



Parts Manual

Onan Generator Set for RV

HGLCA (Spec A)

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Safety Precautions

The following symbols are used in Cummins manuals to alert users to the potentially dangerous conditions relating to maintenance of equipment and replacement of parts. Please read and observe.



This symbol warns of immediate hazards which will result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



This symbol refers to a hazard or unsafe practice which can result in severe personal injury or product or property damage.

Product Safety Precautions

Before operating the generator set, read the manuals and become familiar with them and the equipment. Safe and efficient operation can be achieved only if the equipment is properly operated and maintained. Many accidents are caused by failure to follow fundamental rules and precautions.



Note:

It is in the Operator's interest to read and understand all Health and Safety information together with all Warnings and Cautions contained within the documentation relevant to the generator set, its operation and daily maintenance.



Improper operation and maintenance can lead to severe personal injury or loss of life and property by fire, electrocution, mechanical breakdown or exhaust gas asphyxiation. Read and follow all safety precautions in the health and safety manual 0908–0110.



Service and repair of Cummins equipment must be performed by trained, experienced personnel only. Improper service, repair or replacement of parts may result in damage to equipment & property, severe personal injury or death. Do not use this catalog as a guide to servicing your equipment. Read and follow the IMPORTANT SAFETY INSTRUCTIONS in the Service Manual appropriate for the equipment you are working on.



Contact with USED ENGINE OILS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking or changing engine oils take all necessary precautions not to ingest, breathe the fumes or contact the used oil.



Contact with ASBESTOS has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When handling engine gaskets take all necessary precautions not to ingest, breathe or contact the dust from the gaskets! Use adequate ventilation and wear protective gloves, masks and clothing!



Contact with BENZINE and LEAD, found in gasoline, fuel additives and solvents has been identified by a United States federal agency and some USA state agencies as causing CANCER or REPRODUCTIVE TOXICITY. When checking, draining or adding gasoline and fuel additives or using solvents take all necessary precautions not to ingest, breathe the fumes or contact the liquids. Use adequate ventilation and wear protective gloves, masks and protective clothing!

Generator Set Model Identification

This manual covers generator set models produced under the Cummins brand name.

To avoid errors or delay in filling your parts order, always state the MODEL and SERIAL NUMBER from the Cummins nameplate.

		IMPORTANT EMISSIONS CONTROL INFORMATION CUMMINS POWER GENERATION 1400 73rd Ave. NE Minneapolis, MN 55432 Made in 	
		89-2485	
Model 		1400-888-8888 89-2485	

The engine serial number is located on a data tag on the engine or is stamped on the engine block.

For reference document your generator set information in the spaces below.

Generator Set Model Number: _____

Generator Set Serial Number: _____

Generator Spec Letter: _____

Engine Serial Number: _____

Digital Control Software: _____

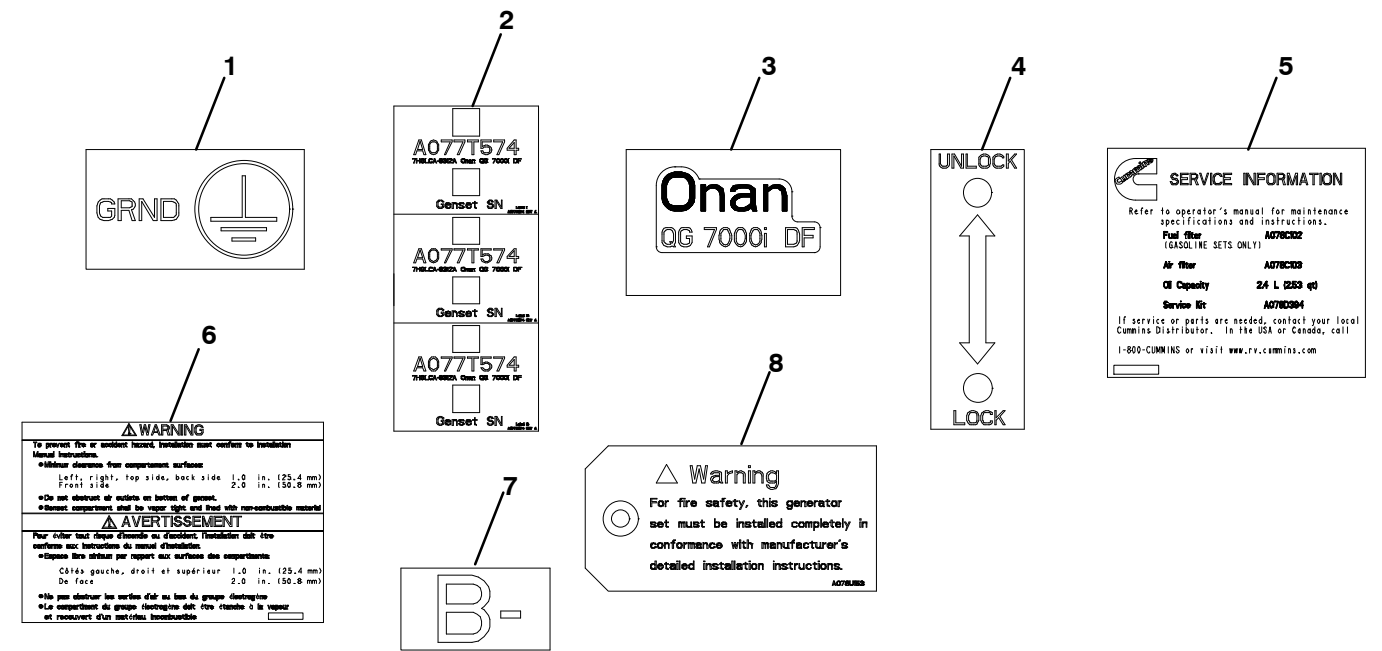
Abbreviations

Some of the following abbreviations may be used throughout this Parts Manual:

AC	Alternating Current	LED	Light-Emitting Diode
ACB	Air Circuit Breaker	LTP	Limited Time Power Rating
ACH	Anti-Condensations Heaters	LTA	Low Temperature Aftercooling
ATS	Automatic Transfer Switch	LV	Low Voltage
Amp	Ampere	M	Meter
A/R	As Required	MCB	Miniature Circuit Breaker
AVR	Automatic Voltage Regulator	MCCB	Moulded Case Circuit Breaker
AWG	American Wire Gauge	MF	Mains Failed
BHP	Brake Horsepower	MFSS	Master First Start Sensor
BMS	Building Measurement System	mm	Millimeter
BST	Busbar Sensing Transformer	MOH	Mobile Off Highway
CAN	Controlled Area Network	MR	Mains Returned
CB	Circuit Breaker	MST	Mains Sensing Transformer
CCA	Cold Cranking Amps	MSU	Mains Sensing Unit
CHP	Combined Heat and Power	MV	Medium Voltage
COP	Continuous Power Rating	NEC	Neutral Earthing Contact
CT	Current Transformer	NFS	Not For Sale
		NPT	National Pipe Thread
dB(A)	Unit of noise level	OD	Outside Diameter
DC	Direct Current	oz.	Ounce
Deg	Degree	PC	PowerCommand 3.3
DIP	Dual In-line Package	PC	Printed Circuit
DMC	Digital Master Control	PF	Power Factor
DMSU	Demand Load Standby Unit	Ph	Phase
ECM	Engine Control Module	PFC	Power Factor Controller
EFC	Electronic Fuel Control	PLC	Programmable Logic Controller
EIT	External/Internal Tooth	PMG	Permanent Magnet Generator
EMCU	Engine Monitoring and Control Unit	PRP	Prime Power Rating
EMF	Electromotive Force	PSU	Power Supply Unit
EPROM	Erasable Programmable Read Only Memory	PT/CT	Potential Transformer/Current Transformer
EPU	Engine Protection Unit	PTC	Power Transfer Control
ET	External Tooth	QCC	Quadrature Current Control
FAE	Full Authority Engine	RFI	Radio Frequency Interference
FSS	First Start Sensor	RMS	Root Mean Square
GCP	Generator Control Panel	RPM	Revolutions Per Minute
GFI	Ground Fault Interrupter	RT	Right
GKWT	Global Kilowatt Transducer	RTD	Resistance Temperature Detector
HMI	Human/Machine Interface	Spec	Specification
HV	High Voltage	Thk	Thick
IC	Integrated Circuit	UL	Underwriters Laboratories Inc.
ID	Inside Diameter	UNC	Union National Coarse
IEC	International Electrotechnical Commission	UNF	Union National Fine
I/O	Input / Output	V	Volts
IT	Internal Tooth	VAC	Volts, Alternating Current
kVA	Apparent Power	VCB	Vacuum Circuit Breaker
kVAR	Reactive Power	VDC	Volts, Direct Current
kW	Active / Real Power (Kilowatt)	VF	Volt-free
kWh	Unit of electrical energy or work	VT	Voltage Transformer
LPG	Liquid Petroleum Gas	W/(ET, IT, EIT)	With
LT	Left		

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Labels



Item	Part No.	Description	Qty
1	A078H071	Label, Information	A/R
2	A077Z974	Label, QR	A/R
3	A078R672	Label	A/R
4	A078H080	Label	A/R
5	A078D259	Label, Information	A/R
6	A078D409	Label, Warning	A/R
7	A078H078	Label	A/R
8	A078U153	Label, Warning	A/R

Consumables

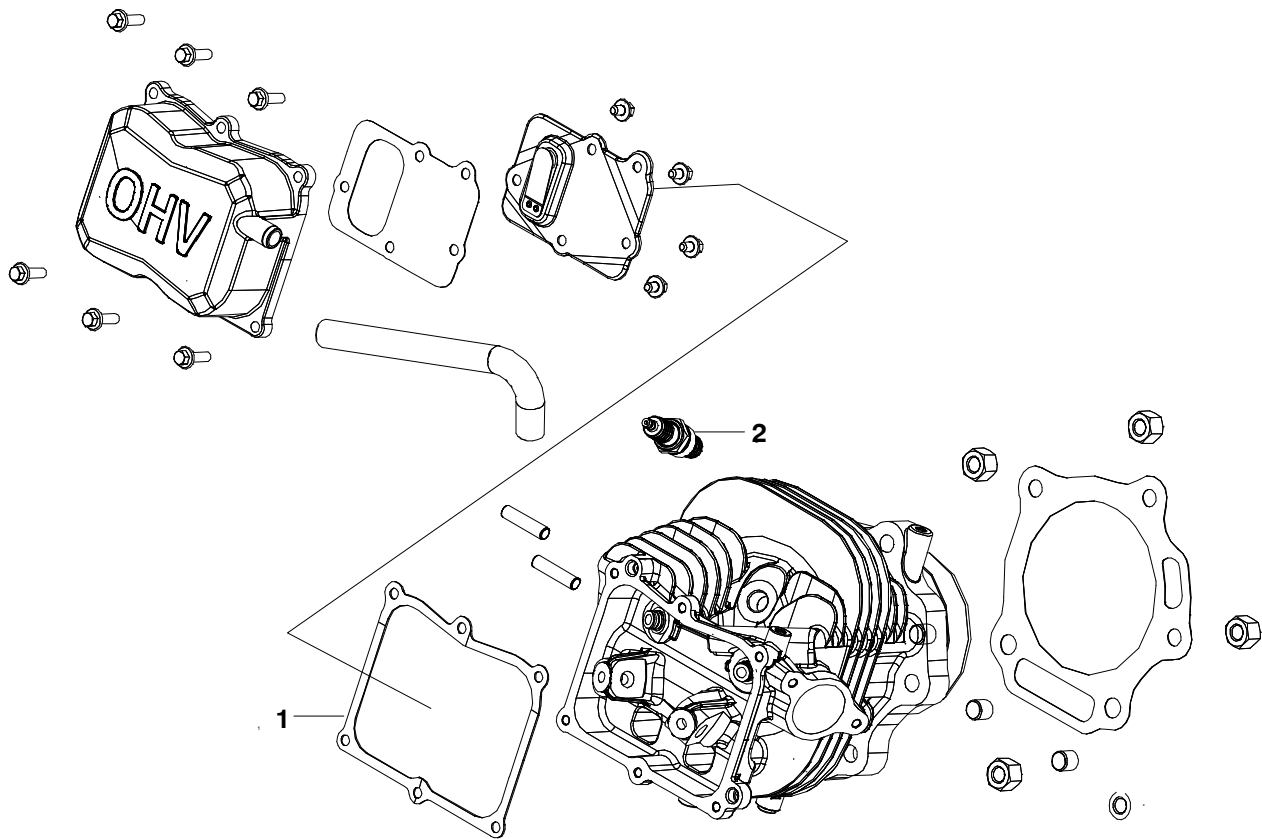
The following is a list of consumables associated with the generator models covered in this manual:

Service Consumables

Part No.	Description
A078C102	Filter, Fuel
A078C103	Filter, Air
A078F470	Plug, Spark

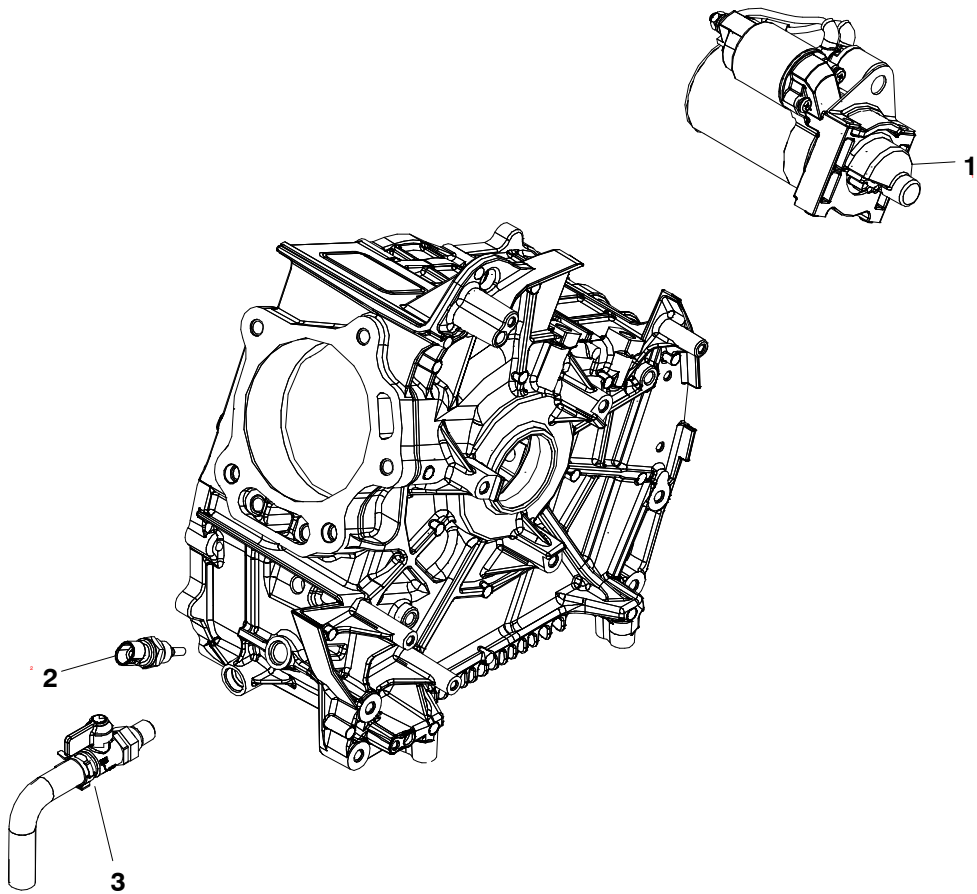
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Cylinder Head



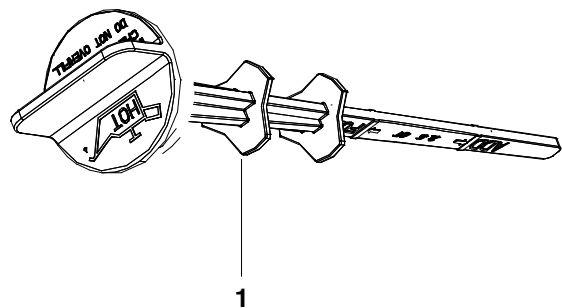
Item	Part No.	Description	Qty
1	A078F188	Gasket, Cylinder Head Cover	1
2	A078F470	Plug, Spark – F7RTC	1

Crankcase



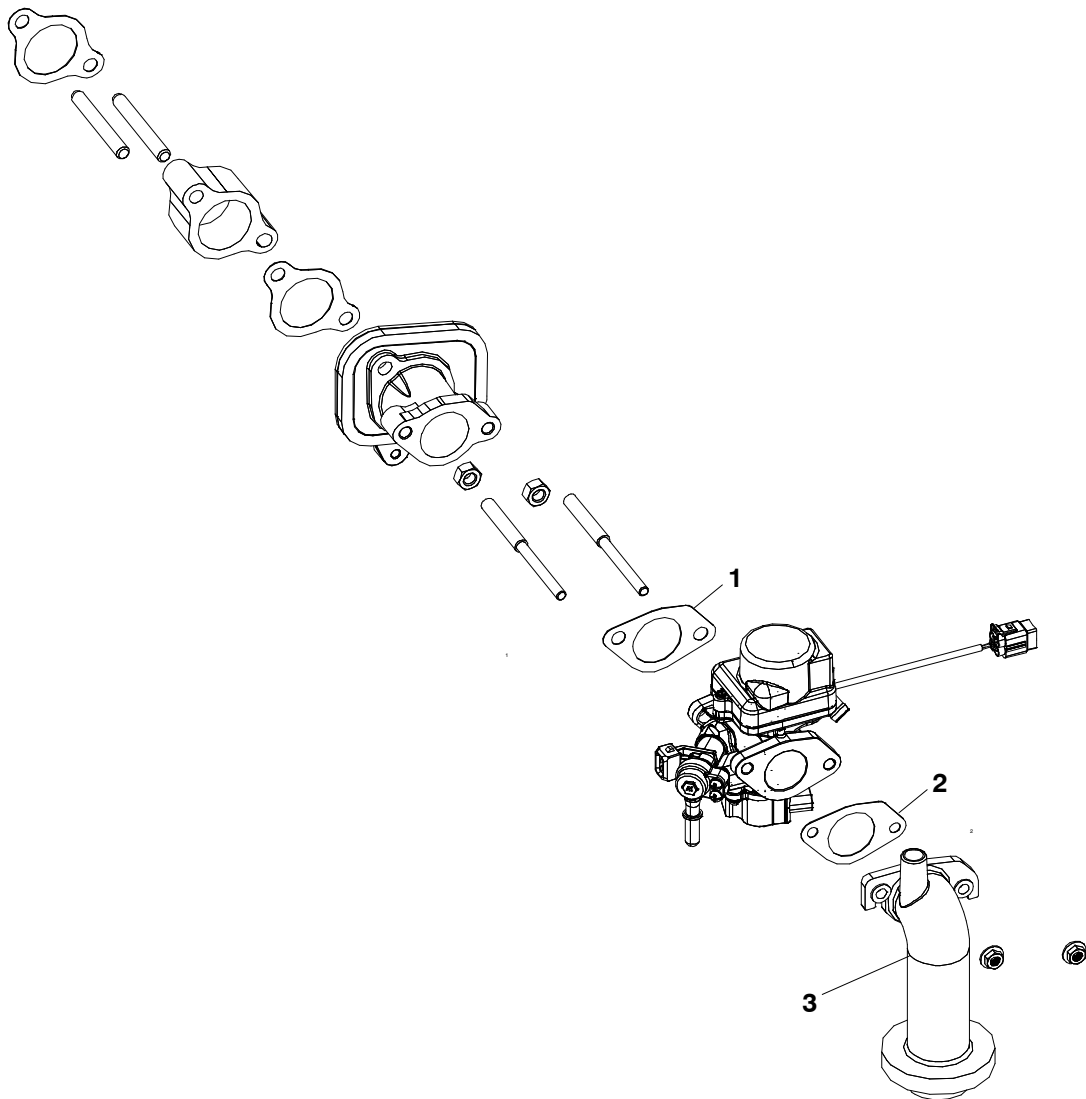
Item	Part No.	Description	Qty
1	A078F187	Motor, Starting – Components	1
2	A078D408	Transmitter, Temperature	1
3	A078D407	Tube Comp	1

Dipstick



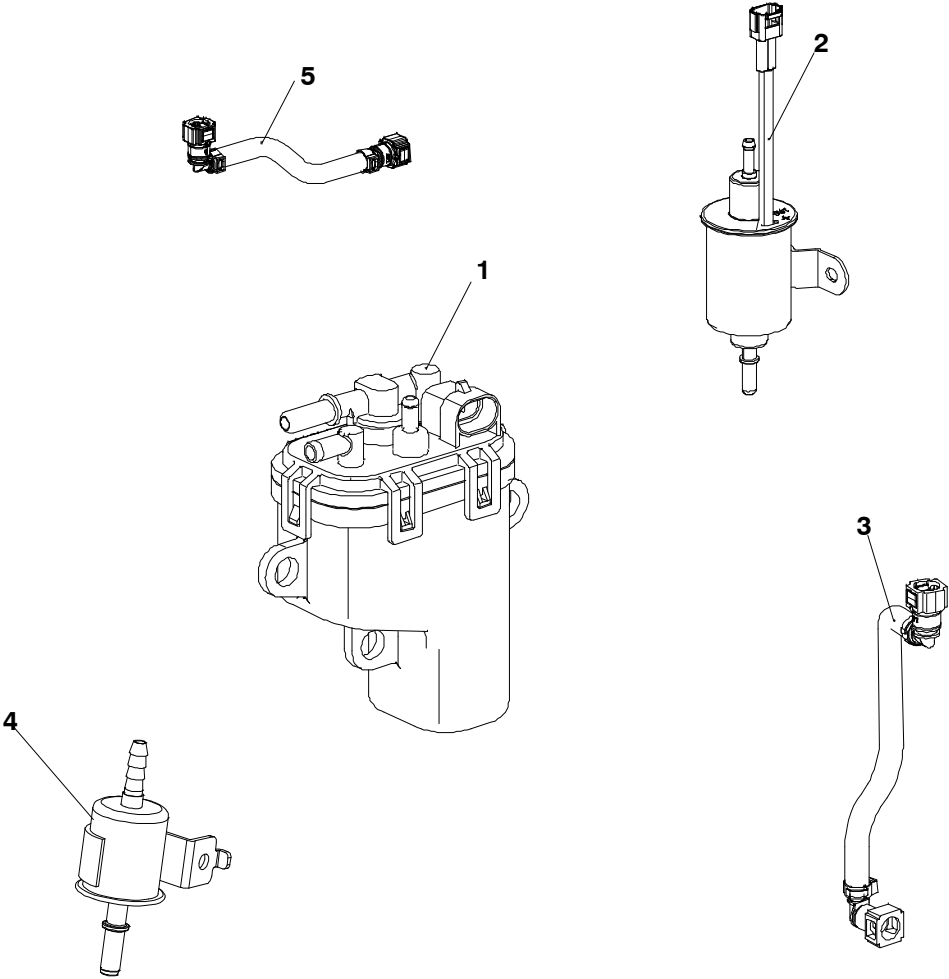
Item	Part No.	Description	Qty
1	A078F197	Combination, Oil Rule / Dipstick	1

Throttle Body Combination



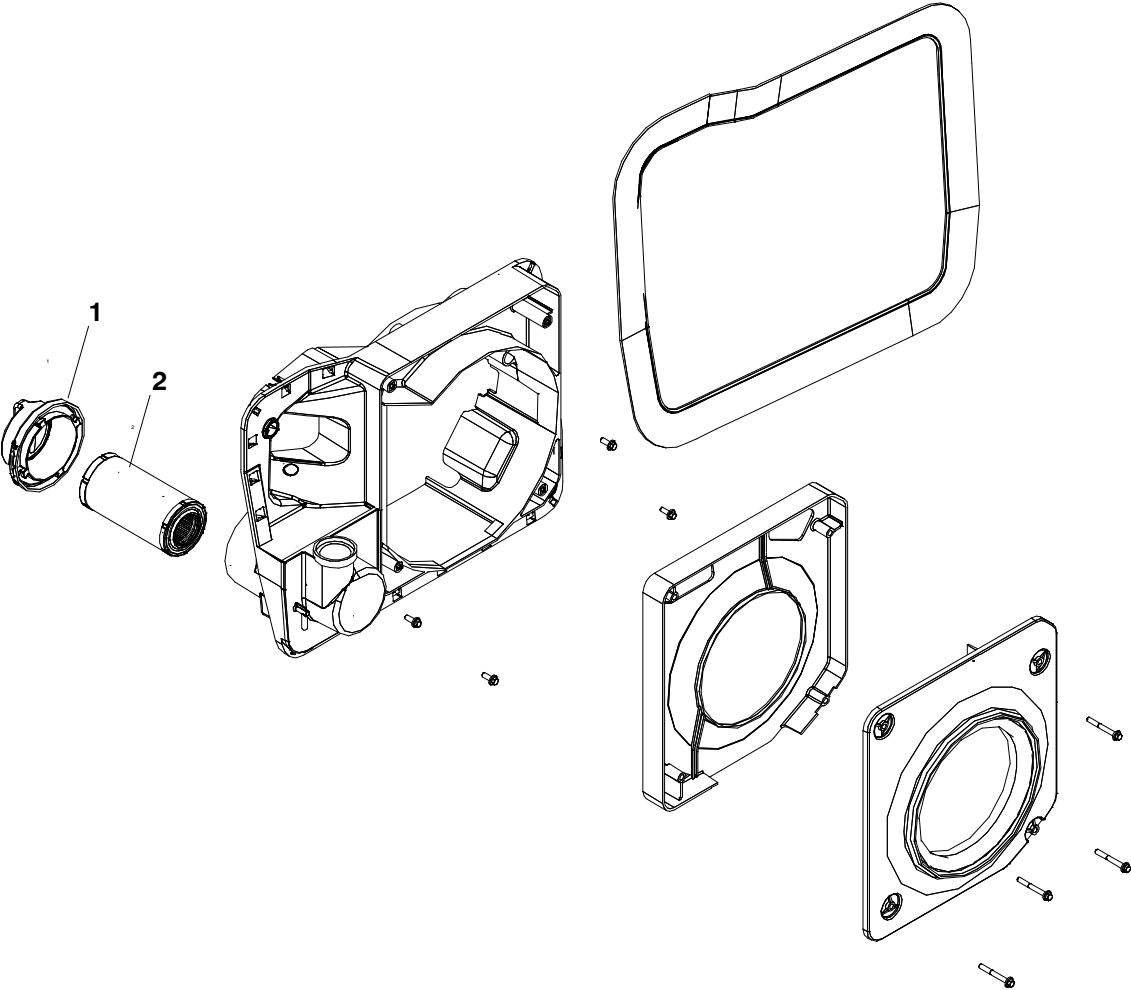
Item	Part No.	Description	Qty
1	A078F190	Gasket, Carburetor	1
2	A078F192	Gasket, Carburetor	1
3	A078F195	Tube, Air Filter Connecting	1

Fuel Pump



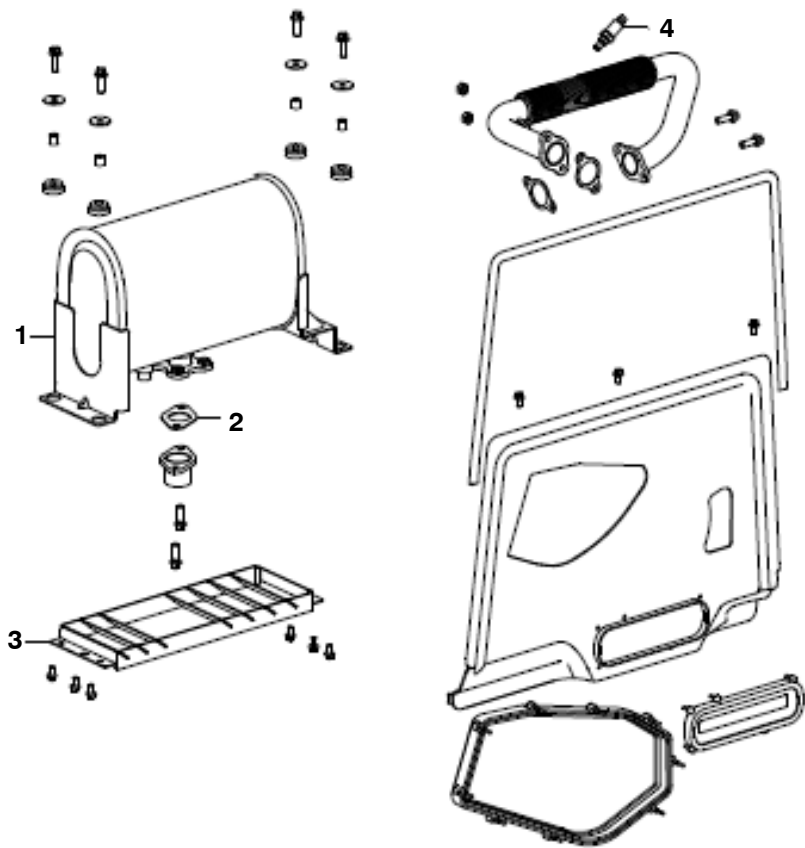
Item	Part No.	Description	Qty
1	A078V053	Pump, Fuel	1
2	A078V054	Pump, Fuel (Lift)	1
3	A078V055	Line, Fuel	1
4	A078C102	Filter, Fuel	1
5	A078V056	Line, Fuel	1

Fan Cover – Components



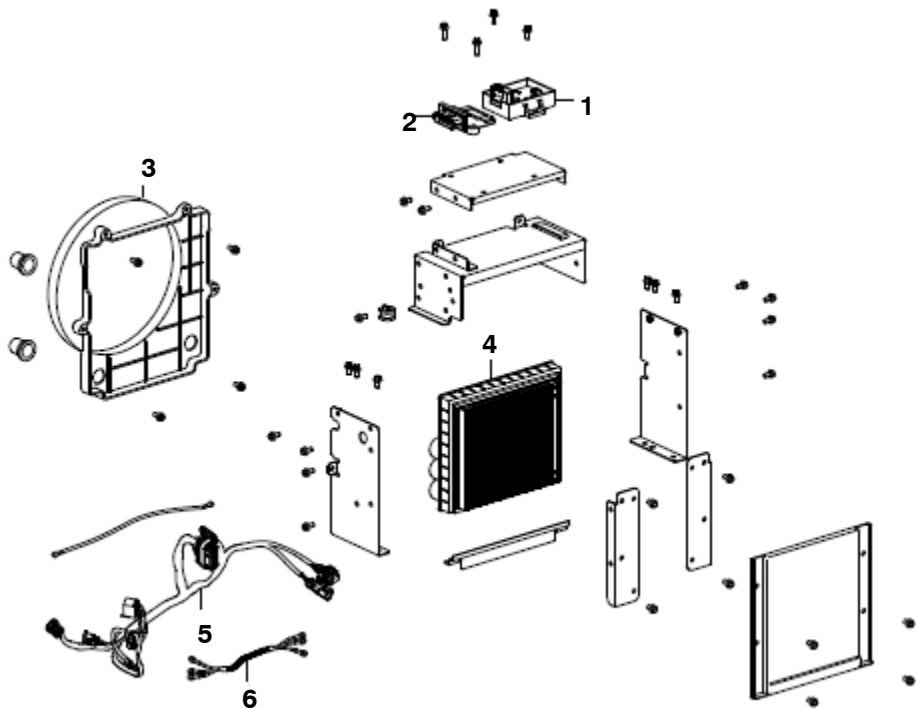
Item	Part No.	Description	Qty
1	A078D405	Cover, Air Filter Casing	1
2	A078C103	Element, Air Filter	1

Muffler



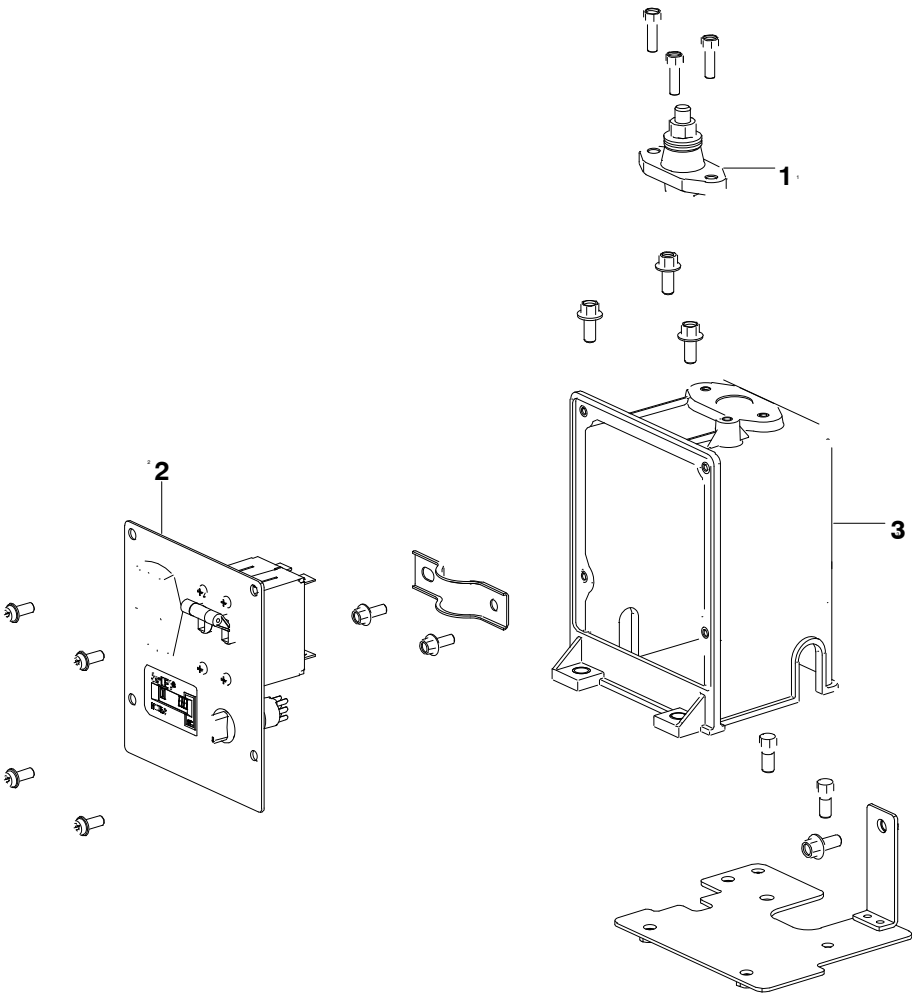
Item	Part No.	Description	Qty
1	A078C042	Muffler Assy	1
2	A078C043	Gasket, Outlet	1
3	A078C045	Shutter (Louver)	1
4	A078C044	Sensor, Oxygen	1

Inverter



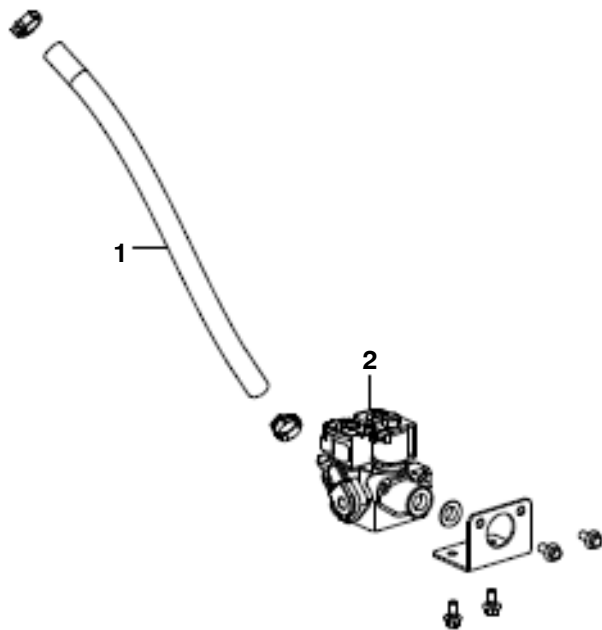
Item	Part No.	Description	Qty
1	A078D390	Controller	1
2	A078D393	Controller, ECU Electrical	1
3	A078D397	Scooper, Wind	1
4	A078D403	Inverter Assy	1
5	A078F199	Harness, Control Panel	1
6	A078F201	Harness, Control Panel	1

Control Panel



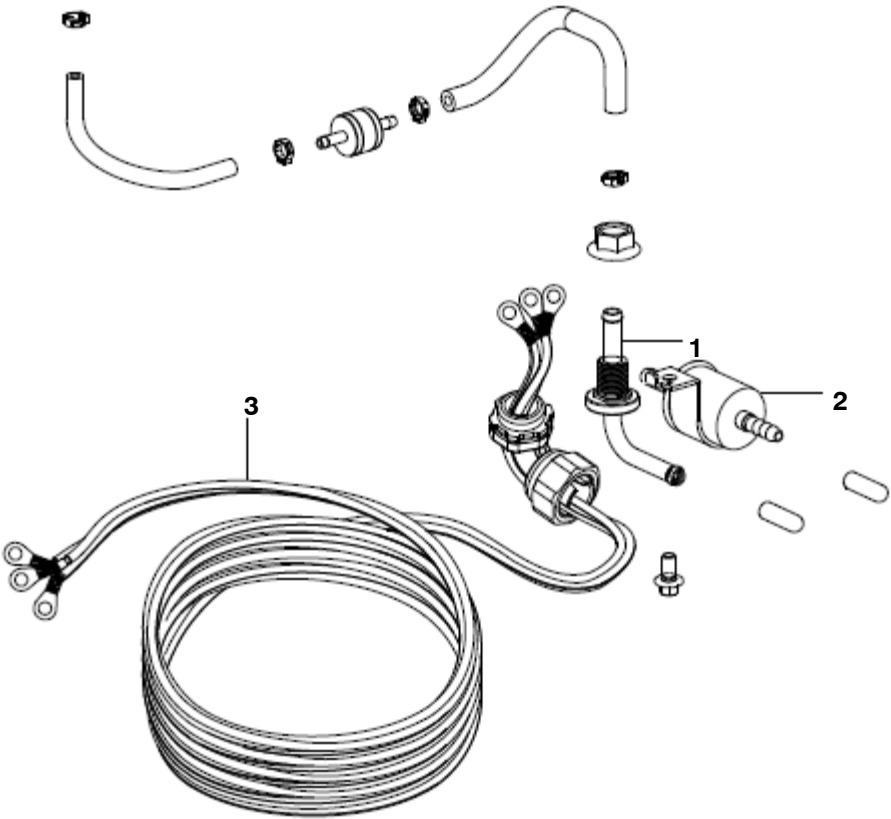
Item	Part No.	Description	Qty
1	A078D398	Combination, Positive Terminal	1
2	A078D400	Panel, Control – Components	1
3	A078D399	Cover, Rear Panel	1

Gasoline Pump / Gas Control Valve



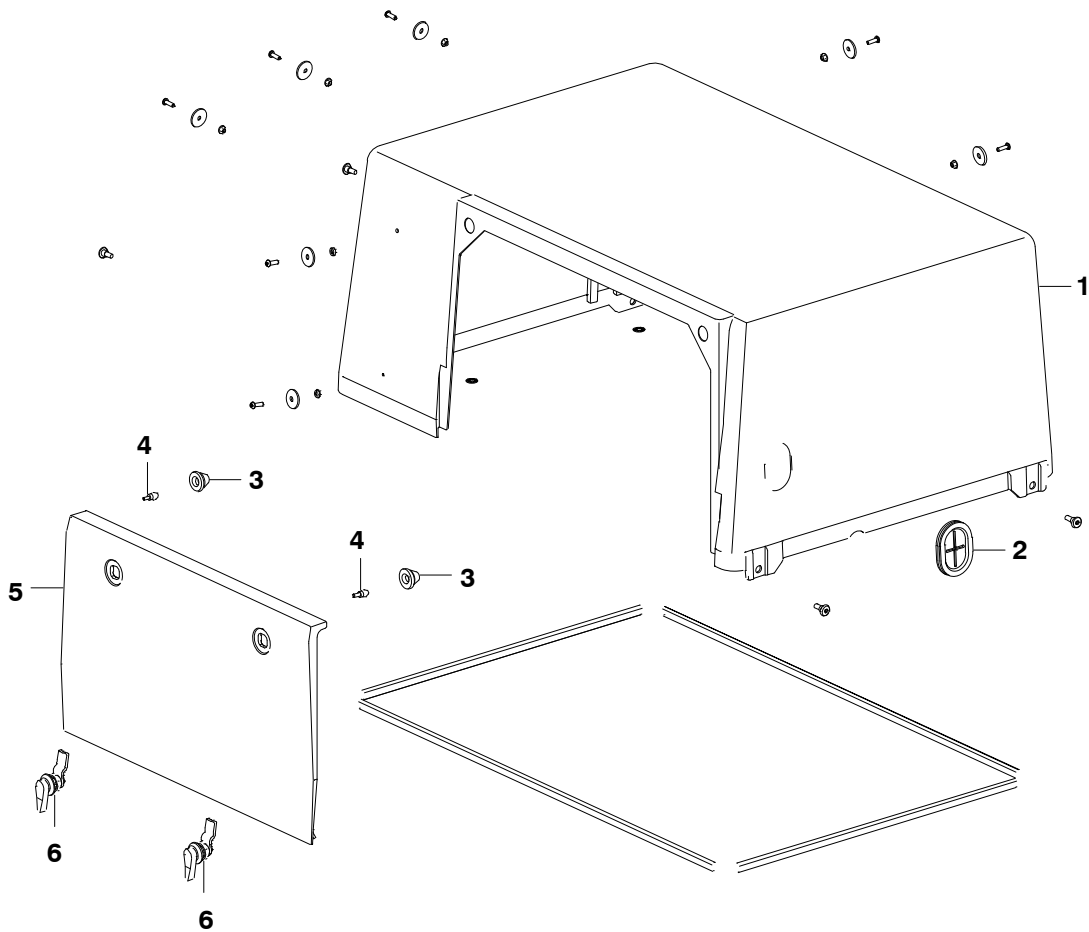
Item	Part No.	Description	Qty
1	A078D401	Hose, LP Fuel	1
2	A078J675	Valve, Shutoff	1

Breather Tube / Power Output Line



Item	Part No.	Description	Qty
1	A078D404	Joint, Connecting	1
2	A078C102	Filter, Fuel	1
3	A078F198	Combination, Power Supply Output Line	1

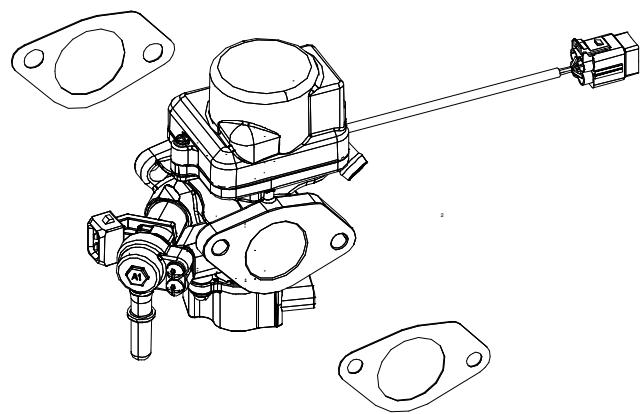
Enclosure



Item	Part No.	Description	Qty
1	A078D388	Enclosure, Generator	1
2	A078D389	Ring, Seal	1
3	A078C047	Rubber, Cushioning	2
4	A078C048	Pin, Octation	2
5	A078C049	Door, Service	1
6	A078D387	Lock, Side Cover	2

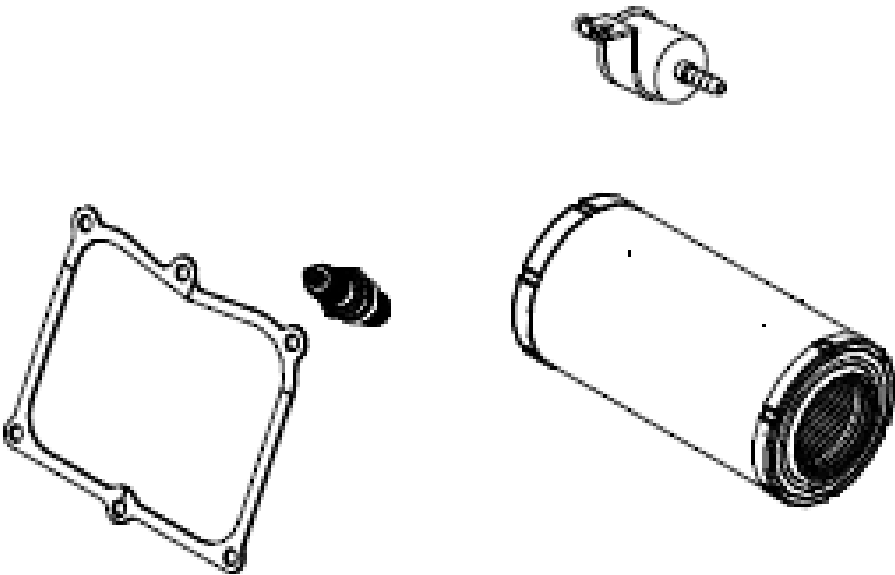
Kit List

Engine Accessories Kit



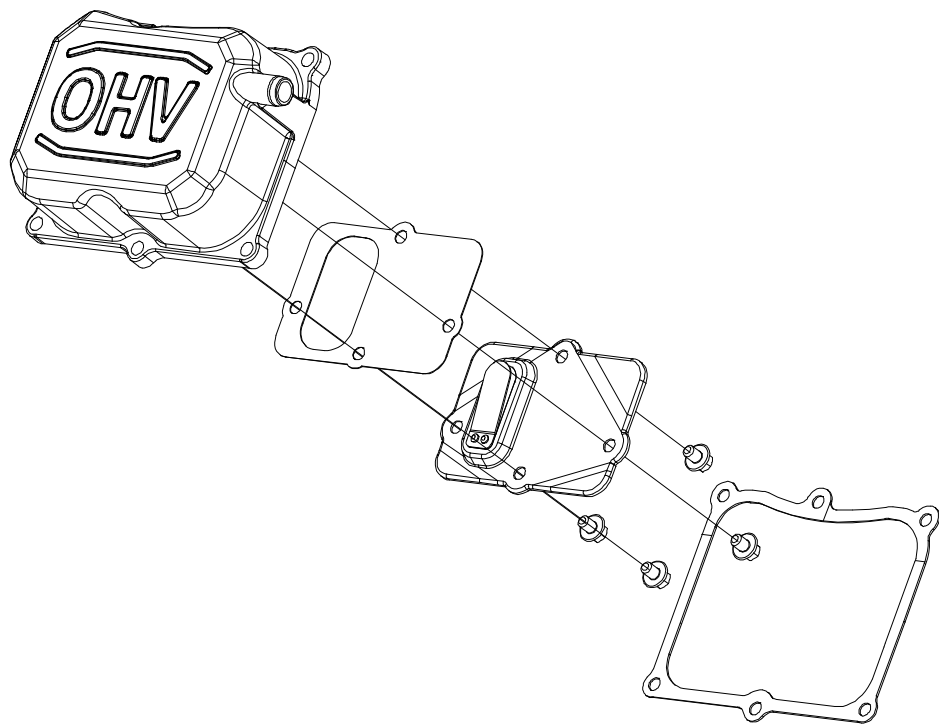
Item	Part No.	Description	Qty
	A078J436	Kit, Engine Accessories	

Service Kit



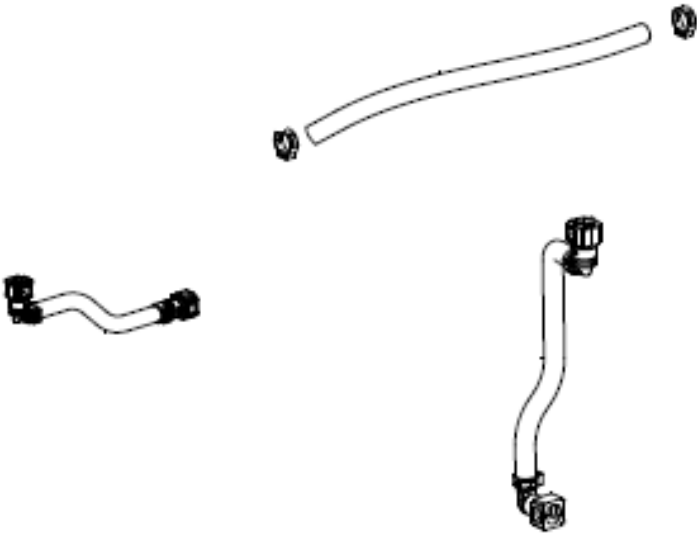
Item	Part No.	Description	Qty
	A078D394	Kit, Service	

Component Kit



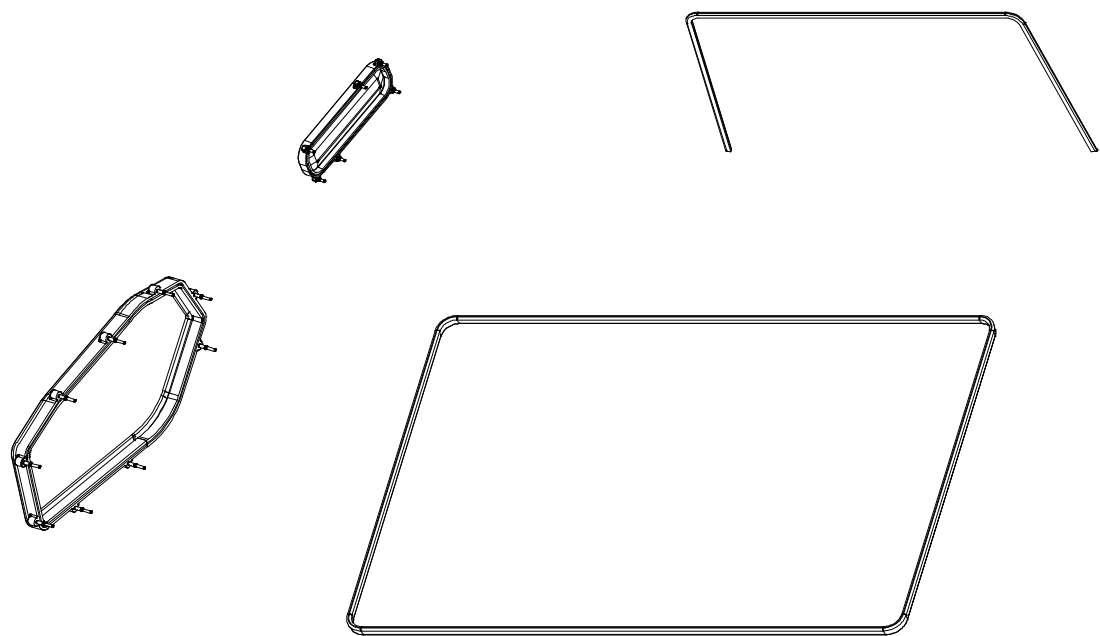
Item	Part No.	Description	Qty
	A078F206	Kit, Component	

Fuel Line Kit



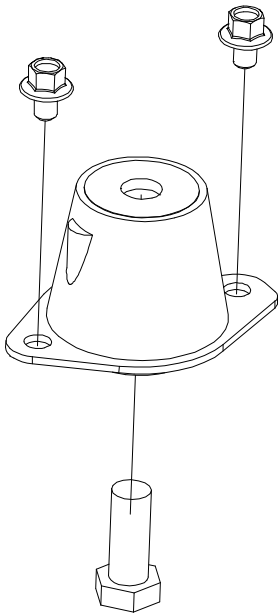
Item	Part No.	Description	Qty
	A079J032	Kit, Fuel Line	

Seal Kit



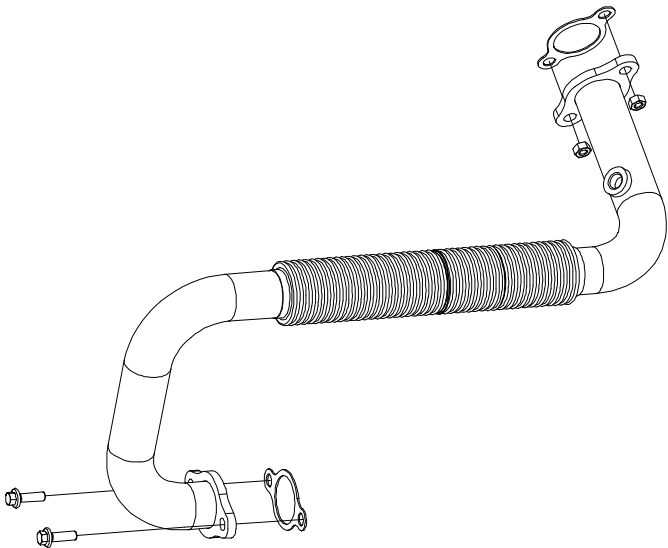
Item	Part No.	Description	Qty
	A078F212	Kit, Seal	

Mounting Kit



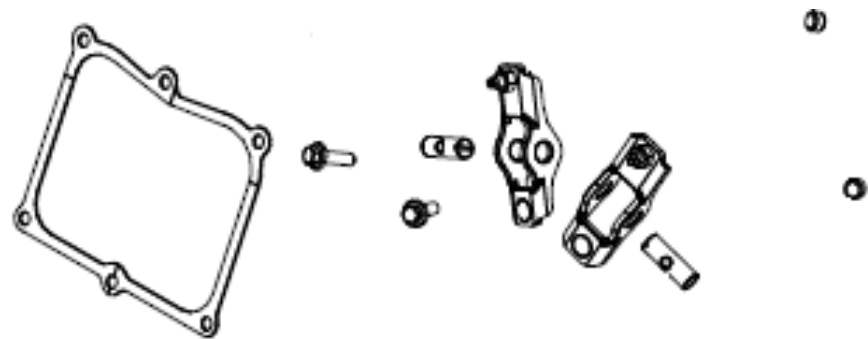
Item	Part No.	Description	Qty
	A078F297	Kit, Mounting	

Exhaust Pipe Kit



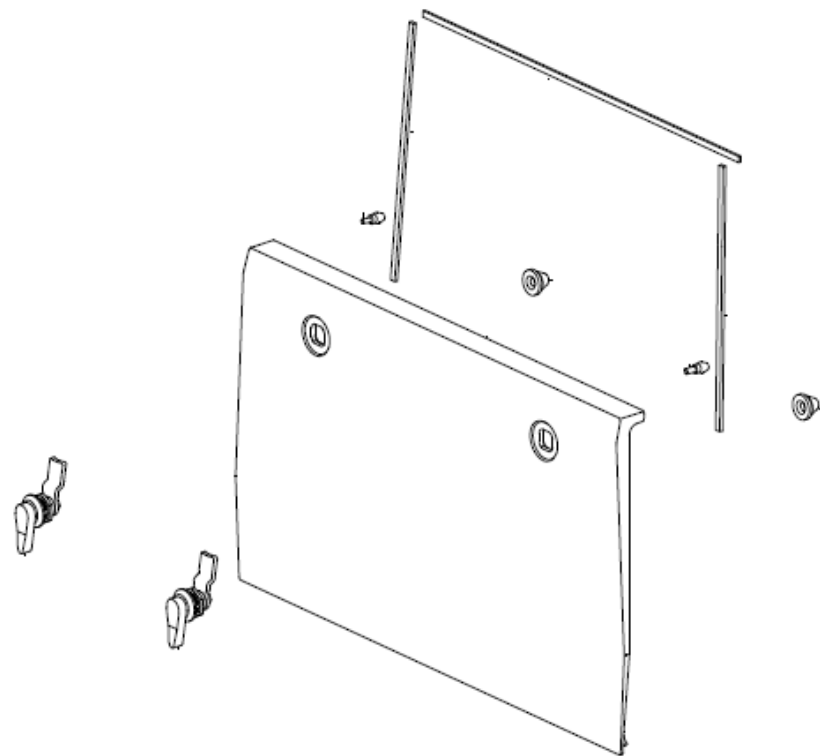
Item	Part No.	Description	Qty
	A078F300	Kit, Exhaust Pipe	

Engine Accessories Kit



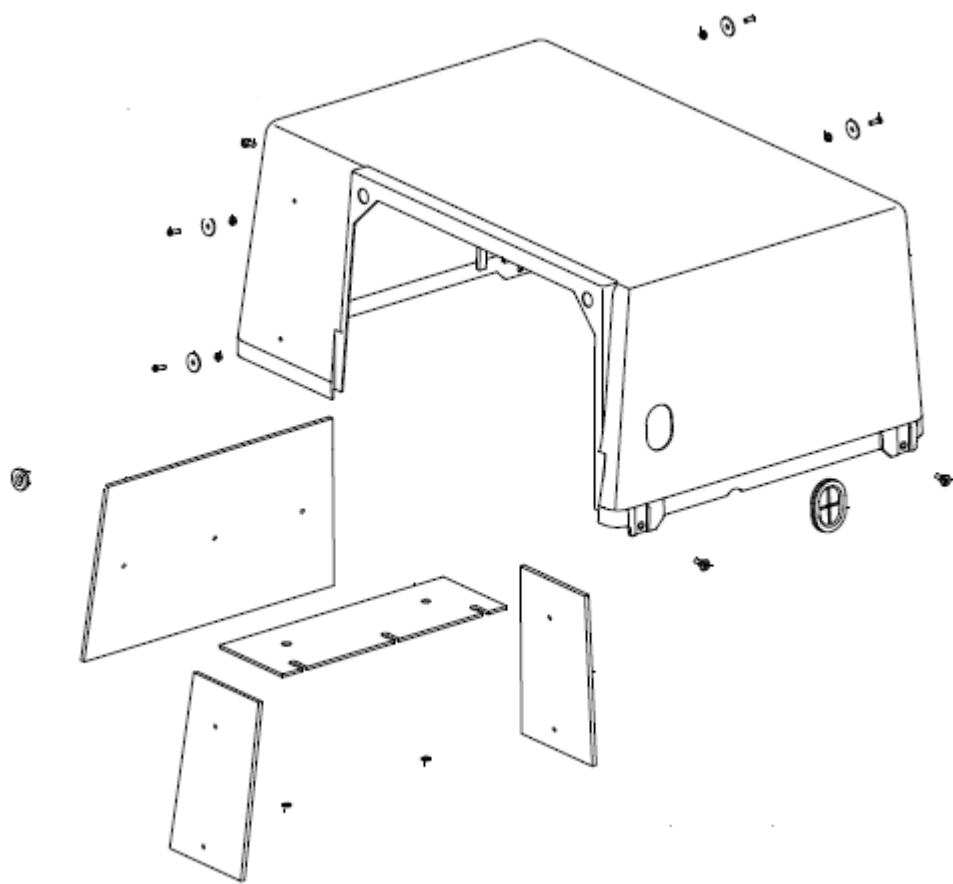
Item	Part No.	Description	Qty
	A078F301	Kit, Engine Accessories	

Door Kit



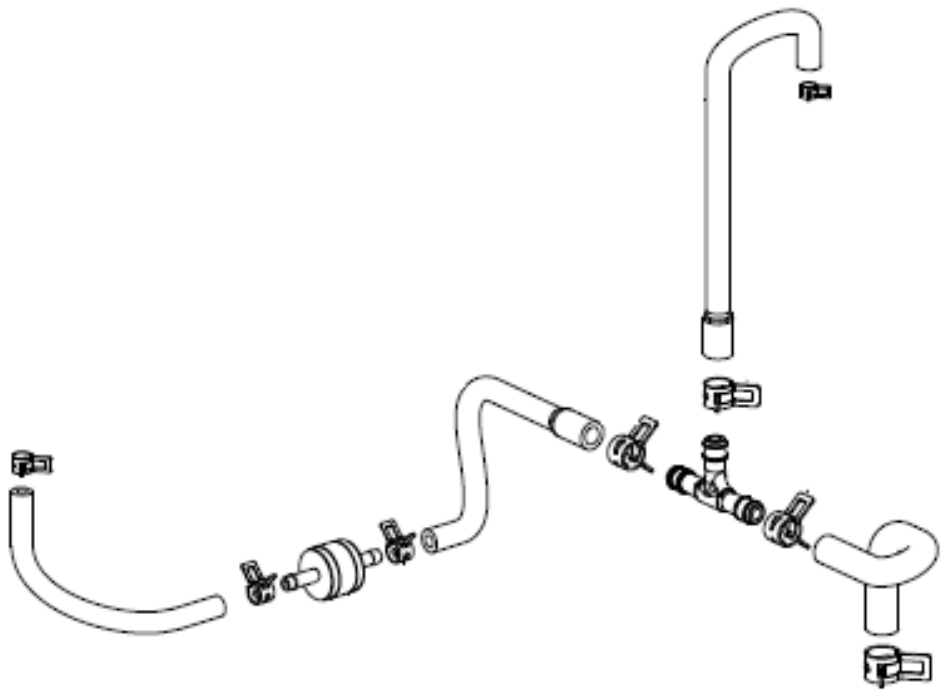
Item	Part No.	Description	Qty
	A078F302	Kit, Door	

Enclosure Kit



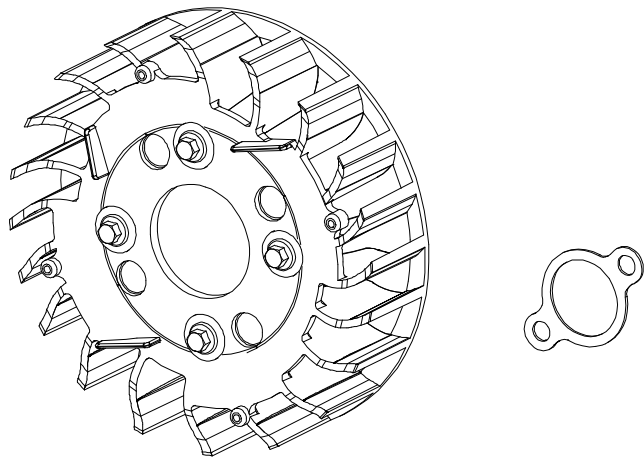
Item	Part No.	Description	Qty
	A078F303	Kit, Enclosure	

Breather Kit



Item	Part No.	Description	Qty
	A079J029	Kit, Breather	

Fan Kit



Item	Part No.	Description	Qty
	A080B497	Kit, Fan	

Labels Kit

Item	Part No.	Description	Qty
	A079J033	Kit, Labels	

Generator Set Packaging Kit

Item	Part No.	Description	Qty
	A079J034	Kit, Generator Set Packaging	

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