, Heat	1	G4-30978-001
14	Gasket, Manifold	2	G1-19
15	Bolts, Throttle Body to Adapter	2	S1-30871-02-0616
16	Cap, Vacuum	1	C2-30500-002
17	Valve, FTV	1	V3-30270-277
18	Bolts FTV Retaining	2	S1-30283-0620
19	Assembly, Throttle Body Drive By Cable	1	ATGC-30312-32-25-64
20	Fitting, Mixer Inlet	1	AF4-30614
21	Pin, Fitting Retaining	1	P1-30559
22	O-ring, Throttle Body	2	S3-1524-003
23	Sensor Throttle Position (TPS)	1	S8-30703

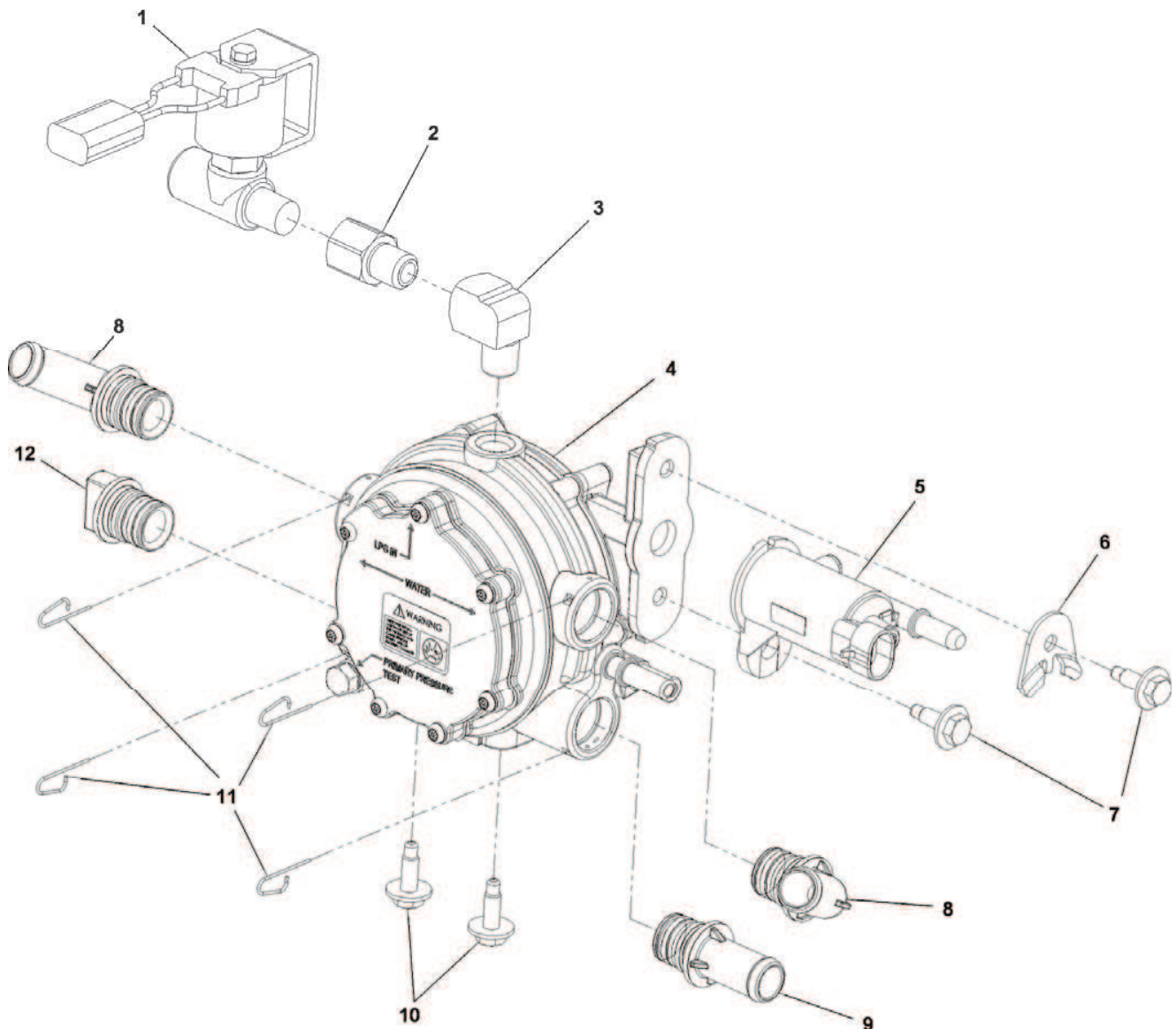


## 3.0L LPG DBC

### SPECTRUM II



## LPG REGULATOR ASSEMBLY



### LPG REGULATOR ASSEMBLY

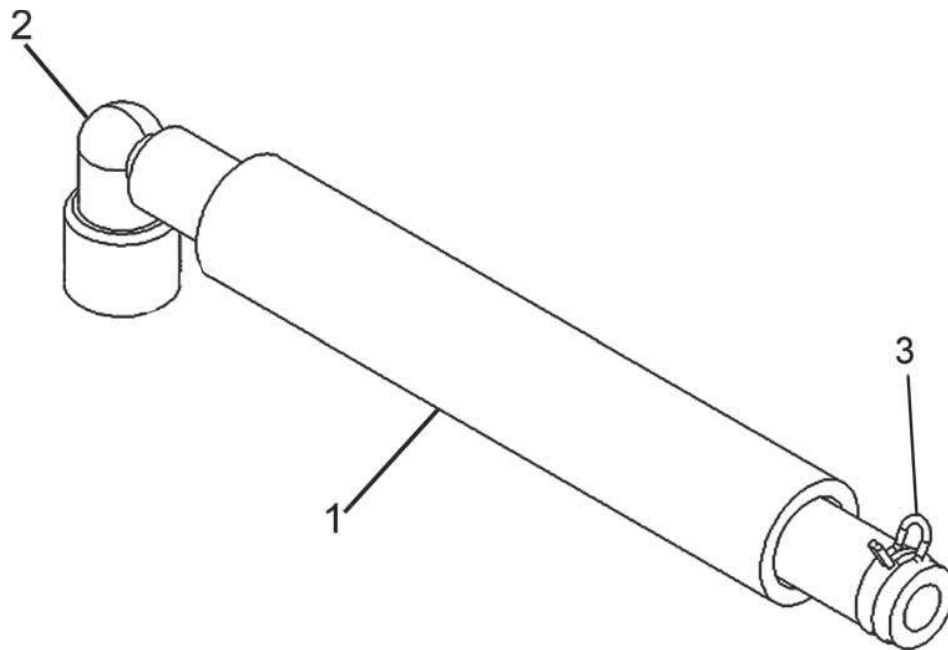
Item #	Description	Qty.	Part Number
1	Assembly Lock Off 12 V	1	ET98-30515-001
2	Fitting Brass Adapter	1	F4-30953-001
3	Fitting 90 Degree Elbow	1	F4-14184-002
4	Assembly Regulator	1	CS4-30772-004
5	Valve, Pressure Trim	1	V3-30272-279
6	Clamp, PTV Retaining	1	C2-30267-001
7	Bolt, PTV Retaining	2	S1-30283-0620
8	Fitting, Coolant	2	AF4-30614
9	Fitting Vapor Outlet	1	AF4-30615
10	Bolts, Mounting	2	S1-30283-0620
11	Pin, Retaining	4	P1-30559
12	Cap, Regulator	1	AF4-30613
13	Jet, Coolant Restrictor	1	J1-30872-047

**3.0L LPG DBC**

**SPECTRUM II**



## PCV HOSE ASSEMBLY





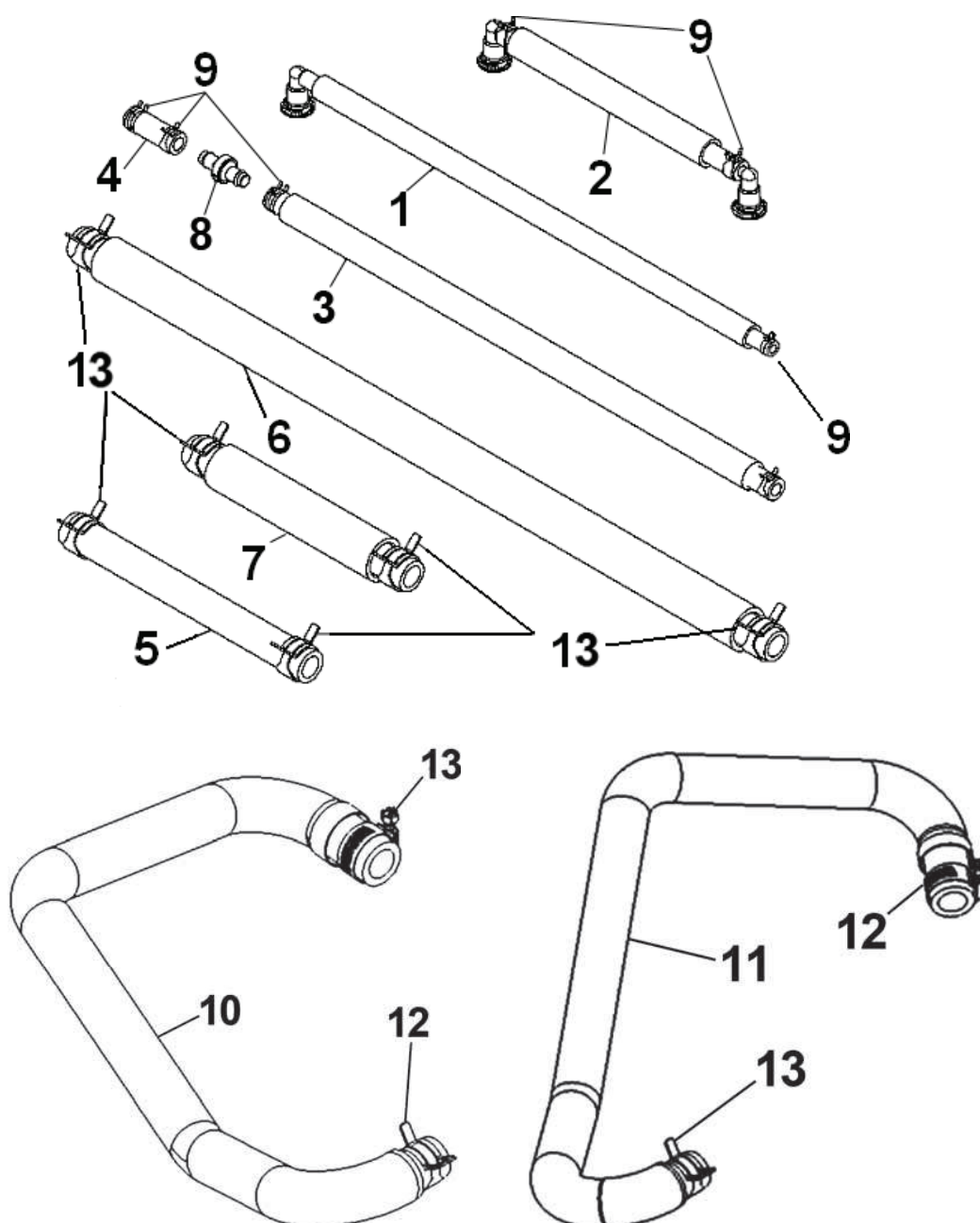
**3.0L LPG DBC**

**SPECTRUM II**

### **PCV HOSE ASSEMBLY**

<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Hose Assembly, PCV	1	AH1-30853-019
2	Valve, PCV	1	V3-30855-774
3	Clamp Hose PCV	1	C2-16664-1

**HOSE ASSEMBLIES  
COOLANT/VACUUM /FUEL/PCV**



**3.0L LPG DBC****SPECTRUM II****HOSE ASSEMBLIES COOLANT/VACUUM/FUEL/PCV**

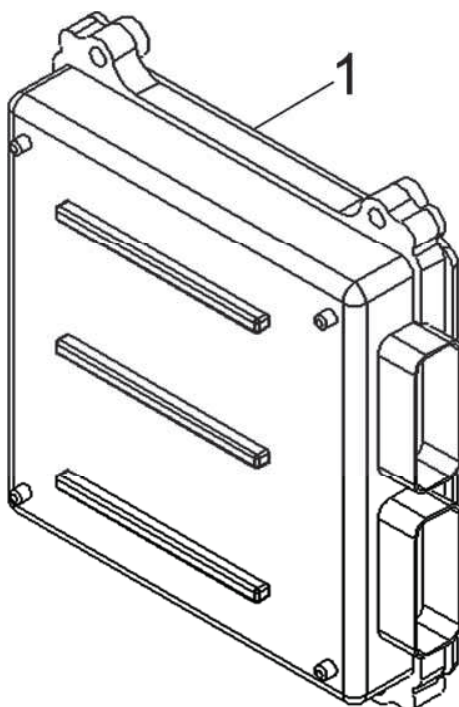
Item#	Description	Qty.	Part Number
1	Assembly, Hose PTV	1	AH1-30852-007
2	Assembly, Hose FTV	1	AH1-30852-001
3	Assembly, Hose Balance line Long	1	AH1-30853-004
4	Assembly, Balance Short	1	AH1-30853-001
5	Assembly, Dry Gas Supply	1	AH1-30853-017
6	Assembly, Hose Coolant 750MM	1	AH1-30853-005
7	Assembly, Hose Coolant 450 MM	1	AH1-30853-008
8	Valve check Balance Line	1	V3-30958
9	Clamp, hose	2	C2-16664-1
10	Assy Hose LPR Return Molded	1	AH1-30884-001
11	Assy, Hose LPG Supply Molded	1	AH1-30885-001
12	Clamp, Hose Worm	1	C2-14106-006
13	Clamp, Hose Pinch	1	C2-16664-2

**3.0L LPG DBC**

**SPECTRUM II**



## **ENGINE CONTROL MODULE**





**3.0L LPG DBC**

**SPECTRUM II**

**ENGINE CONTROL MODULE**

Item#	Description	Qty.	Application	Part Number
1	Module, Engine Control (Blank with no Calibration)	1	LPG Pneu- matic & Cushion	E1341002

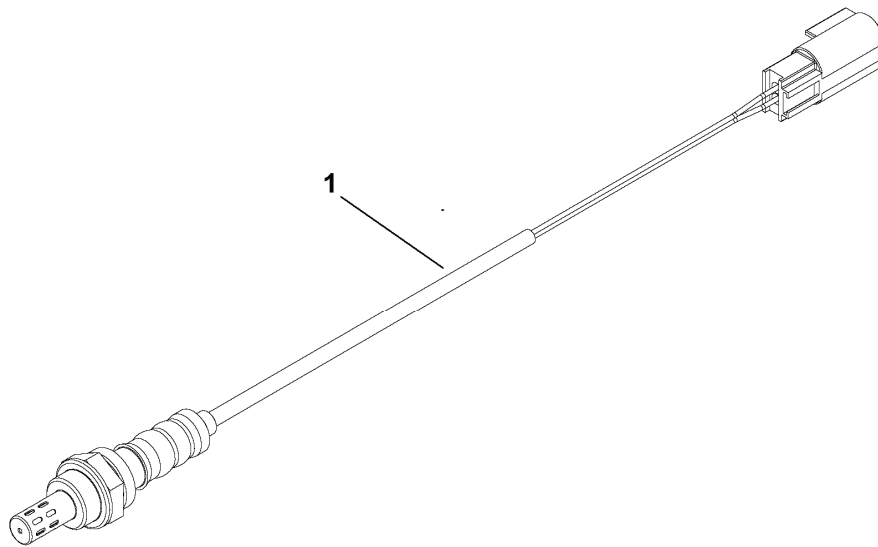


**3.0L LPG DBC**

**SPECTRUM II**



**HEATED EXHAUST GAS OXYGEN SENSOR**





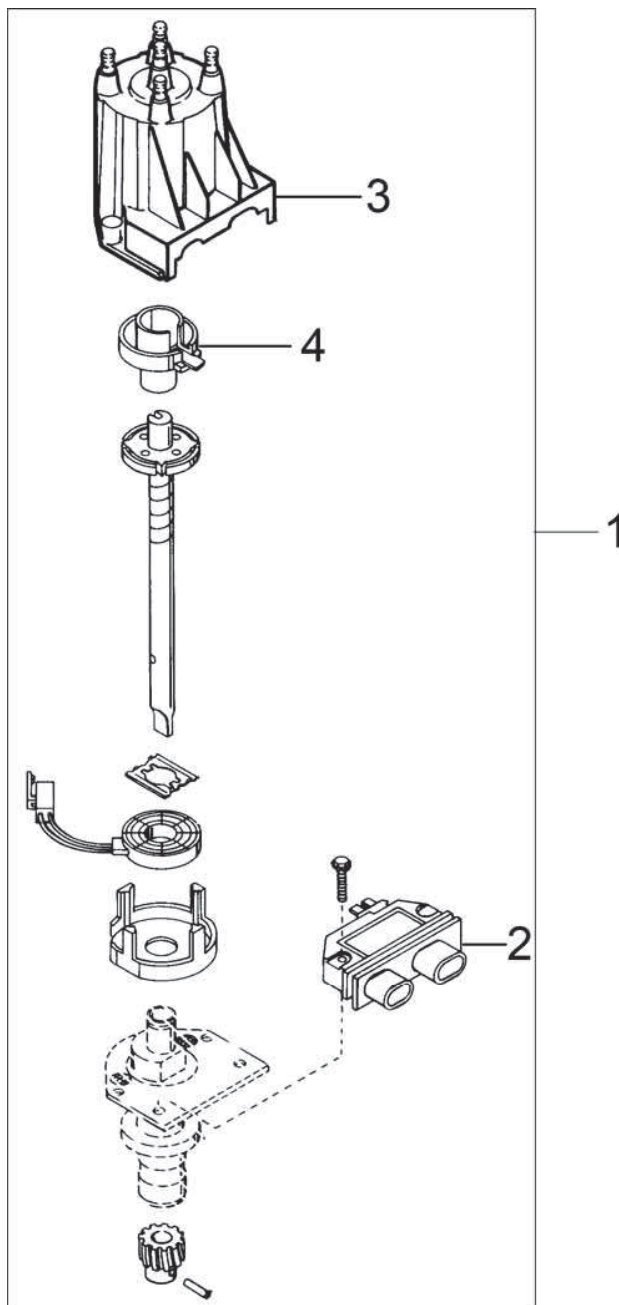
**3.0L LPG DBC**

**SPECTRUM II**

**HEATED EXHAUST GAS OXYGEN SENSOR**

Item#	Description	Qty.	Part Number
1	Sensor, Heated Exhaust Gas Oxygen	1	7176400

DISTRIBUTOR





3.0L LPG DBC

SPECTRUM II

## DISTRIBUTOR

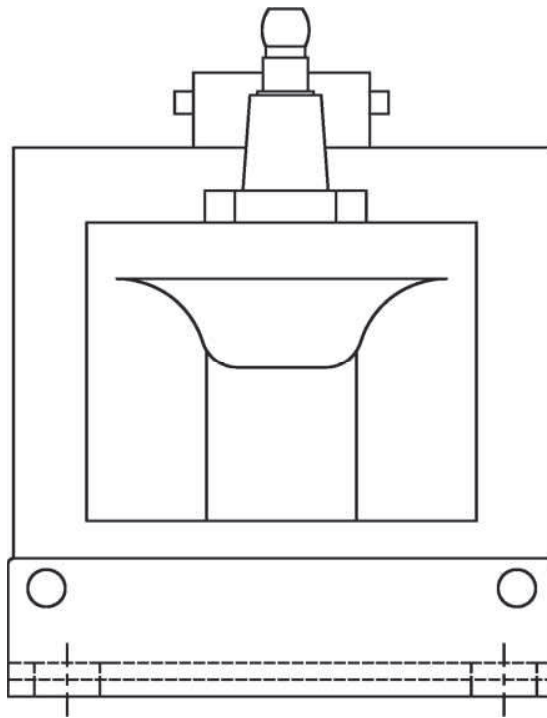
Item#	Description	Qty.	Part Number
1	Distributor Assy (Complete)	1	7241750
2	Module, Ignition Coil	1	7141680
3	Cap Distributor	1	7241610
4	Rotor, Distributor	1	7241620

**3.0L LPG DBC**

**SPECTRUM II**



## IGNITION COIL





**3.0L LPG DBC**

**SPECTRUM II**

### **IGNITION COIL**

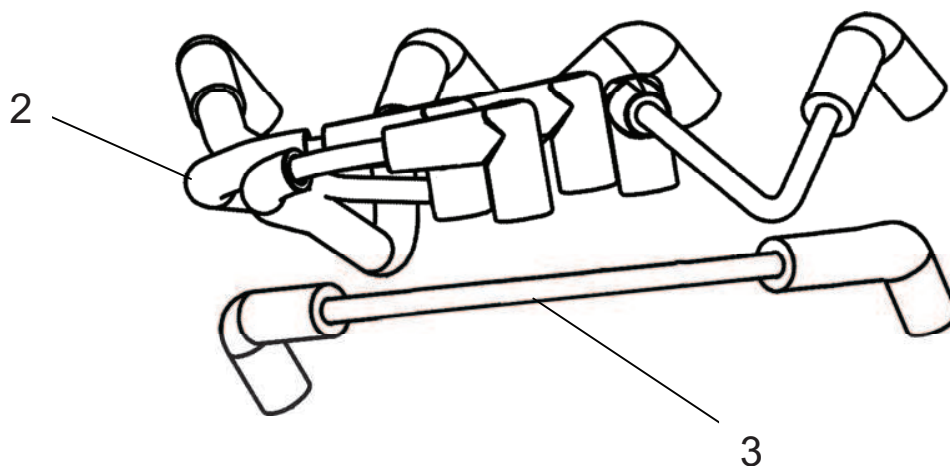
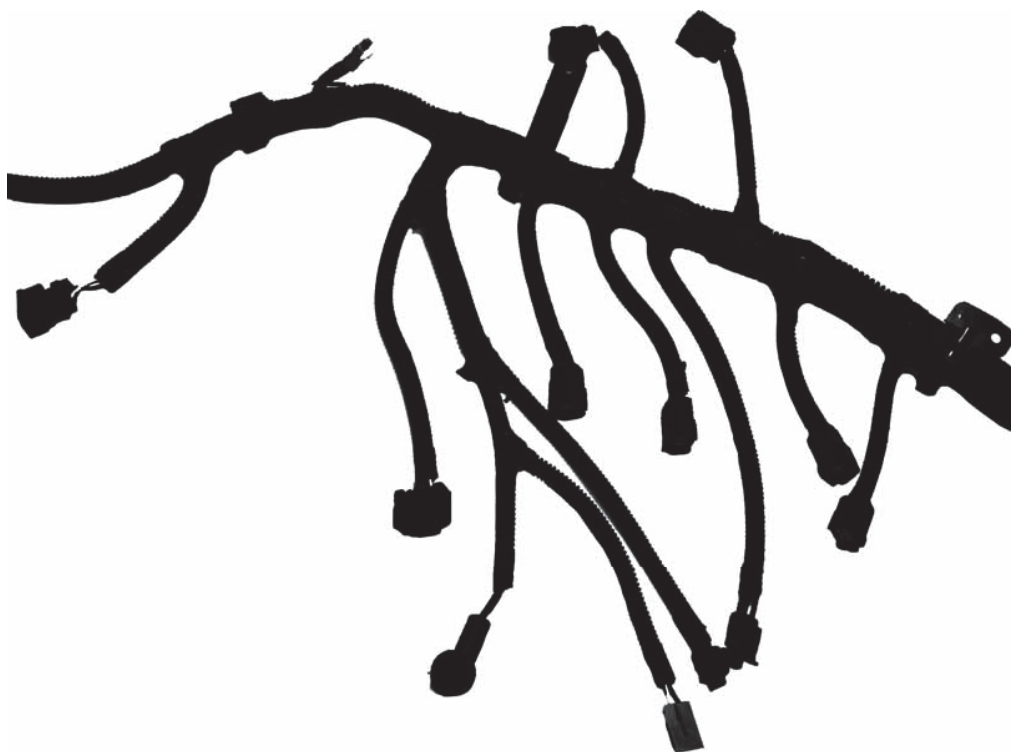
<b>Item#</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Ignition Coil	1	72420290

3.0L LPG DBC

SPECTRUM II



## WIRE HARNESS ENGINE ELECTRICAL





**3.0L LPG DBC**

**SPECTRUM II**

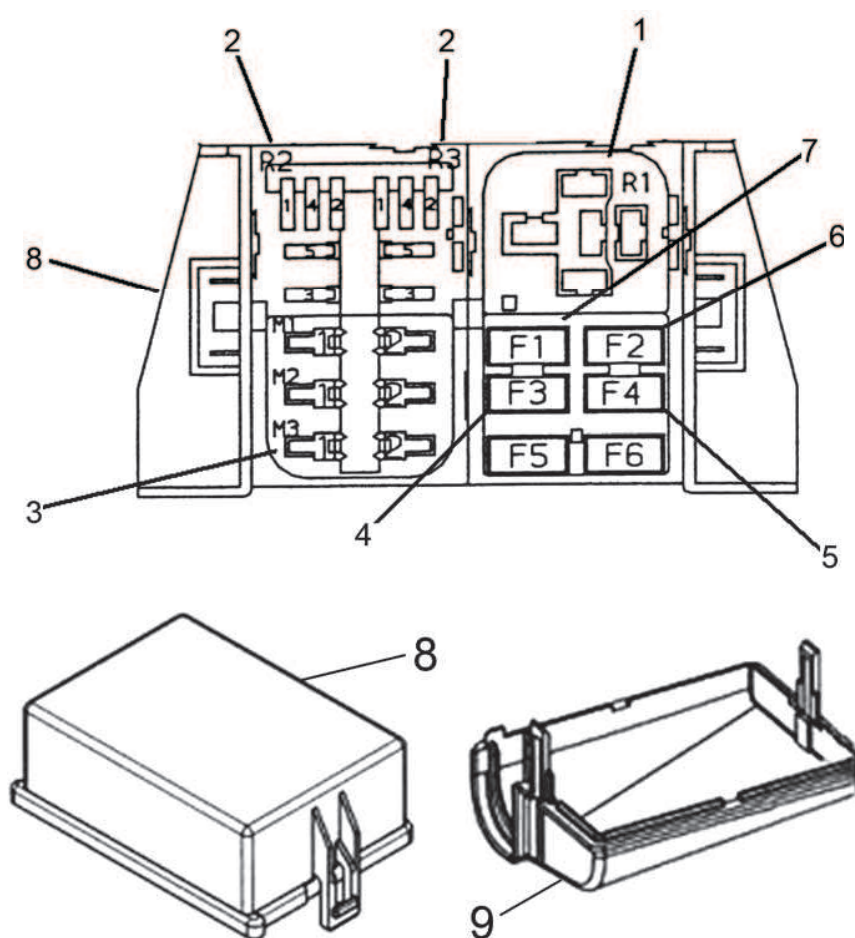
### **WIRE HARNESS ENGINE ELECTRICAL**

<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Harness, Engine Electrical	1	E1350020
Not Shown	Harness, LPG Jumper Harness	1	E1478100
2	Spark Plug Wire Set (Without Ignition Coil Wire)	1	7241830
3	Ignition Coil Wire	1	7241820



IGNITION COIL

FUSE BOX



## FUSE BOX

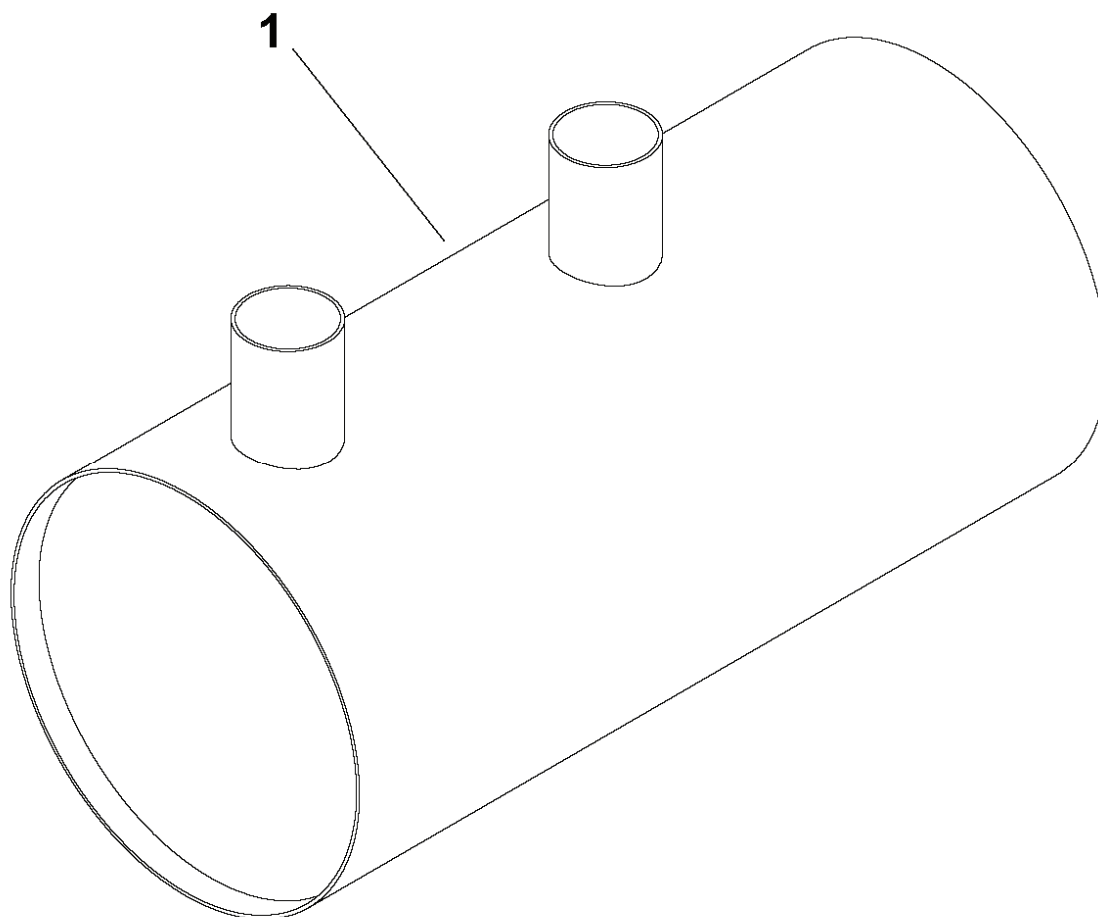
Item #	Description	Qty	Part #
1	Relay, Starter 40/30 A	1	7381290
2	Relay, Power & Fuel Pump	2	7381400
3	Fuse, Maxi 50 A	1	7381280
4	Fuse, 15 A	1	7381220
5	Fuse, 15 A	1	7381220
6	Fuse, 5 A	1	7380660
7	Fuse 20 A	1	7381270
8	Fuse Box Cover (Top) w/o Label	1	E-6131
9	Fuse Box Cover (Bottom)	1	E-6132
Not Shown	Label GM Engines	1	7060720

**3.0L LPG DBC**

**SPECTRUM II**



### THREE WAY CATALYTIC MUFFLER





**3.0L LPG DBC**

**SPECTRUM II**

### **THREE WAY CATALYTIC MUFFLER**

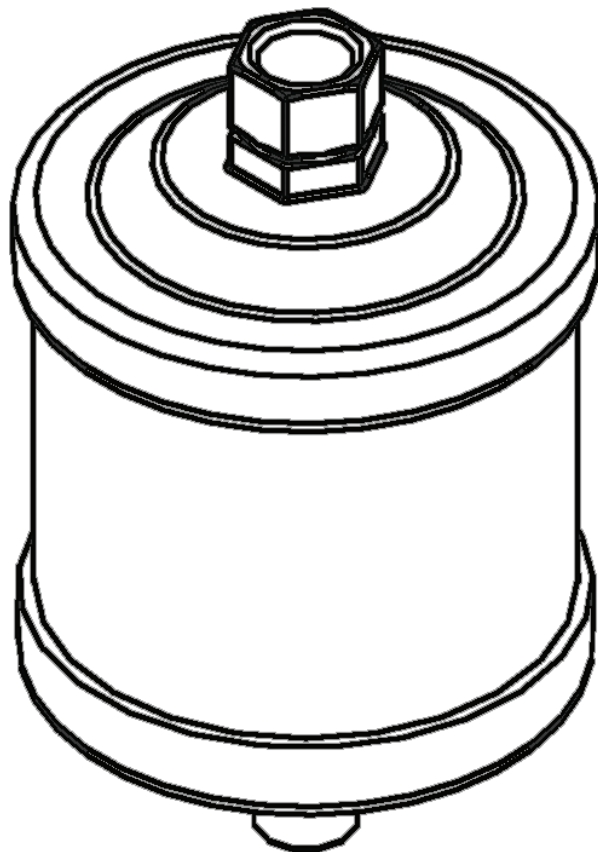
<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Application</b>	<b>Part Number</b>
1	Muffler, Three Catalytic Gasoline	1	Gas Cushion	7332360
1	Muffler, Three Catalytic Gasoline	1	Gas Pneumatic	7332370

3.0L LPG DBC

SPECTRUM II



## FUEL FILTER ASSEMBLY





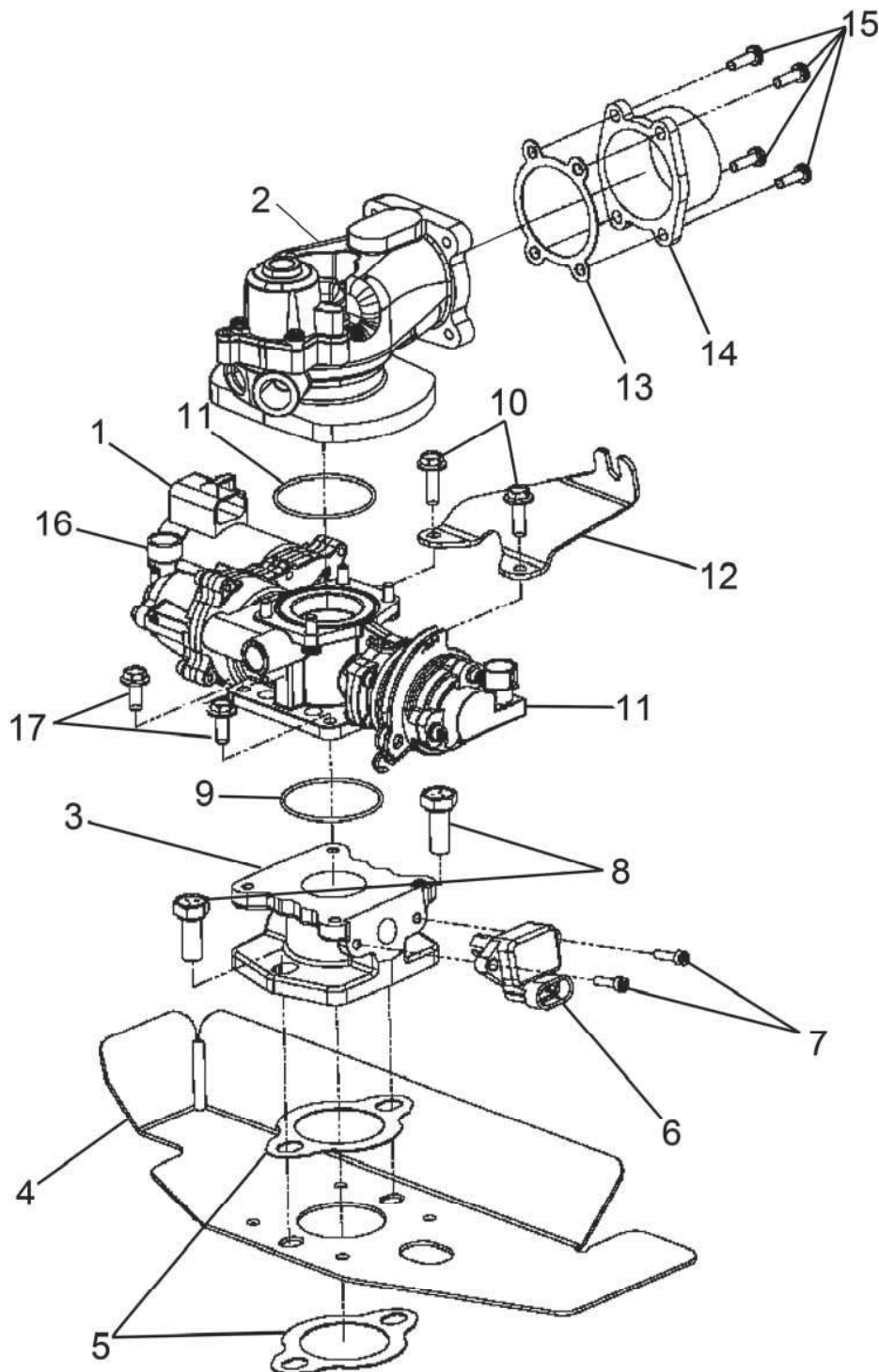
**3.0L LPG DBC**

**SPECTRUM II**

### **FUEL FILTER ASSEMBLY**

Item #	Description	Qty.	Part Number
1	Filter, LPG Assembly	1	F1-30869-001

**THROTTLE BODY**



## THROTTLE BODY

Item#	Description	Qty.	Part Number
1	Assembly Throttle Body Injector assembly with DBC throttle control complete	1	ATGN-30312-32-25-64
2	Assembly, TBI Assembly	1	E1422002 (E1422003) w/o Sensor Mtg
3	Adapter, Throttle Control assembly to Manifold	1	A3-30323-001
4	Shield, Heat	1	G4-30978-001
5	Gasket, 2 Bolt Manifold	2	G1-19
6	Assembly, TMAP	1	S8-30862-001
7	Screws, TMAP retaining	2	S1-30295-0416
8	Bolts Retaining, Throttle Assembly to Manifold	2	S1-34
9	O-ring, Throttle Control seals	2	S3-1524-003
10	Bolts Retaining, Throttle Control Assembly to Adapter	2	S1-30871-02-0620
11	Sensor, Foot Pedal Position FPP	1	S8-30237-001
12	Bracket, Throttle Cable	1	B4-30867-001
13	Gasket, Air Inlet to TBI Adapter	1	G1-11
14	Inlet, Air	1	A3-29-1
15	Screws Retaining, Air Inlet to Adapter	4	S1-30047-001
16	Sensor Throttle position (TPS)	1	S8-30703
17	Bolts Retaining, Throttle Control Assembly to Adapter	2	S1-30871-02-0616

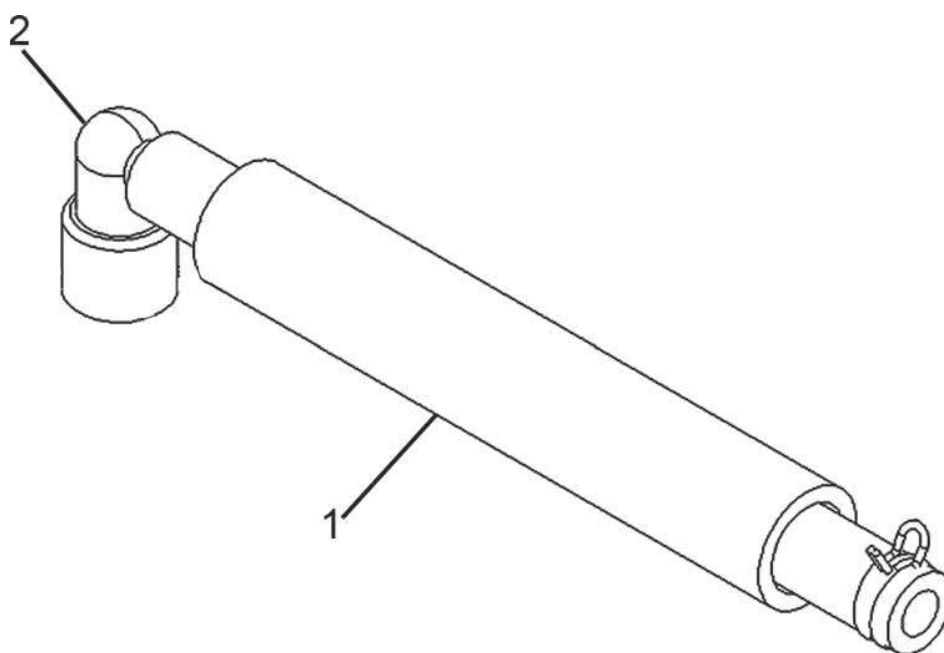


## 3.0L GASOLINE DBC

SPECTRUM II



### PCV HOSE ASSEMBLY





**3.0L GASOLINE DBC**

**SPECTRUM II**

**PCV HOSE ASSEMBLY**

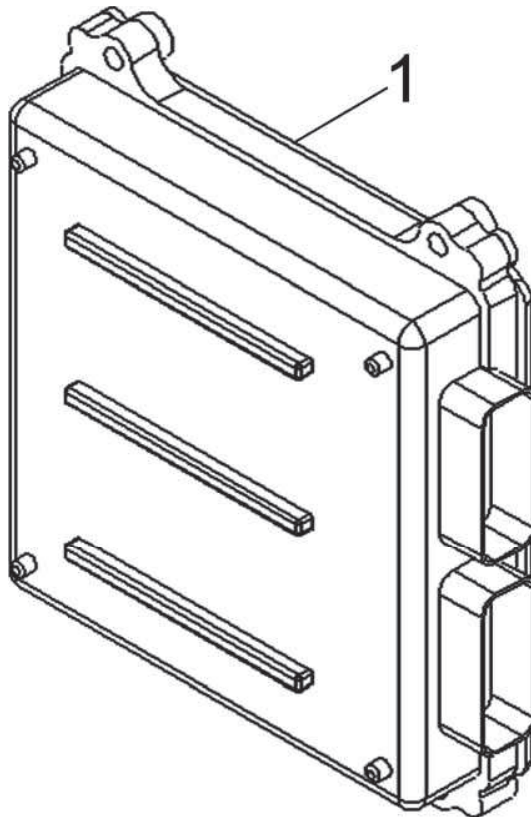
Item #	Description	Qty.	Part Number
1	Hose Assembly, PCV	1	AH1-30853-019
2	Valve, PCV	1	V3-30855-774

## 3.0L GASOLINE DBC

### SPECTRUM II



## ENGINE CONTROL MODULE





**3.0L GASOLINE DBC**

**SPECTRUM II**

**ENGINE CONTROL MODULE**

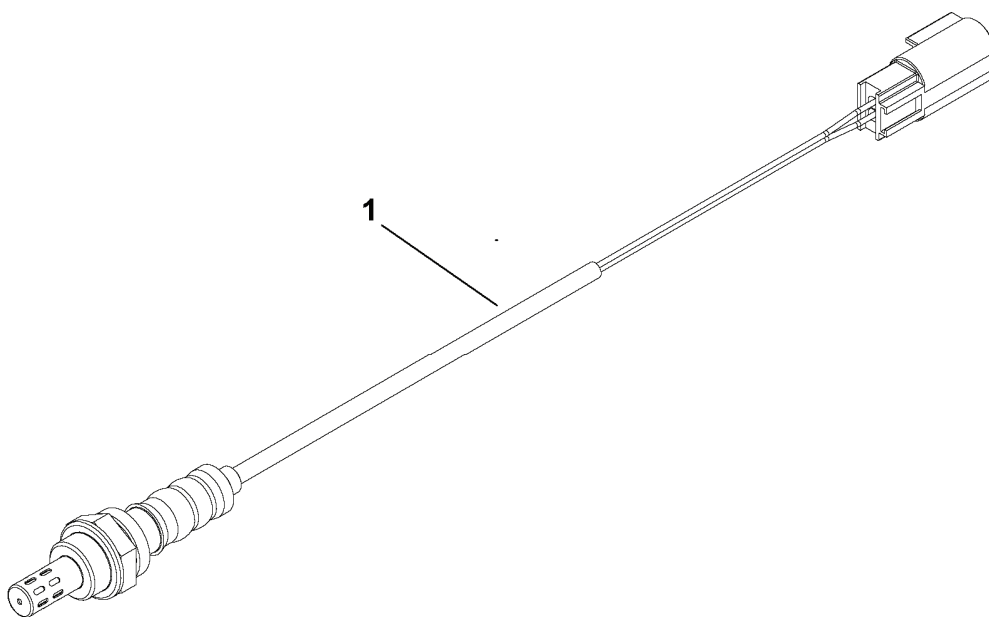
Item#	Description	Qty.	Application	Part Number
1	Module, Engine Control (Blank Only)	1	Gas-Pneumatic & Cushion	E1341001

**3.0L GASOLINE DBC**

**SPECTRUM II**



**HEATED EXHAUST GAS OXYGEN SENSOR**





**3.0L GASOLINE DBC**

**SPECTRUM II**

**HEATED EXHAUST GAS OXYGEN SENSOR**

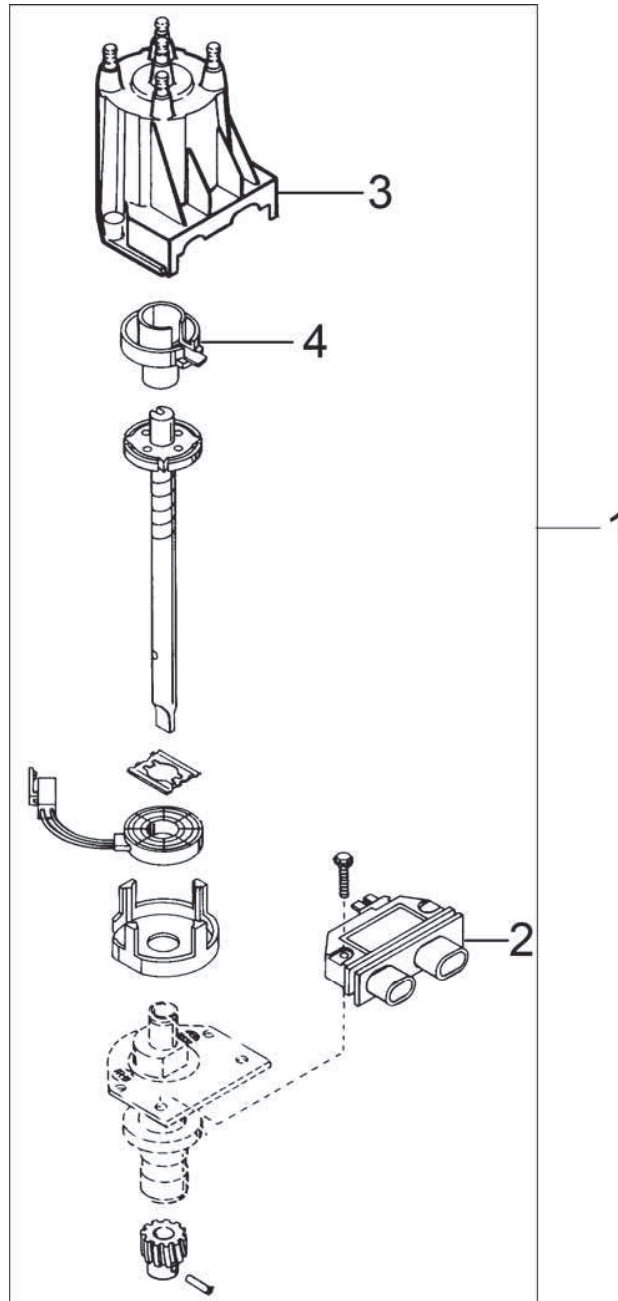
Item#	Description	Qty.	Part Number
1	Sensor, Heated Exhaust Gas Oxygen	1	7176400

## 3.0L GASOLINE DBC

### SPECTRUM II



#### DISTRIBUTOR





**3.0L GASOLINE DBC**

**SPECTRUM II**

## **DISTRIBUTOR**

<b>Item#</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Distributor Assy (Complete)	1	7241750
2	Module, Ignition Coil	1	7141680
3	Cap Distributor	1	7241610
4	Rotor, Distributor	1	7241620

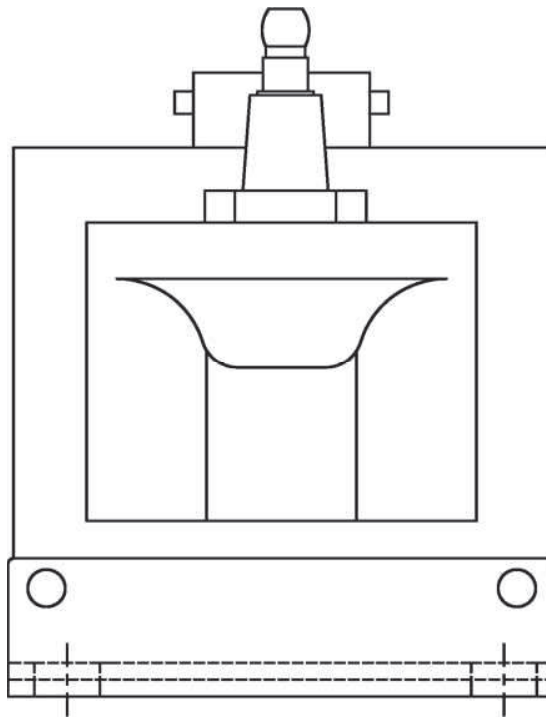


**3.0L GASOLINE DBC**

**SPECTRUM II**



**IGNITION COIL**





**3.0L GASOLINE DBC**

**SPECTRUM II**

**IGNITION COIL**

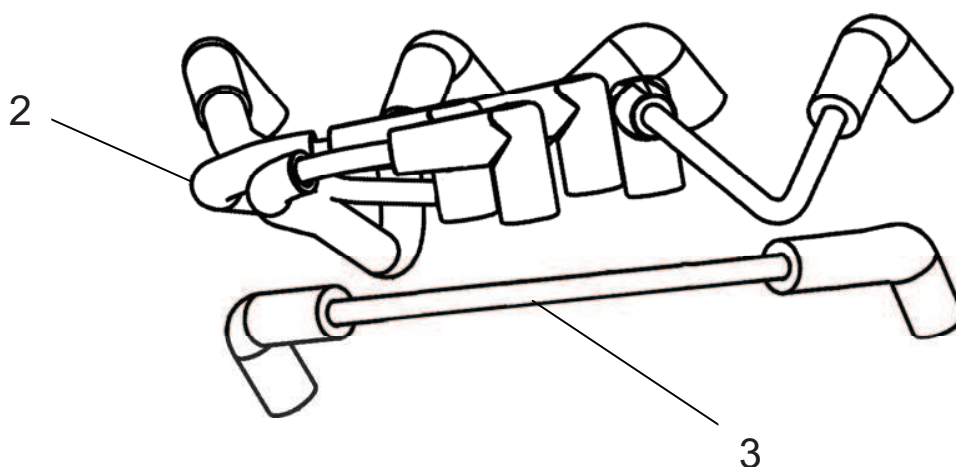
Item#	Description	Qty.	Part Number
1	Ignition Coil	1	7240290

### 3.0L GASOLINE DBC

SPECTRUM II



### WIRE HARNESS ENGINE ELECTRICAL





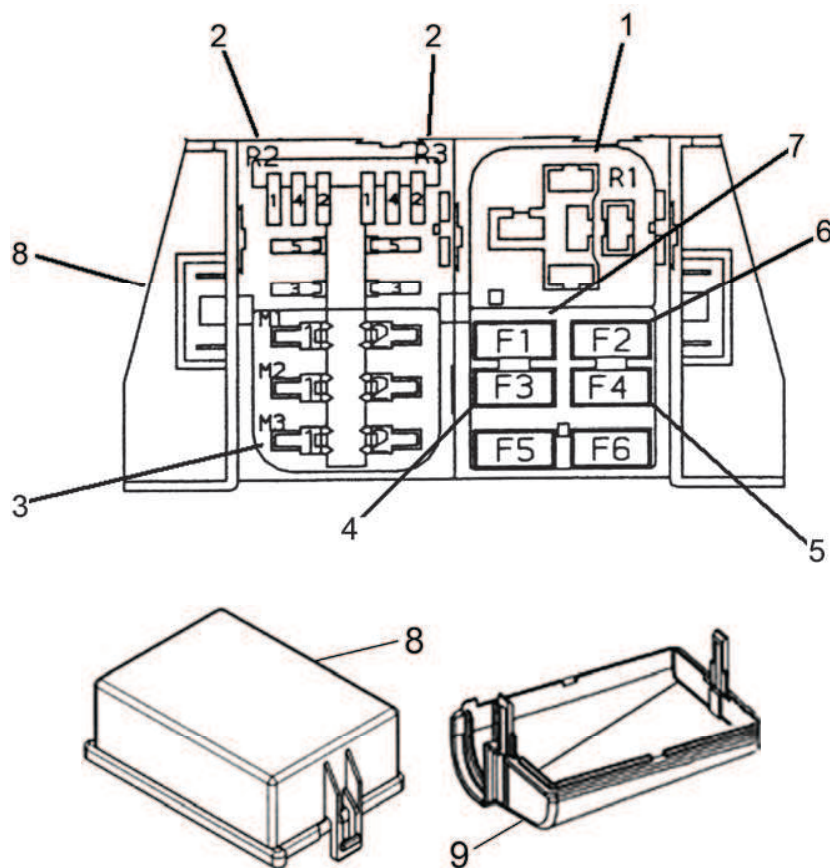
**3.0L GASOLINE DBC**

**SPECTRUM II**

**WIRE HARNESS ENGINE ELECTRICAL**

Item #	Description	Qty.	Part Number
1	Harness, Engine Electrical	1	E1350020
Not Shown	Harness, Gas Injector Jumper	1	E1477100
2	Spark Plug Wire Set (Without Ignition Coil Wire)	1	7241830
3	Ignition Coil Wire	1	7241820

**FUSE BOX**



## FUSE BOX

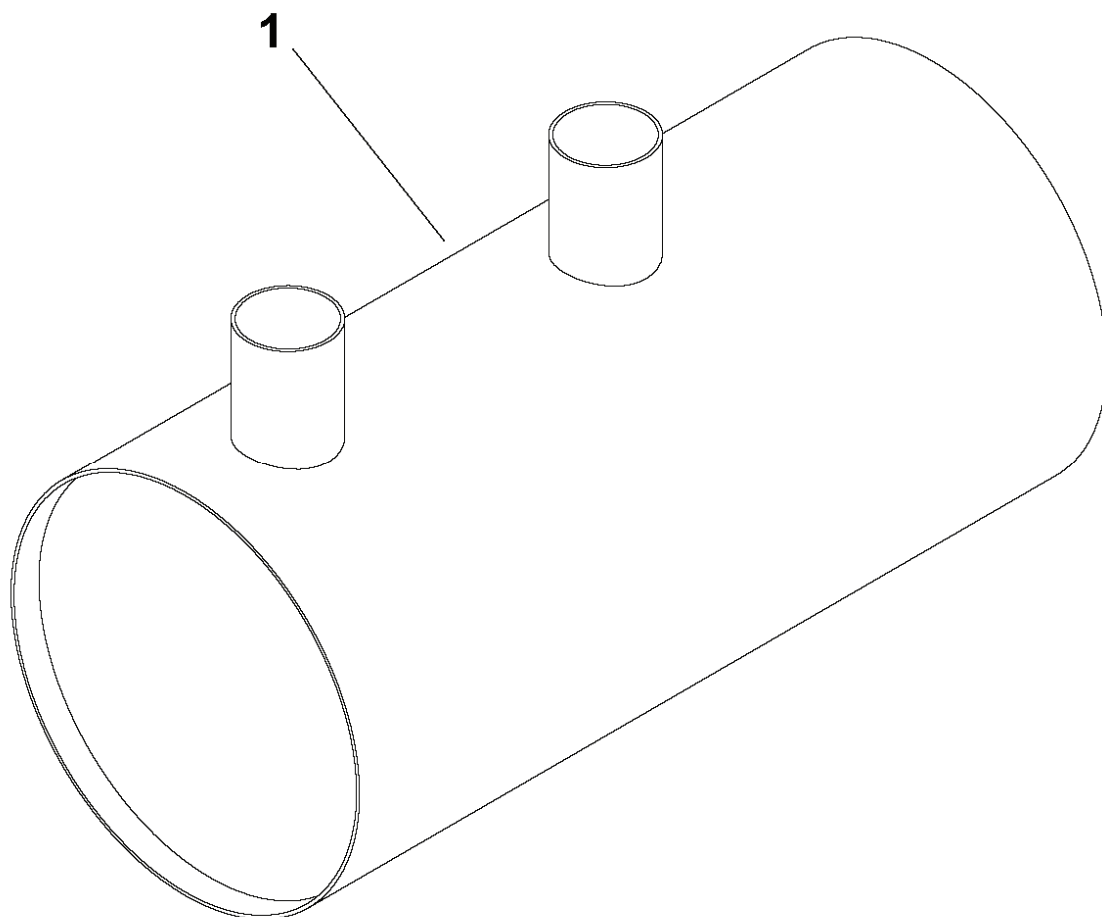
Item #	Description	Qty	Part #
1	Relay, Starter 40/30 A	1	7381290
2	Relay, Power & Fuel Pump	2	7381400
3	Fuse, Maxi 50 A	1	7381280
4	Fuse, 15 A	1	7381220
5	Fuse, 15 A	1	7381220
6	Fuse, 5 A	1	7380660
7	Fuse 20 A	1	7381270
8	Fuse Box Cover (Top) w/o Label	1	E-6131
9	Fuse Box Cover (Bottom)	1	E-6132
Not Shown	Label GM Engines	1	7060720

**3.0L GASOLINE DBC**

**SPECTRUM II**



**THREE WAY CATALYTIC MUFFLER**





**3.0L GASOLINE DBC**

**SPECTRUM II**

**THREE WAY CATALYTIC MUFFLER**

Item #	Description	Qty.	Application	Part Number
1	Muffler, Three Catalytic Gasoline	1	Gas Cushion	7332360
1	Muffler, Three Catalytic Gasoline	1	Gas Pneumatic	7332370

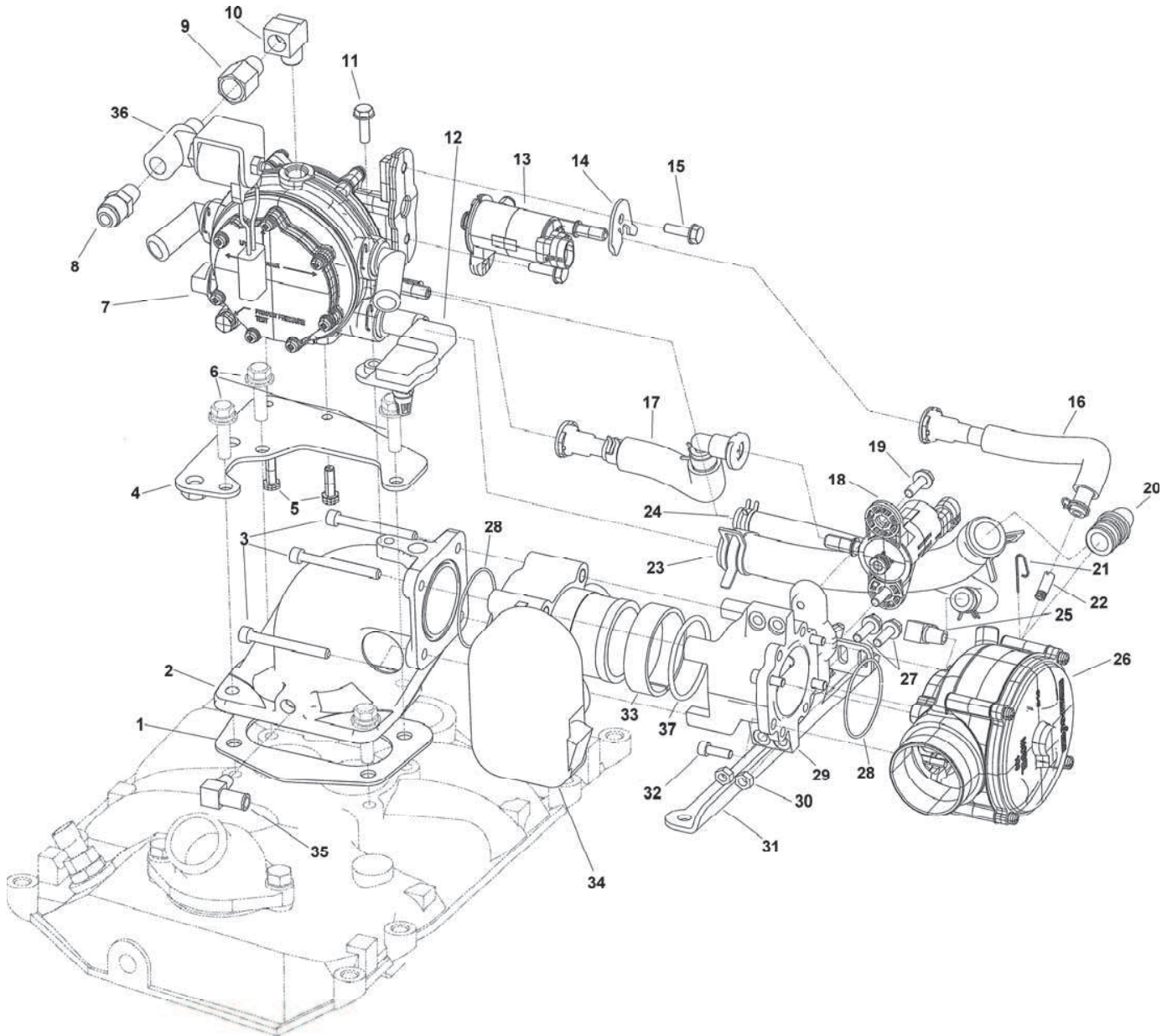


## 4.3L LPG DBC & DBW

### SPECTRUM II



## DBW LPG MIXER AND THROTTLE BODY ASSEMBLY



**DBW LPG MIXER AND THROTTLE BODY ASSEMBLY**

Item #	Description	Qty.	Part Number
1	Gasket Mnfld to Adptr	1	G1-25667
2	Adapter, Elbow, intake	1	A3-30946-001
3	Bolt, Adapter to ETC	4	S1-30295-0655
4	Bracket, LPR to Eng	1	B4-30947-001
5	Bolt, LPR to Brkt	2	S1-30283-0620
6	Bolt, Adapt to Manfld	4	90205125
7	Regulator, Low Pressure	1	CS4-30772-004
8	Fitting, Fuel inlet to LPL	1	F4-14220
9	Adapter, Fitting LPL	1	F4-30953-001
10	Fitting, Elbow LPL to LPR	1	F4-14184-002
11	Bolt, TMAP	1	S1-30047-001
12	Sensor, TMAP	1	E1466001
13	Valve, Pressure Trim	1	V3-30272-279
14	Clip, PTV retainer	1	C2-30267-001
15	Bolt, PTV retaining	2	S1-30283-0620
16	Hose, Ass PTV Vac	1	AH1-30852-008
17	Hose, Ass FTV Fuel Inlet	1	AH1-30852-003
18	Valve, Fuel Trim	1	V3-30270-277
19	Bolt, FTV Retaining	2	S1-30283-0620
20	Fitting Fuel Inlet Mixer	1	AF4-30615
21	Pin Retaining Ftg In Mix	1	P1-30559
22	Fitting, Vac PTV Hse Assm	1	F4-2
23	Hose, Vapor Inlt Mix	1	AH1-30853-014
24	Hose, Bal. Line	1	AH1-30853-001
25	Fitting, Bal Lne Mix	1	F4-12
26	Mixer, Assem	1	FT100M-30828-52-001
27	Bolt, FTV Brk Mount	2	S1-30871-02-0620
28	O-ring, Intake Seals	2	S3-11524-003
29	Adapter, FTV inlt	1	AA3-30952-001
30	Nut, FTV Mnt Bolt	2	5N-001
31	Support, FTV Mnt Adptr	1	B4-30980-001
32	Screw, FTV Adptr to Mix	4	S1-31083-1224-075
33	Collar, Seal ETC Inlet	1	S6-30976-001
34	Electronic Throttle Control	1	E1312100
35	Fitting, Adapter	1	401-02
36	Lock Off Electric, LPG	1	FL-205-1
37	O-Ring,	1	S3-1524-004
Not Shown	Hose Assm, Coolant	1	AH1-30853-005
Not Shown	Hose Assm, Coolant	1	AH1-30853-008
Not Shown	Fitting, ½ Nptx5/8 hose	1	7171440
Not Shown	Bracket Air Pipe	1	7176430
Not Shown	Bolt, M8-1.25x20 mm	3	98333020
Not Shown	Washer, Lock M8	3	93930000
Not Shown	Fuel Line LPG	1	7176420
Not Shown	Retainer Coolant Sensor Wire	1	7240070

## 4.3L LPG DBC & DBW

### SPECTRUM II



### DBW LPG MIXER AND THROTTLE BODY ASSEMBLY (Continued)

Item #	Description	Qty.	Part Number
Not Shown	Bolt Fuel Line	1	90325063
Not Shown	Washer, lock Fuel Line	1	93300000
Not Shown	Nut, FTV Brkt to Eng	2	95200000
Not Shown	Washer, lock 5/16	6	93200000
Not Shown	Washer Lock 5/16	4	92200000
Not Shown	Clamp, Blc Hos	1	7030060



4.3L LPG DBC & DBW

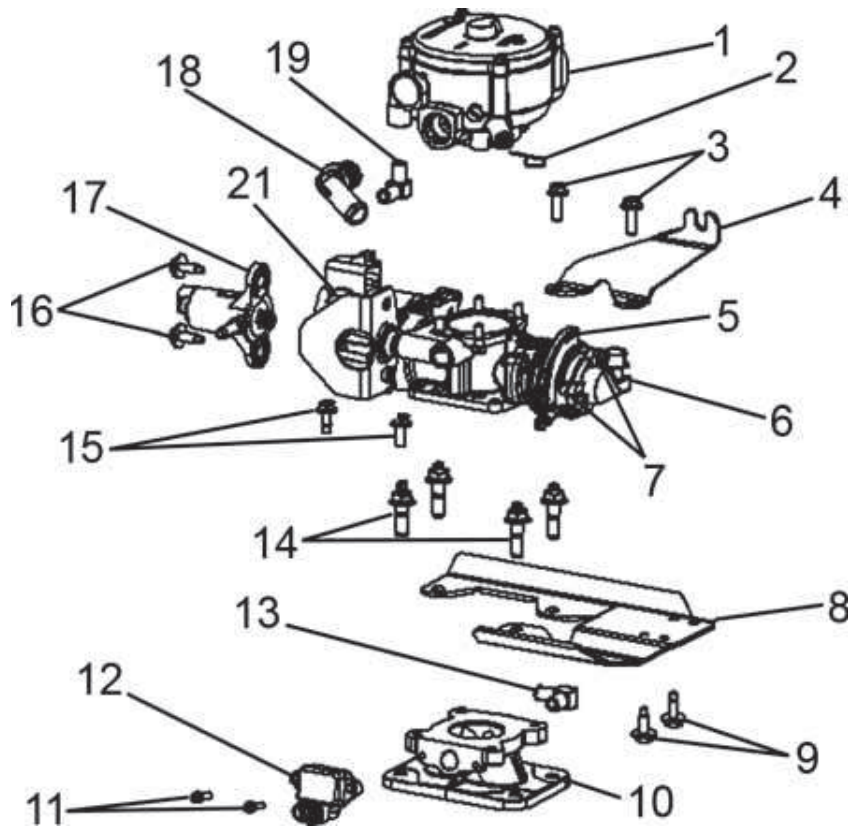
SPECTRUM II

## 4.3L LPG DBC & DBW

### SPECTRUM II



## DBC LPG MIXER AND THROTTLE BODY ASSEMBLY



**DBC LPG MIXER AND THROTTLE BODY ASSEMBLY**

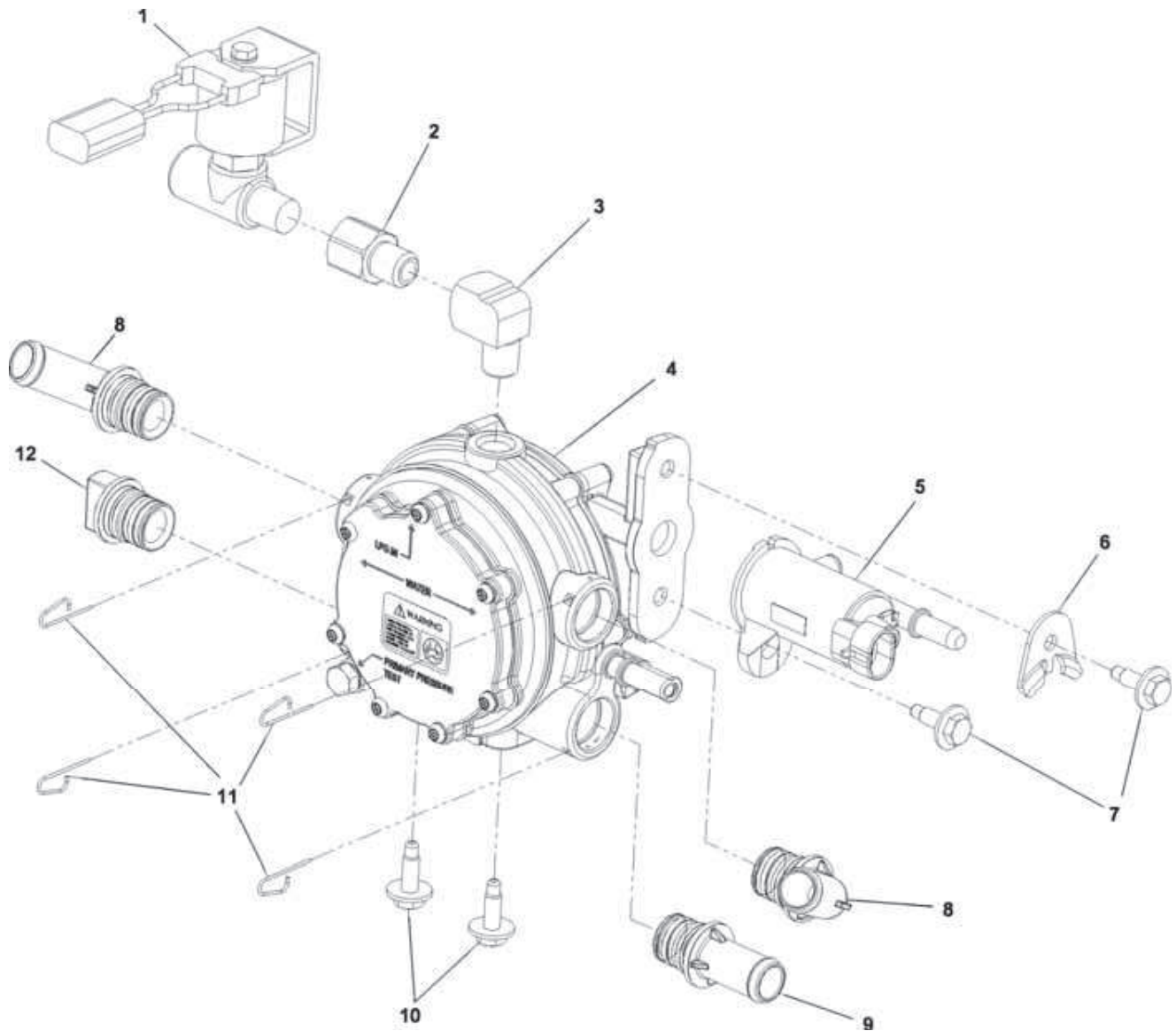
Item #	Description	Qty.	Part Number
1	Mixer, FT100M	1	FT100M-30828-52-001
2	Pin, Retaining fitting	1	P1-30559
3	Bolt, Retaining Throttle Body to Mixer	2	S1-30871-02-0620
4	Bracket, Throttle cable	1	B4-30867-001
5	Assembly Throttle Body DBC	1	ATGC-30312-38-25-64
6	Sensor Foot Pedal Position (FPP)	1	S8-30237-001
7	Screw, FPP Retaining	2	S1-30295-0416
8	Bracket, Regulator Mounting	1	B4-30239-001
9	Bolts, Regulator Mounting	2	S1-30283-0620
10	Adapter, Manifold to Throttle Body	1	A3-30238-001
11	Screws, TMAP Retaining	2	S1-30295-0416
12	Sensor, TMAP	1	S8-30862-001
13	Fitting, 90 Degree Elbow	1	F4-12
14	Bolts Throttle Body To Adapter	4	S3-30873-31-150
15	Bolts. Throttle Body to Adapter Short	2	S1-30871-02-0620
16	Bolts, FTV Retaining	2	S1-30283-0620
17	Valve , Fuel Trim FTV	1	V3-30270-277
18	Fitting, Fuel Inlet to Mixer	1	AF4-30614
19	O-Ring, Throttle Body Seal	2	S3-1524-003
20	Gasket Manifold to Adapter	1	G1-25667
21	Sensor, Throttle Position (TPS)	1	S8-30703

## 4.3L LPG DBC & DBW

### SPECTRUM II



## LPG REGULATOR ASSEMBLY





## 4.3L LPG DBC & DBW

### SPECTRUM II

#### LPG REGULATOR ASSEMBLY

Item #	Description	Qty.	Part Number
1	Assembly Lock Off 12 V	1	ET98-50362-001
2	Fitting Brass Adapter	1	F4-30953-001
3	Fitting 90 Degree Elbow	1	F4-14184-002
4	Assembly Regulator	1	CS4-30772-004
5	Valve, Pressure Trim	1	V3-30272-279
6	Clamp, PTV Retaining	1	C2-30267-001
7	Bolt, PTV Retaining	2	S1-30283-0620
8	Fitting, Coolant	2	AF4-30614
9	Fitting Vapor Outlet	1	AF4-30615
10	Bolts, Mounting	2	S1-30283-0620
11	Pin, Retaining	4	P1-30559
12	Cap, Regulator	1	AF4-30613

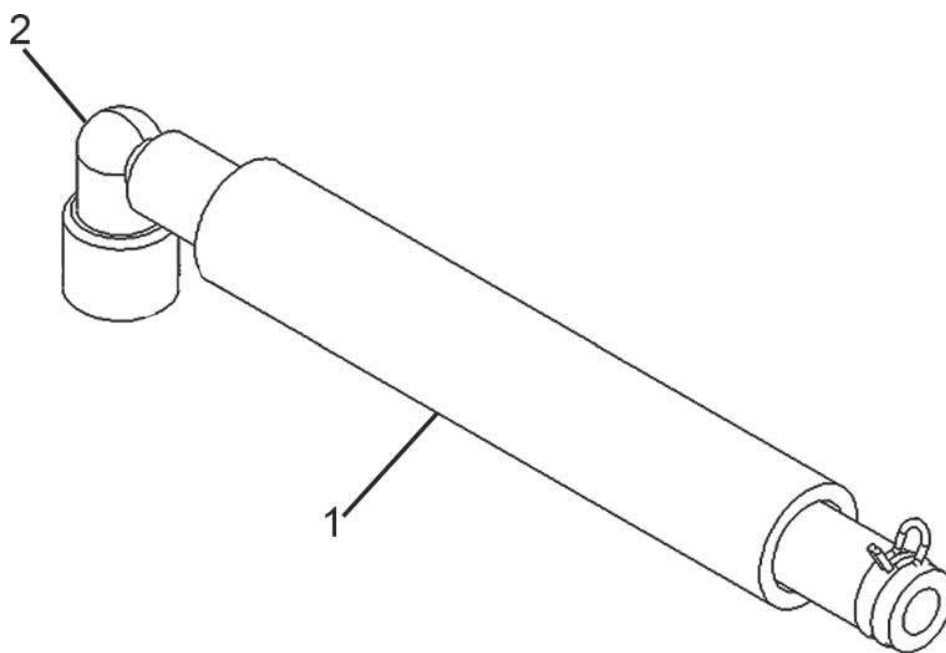


## 4.3L LPG DBC & DBW

SPECTRUM II



### PCV HOSE ASSEMBLY





**4.3L LPG DBC & DBW**

**SPECTRUM II**

**PCV HOSE ASSEMBLY**

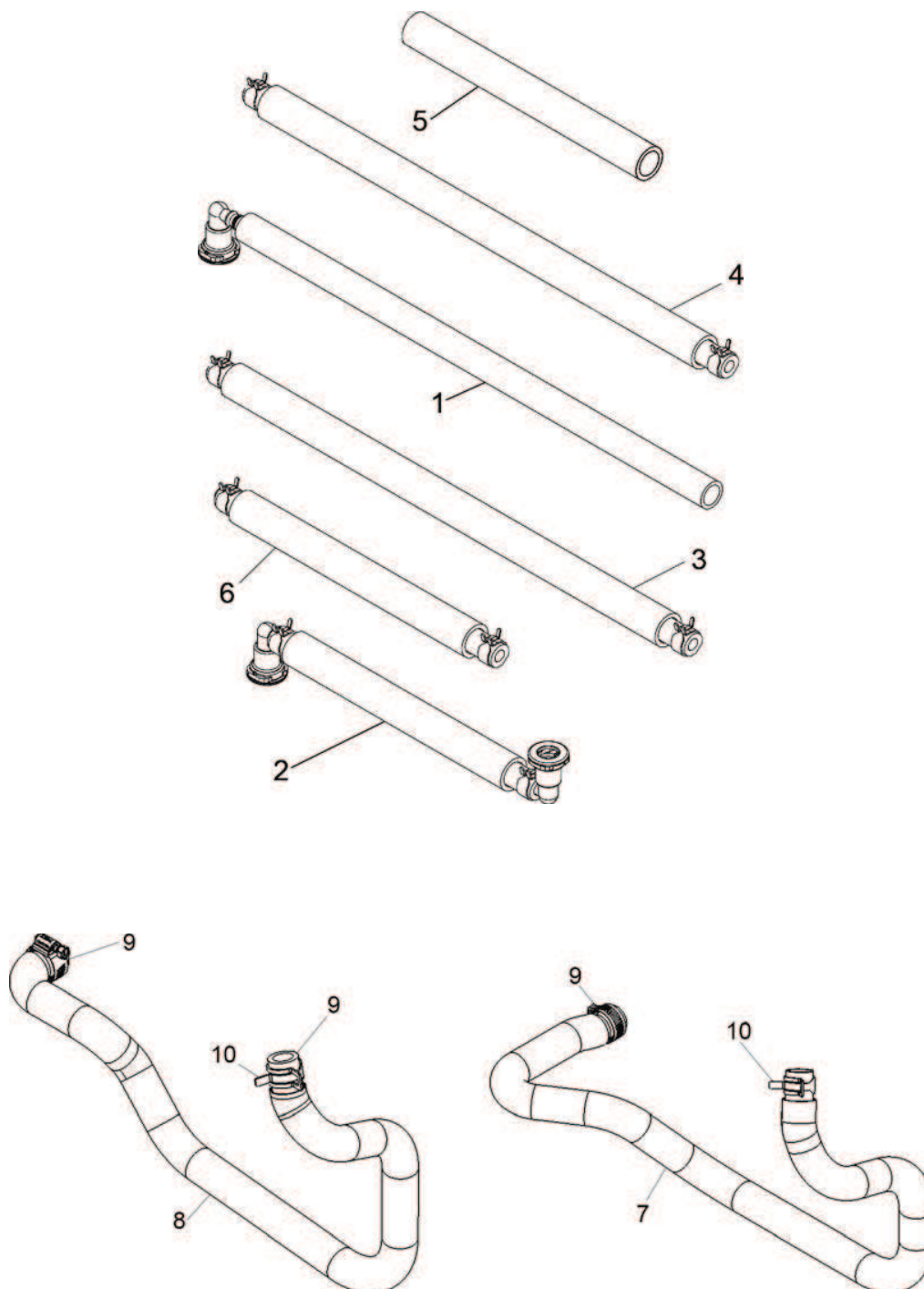
Item #	Description	Qty.	Part Number
1	Assembly, Hose PCV (Includes hoses & Clamps)	1	AH1-30853-020
2	Valve, PCV	1	V3-30855-774

## 4.3L LPG DBC & DBW

### SPECTRUM II



## HOSE ASSEMBLIES COOLANT/VACUUM /FUEL/PCV



**HOSE ASSEMBLIES COOLANT/VACUUM /FUEL/PCV**

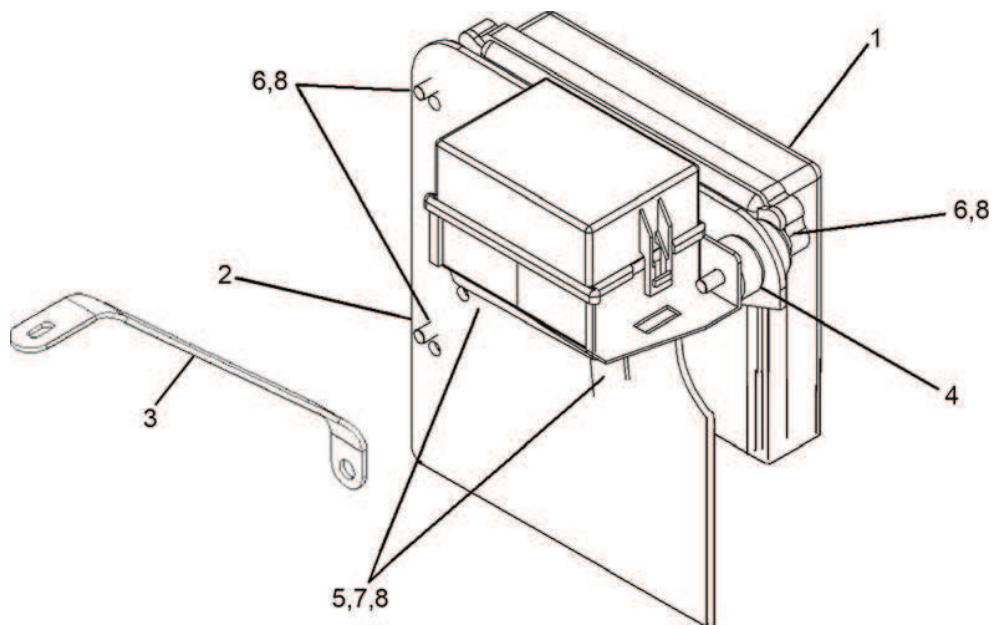
Item #	Description	Qty.	Part Number
1	Assembly, Hose PTV	1	AH1-30852-006
2	Assembly, Hose FTV	1	AH1-30852-002
3	Assembly, Hose Coolant 845MM	1	AH1-30853-002
4	Assembly, Balance	1	AH1-30853-001
5	Assembly, Dry Gas Supply	1	AH1-30853-017
6	Assembly, Hose Coolant 245 MM	1	AH1-30853-003
7	Assy, Hose LPR Return Molded	1	AH1-30891-001
8	Assy, Hose LPR Return	1	AH1-30890-001
9	Clamp, Hose Worm	1	C2-14106-006
10	Clamp, Hose Pinch	1	C2-16664-2

## 4.3L LPG DBC & DBW

### SPECTRUM II



### ENGINE CONTROL UNIT



**ENGINE CONTROL UNIT**

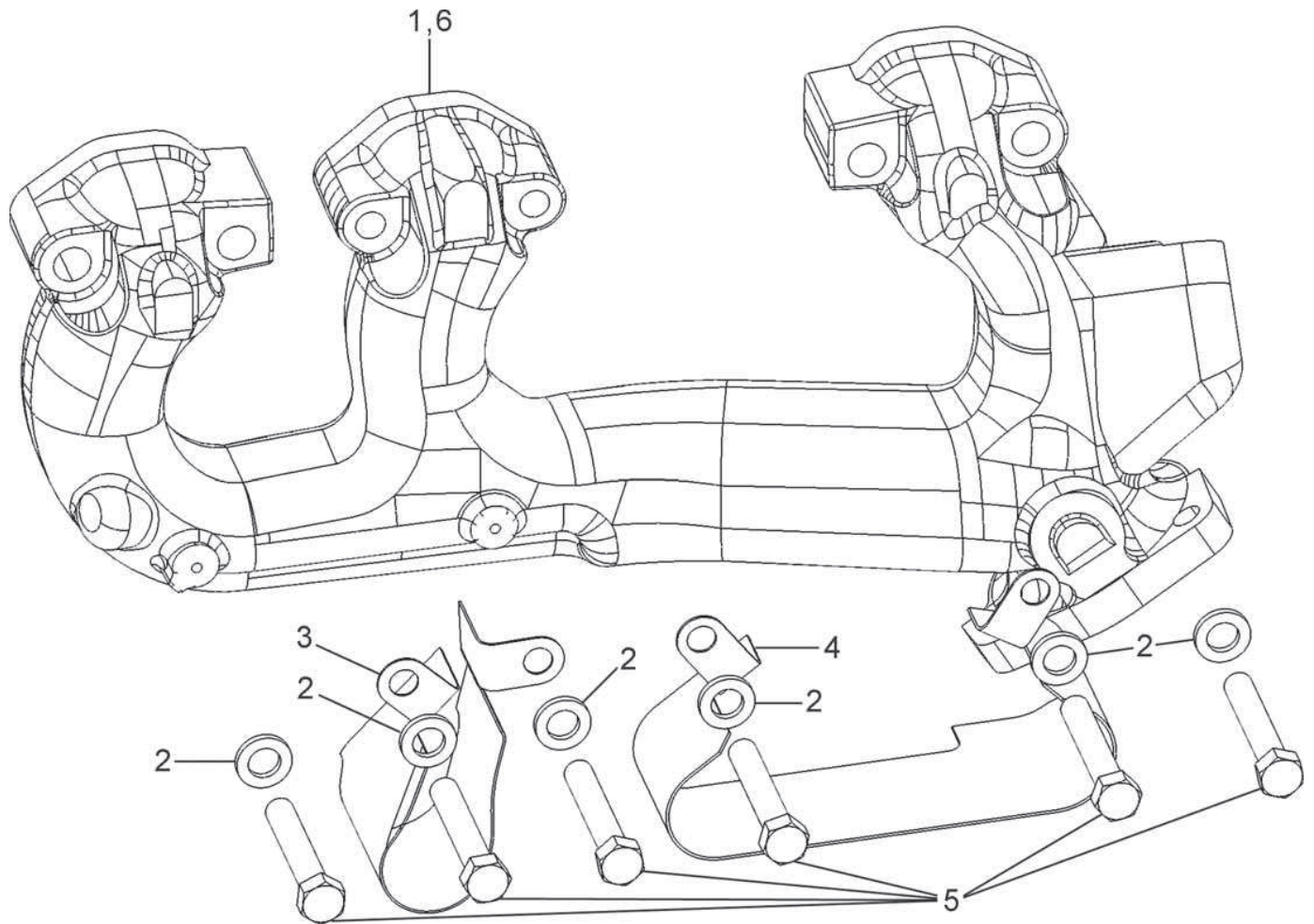
Item #	Description	Qty.	Part Number
1	Module, DBW Engine Control (blank w/o Calibration)	1	E1411002
2	Bracket, ECU Mounting	1	7370810
3	Bracket Support ECU	1	7370820
4	Isolator, Relay Box	6	7245290
5	Bolt, ECU Brkt Mnt Short	2	90124050
6	Bolt, ECU Brkt Mnt Long	4	90125050
7	Nut, ECU Brkt Mnt	2	95100000
8	Washer Lock ECU Brkt (1/4)	7	93100000
Not Shown	Washer Lock ECU Brkt (3/8)	2	93000000
Not Shown	Washer ECU Grnd	1	93300200
Not Shown	Bolt ECU Brkt Mnt 3/8	3	90325063

## 4.3L LPG DBC & DBW

### SPECTRUM II



## EXHAUST MANIFOLD





**4.3L LPG DBC & DBW**

**SPECTRUM II**

### **EXHAUST MANIFOLD**

<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Exhaust Manifold, RH	1	7151600
2	Washer, Exhaust Manifold	12	7150650
3	Shield, Spark Plug	2	7242600
4	Shield, Spark Plug Double	2	7242590
5	Bolt, 3/8" 16 x 2 1/4" Hex Gr 5	12	90305225
6	Exhaust Manifold, LH	1	7151610

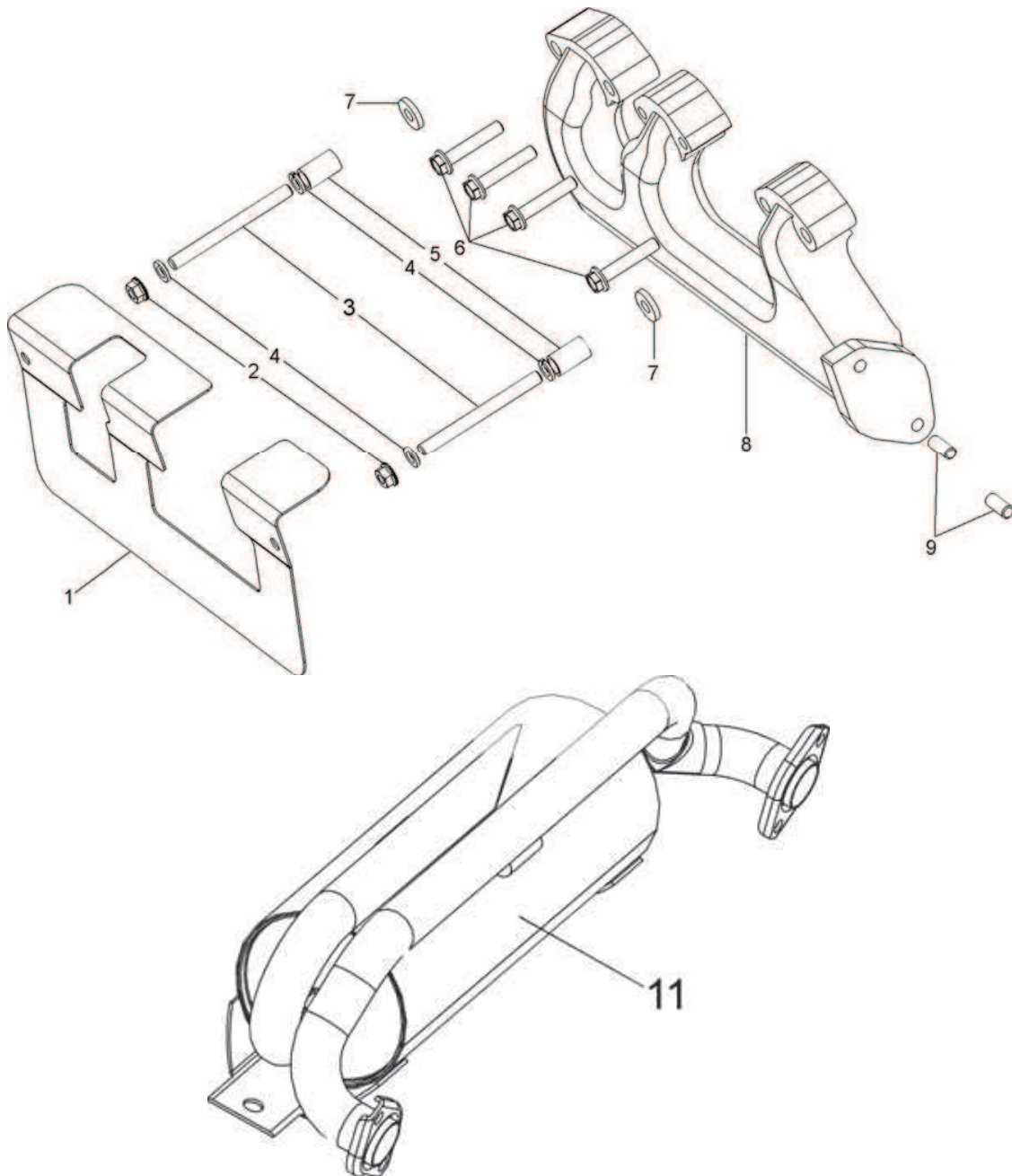


## 4.3L LPG DBC & DBW

### SPECTRUM II



## MANIFOLDS & EXHAUST SYSTEM (MCFA)



**MANIFOLDS & EXHAUST SYSTEM (MCFA)**

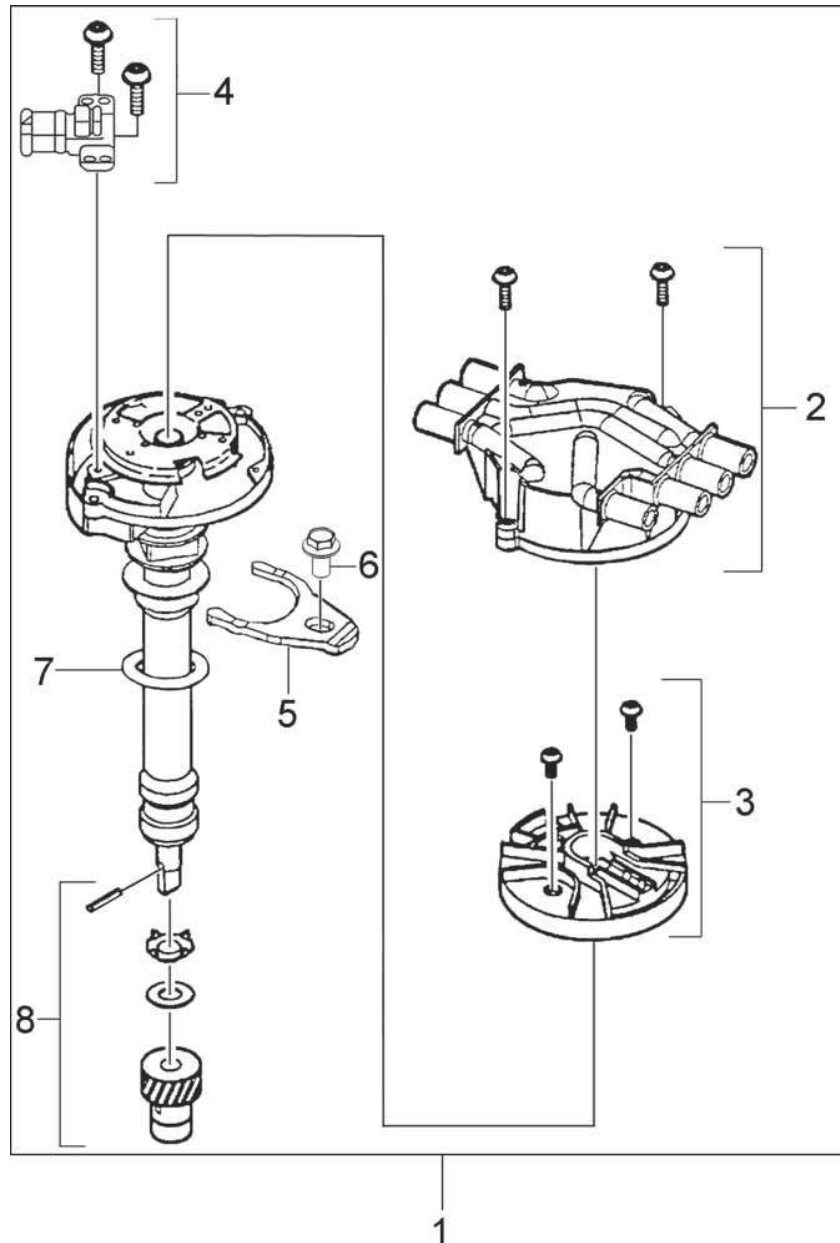
Item #	Description	Qty.	Part Number
1	Shield, Exhaust Manifold	2	7152020
2	Nut, Hex, 3/16-16	4	95300000
3	Stud, Exhaust 3/8" x 16 x 4-14"	4	7152050
4	Washer, Lock 3/8"	8	93300000
5	Spacer, 16mm OD x 32mm LG MCFA	4	7151980
6	Bolt, 3/8"-16-2" hex, flange Gr8	8	90328200
7	Washer, Flat 3/8" ID 3/16" thick	4	92300220
8	Manifold, Exhaust, RH	1	7152040
	Manifold, Exhaust, LH	1	7152030
9	Stud, Exhaust M10-1.25 x 25mm	4	7151990
10	Stud, Exhaust 3/8" x 16 x 4-14"	4	7152050
11	Catalyst, Three Way, MCFA DBW	1	7332400
	Catalytic Converter MCFA DBC	1	C12-50185-001
	Muffler, Three Catalytic Cushion	1	7332360
	Muffler, Three Catalytic Pneumatic	1	7332370

## 4.3L LPG DBC & DBW

### SPECTRUM II



## DISTRIBUTOR





**4.3L LPG DBC & DBW**

**SPECTRUM II**

## **DISTRIBUTOR**

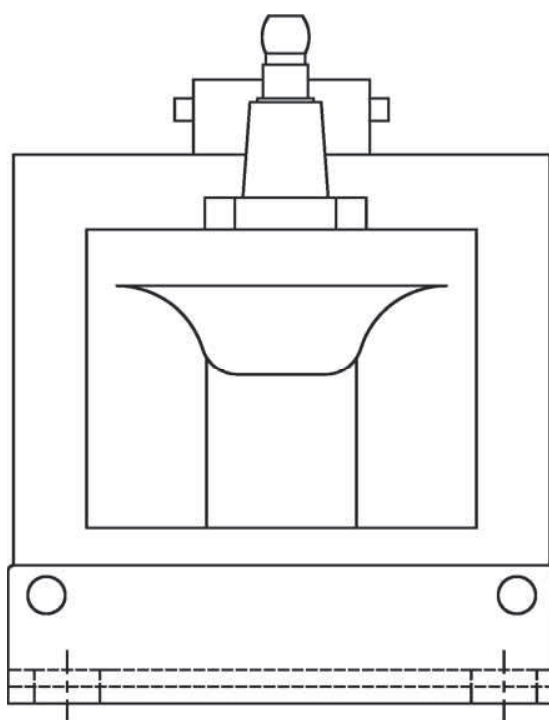
<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Distributor Assy (Complete)	1	7245220
2	Cap, Distributor (Includes Screws)	1	7245223
3	Rotor, Distributor (Includes Screws)	1	7245224
4	Camshaft Sensor (Includes Screws for Cam Sensor, Cap and Rotor)	1	7245370
5	Clamp, Distributor	1	7245490
6	Distributor Hold-down Bolt	1	S1-30871-01-0825
7	Gasket, Distributor	1	7240320
8	Gear, Distributor Kit	1	7245340

## 4.3L LPG DBC & DBW

### SPECTRUM II



### IGNITION COIL





4.3L LPG DBC & DBW

SPECTRUM II

## IGNITION COIL

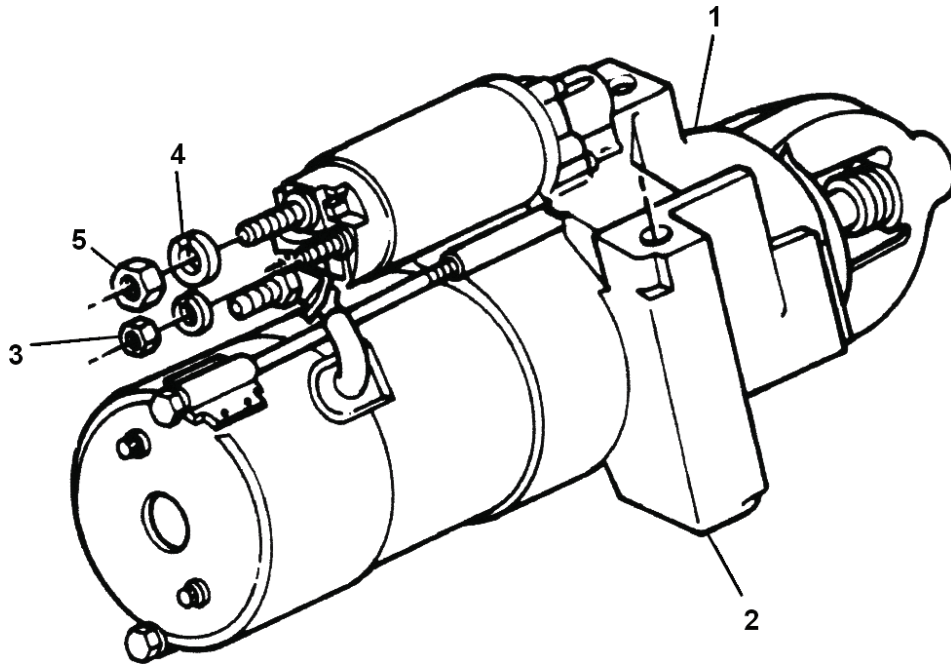
Item#	Description	Qty.	Part Number
1	Ignition Coil	1	7242210

## 4.3L LPG DBC & DBW

### SPECTRUM II



### STARTER



**STARTER**

Item #	Description	Qty.	Part Number
1	Starter, Eng	1	7244520
2	Bolt, Starter	2	7243850
3	Nut, Brass M5	1	97111000
4	Washer Lock Brass #10	1	93003000
5	Nut, Hex M8	1	97331000
6	Bracket, Starter	2	7245200
7	Nut 10-24	2	95000000
8	Washer Lock # 10	2	93000000
9	Washer Flat # 10	2	92000000

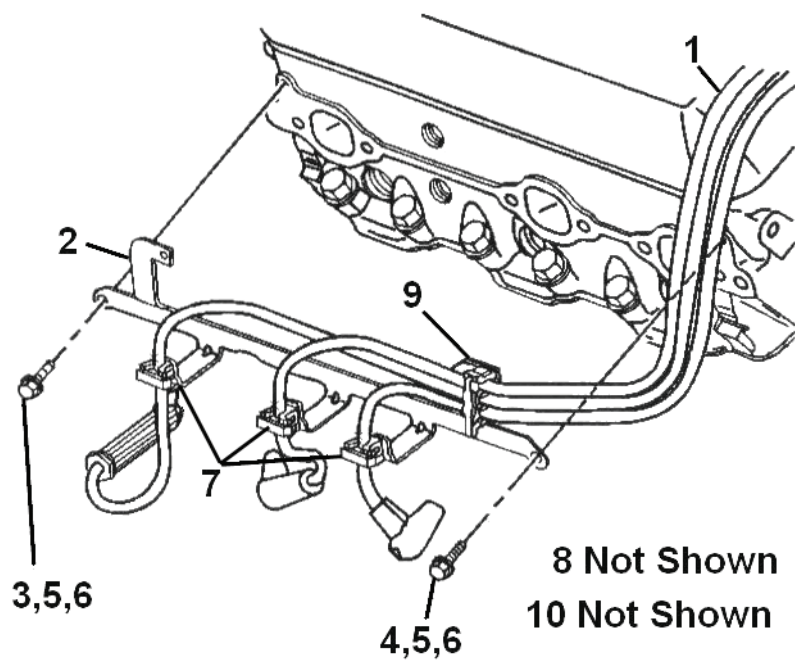


## 4.3L LPG DBC & DBW

### SPECTRUM II



### SPARK PLUG WIRES





4.3L LPG DBC & DBW

SPECTRUM II

### SPARK PLUG WIRES

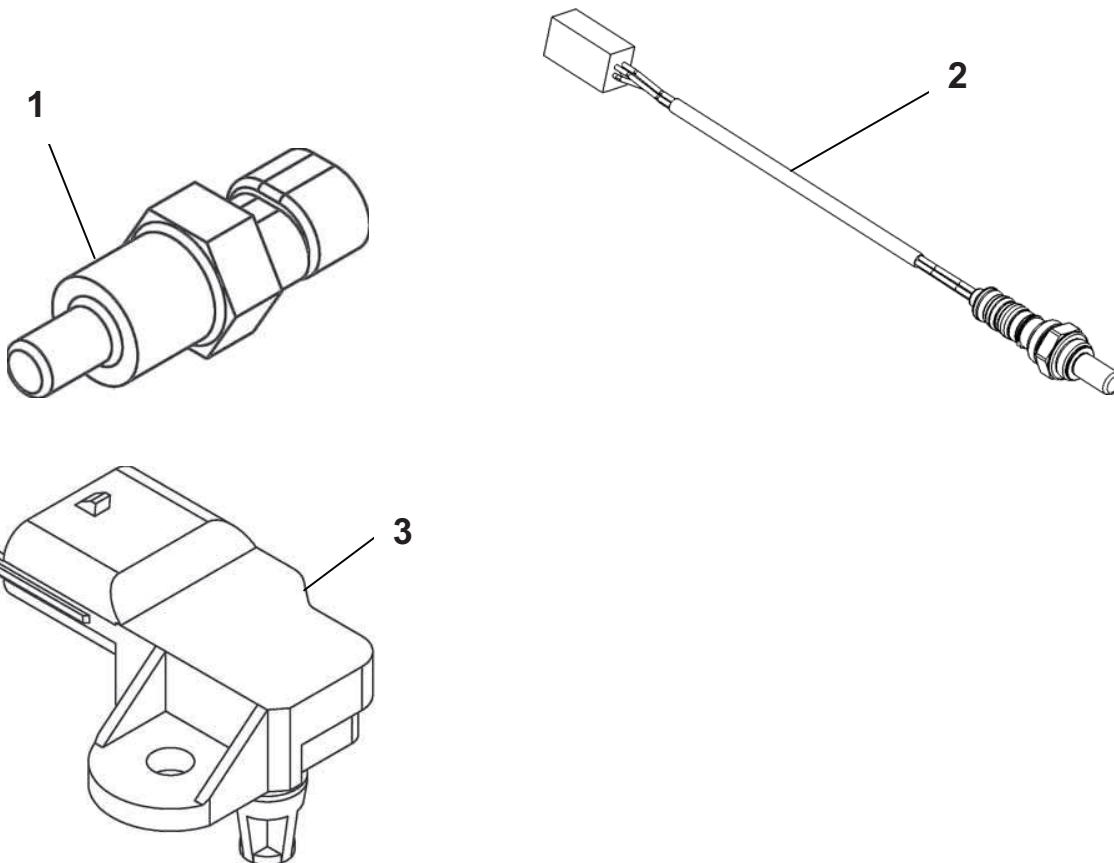
Item #	Description	Qty.	Part Number
1	Harness, Sprk Plug	1	7380650
2	Retainer, Spk Plg Wires	2	7243150
3	Bolt Spk Plkg Rtnr Lng	3	90124050
4	Bolt Spk Plkg Rtnr Shrt	1	90125050
5	Washer Flat, Sprk Plg Rt	4	92100000
6	Washer, Loc Sprk Plg Rt	4	93100000
7	Retainer, Sprk Wire (1)	6	7240040
8	Retainer, Sprk Wire (3)	2	7240080
9	Retainer, Sprk Wire (3) Lock	2	7240070
10	Loom 7243600	AR	7243600

## 4.3L LPG DBC & DBW

### SPECTRUM II



### SENSORS





**4.3L LPG DBC & DBW**

**SPECTRUM II**

## **SENSORS**

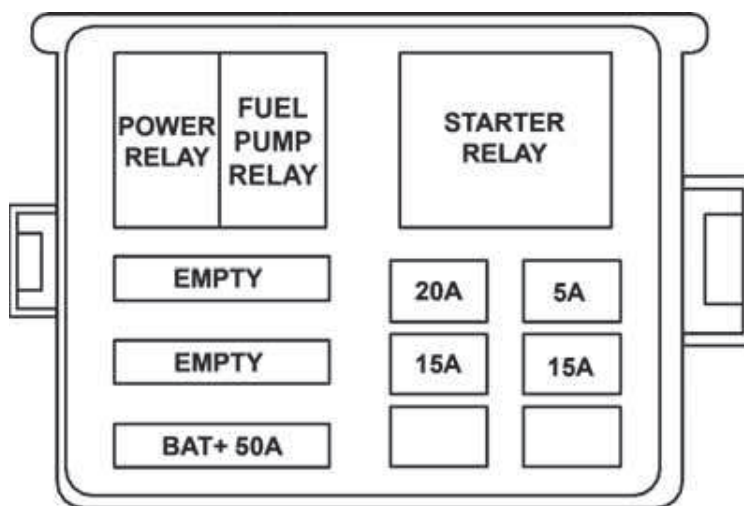
<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Coolant Temp Sensor	1	7144790
2	HEGO, Pre-Catalyst	1	7176400
3	Sensor, TMAP	1	E1466001

## 4.3L LPG DBC & DBW

### SPECTRUM II

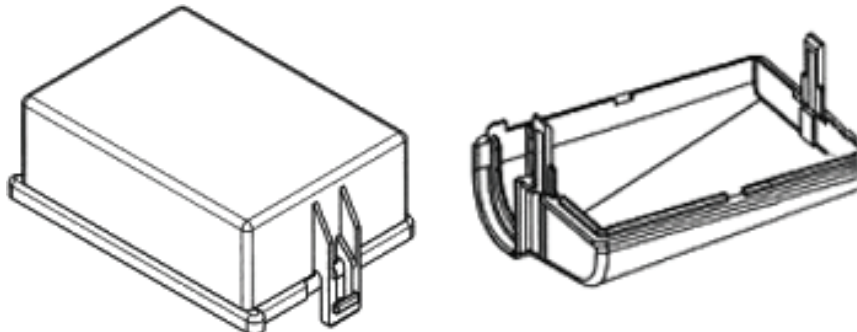


## WIRE HARNESSES/ENGINE ELECTRICAL/FUSE BOX



*Layout may vary depending on application*

### Fuse Box Covers



**WIRE HARNESSSES/ENGINE ELECTRICAL/FUSE BOX**

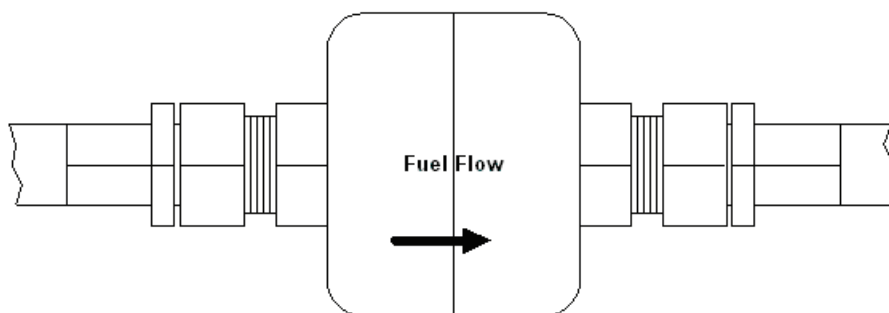
Item #	Description	Qty	Part Number
(Not Shown)	Harness, Engine Electrical	1	E1351040
	Harness, Gas Injector Jumper	1	E1372100
Power Relay	Power Relay	1	7381400
Fuel Pump Relay	Fuel Pump Relay	1	7381400
Starter Relay	Starter Relay	1	7381290
Alternator 50A Fuse	50A Maxi Fuse	1	7381280
5A Fuse	5A Minifuse	1	7380660
20A Fuse	20A Minifuse	1	7381270
15A Fuse	15A Minifuse	1	7381120
Starter Relay	Starter Relay	1	7381270
	Fuse Box Cover (Top) w/o Label	1	E-6131
	Fuse Box Cover (Bottom)	1	E-6132

## 4.3L LPG DBC & DBW

### SPECTRUM II



## FUEL FILTER





**4.3L LPG DBC & DBW**

**SPECTRUM II**

## **FUEL FILTER**

<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Filter, 1/4" X 1/4" NPT LPG Assembly	1	F1-30869-001



**4.3L LPG DBC & DBW**

**SPECTRUM II**



**SERVICE BLOCK**





**4.3L LPG DBC & DBW**

**SPECTRUM II**

**SERVICE BLOCK**

Description	Qty	Part Number
Service Block	1	7043321*

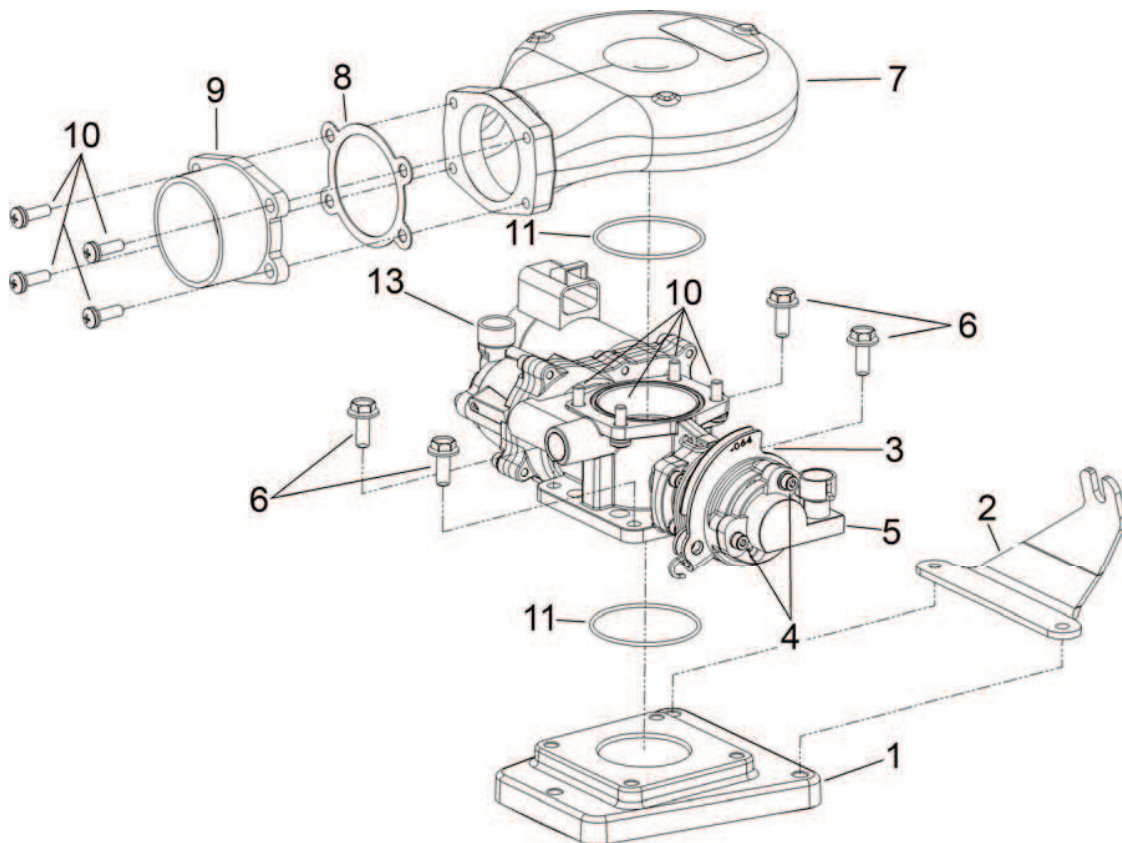
\*Requires that the distributor, ignition coil and other minor bolt-on parts be transferred from the original engine.

## 4.3L GASOLINE DBC

### SPECTRUM II



## DBC GASOLINE THROTTLE BODY ASSEMBLY



**DBC GASOLINE THROTTLE BODY ASSEMBLY**

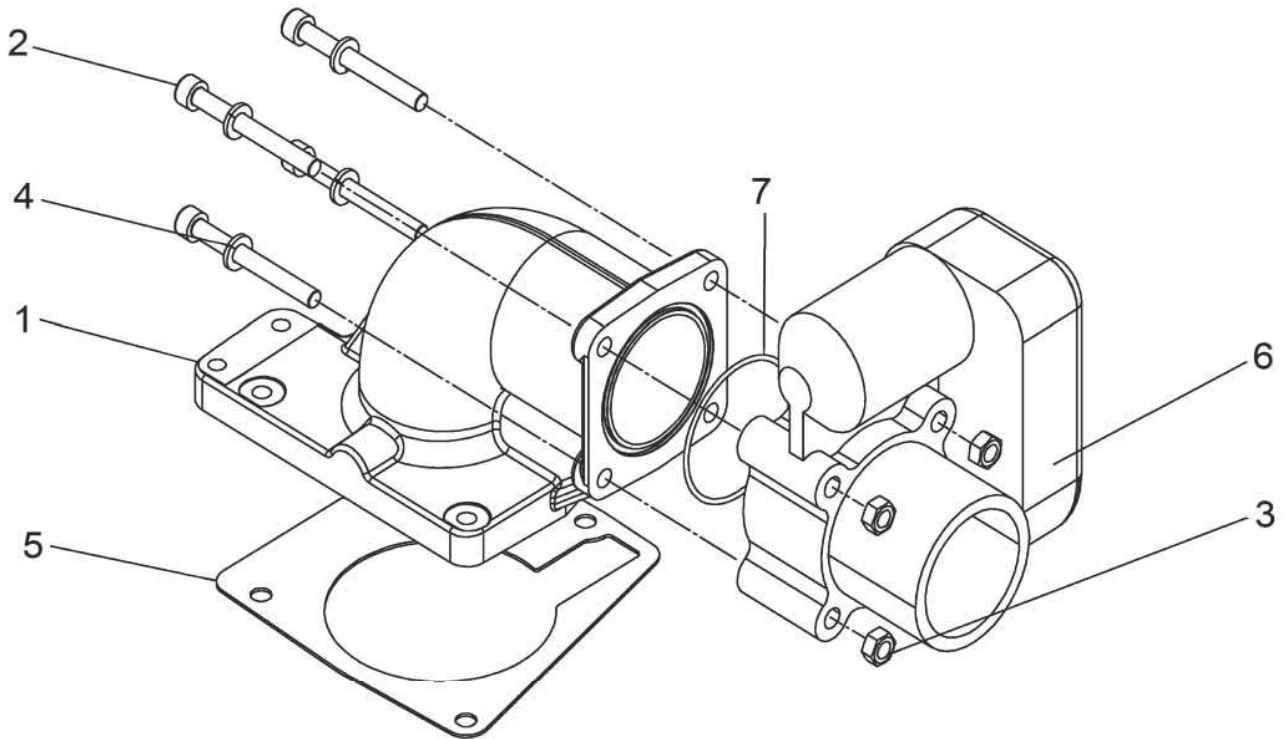
Item #	Description	Qty.	Part Number
1	Adapter, Manifold to throttle body	1	A3-30268-001
2	Bracket Throttle Cable	1	B4-30870-001
3	Assembly, Throttle Body	1	ATGN-30312-38-25-64
4	Screws, FPP Retaining	2	S1-30295-0416
5	Sensor, Foot Pedal Position FPP	1	S8-30237-001
6	Bolt, Throttle Body to Adapter	4	S1-30871-02-0616
7	Bonnet, Throttle Body Assembly	1	A2-30261-001
8	Gasket, Air Inlet to Bonnet	1	G1-11
9	Adapter, Air Inlet	1	A3-29-1
10	Screws, Retaining	8	S1-30047-001
11	O-Ring, Throttle Body Assembly	2	S3-1524-003
12	Gasket, Adapter to Manifold	1	7175260
13	Sensor, Throttle Position		S8-30703

## 4.3L GASOLINE DBC

SPECTRUM II



### DBW GASOLINE THROTTLE BODY ASSEMBLY



**DBW GASOLINE THROTTLE BODY ASSEMBLY**

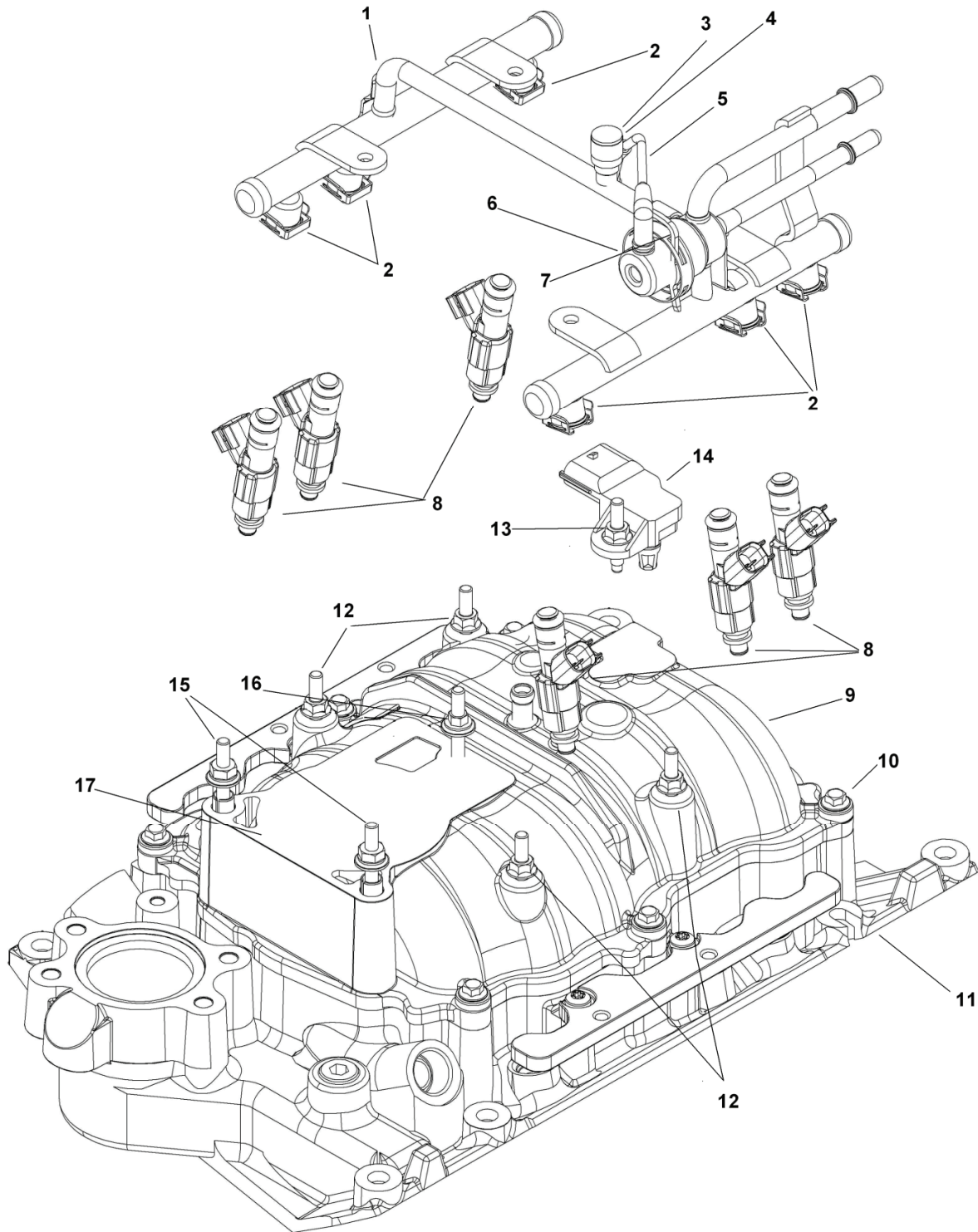
Item #	Description	Qty.	Part Number
1	Adapter, Elbow ETC to Mnfld	1	A3-30977-001
2	Screw, ETC to Adapter	4	S1-30295-0655
3	Nut, Hex ETC Adapter	4	5N-001
4	Washer Lock M6	4	W1-1988-001
5	Gasket Elbow To Mnfld	1	7175260
6	Electronic Throttle Control	1	E1312100
7	O-Ring, ETC to Adapter	1	S3-1524-003

## 4.3L GASOLINE DBC

### SPECTRUM II



## MANIFOLD WITH FUEL RAIL AND INJECTORS



**MANIFOLD WITH FUEL RAIL AND INJECTORS**

Item #	Description	Qty.	Part Number
1	Assembly, Fuel Rail	1	7176550
2	Clip, Injector Retainer	6	7176470
3	Cap, Fuel Pressure Test	1	7176480
4	Valve, Pressure Test	1	7176560
5	Hose, Fuel Press. Reg.	1	7176520
6	Regulator Fuel Press.	1	7176500
7	Retainer, Clip Reg.	1	7176470
8	Injector, Gasoline	6	7176490
9	Manifold, Upper	1	7152110
10	Bolts, Manifold upper	7	7150960
11	Manifold, Lower	1	7152100
12	Studs, Fuel Rail	4	7176460
13	Bolt, TMAP	1	7176540
14	Sensor, TMAP	1	7176510
15	Bolt, Throttle Body Front	2	7152070
16	Bolt, Throttle Body Rear	1	7152080
17	Gasket, Upper to Lower Manifold	1	7152090
18	Plug, EGR	1	7152010
<b>ITEMS</b>	<b>NOT SHOWN</b>		
	Fitting, 90 Brk Boost	1	417-03
	Cap, Rbr, Intk Manfl Rr	1	45342
	Fitting, Str Brk Boost	1	7144350

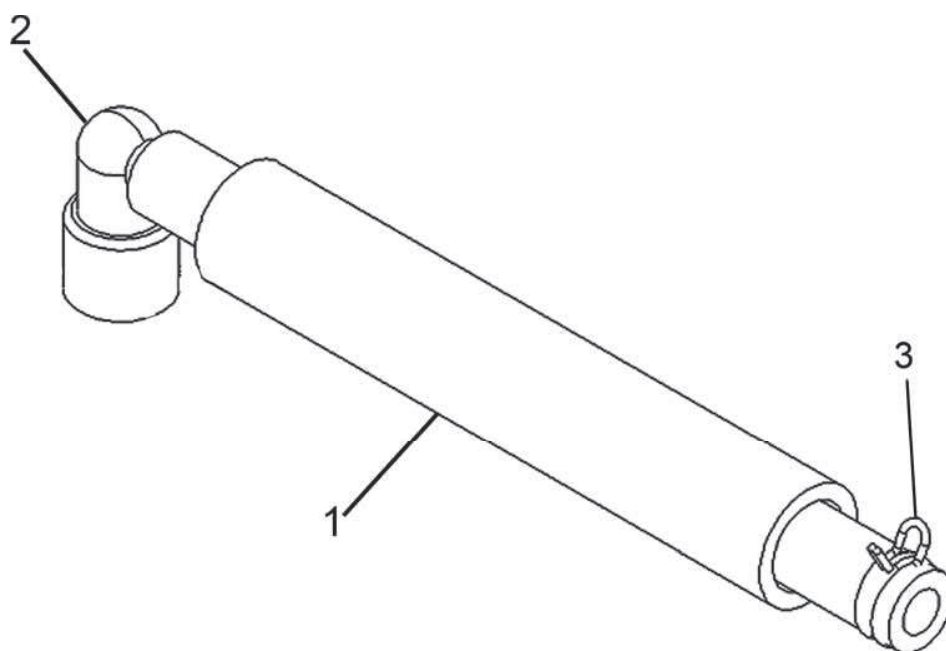


## 4.3L GASOLINE DBC

SPECTRUM II



### PCV HOSE ASSEMBLY





## 4.3L GASOLINE DBC

### SPECTRUM II

#### PCV HOSE ASSEMBLY

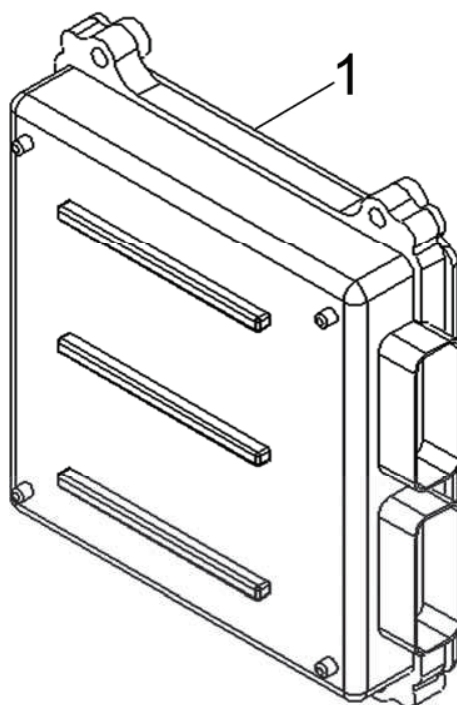
Item #	Description	Qty.	Part Number
1	Hose Assembly, PCV DBW	1	AH1-30853-019
	Hose Assembly, PCV DBC	1	AH1-30853-020
2	Valve, PCV	1	V3-30855-789
3	Clamp Hose PCV	1	C2-16664-1
Not Shown	PCV Adapter (2005)	1	F4-30912-001

## 4.3L GASOLINE DBC

### SPECTRUM II



### ENGINE CONTROL UNIT





**4.3L GASOLINE DBC**

**SPECTRUM II**

**ENGINE CONTROL UNIT**

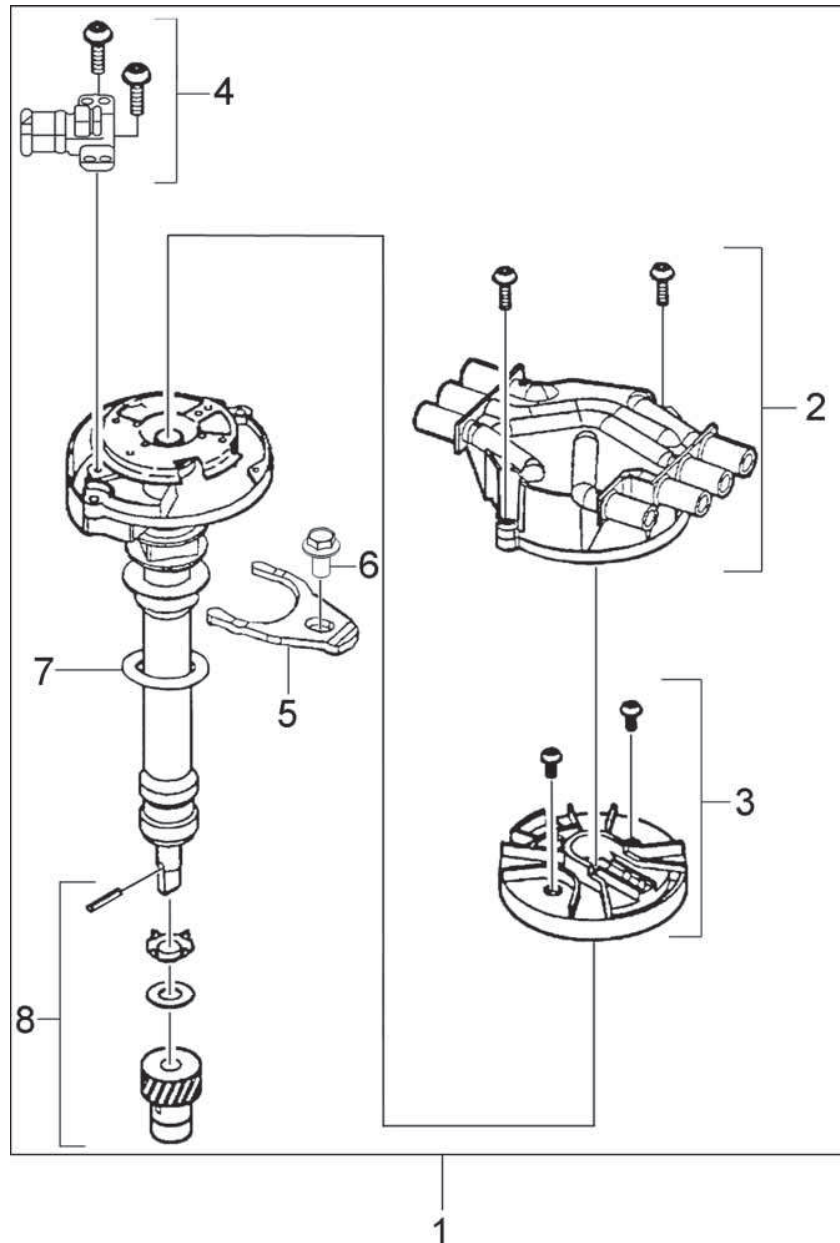
Item #	Description	Qty.	Part Number
1	Module, Engine Control (Blank w/o Calibration)	1	E1411001

## 4.3L GASOLINE DBC

### SPECTRUM II



## DISTRIBUTOR





## 4.3L GASOLINE DBC

### SPECTRUM II

#### DISTRIBUTOR

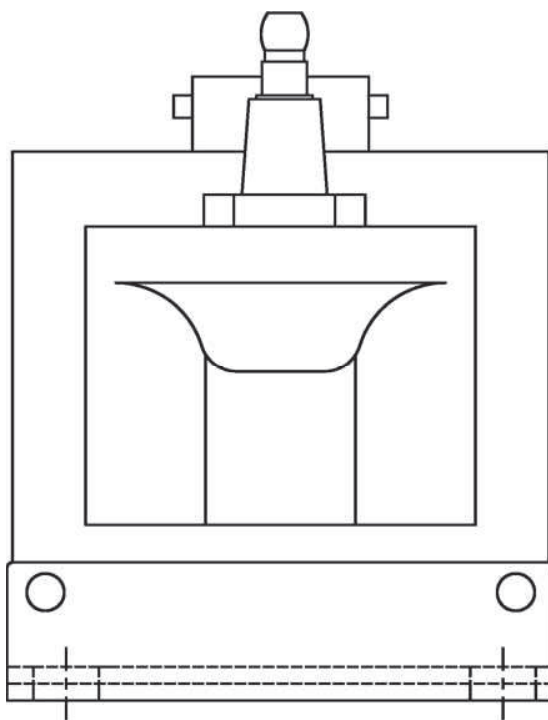
Item #	Description	Qty	GM Part Number	IMPCO Part Number
1	Distributor Assy (Complete-includes 2-9 below)	1	12598210	7245220
2	Cap, Distributor (Includes Screws)	1	10452458	7245223
3	Rotor, Distributor (Includes Screws)	1	10452457	7245224
4	Camshaft Sensor (Includes Screws for Cam Sensor, Cap and Rotor)	1	10485432	7245370
5	Clamp, Distributor	1	33000546	7245430
6	Distributor Hold-down Bolt	1	35000198	S1-30871-01-0825
7	Gasket, Distributor	1	10108445	7240320
8	Gear, Distributor Kit	1	10457356	7245340

## 4.3L GASOLINE DBC

### SPECTRUM II



### IGNITION COIL





**4.3L GASOLINE DBC**

**SPECTRUM II**

### **IGNITION COIL**

<b>Item#</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Ignition Coil	1	7242210

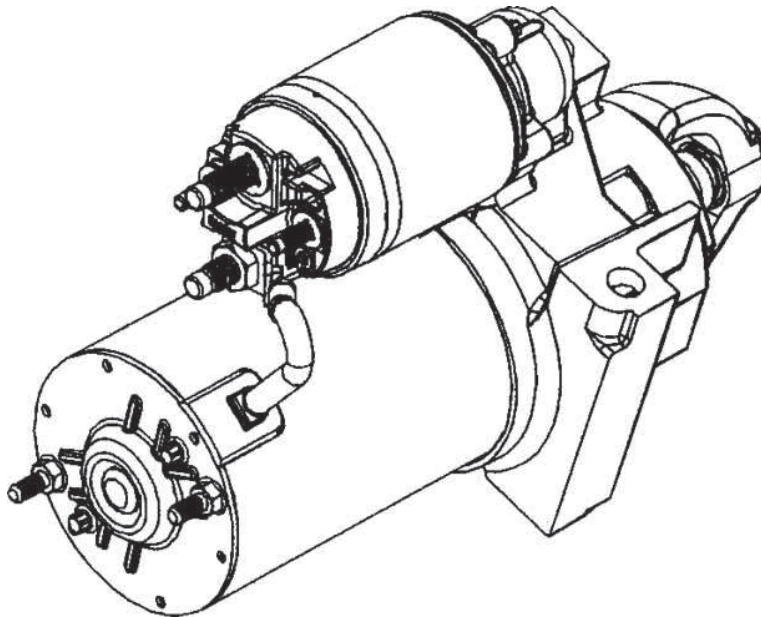


## 4.3L GASOLINE DBC

### SPECTRUM II



### STARTER





**4.3L GASOLINE DBC**

**SPECTRUM II**

**STARTER**

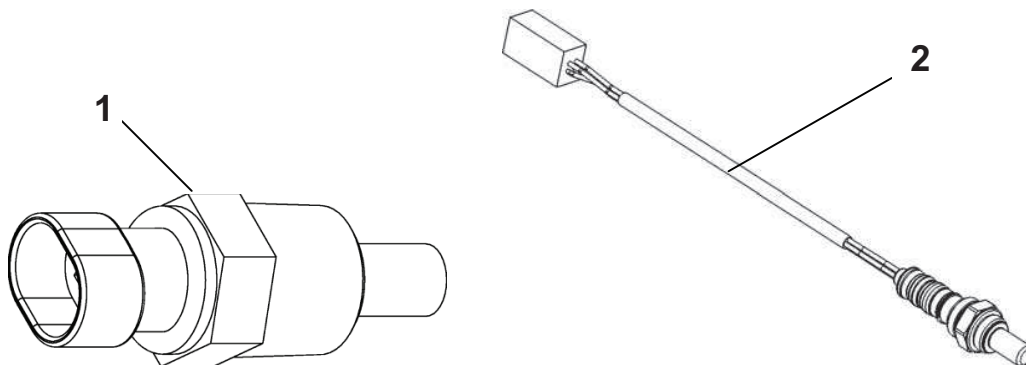
Item #	Description	Qty	IMPCO Part Number
1	Starter	1	7244520

## 4.3L GASOLINE DBC

### SPECTRUM II



### SENSORS





**4.3L GASOLINE DBC**

**SPECTRUM II**

## **SENSORS**

<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>Part Number</b>
1	Coolant Temp Sensor	1	7144790
2	HEGO, Pre-Catalyst	1	7176400

## 4.3L GASOLINE DBC

SPECTRUM II



### WIRE HARNESS ENGINE ELECTRICAL





**4.3L GASOLINE DBC**

**SPECTRUM II**

**WIRE HARNESS ENGINE ELECTRICAL**

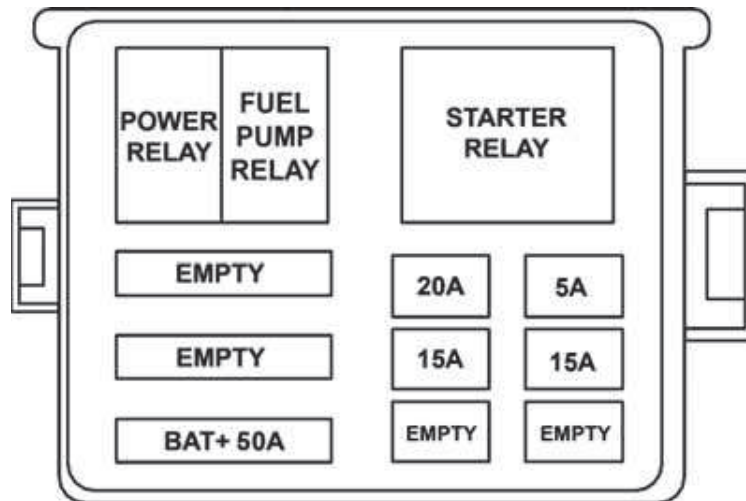
Item #	Description	Qty.	Part Number
1	Harness, Engine Electrical DBW	1	E1351040
	Harness, Engine Electrical DBC	1	E1351020

## 4.3L GASOLINE DBC

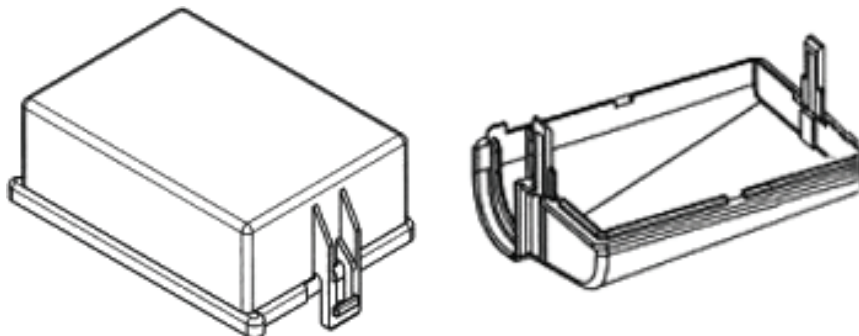
### SPECTRUM II



## ELECTRICAL/FUSE BOX



## Fuse Box Covers



**ELECTRICAL/FUSE BOX**

Item #	Description	Qty	IMPCO Part Number
Power Relay	Power Relay	1	885014
Starter Relay	Starter Relay	1	792185
Alternator 50A Fuse	50A Maxi Fuse	1	7381280
5A Fuse	5A Minifuse	1	7380660
20A Fuse	20A Minifuse	1	7381270
15A Fuse	15A Minifuse	1	7381120
15A Fuse	15A Minifuse	1	7381120
	Fuse Box Cover (Top) w/Label	1	E-6131-1
	Fuse Box Cover (Top) w/o Label	1	E-6131
	Fuse Box Cover (Bottom)	1	E-6132

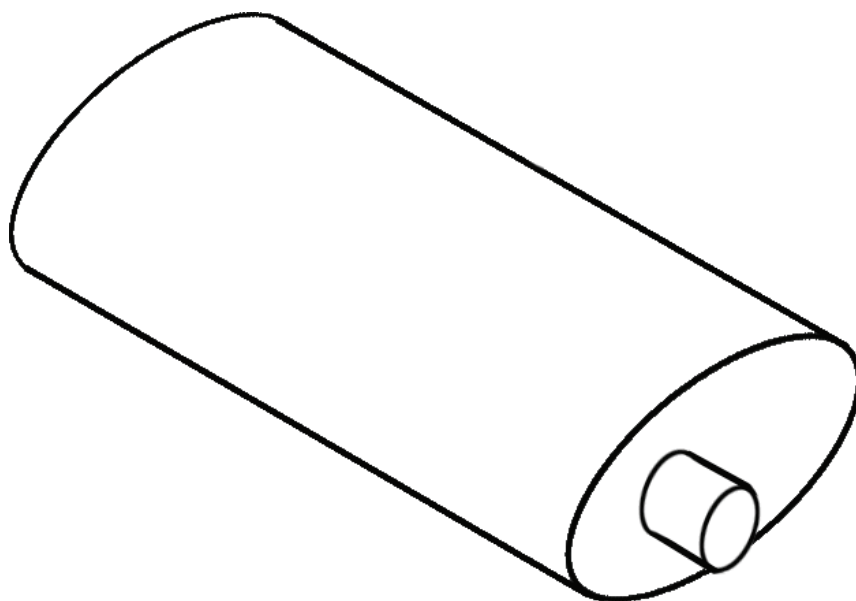


**4.3L GASOLINE DBC**

**SPECTRUM II**



**THREE WAY CATALYTIC MUFFLER**





**4.3L GASOLINE DBC**

**SPECTRUM II**

**THREE WAY CATALYTIC MUFFLER**

Item #	Description	Qty.	Part Number
1	Muffler, Three Catalytic Gasoline, Laser	1	7332320
	Muffler, Three Catalytic Gasoline, Odyssey	1	7332330
	Muffler, Three Catalytic Gasoline, H Series	1	7332340
	Muffler, Three Catalytic Gasoline, S Series	1	7332350

## 4.3L GASOLINE DBC

### SPECTRUM II



## SERVICE BLOCK





**4.3L GASOLINE DBC**

**SPECTRUM II**

**SERVICE BLOCK**

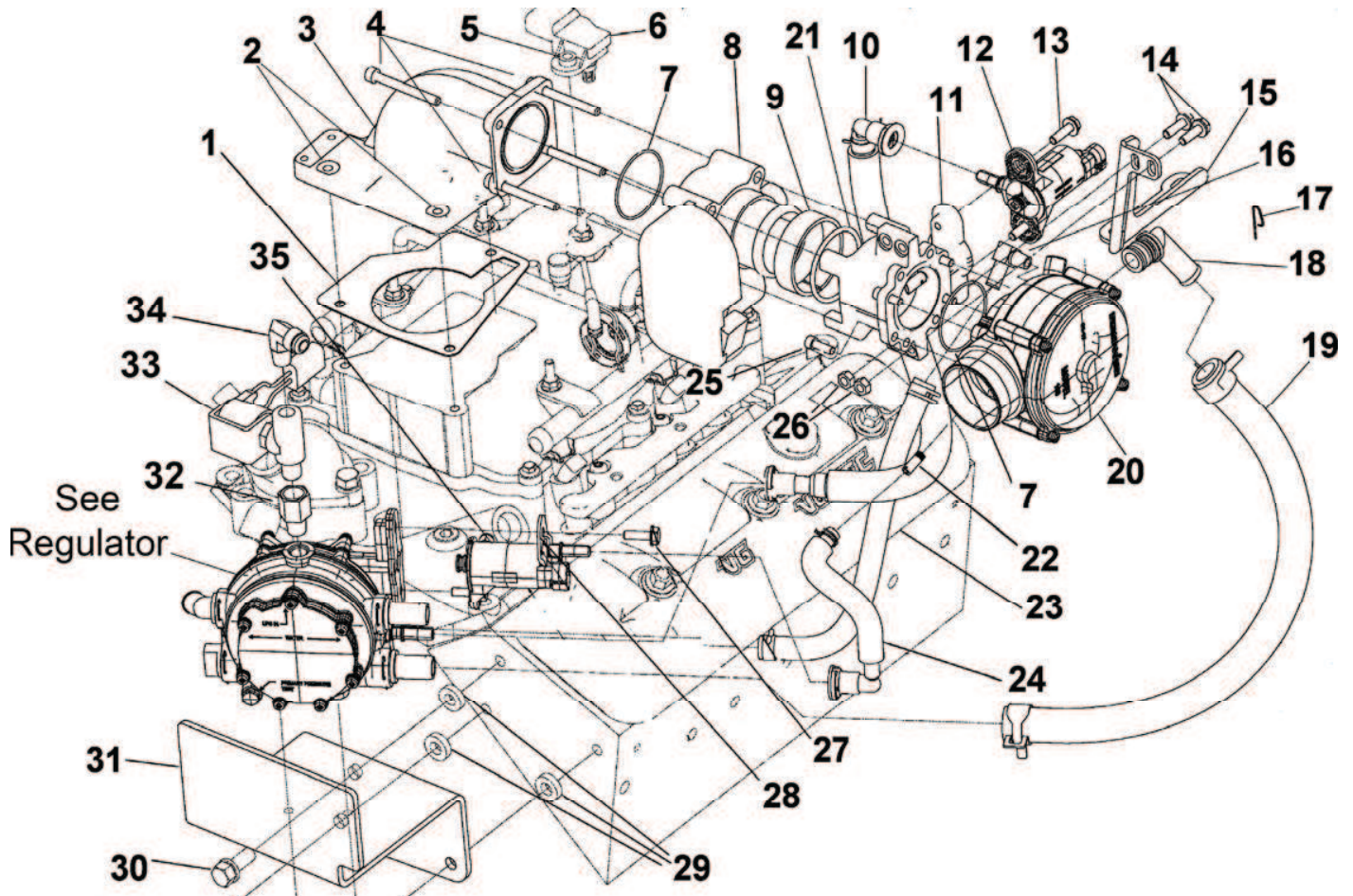
Description	Qty	IMPCO Part Number
Service Block	1	7043321

\*Requires that the distributor, ignition coil and other minor bolt-on parts be transferred from the original engine

## SPECTRUM II



## THROTTLE BODY ASSEMBLY



**THROTTLE BODY ASSEMBLY**

Item Number	Description	Qty.	Part Number
1	Gasket Throttle Body	1	7175260
2	Adapter, Mnfld TO ETC	1	A3-30977-001
3	Bolt, Adapter to Mnfld Frnt	2	7152070
3A	Bolt, Adapter to Mnfld Rr	1	7152080
4	Bolt, Adpter To ETC	4	S1-30295-0655
5	Bolt, TMAP	1	7176540
6	Sensor, TMAP	1	7176510
7	O-ring Seals	2	S3-1524-003
8	Throttle, Control Electronic	1	E1312100
9	Sleeve, Seal ETC	1	S6-30976-001
10	Hose Assm, FTV Sply	1	AH1-30852-004
11	Adapter FTV Mounting	1	AA3-30952-001
12	Valve, Fuel Trim	1	V3-30270-277
13	Bolt, FTV Mnt	2	S1-30283-0620
14	Bolt, FTV Suppot Bracket	2	S1-30871-02-0620
15	Bracket FTV Mnt Supt	1	B4-30981-001
16	Fitting Elbow Bal Lne	1	F4-12
17	Pin, Retainer Ftg Mix Inlt	1	P1-30559
18	Fitting, Mixer Inlt	1	AF4-30614
19	Hose Assmebly, Mix Inlt	1	AH1-30853-016
20	Mixer Assem FT 100	1	FT100M-30828-52-001
21	O-ring Seal Mix		S3-1524-004
22	Fitting, Mix to PTV Line	1	F4-2
23	Hose Assm. Bal Lne	1	AH1-30853-001
24	Hose Assm PTV Suply	1	AH1-30852-009
25	Screw, Mix Mnt	4	S1-31083-1224-075
26	Nut, FTV Mnt Adpt Blt	2	5N-001
27	Bolt, PTV Mnt	2	S1-30283-0620
28	Clamp PTV Mnt	1	C2-30267-001
29	Washer Lock 3/8	3	93300000
30	Bolt, LPR Mnt Brkt	3	S1-30283-0620
31	Bracket, LPR Mnt	1	B4-30985-001
32	Regulator, Low Pressure	1	CS4-30772-004
33	Fitting, Adpter LPL to LPR	1	F4-30953-001
34	Lock Off Electric, Low Pressure	1	ET98-30515-001
35	Fitting LPL Inlet	1	F4-25
36	Valve, Pressure Trim	1	V3-30272-279

## 4.3L DUAL FUEL

### SPECTRUM II



#### ITEMS NOT SHOWN IN ILLUSTRATION

Description	Qty.	Part Number
Hose, Assembly Coolant	1	AH1-30853-021
Hose, Assembly Coolant	1	AH1-30853-007
Cap Vinyl Black	1	C2-15137-004
Bolt, LPR Brkt to Eng	3	90325100
Washer, Blt LPR Brkt	3	93300000
Fitting, Reg. Clnt	1	3H-405B
Clamp P, Coolant Line	1	7030060
Nut, ¼ 20, Coolant line Sprt	1	95100000
Washer, coolant line Sprt	1	93100000
Retainer, Coolant Wire	1	7240070
Bolt, FTV Sprt Brkt To Manfld	2	98222015
Washer, Sprt Brkt to Mnfld	2	93920000
Fitting, Mnfld To Brake Booster	1	417-03
Fitting, Brake Booster	1	7144350



4.3L DUAL FUEL

SPECTRUM II

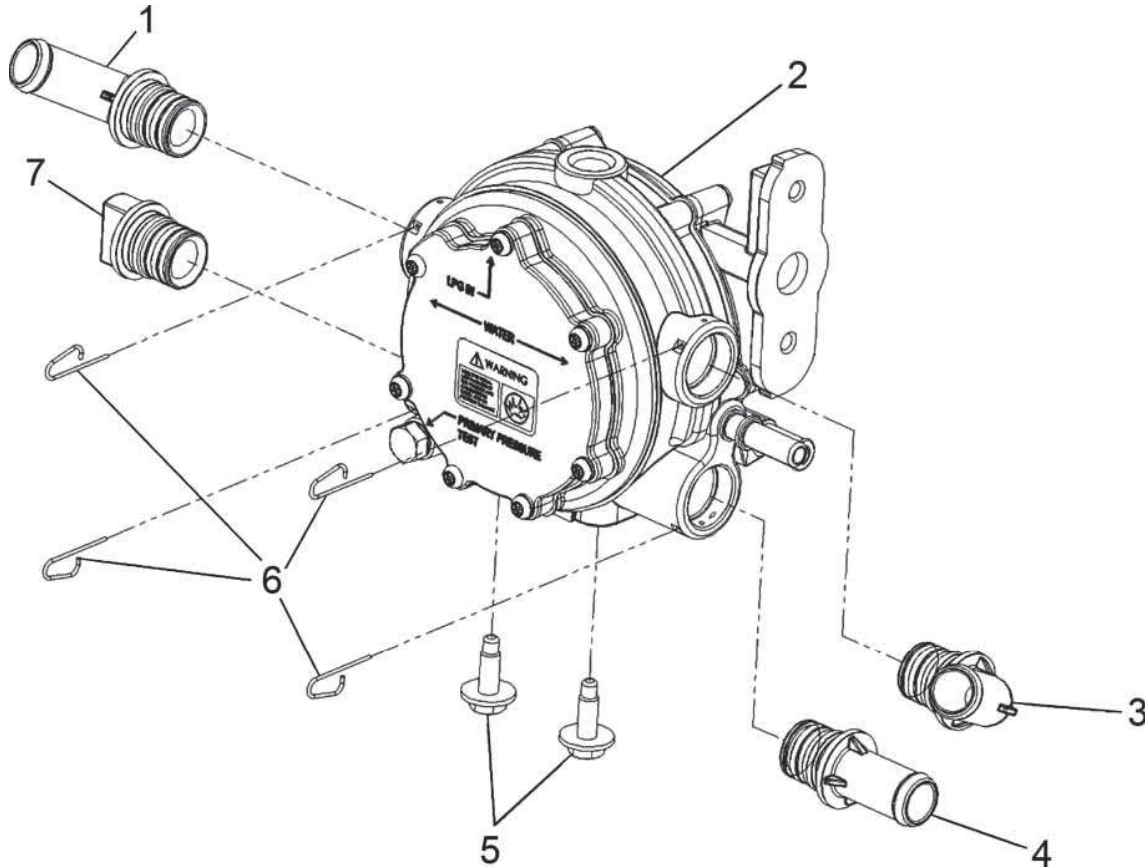


## 4.3L DUAL FUEL

### SPECTRUM II



## LPG REGULATOR ASSEMBLY





**4.3L DUAL FUEL**

**SPECTRUM II**

### **LPG REGULATOR ASSEMBLY**

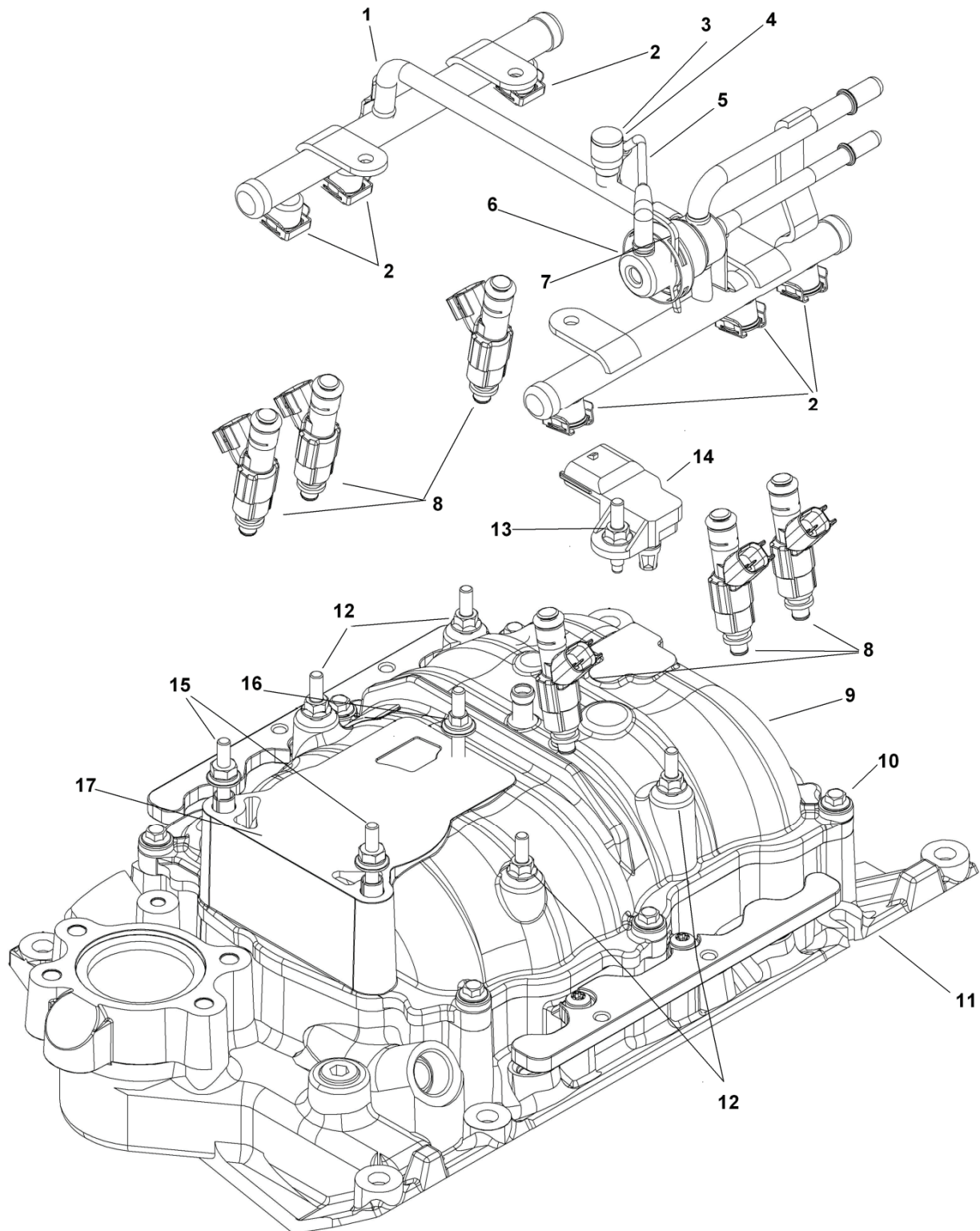
<b>Item #</b>	<b>Description</b>	<b>Qty.</b>	<b>IMPCO Part Number</b>
1	Fitting, Coolant	1	AF4-50045-001
2	Assembly Regulator	1	CS4-30772-004
3	Fitting, Coolant 5/8" 70 Degree	1	AF4-30614
4	Fitting Vapor Outlet	1	AF4-30615
5	Bolts, Mounting	2	S1-30283-0620
6	Pin, Retaining	4	P1-30559
7	Cap, Regulator	1	AF4-30613

## 4.3L DUAL FUEL

### SPECTRUM II



## MANIFOLD WITH FUEL RAIL AND INJECTORS



**MANIFOLD WITH FUEL RAIL AND INJECTORS**

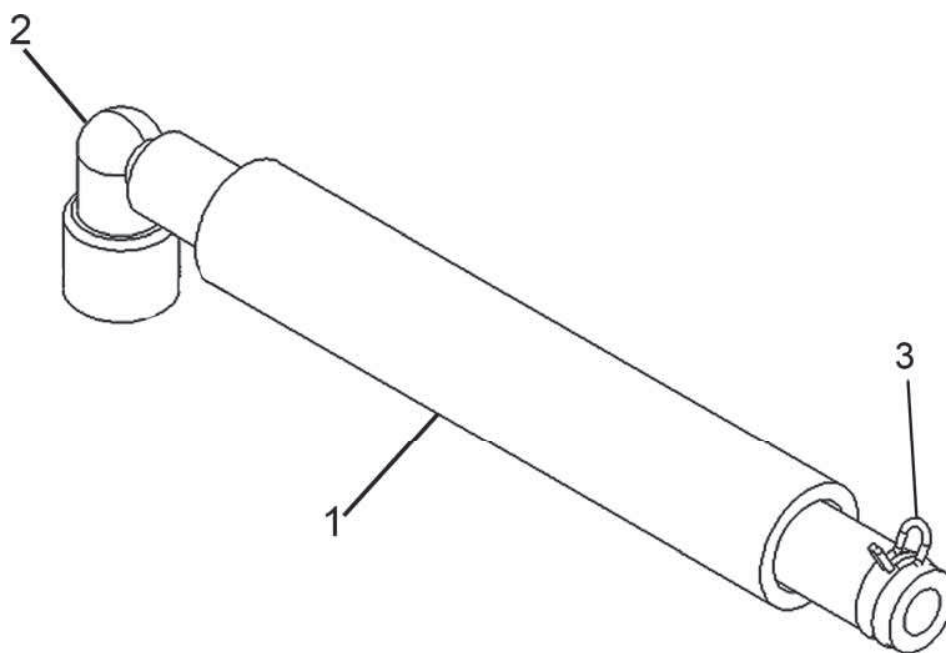
Item #	Description	Qty.	Part Number
1	Assembly, Fuel Rail	1	7176550
2	Clip, Injector Retainer	6	7176470
3	Cap, Fuel Pressure Test	1	7176480
4	Valve, Pressure Test	1	7176560
5	Hose, Fuel Press. Reg.	1	7176520
6	Regulator Fuel Press.	1	7176500
7	Retainer, Clip Reg.	1	7176470
8	Injector, Gasoline	6	7176490
9	Manifold, Upper	1	7152110
10	Bolts, Manifold upper	7	7150960
11	Manifold, Lower	1	7152100
12	Studs, Fuel Rail	4	7176460
13	Bolt, TMAP	1	7176540
14	Sensor, TMAP	1	7176510
15	Bolt, Throttle Body Front	2	7152070
16	Bolt, Throttle Body Rear	1	7152080
17	Gasket, Upper to Lower Manifold	1	7152090
18	Plug, EGR	1	7152010
Not Shown	Fitting, 90 Brk Boost	1	417-03
Not Shown	Cap, Rbr, Intk Manfl Rr	1	45342
Not Shown	Fitting, Str Brk Boost	1	7144350

## 4.3L DUAL FUEL

### SPECTRUM II



### PCV HOSE ASSEMBLY





**4.3L DUAL FUEL**

**SPECTRUM II**

**PCV HOSE ASSEMBLY**

Item #	Description	Qty.	Part Number
1	Hose Assembly, PCV DBW	1	AH1-30853-019
2	Valve, PCV	1	V3-30855-789
3	Clamp Hose PCV	1	C2-16664-1
Not Shown	PCV Adapter (2005)	1	F4-30912-001
Not Shown	Elbow Crnk Vent	1	7174480