

DataTrak™ Conversion Kit

311486 rev.A

To convert NXT Air Motors to include DataTrak module.

Part No. NXT606 Kit, for NXT Model 6500 Air Motors

Part No. NXT306 Kit, for NXT Model 3400 Air Motors

Part No. NXT206 Kit, for NXT Model 2200 Air Motors



Important Safety Instructions

Read all warnings and instructions in this manual
and in the NXT air motor manual 311238.
Save these instructions.

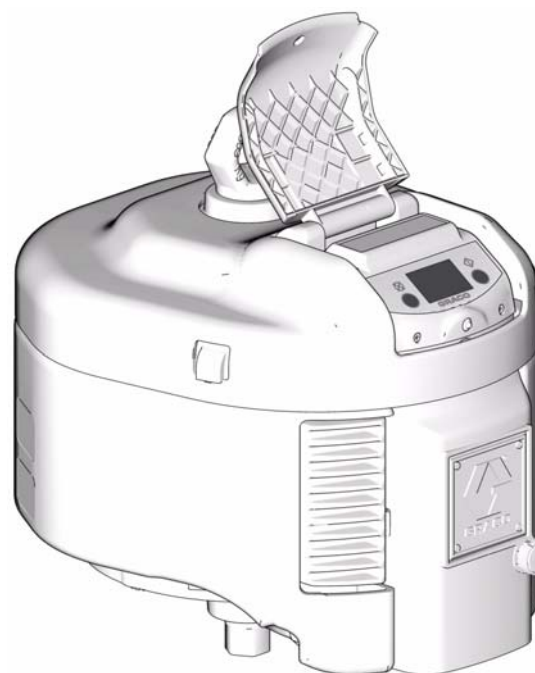
**Models with DataTrak™ include
agency approvals listed below.**



Conforms to
FM std 3600 & 3610
for use in Class I Div 1
Group D
T3C Hazardous locations



EEx ia IIA T3
Nemko
06ATEX1124



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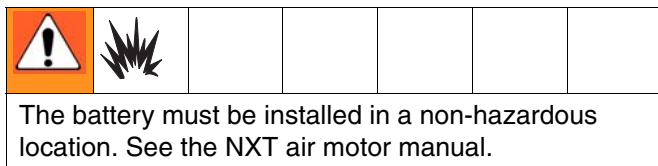
PROVEN QUALITY. LEADING TECHNOLOGY.



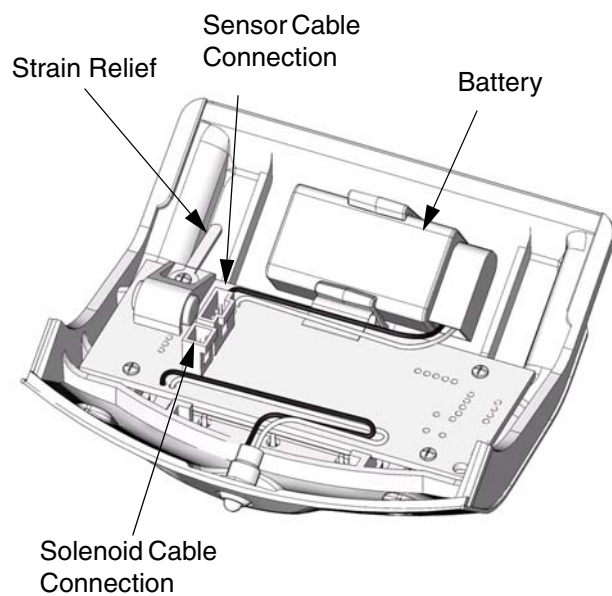
A series of horizontal lines for writing, consisting of 20 rows. Each row is defined by two parallel lines, with a small gap between the lines in each row.

Installation

Install the Battery



1. Take the DataTrak™ module (1) to a non-hazardous location.
2. Install the battery, see FIG. 1. Always use a Graco-approved battery, see the NXT air motor manual.

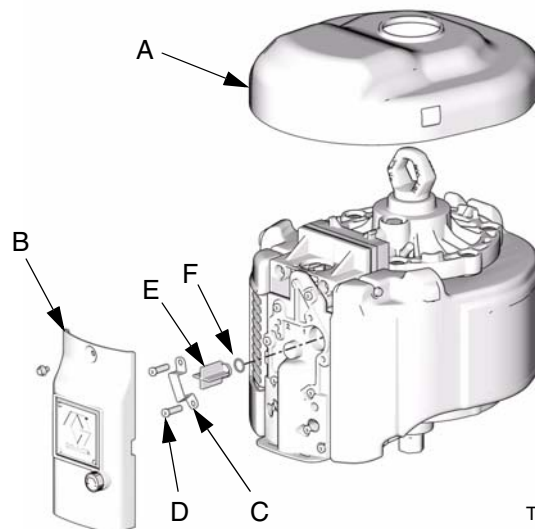


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FIG. 1. Battery Location and Module Cable Connections

Disassembly

1. Stop the pump during the upstroke. Relieve the pressure, see the NXT air motor manual.
2. Disconnect the air line to the motor.
3. See FIG. 2. Pry off the top cover (A) and discard. Remove the air valve cover (B), solenoid clip (C), and screws (D); keep for reuse. Remove and discard the solenoid plug (E) and o-ring (F).




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FIG. 2. Disassembly


Install the Kit

1. Install the solenoid (7), positioning the wires so they will not interfere with the clip (C). Secure with the clip (C) and screws (D). Torque to 100 in-lb (11.3 N•m). See FIG. 3. Connect the solenoid cable to the connector on the underside of the module (1). See FIG. 1.
2. Install the reed switch sensor (5) and secure with the screw (6) and o-ring (13). See FIG. 3. Connect the sensor cable to the connector on the underside of the module (1). See FIG. 1.
3. Install the DataTrak™ housing (2) to the air valve (G) with two screws (4). See FIG. 3.
4. Tuck the sensor wires and solenoid wires under the strain relief in the DataTrak™ module (1). Install the module to the housing (2) with two screws (3).
5. Reinstall the air valve cover (B) with one screw, positioning the wires in the notch of the housing (2).
6. Install the new cover (8).
7. Reconnect the air line to the motor.

 See the NXT air motor manual 311238 for complete DataTrak instructions.


Check for Proper Assembly

 See the NXT air motor manual 311238 for setup mode instructions.

1. Enable runaway  and set the runaway limit.

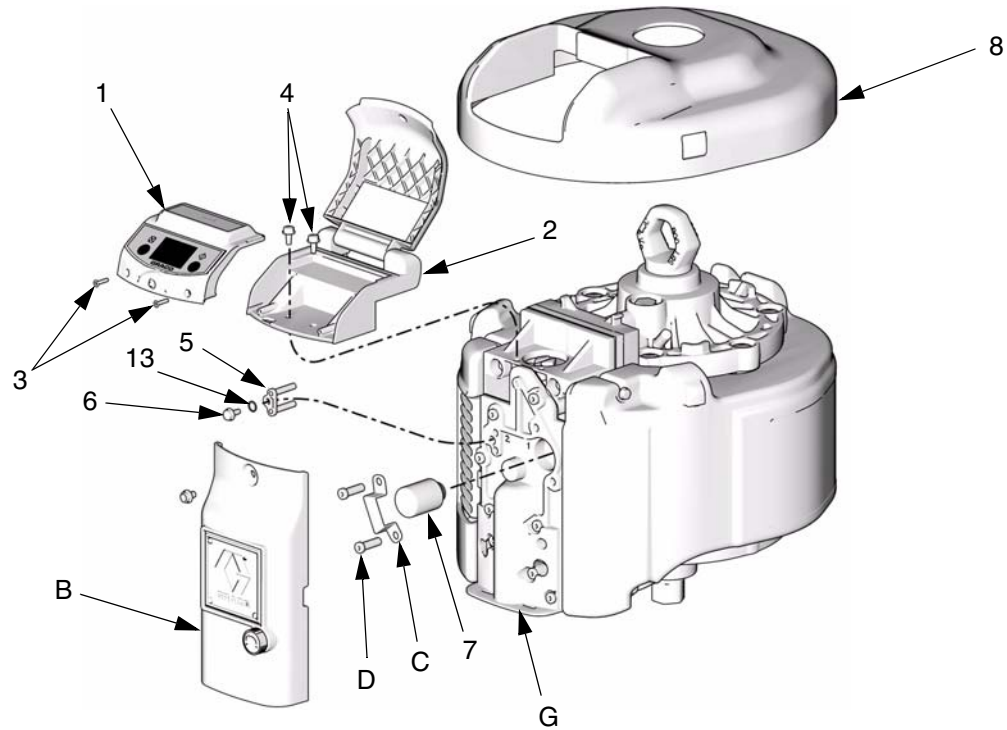


Graco recommends setting runaway to 60.

2. Run the air motor at a speed slower than the runaway limit.
3. Check for proper reed switch operation.
 - a. The DataTrak pump icon should match the movement of the air motor piston.
 - b. The Grand Totalizer and Batch Totalizer should increase by 1 for every air motor cycle.
4. Check for proper runaway operation.
 - a. After 5 consecutive cycles of the air motor running faster than the runaway limit, the DataTrak should stop the air motor and display the runaway diagnostic screen.
 
 - b. Follow the runaway reset instructions in the NXT air motor manual 311238.
 - c. After resetting, turn on the air supply. The air motor should run.
 - d. Shut off the air.

5. Configure the DataTrak as needed. See the NXT air motor manual 311238 for all DataTrak operation instructions.

Parts



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FIG. 3. Parts Drawing

Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	NXT402	MODULE, DataTrak; includes items 1a and 3	1	5	NXT404	SENSOR, reed switch; includes items 6 and 13	1
1a	NXT413	. FUSE; 250 mA	1	6	119426	SCREW, machine, hex washer hd; 1/4-20 x 1 in. (25 mm)	1
2	NXT401	HOUSING, DataTrak; includes items 2 and 4	1	7	NXT403	SOLENOID; 7 Vdc	1
3	120279	SCREW, thread-forming; #6 x 5/8 in. (16 mm)	2	8	15G574	COVER, top; for NXT Model 6500	1
4	107257	SCREW, thread-forming; 1/4-20 x 1/2 in. (13 mm)	2		15G575	COVER, top; for NXT Model 3400	1
					15G576	COVER, top; for NXT Model 2200	1
				13	156454	O-RING; buna-N	1
				14	15G722	CARD, diagnostic (not shown)	1

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