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SERVICE LETTER 214

Pilatus 6100A Hydraulic Pump Replacement

Aircraft Makes/Model(s):	Float Model(s):	Compliance: Optional	By: MAB
Pilatus PC-6	6100A	Part Number: 1011549	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 Pilatus model PC-6 with Wipline 6100 Amphibian Floats installed per STC SA227CH.

COMPLIANCE:

Optional compliance

BACKGROUND:

Bi-Directional Hydraulic Pump Assembly p/n 1005294 has been discontinued. This service letter provides the option to replace it with a new bi-directional pump p/n 1011436. Uni-Directional Hydraulic Pump Assembly p/n 6A09000-029 has been discontinued. This service letter provides the option to replace it with a new uni-directional pump p/n 1011404.

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:

PC-6 Uni-Directional Pump Only +4 lbs, F.S. 262.50 inches

PC-6 Bi-Directional Pump Only +6.1 lbs, F.S. 262.50 inches

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.

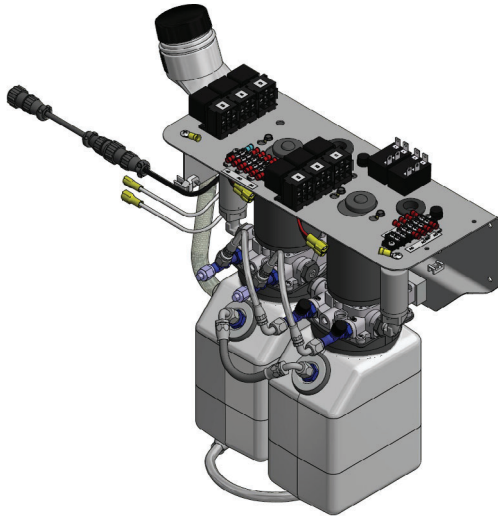
1700 Henry Ave - Fleming Field (KSGS), South St. Paul, MN 55075

Phone: 651.451.1205 | Fax: 651.457.7858

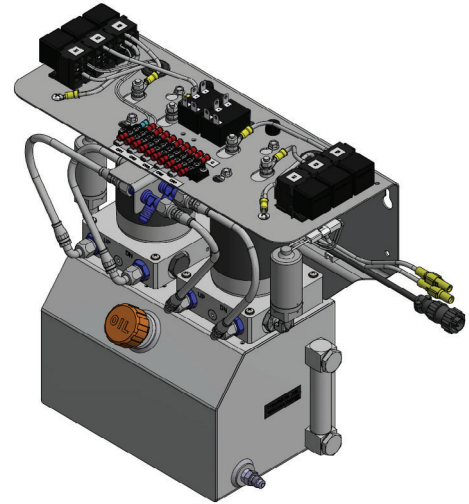
www.wipaire.com

ITEMS PROVIDED IN SERVICE KIT 1011549-01 (BI-DIRECTIONAL PUMP)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1011436	Assembly, Hydraulic Power Pack
2	2	3TC2-30	Circuit Breakers, 30 Amp



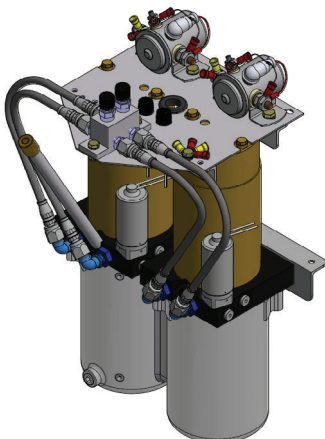
**DISCONTINUED BI-DIRECTIONAL
HYDRAULIC PUMP 1005294**



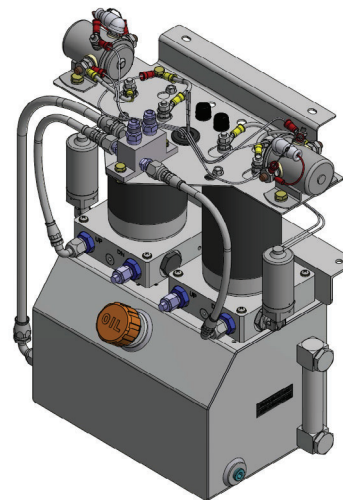
**NEW BI-DIRECTIONAL
HYDRAULIC PUMP 1011436**

ITEMS PROVIDED IN SERVICE KIT 1011549-02 (UNI-DIRECTIONAL PUMP)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1011404	Assembly, Hydraulic Power Pack
2	2	320559	Crimp Terminal, Butt, 22-16 AWG



**DISCONTINUED UNI-DIRECTIONAL
HYDRAULIC PUMP 6A09000-029**

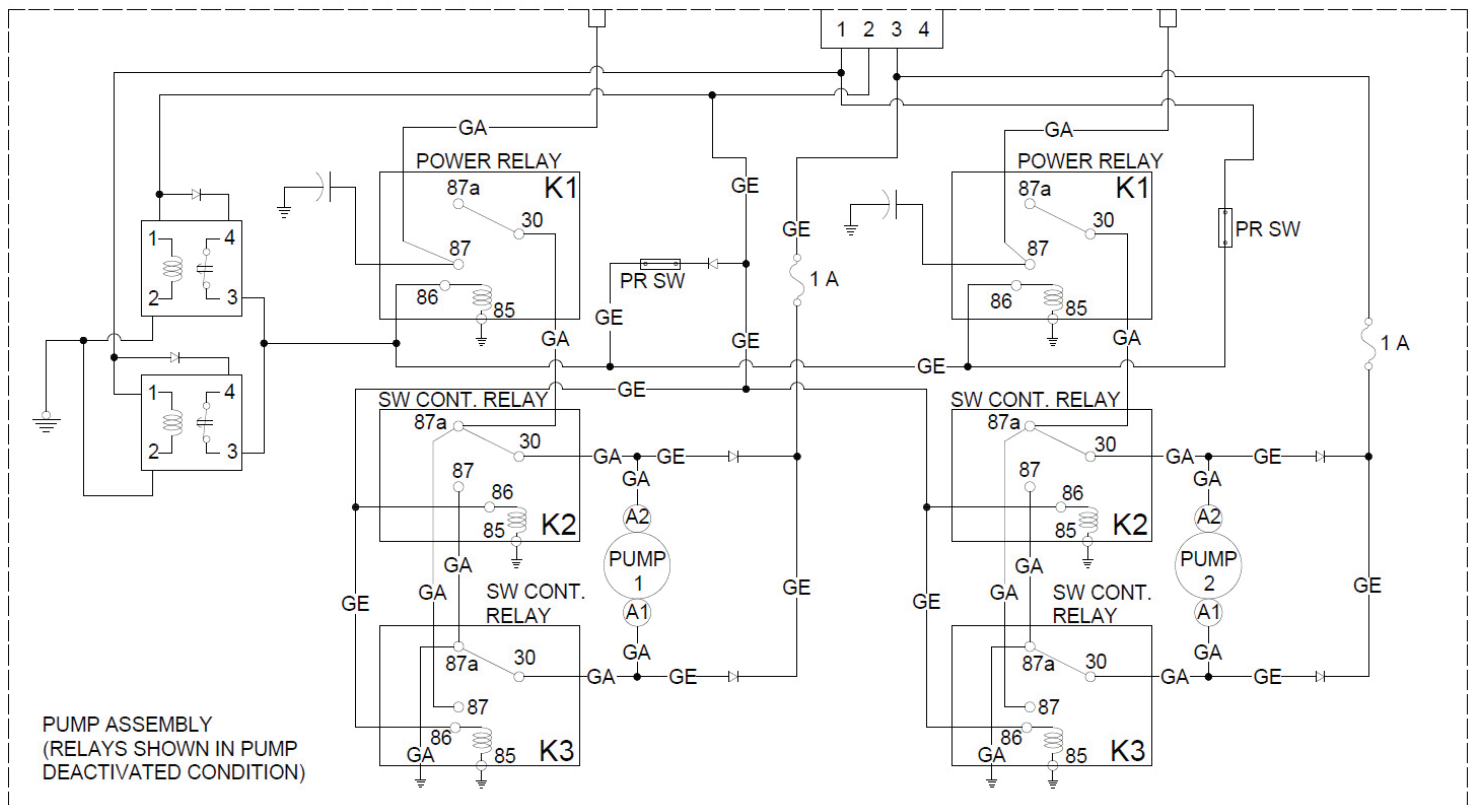


**NEW UNI-DIRECTIONAL
HYDRAULIC PUMP 1011404**

Work Instruction

Bi-Directional Pump

1. Disconnect aircraft battery.
2. Disconnect single pin Molex connectors for GA1 and GA4 (12 ga) wire.
3. Disconnect 4 pin CPC connector from hydraulic power pack assembly 1005294.
4. Disconnect and cap hydraulic lines 1005288-03 from hydraulic power pack manifolds going to 1005262 manifold in belly of aircraft.
5. Drain hydraulic fluid from both hydraulic power pack reservoirs.
6. Disconnect and cap hydraulic line 1005288-06 from hydraulic power pack reservoir.
7. Unbolt and remove hydraulic power pack 1005294 from pump mount assembly.
8. Install new hydraulic power pack 1011436 onto pump mount assembly using existing hardware.
9. Re-install hydraulic lines 1005288-03 onto hydraulic power pack tees.
10. If required, remove and swap hydraulic fittings AN816-4-4D and MS27769D3 on hydraulic power pack reservoir.
11. Re-install hydraulic line 1005288-06 onto hydraulic power pack reservoir.
12. Re-install 4 pin CPC connector. See electrical schematic.
13. Cut single pin Molex connector from GA1 and GA4 (12 ga) wires. Install 73M-250-32NL connector onto GA1 wire and 73F-250-32-NL connector onto GA4 wire. Connect GA1 wire to pump 1 and GA4 wire to pump 2. See electrical schematic.



ELECTRICAL SCHEMATIC - BI-DIRECTIONAL PUMPS



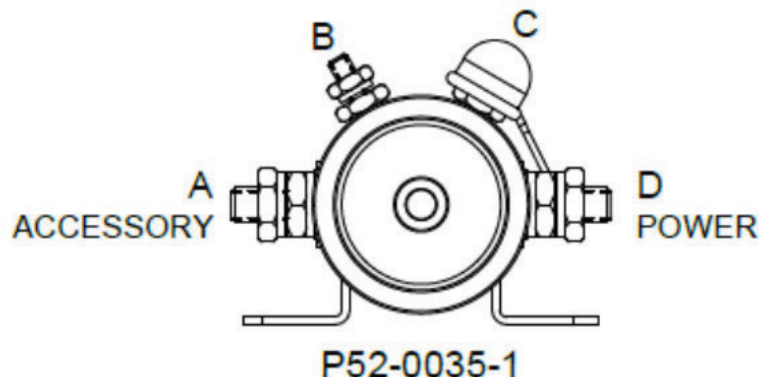
CIRCUIT BREAKER HOUSING

14. Remove two 20 amp Pump 1 and Pump 2 circuit breakers P/N 7277-2-20 from 1005264 circuit breaker housing located on top of circuit breaker panel.
15. Install two 30 amp Pump 1 and Pump 2 circuit breakers P/N 3TC2-30 into 1005264 circuit breaker housing. See electrical schematic.
16. 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.

Work Instruction

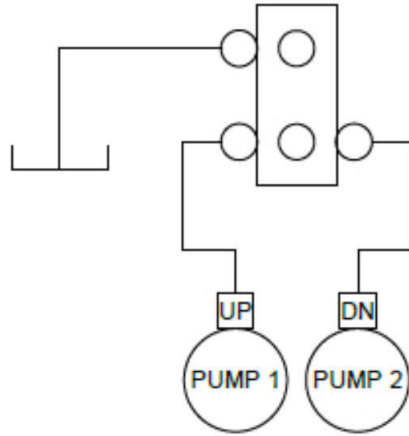
Uni-Directional Pump

1. Pull Pump 1 and Pump 2 circuit breakers.
2. Remove and cap both pressure and return hydraulic lines on hydraulic pump manifold 6A09000-027.
3. Remove GA1 and GA4 wires (12 ga) from electrical solenoids on hydraulic power pack 6A09000-029.

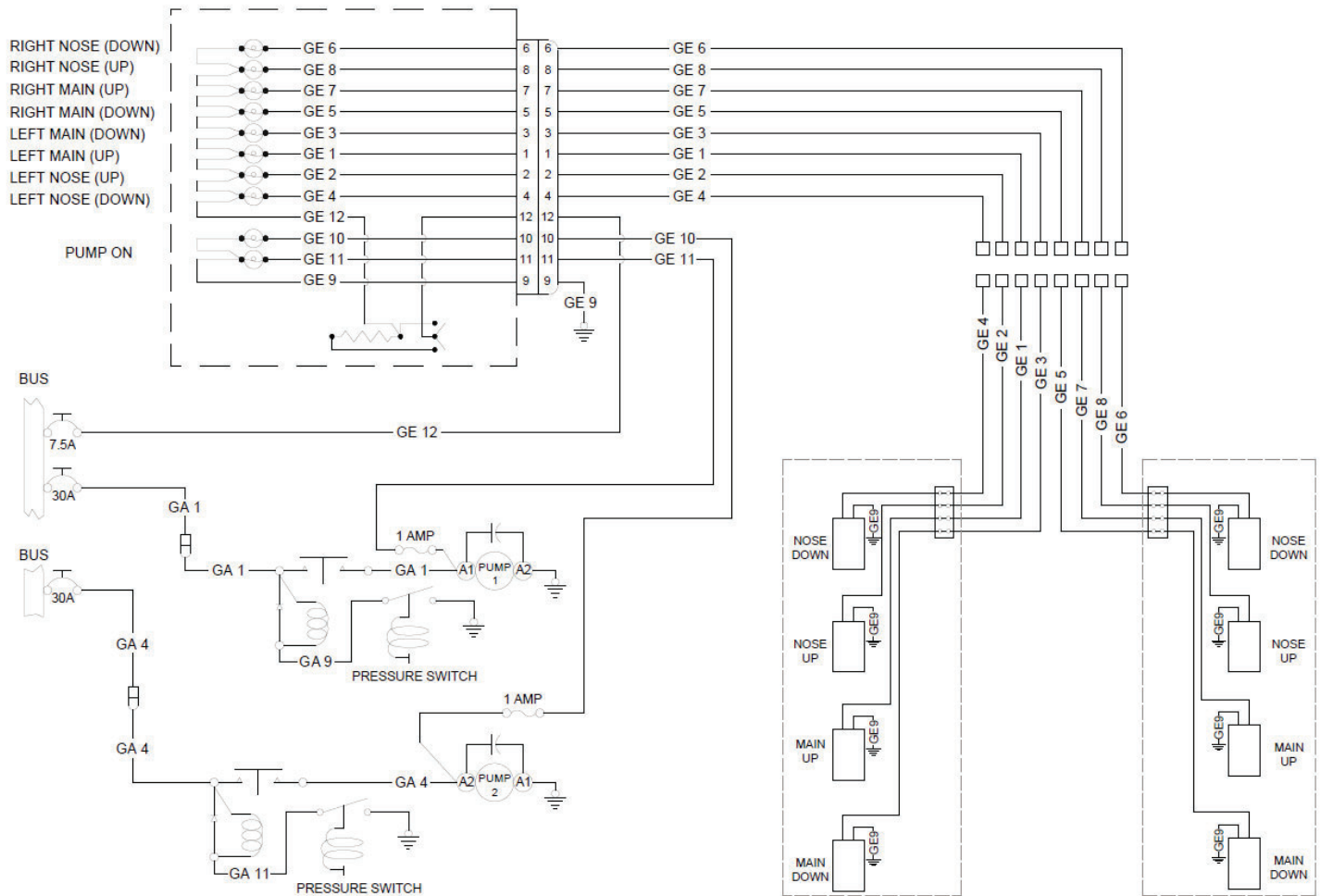


SOLENOID SCHEMATIC

4. Cut GE10 and GE11 wires (20 ga) at butt splice connection.
5. Unbolt and remove hydraulic power pack 6A09000-029 from pump mount assembly.
6. Install new hydraulic power pack 1011404 onto pump mount assembly using existing hardware.
7. Install pressure and return line to hydraulic pump manifold. Refer to hydraulic schematic.



HYDRAULIC SCHEMATIC



ELECTRICAL SCHEMATIC UNI-DIRECTIONAL PUMPS

8. Re-install GE10 and GE11 wires (20 ga) onto wires coming from fuse holder with supplied butt splice connectors. See electrical schematic.
9. Re-install GA1 and GA4 wires (12 ga) onto electrical solenoids on hydraulic power pack 1011404. See electrical schematic.
10. Reset Pump 1 and Pump 2 circuit breakers, 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 214.