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AVIONICS • INTERIOR • MAINTENANCE • PAINT REFINISHING

SERVICE LETTER 222

Maule 2350A & 3000A Hydraulic Pump Replacement

Aircraft Makes/Model(s):	Float Model(s):	Compliance: Optional	By: MAB
Maule MX-7-180B, MX-7-180C, MX-7-235, MX-7-420, MXT-7-180, M-6-235, M-7-235, M-7-235B, M-7-235C, M-7-260, M-7-260C, M-7-420A, M-7-420AC, MT-7-260, MX-7-235	2350A 3000A	Part Number: 1011615	Approved: SDW
		Date: 5/7/2021	Revision: A

LOG OF REVISIONS

Revision	Description	Date
A	Initial release	5/7/2021

FAA approval has been obtained for technical data in this publication that affects STC or TSO design compliance.

EFFECTIVITY:

This service letter applies to Maule models MX-7-180B, MX-7-180C, MX-7-235, MX-7-420, MXT-7-180 with Wipline 2350 Amphibian Floats installed per STC SA01411CH. It also applies to Maule models M-6-235, M-7-235, M-7-235B, M-7-235C, M-7-260, M-7-260C, M-7-420A, M-7-420AC, MT-7-260, MX-7-235 with Wipline 3000 Amphibian Floats installed per STC SA01412CH.

COMPLIANCE:

Optional compliance

BACKGROUND:

The 12 VDC Hydraulic Pump Assembly p/n 23A09000-225 and the 24 VDC Hydraulic Pump Assembly p/n 23A09000-276 have both been discontinued. This service letter provides the option to replace them with a 12 VDC pump p/n 1011611 or with the 24 VDC pump p/n 1011612.

COMPLIANCE METHOD:

Install provided parts as shown in the Work Instruction section of this service letter.

APPROXIMATE SHOP HOURS:

The work instruction for this service letter will take approximately 8 labor hours.

WEIGHT AND BALANCE CHANGE:

+4 lbs, F.S. 82.02

WARRANTY INFORMATION:

This service letter does not include warranty for labor and parts.

TECHNICAL DATA:

Copies of this service letter, associated service kit (if applicable), float service manual, and float parts manual are available at www.wipaire.com.

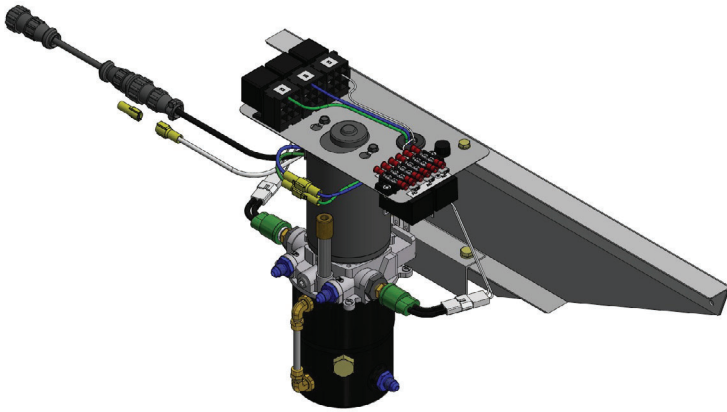
1700 Henry Ave - Fleming Field (KSGS), South St. Paul, MN 55075

Phone: 651.451.1205 | Fax: 651.457.7858

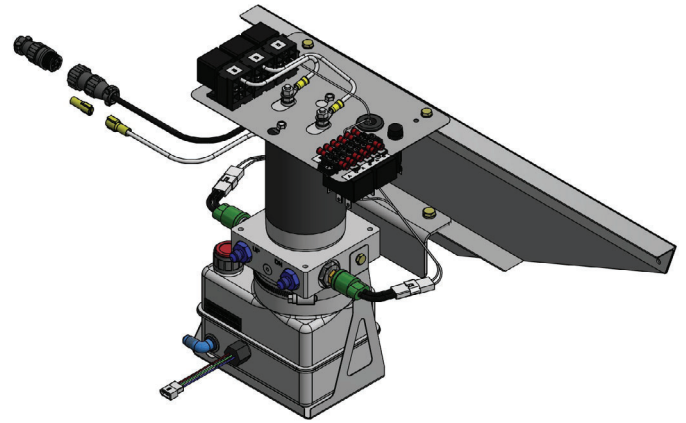
www.wipaire.com

ITEMS PROVIDED IN SERVICE KIT 1011615-01 (HYDRAULIC PUMP 12 VDC ONLY)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1011611	ASSEMBLY, HYDRAULIC POWER PACK, 12V



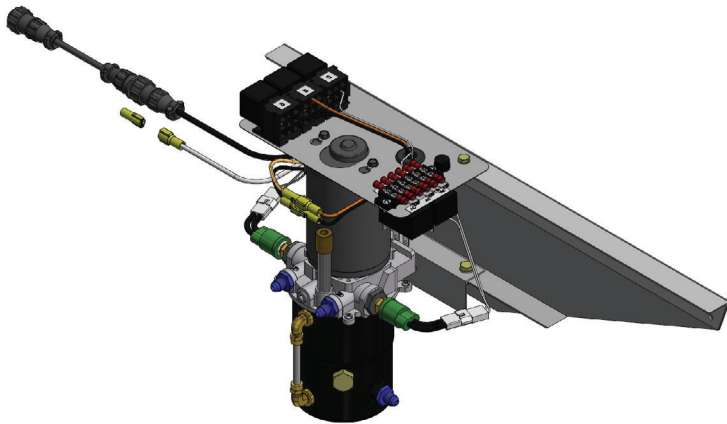
**DISCONTINUED 12 VDC
HYDRAULIC PUMP 23A09000-225**



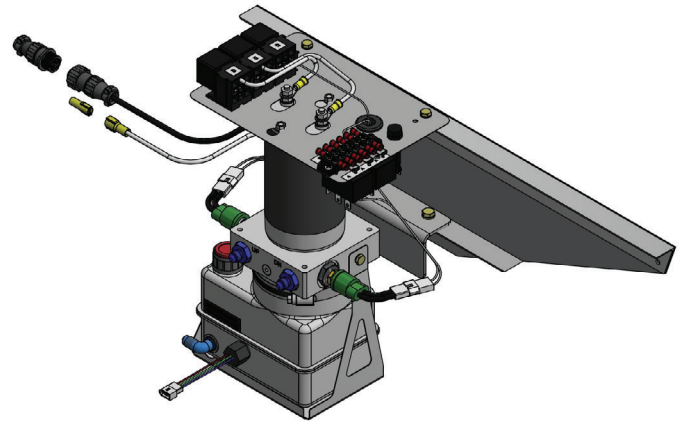
**NEW 12 VDC
HYDRAULIC PUMP 1011611**

ITEMS PROVIDED IN SERVICE KIT 1011615-02 (HYDRAULIC PUMP 24 VDC ONLY)

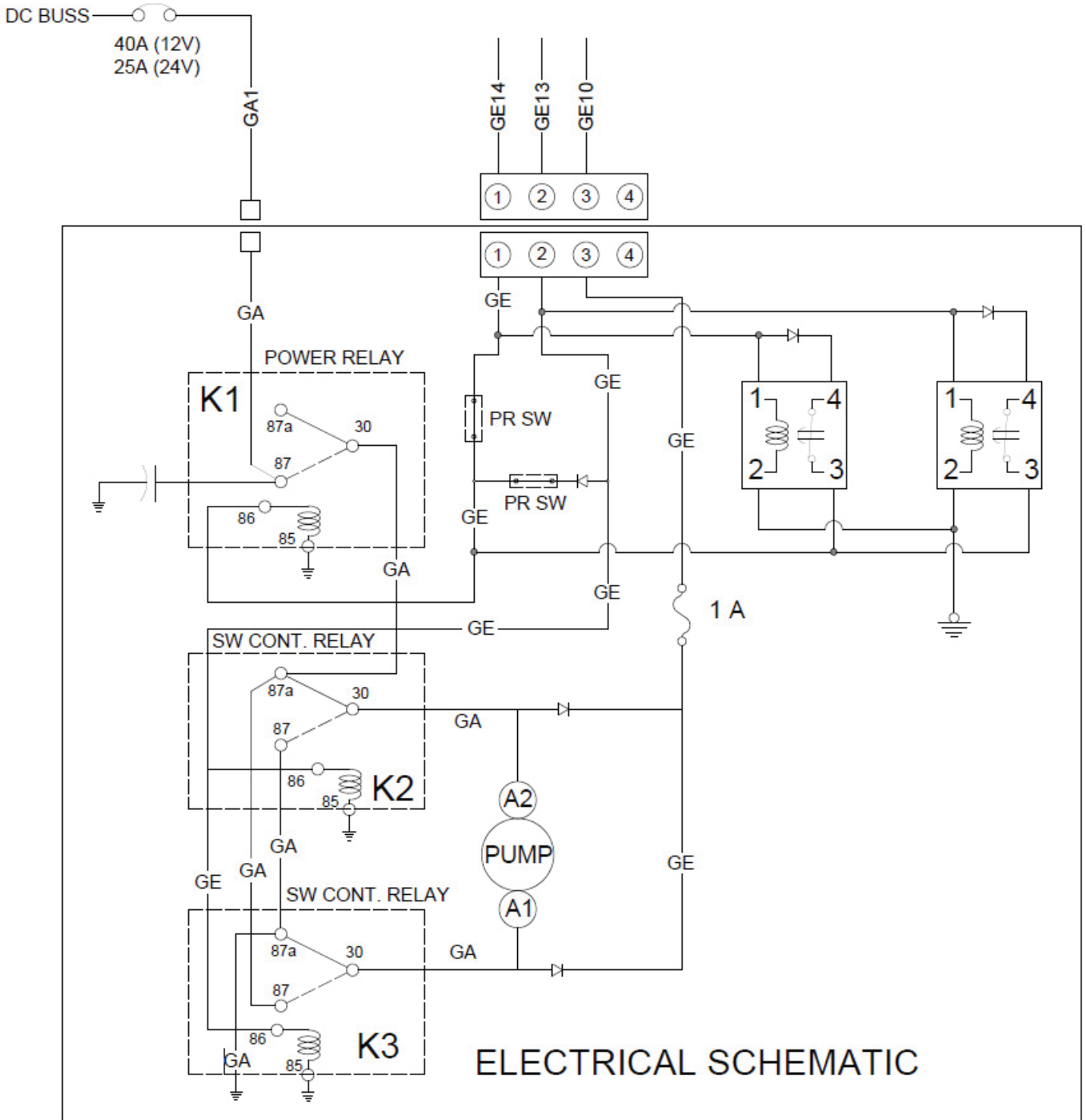
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1011612	ASSEMBLY, HYDRAULIC POWER PACK, 24VDC



**DISCONTINUED 24 VDC
HYDRAULIC PUMP 23A09000-276**



**NEW 24 VDC
HYDRAULIC PUMP 1011612**



ELECTRICAL SCHEMATIC

Work Instruction

Hydraulic Pump 12 VDC Installation:

1. Disconnect aircraft battery.
2. Disconnect single pin Molex connector for GA1 wire.
3. Disconnect 4 pin CPC connector from hydraulic power pack assembly 23A09000-225.
4. If aircraft has a hydraulic low level warning system, disconnect wire harness from sensor in reservoir.
5. Drain hydraulic fluid from hydraulic power pack reservoir.
6. Disconnect and cap 21A09000-208 hydraulic line from reservoir to hand pump.
7. Disconnect and cap 21A09000-204 hydraulic lines from pump up and dn ports to cross fittings.
8. Unbolt and remove hydraulic power pack 23A09000-225 from fuselage clamps.
9. Install new hydraulic power pack 1011611 onto fuselage clamps using existing hardware.
10. Re-install hydraulic lines 21A09000-204 onto pump manifold up and dn ports.
11. Re-install hydraulic line 21A09000-208 to pump reservoir fitting.
12. If aircraft has a hydraulic low level warning system, reconnect wire harness to sensor in new reservoir.
13. Re-install 4 pin CPC connector. See electrical schematic.
14. Cut single pin Molex connector from GA1 wire. Install 73F-250-32NL connector onto GA1 wire. Connect GA1 wire to power wire on hydraulic pump assembly. See electrical schematic.
15. Reconnect aircraft battery, service pump reservoir with MIL-H-5606 hydraulic fluid, and perform a retraction/extension test to make sure system is functioning correctly. Watch the system for leaks and add MIL-H-5606 hydraulic fluid as needed.

Hydraulic Pump 24 VDC Installation:

1. Disconnect aircraft battery.
2. Disconnect single pin Molex connector for GA1 wire.
3. Disconnect 4 pin CPC connector from hydraulic power pack assembly 23A09000-276.
4. If aircraft has a hydraulic low level warning system, disconnect wire harness from sensor in reservoir.
5. Drain hydraulic fluid from hydraulic power pack reservoir.
6. Disconnect and cap 21A09000-208 hydraulic line from reservoir to hand pump.
7. Disconnect and cap 21A09000-204 hydraulic lines from pump up and dn ports to cross fittings.
8. Unbolt and remove hydraulic power pack 23A09000-276 from fuselage clamps
9. Install new hydraulic power pack 1011612 onto fuselage clamps using existing hardware.
10. Re-install hydraulic lines 21A09000-204 onto pump manifold up and dn ports.
11. Re-install hydraulic line 21A09000-208 to pump reservoir fitting.
12. If aircraft has a hydraulic low level warning system, reconnect wire harness to sensor in new reservoir.
13. Re-install 4 pin CPC connector. See electrical schematic.
14. Cut single pin Molex connector form GA1 wire. Install 73F-250-32NL connector onto GA1 wire. Connect GA1 wire to power wire on hydraulic pump assembly. See electrical schematic.
15. Reconnect aircraft battery, service pump reservoir with MIL-H-5606 hydraulic fluid, and perform a retraction/extension test to make sure system is functioning correctly. Watch the system for leaks and add MIL-H-5606 hydraulic fluid as needed.

Aircraft Closing & Return to Service

1. Upon completion of inspection, enter information in Aircraft Logbook for completion of Wipaire Service Letter 222.