

FOR AIR OR HYDRAULIC POWERED REACTORS

Data Reporter

309814 rev.B

Part No. 246086

Records actual temperature, temperature setpoint, actual pressure, cycles, and diagnostic code data from Reactor™ air or hydraulic powered proportioners.

Downloads data to PC with Microsoft® Windows 98 or later.


Use this manual to install 246086 Data Reporter Kit on an air or hydraulic powered Reactor. Refer to manual 309867 (supplied) for operation instructions.



PROVEN QUALITY. LEADING TECHNOLOGY.



Install Hardware

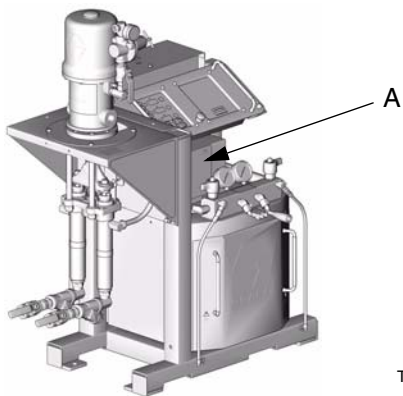
1. Turn Reactor main power OFF . Close air bleed valve or hydraulic shutoff valve to motor.

WARNING

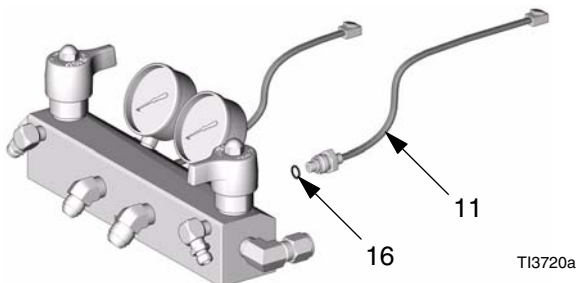


Read warnings in Reactor repair manual.

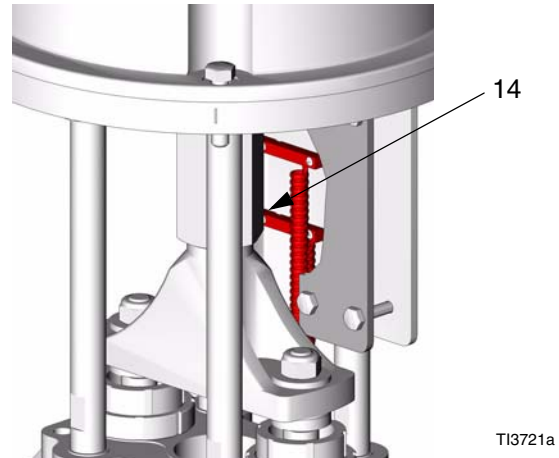
2. Remove front plate (A).



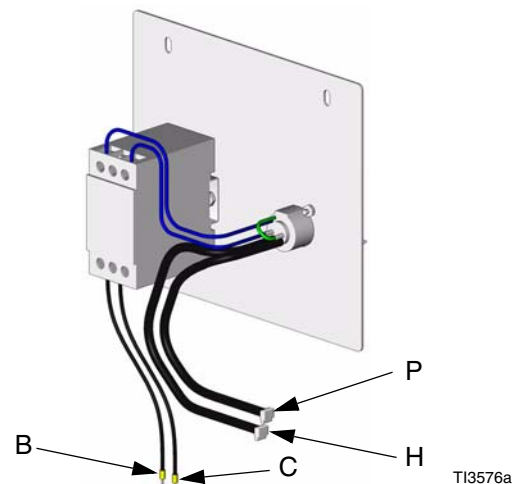
3. Remove hex head plugs from two inside ports at rear of fluid manifold. Install o-ring (16) on each transducer (11). Install transducers. Mark end of cables with tape (red=transducer A, blue=transducer B). Thread transducer cables through boot in top of cabinet.



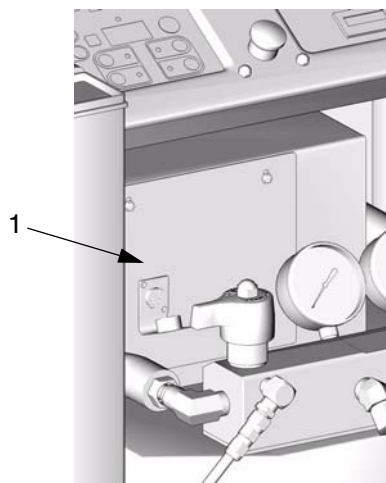
4. Install second reed switch (14) below existing switch, using screws (15). Thread switch cable into cabinet using same path as existing switch. Switches sense motion of magnet on proportioner yoke.



5. Thread wires (B, C) and cables (H, P) of interface module (1) through boot in top of cabinet.



6. Attach interface module (1).



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7. Open Reactor cabinet. See Schematic Diagram, FIG. 1, page 4.

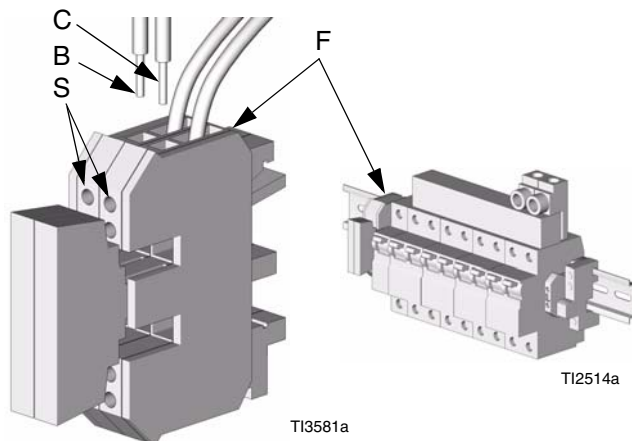


If possible, tip unit on its back to work inside cabinet.

CAUTION

Before handling boards, put on a static conductive wrist strap to protect against static discharge which can damage boards. Follow instructions provided with wrist strap.

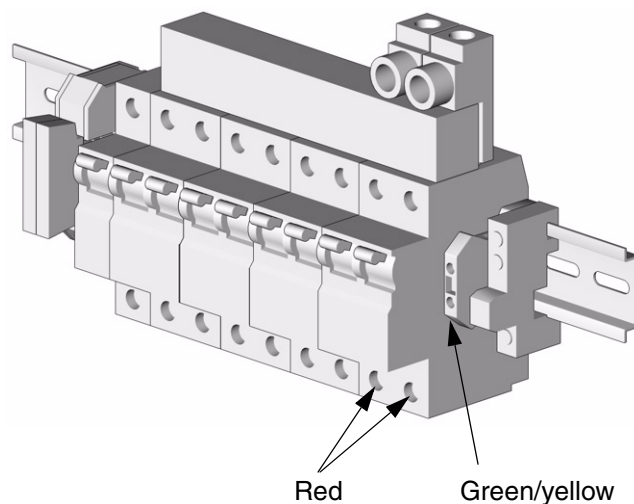
8. Put on static conductive wrist strap (9).
9. Insert interface module wires (B, C) in top front terminals of fuse block (F) at circuit breaker module. Tighten screws (S).



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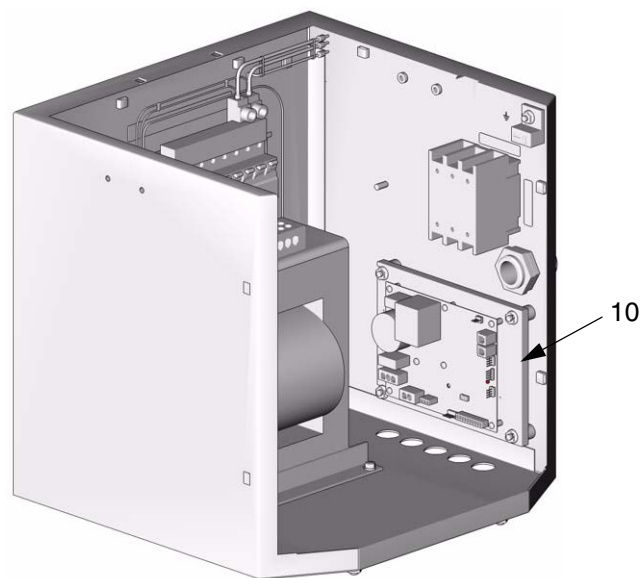
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10. Connect power harness cable (17) to circuit breaker module (red wires to circuit breaker, green/yellow wire to ground). Tighten screws.



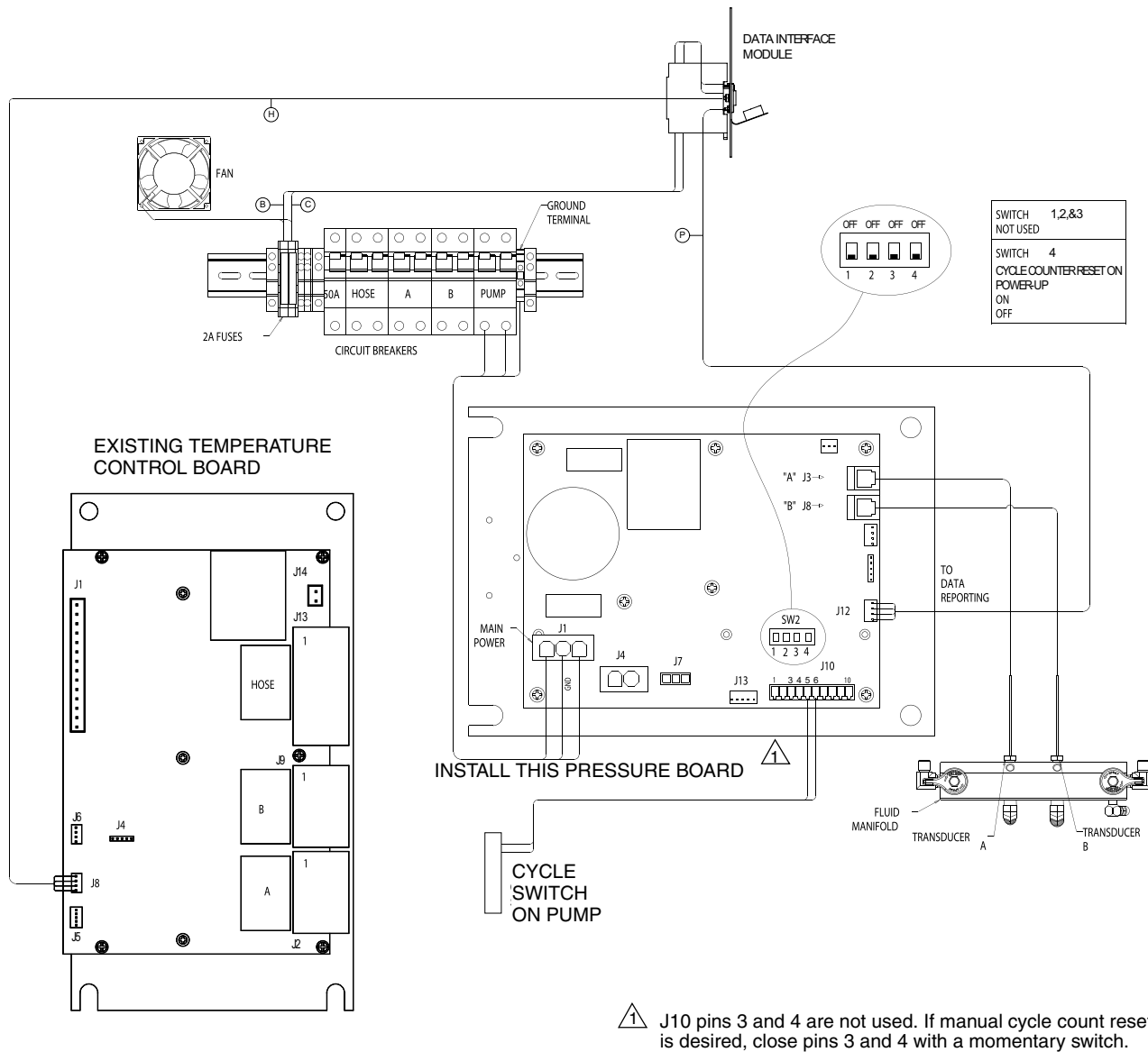
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11. Install pressure board (10) on inside right wall of cabinet, using spacers (13) and nuts (12).



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Data Reporting Kit Electrical Installation Diagram

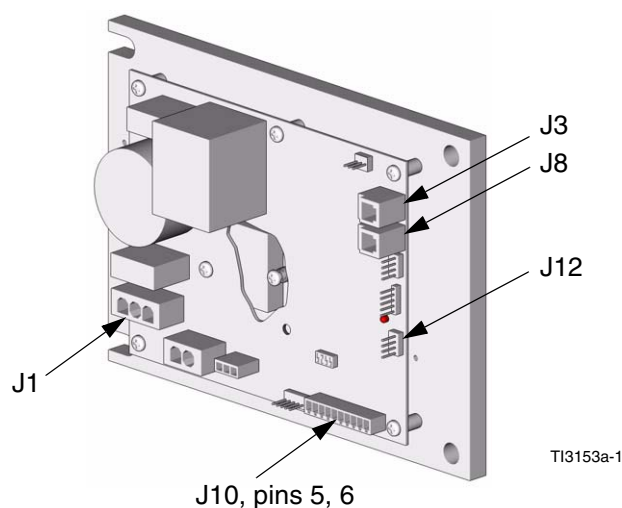


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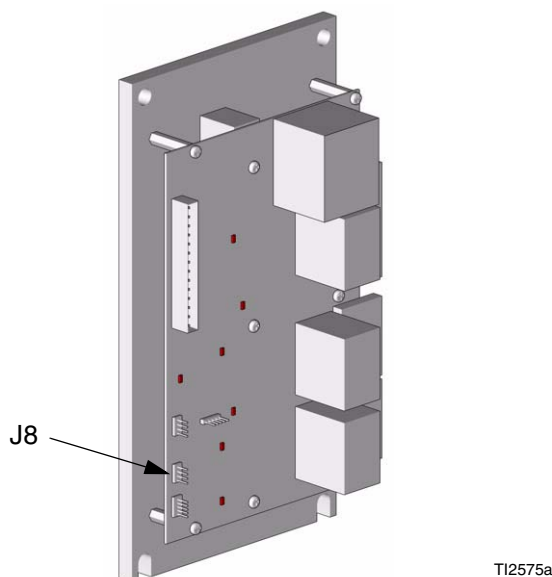
FIG. 1. Schematic Diagram

12. Make connections at pressure board (10):

- a. Power harness (17) to J1.
- b. PUMP cable to J12.
- c. Transducer A (red) to J3.
- d. Transducer B (blue) to J8.
- e. Reed switch (14) wires to J10, pins 5 and 6.

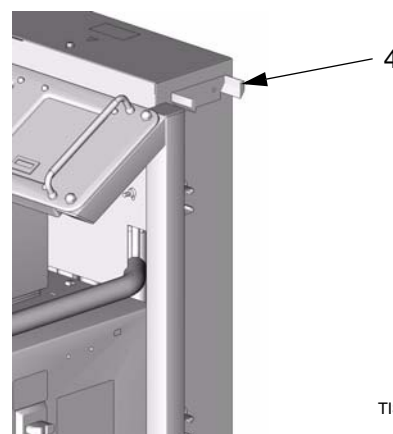


13. Connect HEAT cable to J8 on temperature control board, at inside left of cabinet.

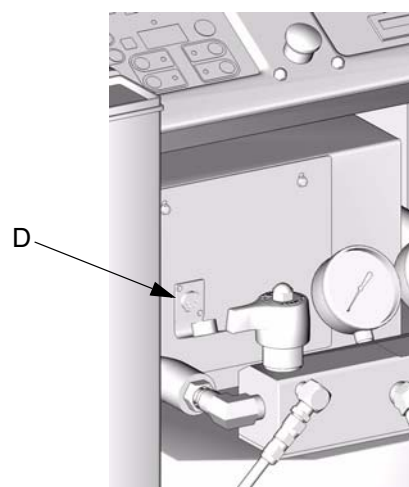


14. Secure all cables with supplied tie wraps. Close Reactor cabinet.

15. Drill holes using bracket (4) as template. Apply sealant (4c) to back of bracket. Mount on Reactor with screws (4a) and nuts (4b).



16. Connect Reporter cable to interface plug (D).



17. Reconnect power supply. Turn Reactor main power

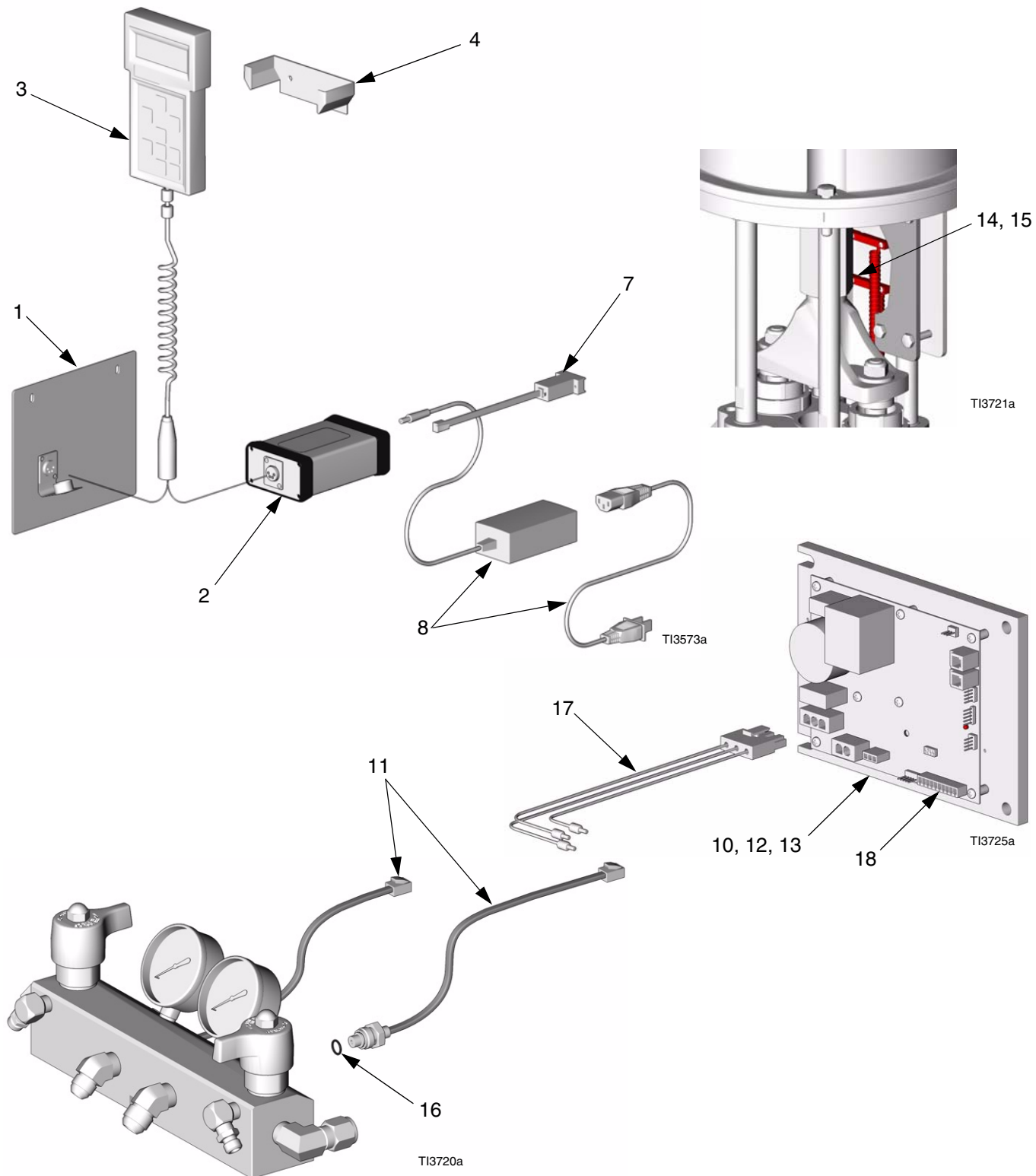


ON. Main screen will appear on Reporter, see manual 309867.

Reporter is now ready to record data from Reactor, see manual 309867.

Parts

Data Reporting Kit 246086



Data Reporting Kit 246086

Ref.					Ref.				
No.	Part No.	Description	Qty		No.	Part No.	Description	Qty	
1	246122	MODULE, interface	1		8	117829	POWER SUPPLY, 12V	1	
2	246597	CONVERTER, RS-232 to RS-485	1		9	112190	STRAP, ground, wrist; not shown	1	
3	246771	REPORTER; includes 3a	1		10	246598	BOARD ASSY, pressure	1	
3a	118347	. COVER; not shown	1		11	246123	TRANSDUCER, pressure control	2	
4	246772	BRACKET; includes 4a-4c	1		12	115942	NUT, hex flange; 1/4-20	4	
4a	103312	. SCREW, machine; 8-32 x 3/8 in. (10 mm)	2		13	116149	SPACER	4	
4b	100284	. NUT, hex; 8-32	2		14	117770	SWITCH, reed, with cable	1	
4c	113500	. ADHESIVE; 0.5 cc	1		15	111876	SCREW, thread-forming; 4-24 x 3/8 in. (10 mm)	2	
6	15C491	SOFTWARE, CD ROM; not shown	1		16	111457	O-RING; PTFE	2	
7	117827	CABLE, 9 pin D-SUB to RJ11	1		17	15B511	CABLE, harness, power	1	
					18	116773	CONNECTOR, switch to board	1	

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