DOMETIC

PROHEAT VARIABLE M-SERIES HEATER

EN

Variable M-Series Heater

Parts Catalog

Serial numbers
VMH000001 —

[**REVISION A**] Form No. SL9311 | © 2025 Dometic

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1 Important Safety Information

1.1 Explanation of symbols

The symbols below are used throughout this publication to alert you to potential hazards involved with the operation and installation of this product. Observe these warnings and notices carefully. The safety alerts alone cannot eliminate hazards; strict compliance with any special instructions during installation, operation, and maintenance, along with common sense operation, are important measures to prevent hazardous situations.

DANGER!
Safety instruction: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING!
Safety instruction: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION!
Safety instruction: Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE!
Indicates a situation that, if not avoided, can result in property damage.

NOTE
Supplementary information for operating the product.

1.2 Safety considerations

WARNING!
Exhaust: Inhalation of exhaust gas (containing carbon monoxide) may cause severe personal injury and/or death. Anyone suspected of suffering from CO inhalation should be removed from the hazardous area and given medical assistance immediately.

WARNING!
Explosion Hazard: Do not operate heater where combustible fumes or airborne particles, such as sawdust, are present.

WARNING!
Fuel: Exercise extreme caution when working near fuel or fuel-filled equipment. Do not operate heater during fueling operations. In addition, do not smoke or handle open flame equipment, such as a blowtorch, around fuel.

WARNING!
Fire Hazard: Do not place any flammable items around the heater and exhaust pipe.

WARNING!
Batteries: Wear hand and eye protection when working near batteries. Do not smoke or use open flames near batteries.

WARNING!
Electrical: Electric shock can cause severe personal injury, burns, and death. Before working on any unit, disconnect the batteries. Use only approved materials and methods when working on the electrical system and follow local electrical codes. Never work with electricity in wet conditions or when you are feeling fatigued.

WARNING!
Poisons/Toxins: Fuel and coolant are toxic and in some cases, carcinogenic. Wear eye and hand protection at all times. Remove contaminated clothing immediately and wash contaminated skin. Do not breathe in vapors.

WARNING!
Moving/Hot Parts: Moving parts can cause severe injury and or death. Before working on any unit, shut it off. Do not operate any unit until protective covers have been replaced. Always ensure bolts and clamps are correctly torqued and secured. Inspect mechanical components periodically for damage and corrosion.

WARNING!
Coolant: could cause serious personal injury. The coolant level in the expansion tank should be checked at least weekly (more frequently in high mileage or arduous conditions). Always check the level when the system is cold. Unscrew the filler cap slowly, allowing the pressure to escape before removing completely. Never run the engine without coolant.

Prevent anti-freeze coming in contact with the skin or eyes. If this occurs, rinse immediately with plenty of water. Anti-freeze will damage painted surfaces.

Never top-up with salt water. Even when traveling in territories where the water supply contains salt, always ensure you carry a supply of fresh (rain or distilled) water.

DANGER!

California Proposition 65 Warning:

Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm.

Wash hands after handling.

2 Selection Guide and Parts Descriptions

2.1 Selection guide

This selection guide is designed to help you choose the appropriate Proheat kit for your application. For further information, visit our website at: **www.proheat.com**

Variable M-Series Heaters

VH0080 Variable M-Series Basic Heater, 12/24V
40,000 – 90,000 BTU/hr [11.7 – 26.0 kW]

Installation Kits

PK0410 Install kit, Variable M-Series, 12/24V contains:

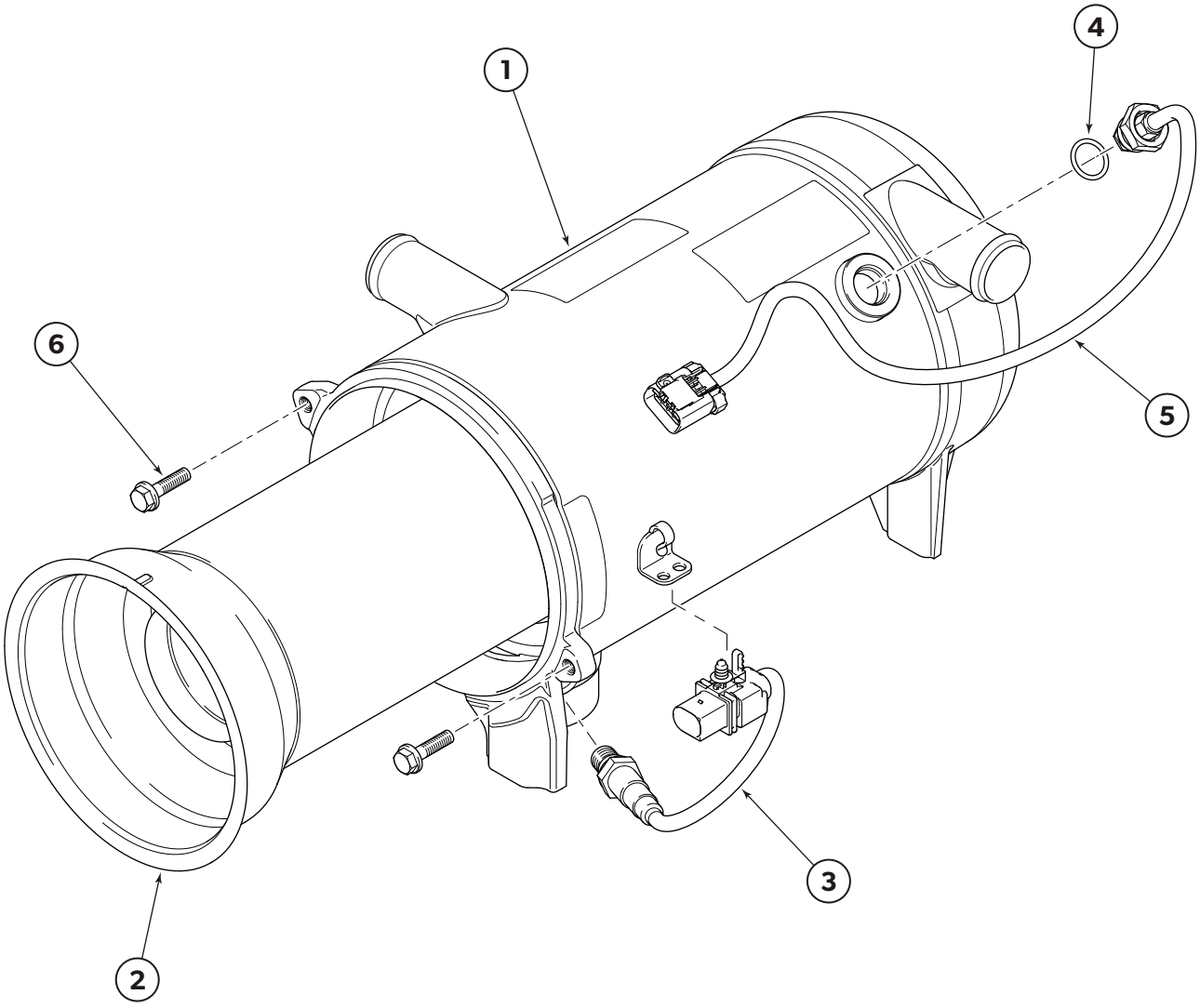
Power Harness, 16'	149328K
Control harness, 25'	149327K
Rocker switch, On/Off, 12/24V	920130K
Fuse holder, 15A sealed	978888K
Fuel pick-up, 3/16 tube x 24" c/w fittings	149491K
Exhaust, elbow, 2.75" OD to 2.75" ID	900542K
Exhaust clamp, 3" ID	900879K
Fuel line, 3/16" x 15'	149690K

Options

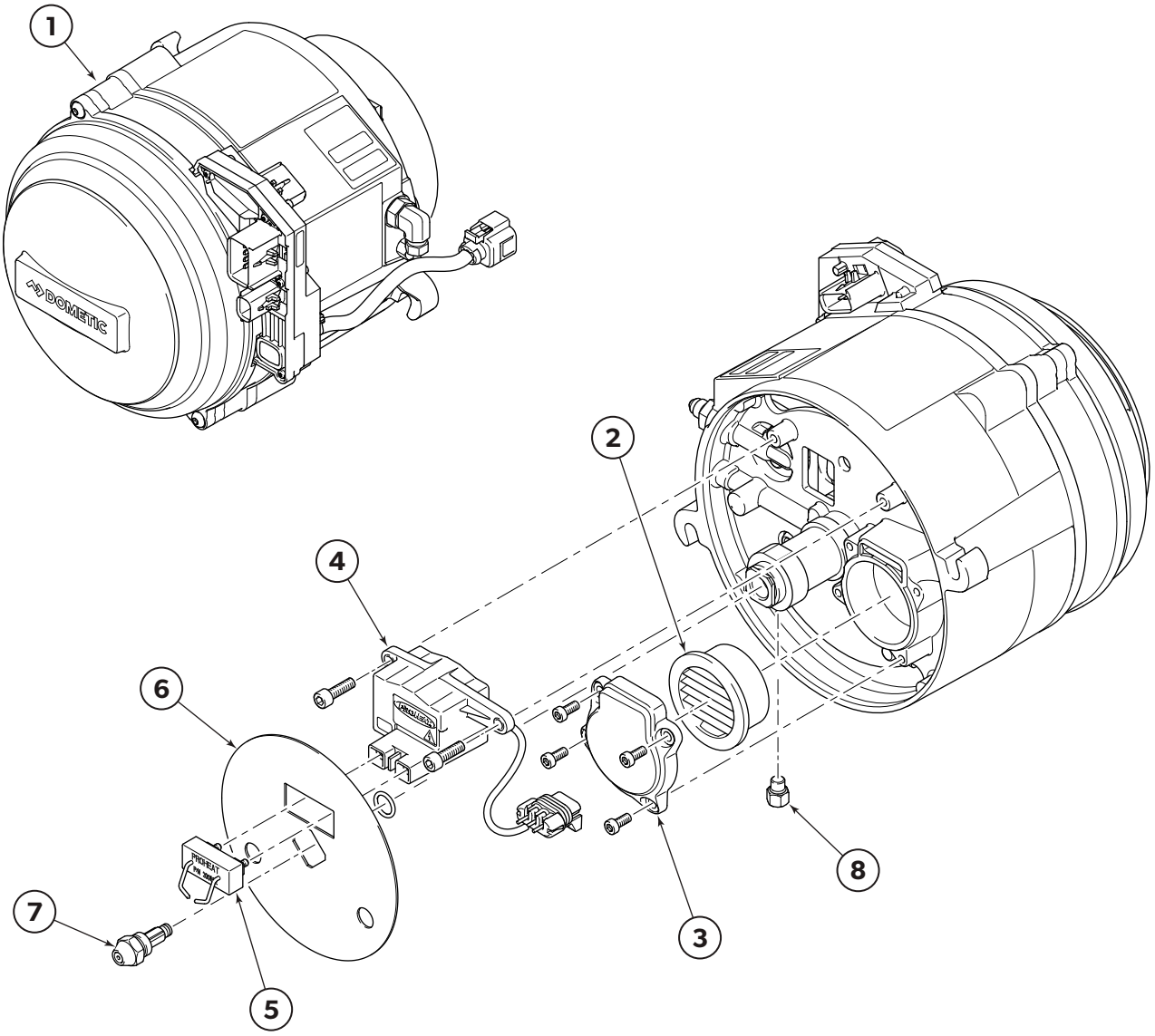
PK3000	Proheat Function Controller (PFC)
PK3001	Thermostat, bunk fan CAN bus
PK0388	Coolant pump, INTG8
PK0072	Datalink kit
150207K	Enclosure, steel, down exhaust
896572K	Snorkel attachment (Ø3" OD)
135695K	Snorkel attachment (Ø2.25" OD)

2.2 Parts descriptions

2.2.1 — Heat exchanger
2.2.2 — Burnehead assembly
2.2.3 — Fuel pump and air compressor
2.2.4 — Options
2.2.5 — Test equipment/special tools/documentation

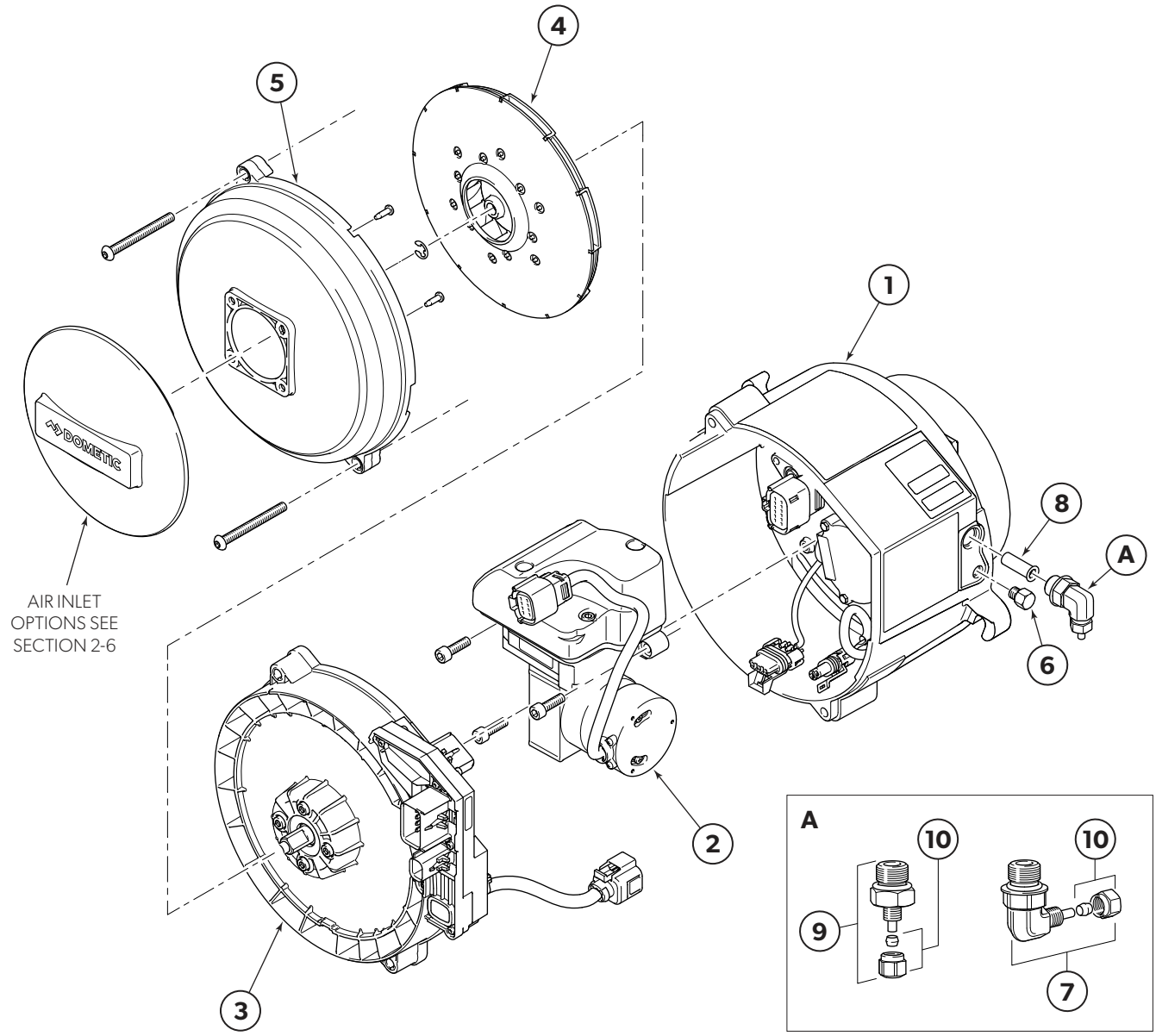


Item	Part#	Description
1	940430K	Heat exchanger, VM-Series c/w items 2, 3, 4, 5, 6
2	200200K	Combustion tube, VM/M50/M80
3	149800K	Oxygen sensor
4	917724K	Overheat sensor O-ring
5	149010K	Temperature sensor assembly, c/w O-ring
6	850778K	Screw, M8 x 1.25 x 30 HWHCS (2/pkg)



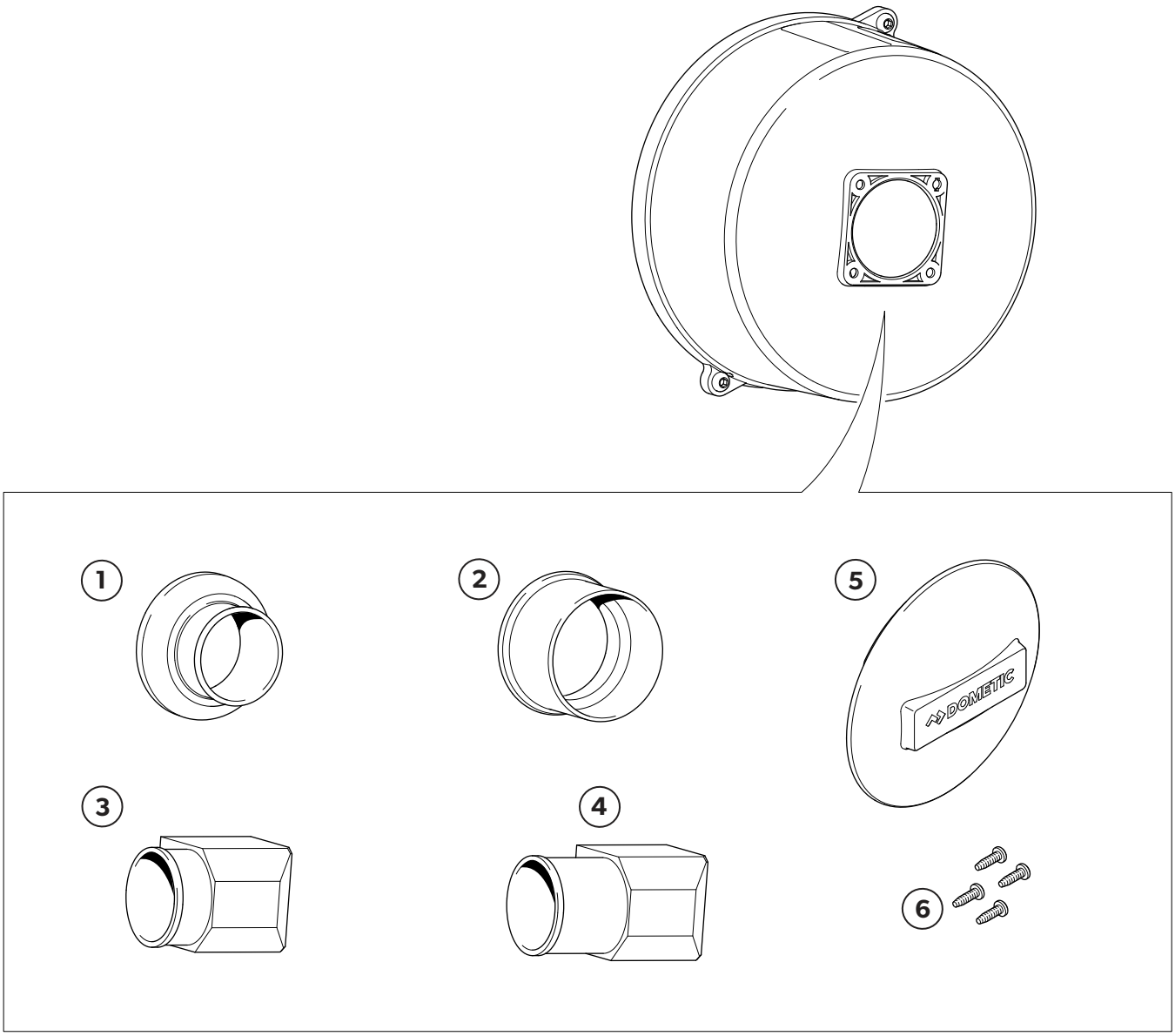
Item	Part#	Description
1	877980K	Burner head assembly, splash guard, 3/16 tube elbow, standard configuration
	877993K	Burner head assembly, 55 mm, 3/16 tube elbow, standard configuration
2	953420K	Air filter element
3	149324K	Cover, air filter, compressor, c/w 4 screws
4	200850K	Ignition module and electrode, c/w fasteners

Item	Part#	Description
5	200802K	Ignition electrodes
6	877112K	Flame shield, VM-Series, c/w energizing O-ring
7	877202K	Nozzle, with disparger, VM-Series
8	829325K	Hex plug, ORB, c/w O-ring



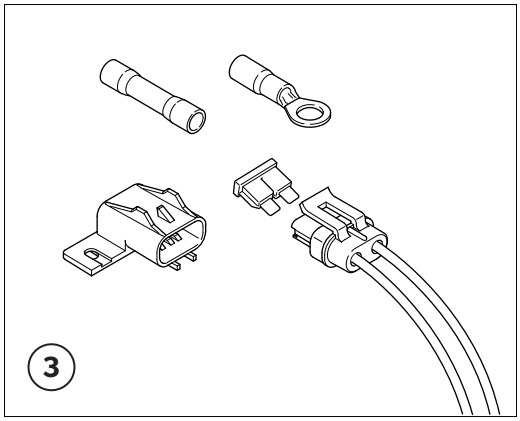
Item	Part#	Description
1	877104K	Flange & fuel pump assembly
2	877400K	Air compressor, c/w fasteners
3	877580K	PCM (standard configuration) and blower motor
4	200419K	Fan, capped, c/w retaining ring
5	877310K	Blower housing, VM-Series, c/w fasteners
6	829325K	Hex plug, ORB, c/w O-ring

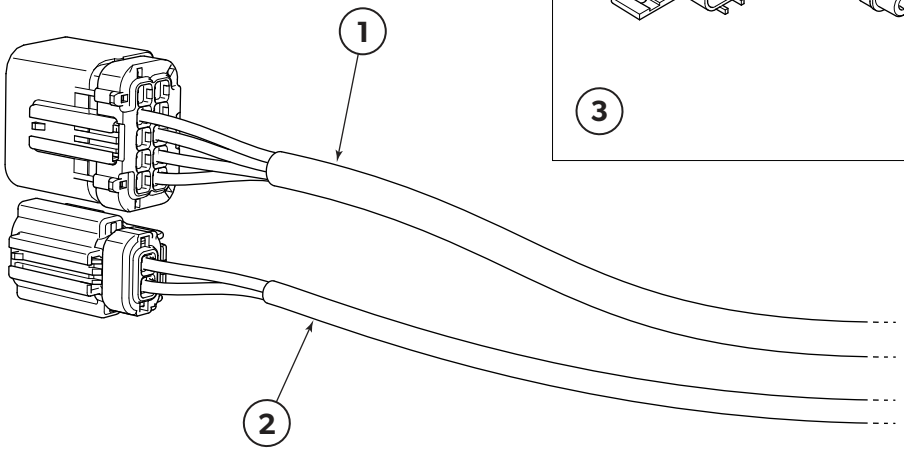
Item	Part#	Description
7	149675K	Fitting elbow -6ORB to 3/16 tube, c/w item 10
8	149481K	Screen, Fuel Filter, c/w O-ring
9	149482K	Fitting, Straight -6ORB 3/16 tube, c/w item 10
10	149506K	Package, 3/16 nut and ferrule

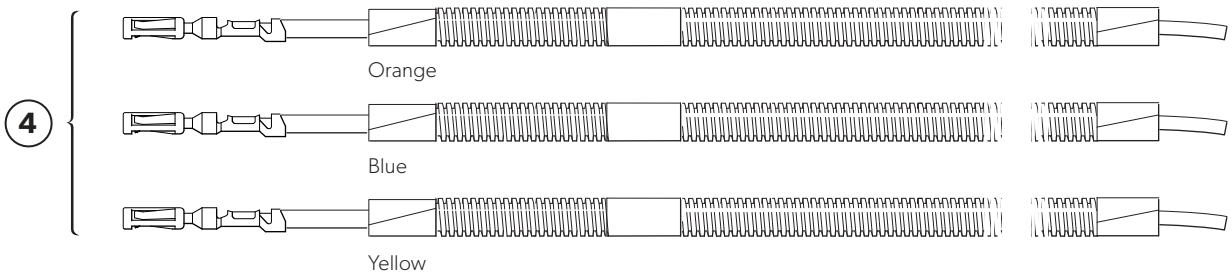


Item	Part#	Description
1	135689K	Snorkel attachment, 2.25" [55 mm] OD, c/w fasteners
2	896572K	Snorkel attachment, 3" [76mm] OD, c/w fasteners
3	135695K	Elbow air intake, short, 2.25" [55 mm] OD, c/w fasteners

Item	Part#	Description
4	135697K	Elbow air intake, standard, 2.25" [55 mm] OD, c/w fasteners
5	200409K	Splash guard, c/w fasteners
6	200224K	Screws, air inlet (4/pkg)

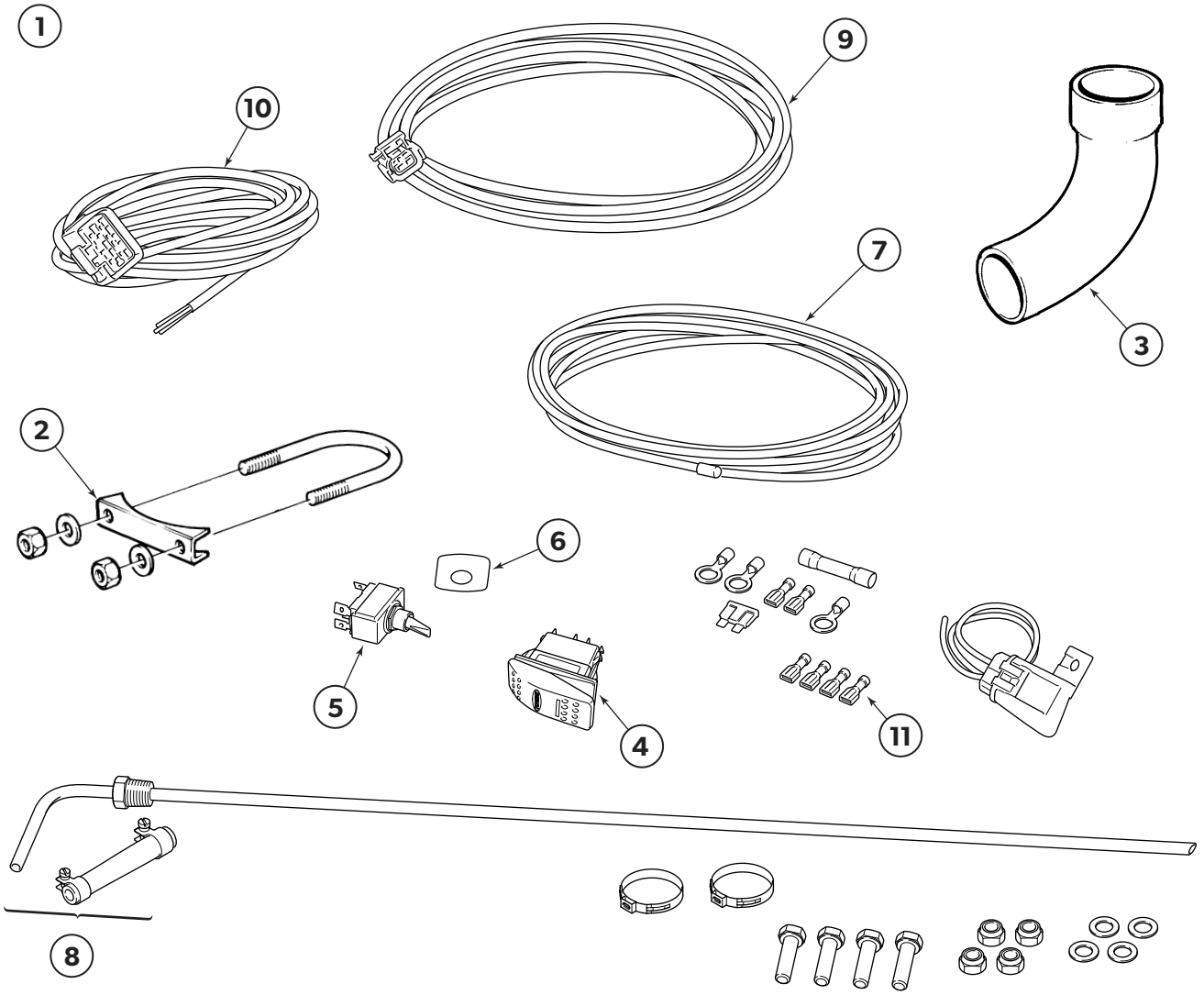






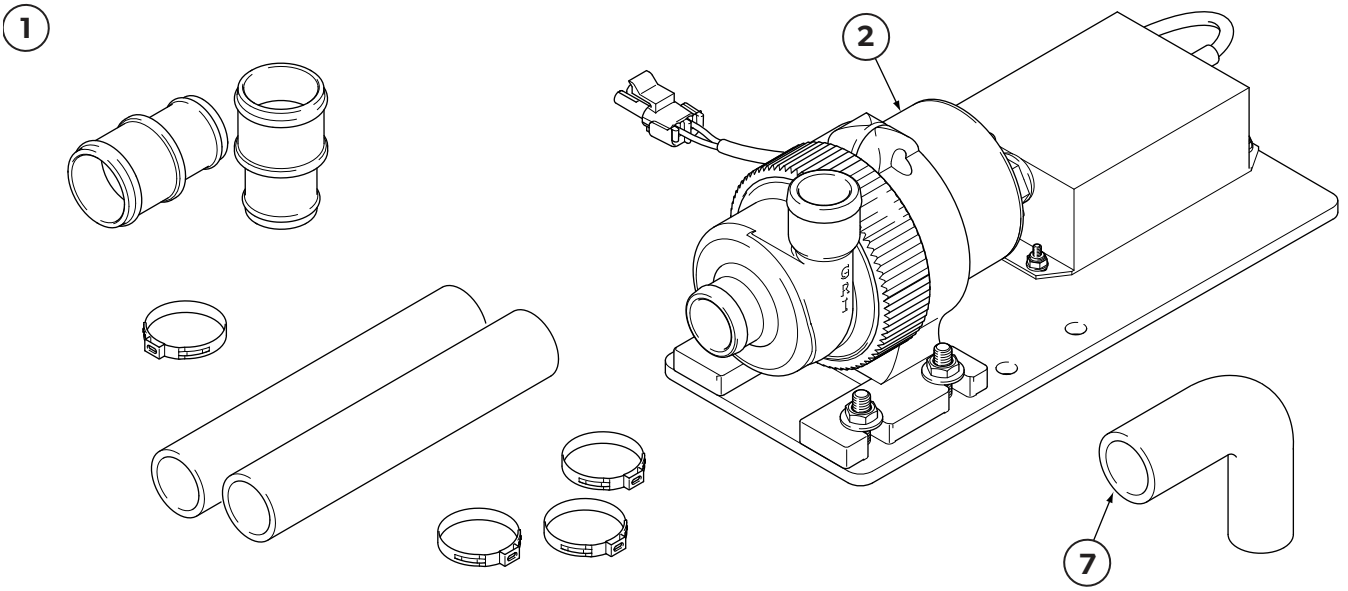
Item	Part#	Description
1	149327K	Harness, switch/control, 25’
	149480K	Harness, switch/control, 50’
2	149328K	Harness, power, 16’
	149472K	Harness, power, 50’

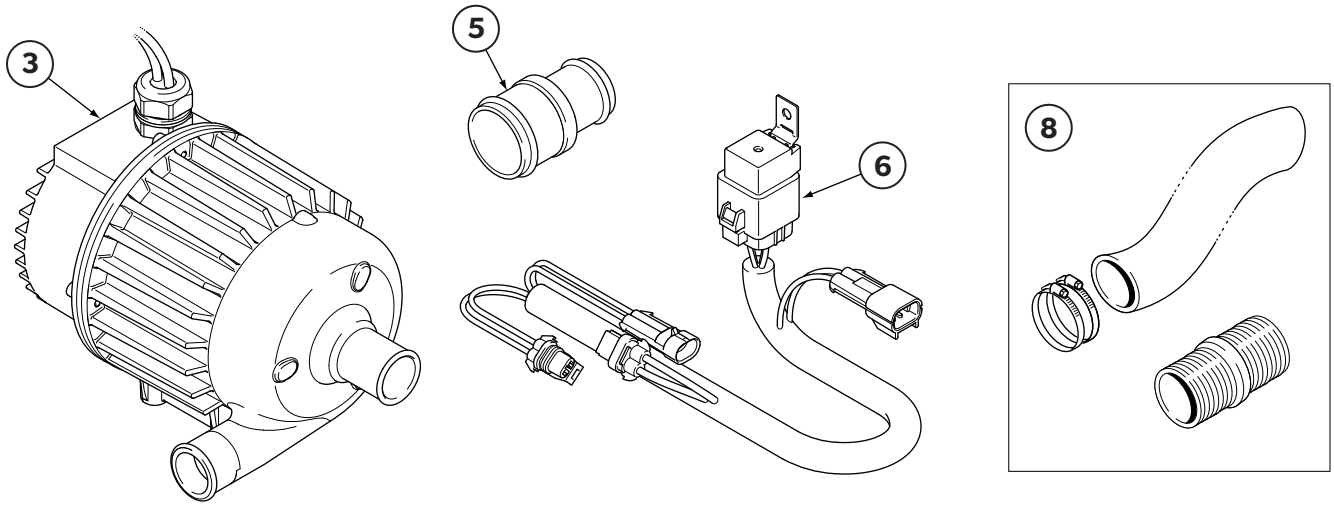
Item	Part#	Description
3	978888K	Fuse holder, 15A sealed
4	149400K	Harness, switch/control, 3 wire add in, 25’



Item	Part#	Description
1	PK0410	Install kit, Variable M-Series, 12/24V
2	900879K	Exhaust clamp, 3.0" ID
3	900542K	Exhaust, elbow, 2.75" OD to 2.75" ID
4	920130K	Rocker switch, On/Off, 12/24V
5	920125K	Switch, On/Off, 12V (legacy replacement)
6	919626K	Decal, toggle switch

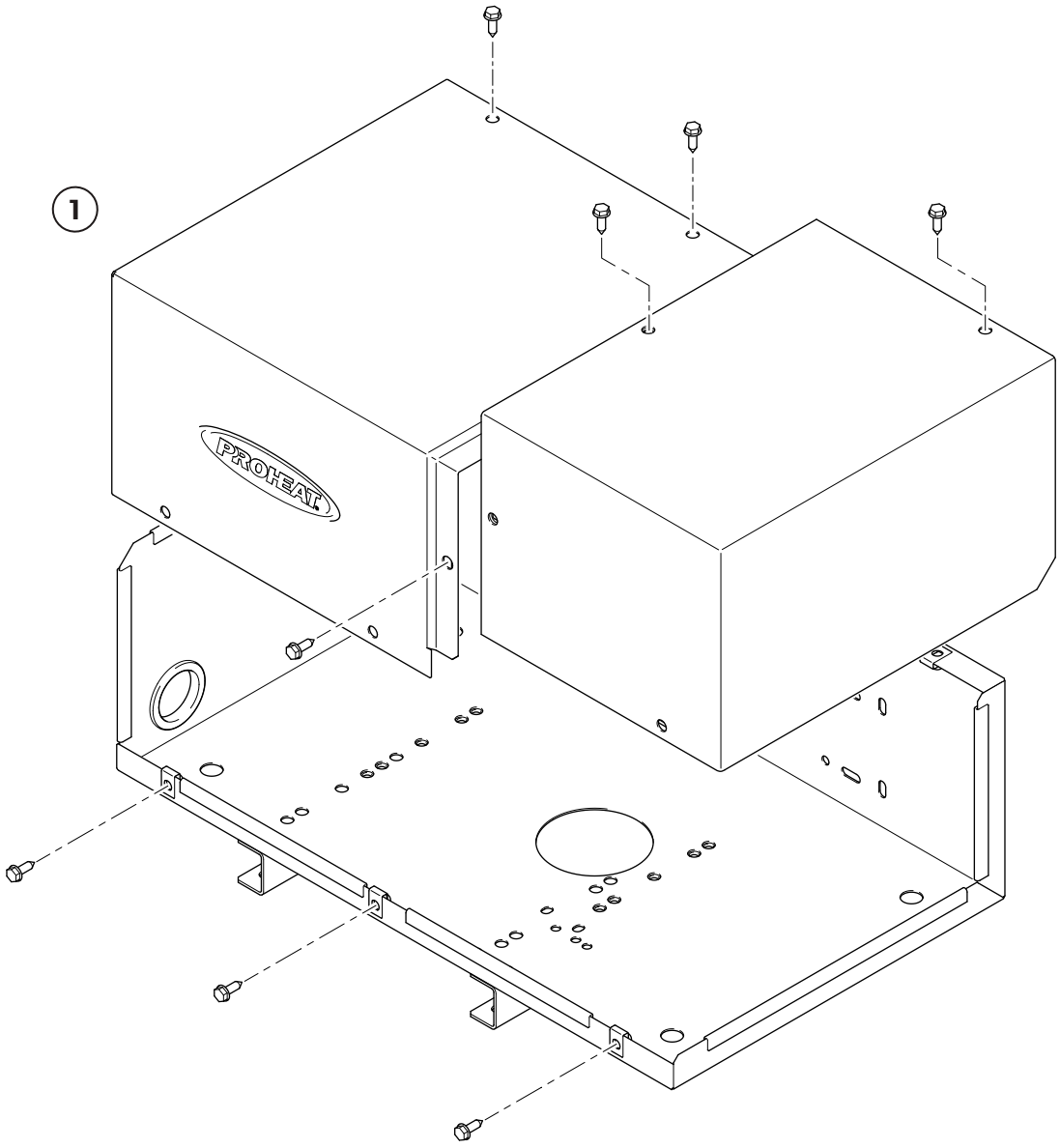
Item	Part#	Description
7	149690K	Fuel line, 3/16" x 15'
8	149491K	Fuel pick-up, 3/16 tube x 24", c/w fittings
9	149328K	Harness, power, 16'
10	149327K	Harness, switch/control, 25'
11	769125K	Connector,1/4" female spade, (4/pkg)





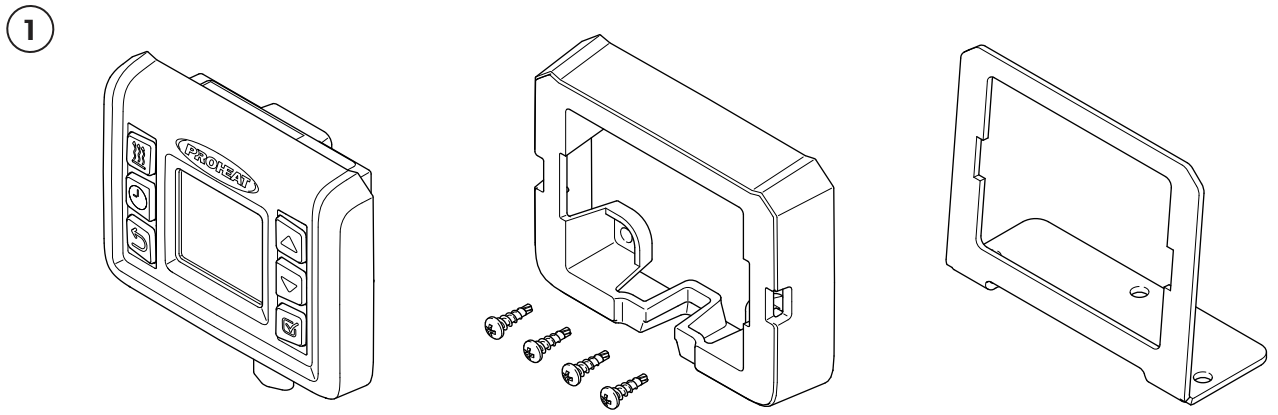
Item	Part#	Description
1	PK0388	Pump, coolant INTG8, 12/24V
2	924830K	Pump, coolant INTG8 *(pump only)*
3	924827K	Pump, coolant SLP, 24V *(pump only)*
4	877099K	Pump Install Kit, c/w: power harness, 20A fuse kit, relay harness 12/24V *(not shown)*

Item	Part#	Description
5	769235K	Fitting, 1-1/2" to 1" c/w clamps *(not shown)*
6	877090K	Coolant pump relay harness, 12/24V
7	382657K	Coolant elbow kit, 1.5" ID to 1.25" ID
8	PK0364	1-1/2" Hose coupling kit



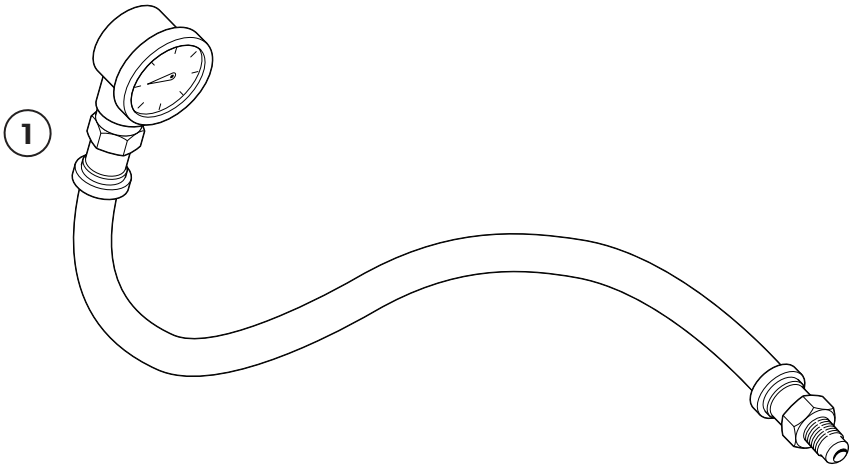
Item	Part#	Description
1	150207K	Enclosure, M-Series kit

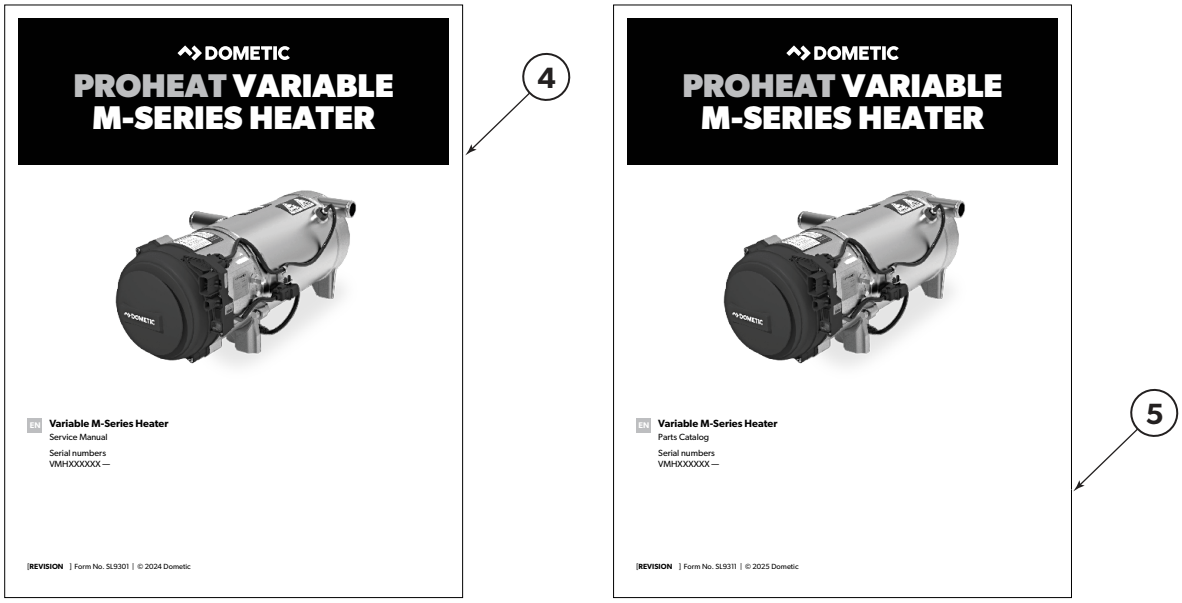
Item	Part#	Description



Item	Part#	Description
1	PK3000	Proheat function controller (PFC)
2	149410K	Harness, PCM, CAN add in, 10'
3	149306K	Extension, backbone, 10' c/w dust plug and CAN "T" connector
	149307K	Extension, backbone, 16' c/w dust plug and CAN "T" connector
	149308K	Extension, backbone, 25' c/w dust plug and CAN "T" connector

Item	Part#	Description
4	149415K	CAN dust plug
5	149418K	CAN terminating resistor
6	149417K	CAN "T" connector
7	PK3001	Thermostat bunk fan CAN bus





Item	Part#	Description
1	PK0030	Test gauge, fuel/air
2	PK0072	Datalink kit *(not shown)*
3	200980K	Software, datalink *(not shown)* (available at www.proheat.com)

Item	Part#	Description
4	SL9301	Service manual (available at www.proheat.com)
5	SL9311	Parts manual (available at www.proheat.com)

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