

AIR TRANSFORMER MODEL 202-660 SERIES "A"

180 PSI -- 12 bar -- MAXIMUM WORKING PRESSURE

DESCRIPTION

Graco air transformers are designed to assure constant pressure delivery of clean, dry air to spray guns and air-powered pumps. Centrifugal action through the metal, permanent-type filter removes dirt, oil and entrained moisture from the air. Regulates pressures to any point throughout a range of 0 to 180 p.s.i. Inlet is $\frac{1}{2}$ " N.P.T. female. Two outlets with individual shut-off valves are $\frac{1}{4}$ " N.P.T. male. See Figure 1 for locations of inlet and outlets and overall dimensions.

INSTALLATION

Using two $\frac{5}{16}$ " dia. bolts, mount transformer to wall or control panel. Refer to Figure 1 for location of mounting holes. Install a master shut-off valve (bleeder type) in main air line in such location that air can be turned off and on before reaching air transformers. Air line can be brought into air transformer from either side. Plug inlet not used with pipe plug 100-737 supplied.

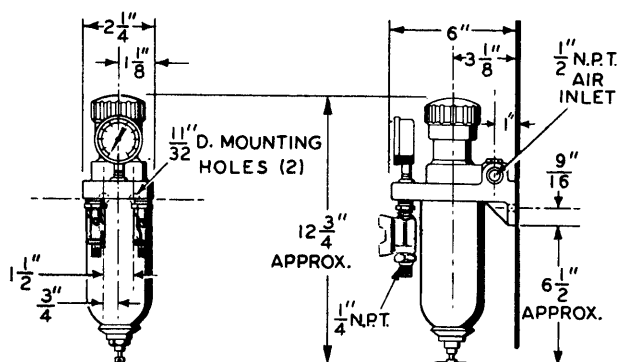


FIG. 1 Weight : 6lb.

Make suitable connection between one or both transformer outlets and equipment to be served. Transformers are equipped with an adjusting knob 158-068. To increase air pressure, turn adjusting knob clockwise and to decrease pressure turn it counterclockwise.

MAINTENANCE

BLOW OFF WATER AND OIL DAILY, by opening drain cock 203-499 for a few moments, while air is supplied to transformer. See parts illustration.

CLEAN STRAINER AND FILTER REGULARLY. Schedule cleaning in accordance with intensity of transformer service and with condition of original air supply and lines.

1. To clean strainer 158-005 - Remove nut 156-944, gasket 150-647 and strainer from unit and, using a stiff brush, clean strainer thoroughly in nonflammable solvent and blow dry. With a solvent-soaked cloth, swab out strainer opening in casting 158-070. Reinsert all parts and securely tighten nut 156-944 upon gasket 150-647.

2. To clean filter 157-808 - Unscrew drain cock stem 203-499 and nut 100-111 from tie rod 159-660 and remove sump 159-407. Remove pin 100-579, spring, retainer and filter held in place by pin. Using a stiff brush, thoroughly clean filter in nonflammable solvent and blow dry. Also clean out sump 159-407. Reassemble, placing all parts in order shown.

SERVICING OF AIR REGULATOR may be necessary after long periods of usage for the following reasons: (Refer to parts illustration.)

1. Worn diaphragm 203-752. This would allow air to escape under knob 158-068.

2. Erratic operation of regulator valve or inactive valve may be due to:
(Remove seat 157-798 from head 158-070 to check.)

a. Broken spring 156-200, indicated by erratic air delivery or chattering within transformer.

b. Dirty, damaged or worn valve 157-800 or seat 157-798. This would permit pressure to creep above setting at which transformer was regulated. Note reading of gauge 101-180.

c. Stuck valve 157-800. This would prevent regulation or reduction of pressure.

d. Loss of lubricant in head cavity, indicated by vibration "singing" and erratic regulation.

To remedy, remove knob 158-068 and disassemble regulator as far as necessary to remove and replace affected parts or thoroughly clean and re-lubricate parts. Reassemble parts. Before reinserting friction spring 158-188, spring 156-200 and valve 157-800 into cavity in transformer head 158-070, fill cavity about $\frac{3}{4}$ full of fibrous type water pump grease. After replacing valve seat 157-798 and tightening securely, check under pressure to be sure there is no leakage between valve seat and head.

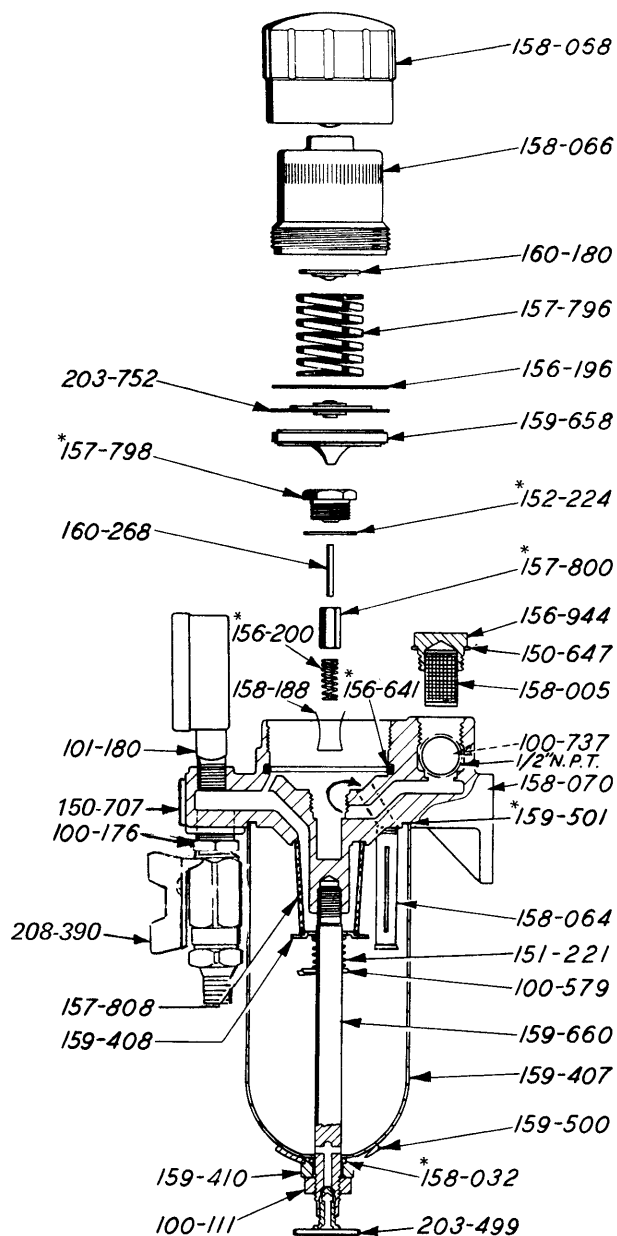
Complete reassembly, reverse from disassembly.

NOTE

When removing or replacing air gauge 101-180 in transformer head, use wrench on shank of gauge, only. Replace with a pre-tested gauge.

PARTS LIST

PART NO.	DESCRIPTION	QTY.
100-111	NUT, hex jam; 1/2-20	1
100-176	BUSHING; 3/8 npt (m) x 1/4 npt (f)	2
100-579	PIN, cotter	1
100-737	PLUG, pipe; 1/2 npt	1
101-180	GAUGE, air; 0-200 lb	1
150-647	GASKET	1
150-707	PLATE, serial	1
151-221	SPRING, compression	1
* 152-224	GASKET, copper	1
156-196	GASKET	1
* 156-200	SPRING, compression	1
* 156-641	O-RING, nitrile rubber	1
156-944	PLUG, strainer	1
157-796	SPRING, compression	1
* 157-798	SEAT, valve	1
* 157-800	VALVE, regulator	1
157-808	FILTER	1
158-005	STRAINER, 100 mesh	1
* 158-032	O-RING; nitrile rubber	1
158-064	TUBE, circulating	1
158-066	CAP, regulator	1
158-068	KNOB, adjusting	1
158-070	HEAD, air transformer	1
158-188	SPRING, valve friction	1
159-407	SUMP, transformer	1
159-408	RETAINER, filter	1
159-410	RETAINER, seal	1
159-500	CAP, reinforcement	1
* 159-501	GASKET	1
159-658	PLATE, baffle	1
159-660	ROD, tie	1
160-180	PLATE, spring retainer	1
160-268	PIN, regulator	1
203-499	STEM, drain cock	1
203-752	DIAPHRAGM	1
208-390	BALL VALVE (see 307-068 for service)	1



*SUGGESTED REPLACEMENT PARTS

Order parts by number and name. Also give series letter and model number for which parts are ordered. Call or write your Graco distributor, nearest Graco factory branch or service depot for parts or service.

SERVICE INFORMATION

Listed below are OLD and NEW parts.

PART DESIGNATION	PART NO.	NAME
OLD	202-339	Petcock
NEW	208-390	Ball Valve

INTERCHANGEABILITY NOTE: NEW part replaces OLD part.

DISCONTINUED PRODUCT NOTE: Model 203-175 has been discontinued.



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