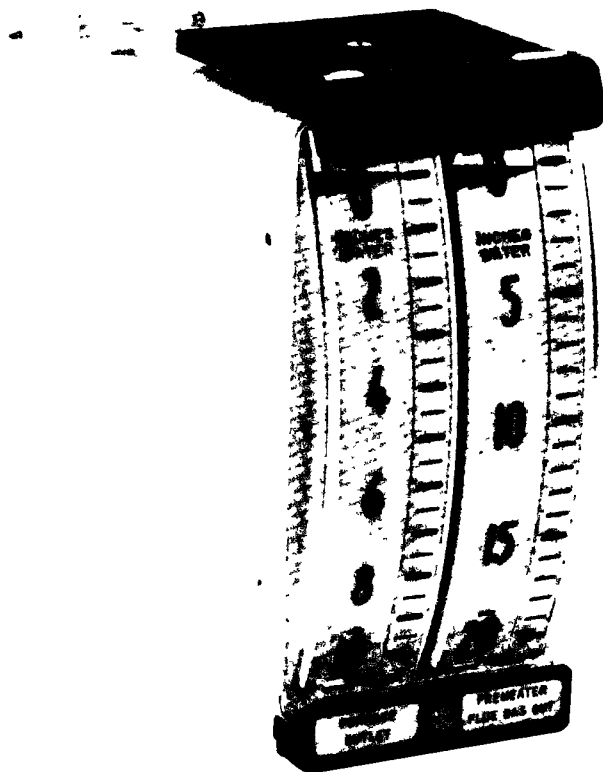


BaileySECTION
M42-5**PRODUCT INSTRUCTIONS****TYPE PG MULTI-POINTER GAGE****BAILEY METER COMPANY • WICKLIFFE, OHIO 44092**

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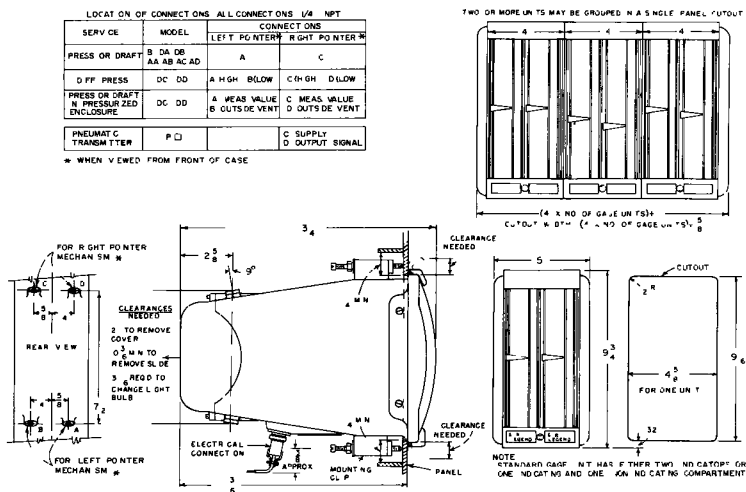


FIGURE 1 Mounting Dimensions for Flush Mounted Type PG Gage

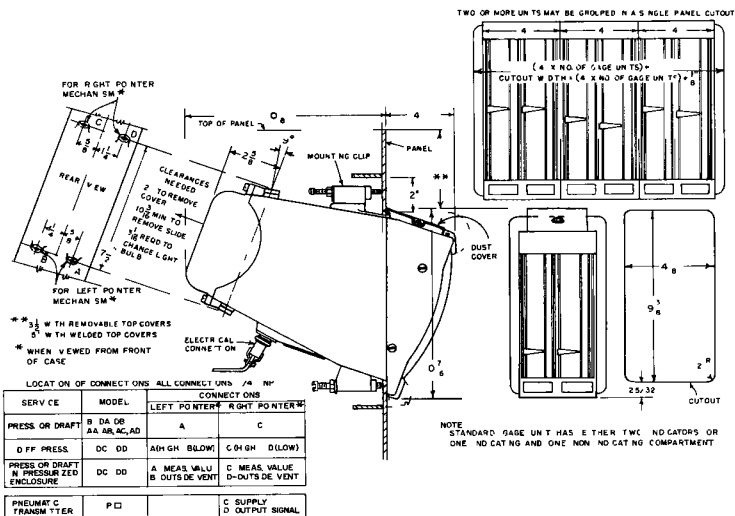


FIGURE 2 Mounting Dimensions for Semi Flush Mounted Type PG Gage

INSTALLATION

UNPACKING

1. Remove all packing from shipping carton. Remove Type PG Multi-Pointer Gage from carton.

2. Check for any obvious damage to carton or contents (see inside back cover).

3. NOTE If a bench test of the Type PG Multi-Pointer Gage is desired before installation, refer to 'Adjustment and Calibration' on page 12.

MOUNTING

1. Make panel cutout in accordance with Figure 1 or 2 for flush or semi-flush mounting, respectively.

2. Assemble left and right side plates (shown in Figure 12 or 13) to Gage with four screws and lockwashers. (Note that side plates for semi-flush mounted Gages are not interchangeable.)

3. For semi-flush mounting, assemble dust cover to top of Gage.

4. Insert Gage in cutout from front of panel.

5. For semi-flush mounting, assemble mounting support to top of Gage unit.

6. Place mounting clips over clip washers then tighten mounting screws. Tighten locknut to secure clip screw (refer to Figure 12 or 13).

7. Remove protective tape from scale cover. Clean cover with soap and water or Plastar, plastic cleaner and polish (obtainable from Bailey Meter Company in 10-ounce jars --- specify Pt. No. 199274-1). Do not use a solvent which will react with plastic cover.

8. Remove rear cover from Gage and remove protective tape from pointer assembly

CONNECTING TUBING

1. Each Gage unit is letter-coded (A, B, C, and D) for Gage connection identification. For pneumatic transmitter or bellows receiver mechanism, (Model PD, AA, AB, or AC), make tubing connections as designated in the tables in Figures 1 and 2 and in accordance with the letter code (see System Tubing Diagram, if included in this Instruction Book).

2. Refer to Instruction Section G18-2 for recommended installation and maintenance of pneumatic tubing.

3. Check connecting tubing for leakage while under pressure with a leak-detecting solution.

CONNECTING PIPING

1. Refer to Figures 1 and 2. For direct connected bellows or Bourdon tube mechanisms (Model AD or B1), refer to Instruction Section G18-1 for recommended piping arrangements. For Model AD bellows mechanism for liquid level measurement, however, refer to Instruction Section G91-4 for correct piping installation.

2. For diaphragm mechanism (Model DC), make piping connections at draft or pressure source as shown in Figure 3. Install connecting piping from draft or pressure installation to diaphragm mechanism as shown in Figure 4.

3. To facilitate blowdown procedure, a four way blowdown valve, similar to that shown in Figure 5, may be installed in piping line near instrument. The four-way valve can be connected to open the instrument to atmosphere when blowing compressed air back toward pressure or draft source.

4. Check connecting piping for leakage while under pressure with a leak-detecting solution.

INTERNAL ILLUMINATION

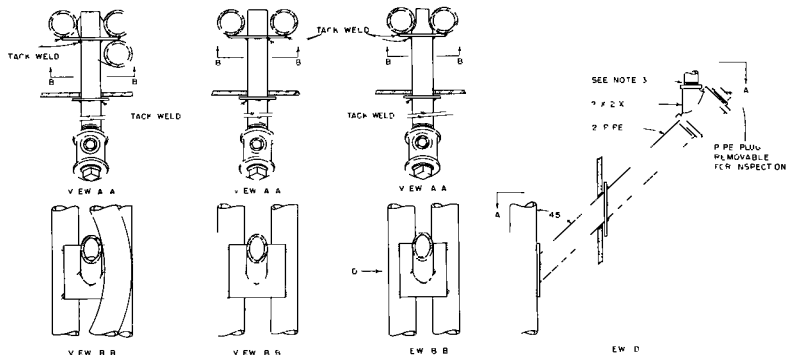
1. Refer to Figure 12 or 13. Make wiring connection from power source (115 volt, 50Hz or 60Hz AC) to lamp socket at bottom of Gage.

2. To remove lamp unit for servicing, remove rear cover and slide lamp assembly out rear of Gage. When replacing lamp in Gage, make certain slide assembly makes complete contact with socket at front of Gage.

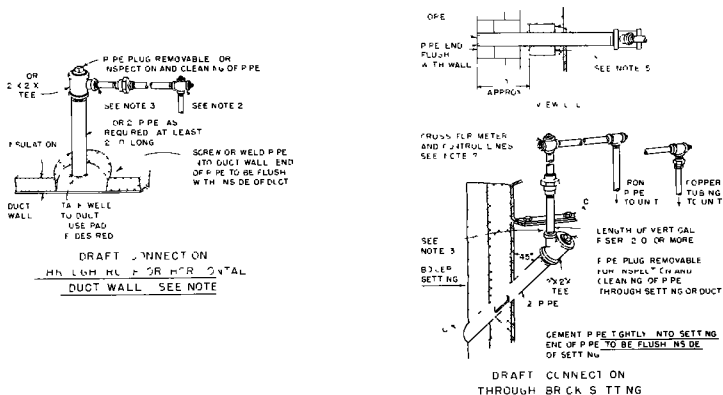
PLACING IN SERVICE

1. For Model PD instruments, refer to Table I on page 15 for required supply pressure to Booster Relay. Turn ON supply pressure to Booster. Gage should respond immediately.

2. For all other models, Gage should respond immediately when tubing and piping connections are made to measured pressure source.



DRAFT CONNECTION THROUGH WATER WALL SETTING



NOTE 1

FURNISH INSTALLATION ON ROOF HORIZONTAL WALL OR HORIZONTAL WALL. INSTALL P PEE SLEEVE PERPENDICULAR TO WALL AS SHOWN IN LOWER RIGHT ILLUSTRATION FOR INSTALLATION ON VERTICAL DUCT WALL. INSTALL P PEE SLEEVE AT 45° TO WALL AS SHOWN AT VIEW D.

NOTE 2

WHEN IT IS DESIRABLE TO CONNECT TWO INSTRUMENTS OR ONE INSTRUMENT AND ONE CONTROLLER TO ONE CONNECTION, CONNECT THE SECOND LINE TO THE CROSS SHOWN.

DO NOT RUN A SINGLE LINE DOWN AND THEN TAKE OFF AT OR NEAR THE INSTRUMENTS.

NOTE 3

INSERT WHATEVER BUSHINGS REQUIRED TO REDUCE OUTLET TO SIZE OF CONNECTING P PEE USED IN THE INSTALLATION.

NOTE 4

THE P PEE FROM CONNECTIONS SHOWN SHOULD RUN AS DIRECT AS POSSIBLE TO WATER PUMP OR CONTROLLER AND MUST HAVE NO BENDS OR CONNECTIONS TO OTHER EQUIPMENT.

NOTE 5

2 X 4 X 6 PLATES WELDED TO P PEE SLEEVE TO KEEP SLEEVE FROM TURNING IN BOILER SETTING WHEN PLUG AT END OF SLEEVE IS REMOVED FOR CLEANING. PLATES TO BE FURNISHED AND WELDED TO SLEEVE IN FIELD BY FURNISHER.

FIGURE 3 Recommended Connections to Boiler Settings and Ducts for Diaphragm Mechanism, Model DA, DB, DC, and DD

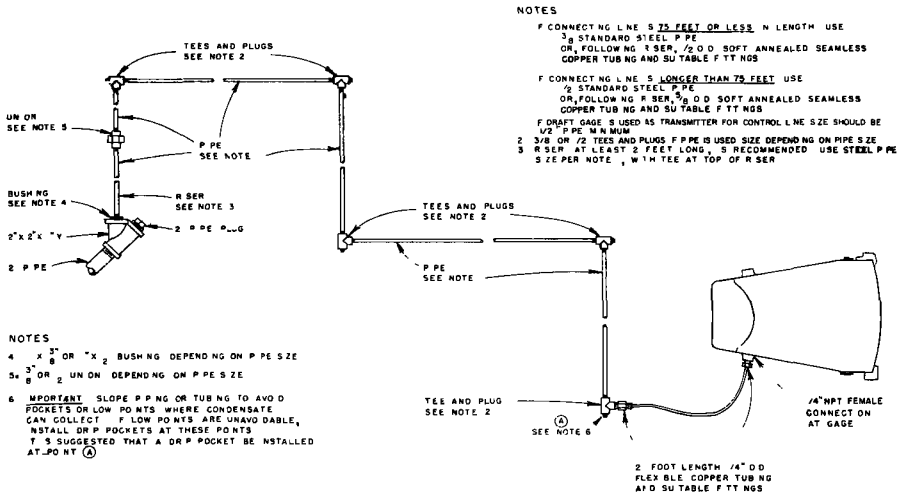


FIGURE 4 - Recommended Connecting Piping Arrangement for Diaphragm Mechanism, Model DA, DB, DC, and DD

ROUTINE MAINTENANCE

PERIODICALLY

1. Periodically blow down connecting piping as follows

a. For direct connected bellows (Model AD) and Bourdon tube (Model B1) mechanisms, blowdown connecting piping as outlined in Instruction Section G18-1.

b. For diaphragm (Model DD) mechanism, disconnect piping and blow compressed air back toward pressure or draft source (see step 3 under Connecting Piping, page 5 and Figure 5). Do not apply pressure directly to mechanism

2. Periodically clean Gage scale cover or window as outlined under "Mounting, step 7.

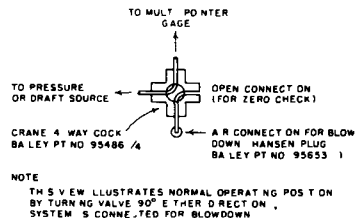


FIGURE 5 Four-Way Blowdown Valve for Diaphragm Mechanism

To remove scale cover or window, refer to "Removing Gage Window or Scale, page 11.

NOTE Do not oil moving parts. Oil, instead of being beneficial, tends to collect dirt which interferes with operation.

CORRECTIVE MAINTENANCE

If Multi Pointer Gage fails to operate correctly after performing the applicable adjustments outlined under "Adjustment and Calibration" on page 12, check for broken or damaged parts. If parts have become damaged and must be replaced, refer to applicable mechanism listed below for correct disassembly procedures. For a pneumatic transmitter, check operation of the Booster Relay as outlined under "Corrective Maintenance in Instruction Section P99 7.

BELLOWS MECHANISM DISASSEMBLY

1. Remove Gage from panel (see "Removing Multi-Pointer Gage", page 11). Then remove window and side scale holder (see "Removing Gage Window or Scale", page 11). Remove mechanism from case

2. Refer to Figure 14. Remove screw (14), and nut and washer (16 and 9). Unscrew elastic stop nut (15) above bellows. Remove overtravel stop (13).

3. Remove nuts (13) and lockwashers (28). Then remove two screws (26) and lockwashers (27) and remove pad (6) holding bellows beam assembly (12).

4. Remove hex nut (13) and pivot (24) (using drift and hammer) to remove spring adjustment arm (25).

5. Remove screws (10). Then remove three screws (29) and bellows piping assembly (4).

6. To reassemble mechanism, follow the reverse order of above "Disassembly". Before returning bellows mechanism to case (step 1), however, make the following pre calibration adjustments. Refer to Figure 6.

NOTE When making these adjustments, mount mechanism in suitable calibration fixture to simulate the case (such as a cut-away case) and mount fixture at same angle as case will be mounted in panel

a. Adjust counterweight so it drives the pointer upward.

b. Loosen overtravel stop screws so stop does not interfere with bellows motion.

c. Apply midrange pressure to bellows connection. Turn spring adjustment screw until bellows beam is parallel to base.

d. Apply maximum range pressure plus 0.2 psig to mechanism. Turn maximum stop screw in until it rests against bellows frame. Tighten elastic stop nut against overtravel stop.

e. Apply minimum range pressure minus 0.2 psig (for suppressed ranges only) to mechanism. Turn minimum stop screw in until head rests against overtravel stop. Tighten hex nut against bellows frame.

1. Loosen two screws on pointer drive arm and position drive arm parallel to bellows beam.

g. Check calibration as outlined under "Bellows Mechanism", page 12, before placing in service.

BOURDON TUBE MECHANISM DISASSEMBLY

1. Remove Gage from panel (see "Removing Multi-Pointer Gage", page 11) Then remove window and side scale holder (see "Removing Gage Window or Scale", page 11).

2. Refer to Figure 15. Remove three screws (17) and remove mechanism from case.

3. Detach connecting link (3) at pivot (9).

4. Loosen locknuts (6) and back off jeweled bearings (5) from support (1). Then remove pointer assembly (4).

5. Remove screws and washers (15 and 16) and dismount stop support assembly (14) from Bourdon tube assembly.

6. Remove screws (17), disengage Bourdon tube mounting support (1) from base.

7. Remove screws (7) and detach Bourdon tube mounting support (1) from Bourdon tube assembly.

8. To reassemble mechanism, follow the reverse order of above "Disassembly". Before returning Bourdon tube mechanism to case (step 2), however, make the following pre calibration adjustments. Refer to Figure 7.

NOTE. When making these adjustments, mount mechanism in suitable calibration fixture to simulate case (such as a cut away case) and mount fixture at same angle as case will be mounted in panel

a. Adjust counterweight so it drives the pointer upward.

b. Loosen minimum and maximum stops.

c. Apply maximum range pressure plus 0.2 psig to mechanism. Then tighten maximum stop nut.

d. Apply minimum range pressure minus 0.2 psig to mechanism. Then adjust minimum stop screw.

e. Check calibration as outlined under "Bourdon Tube Mechanism" on page 13, before placing in service.

DIAPHRAGM MECHANISM DISASSEMBLY

Replacing Diaphragm in Diaphragm Mechanism

1. Remove Gage from panel (see "Removing Multi Pointer Gage", page 11). Then remove window and side scale holder (see "Removing Gage Window or Scale", page 11).

2. Refer to Figure 16. Remove four screws (51) and lift mechanism from case.

3. Remove screws (21) from housing bottom (7). Separate housing bottom from housing spacer (8) (tap lightly with rubber mallet).

4. Refer to Figure 17. Firmly hold diaphragm center plates and remove screw (2) from diaphragm assembly (1). Avoid bending push rod (3) at pivot point. Pull diaphragm assembly away from housing spacer.

5. Position replacement diaphragm assembly (1) on housing spacer. **DO NOT USE SEALING COMPOUND.** Attach replacement diaphragm assembly on push rod (3) and secure with screw (2).

CAUTION. Make certain flat end of push rod is perpendicular to pivot (Item 11, Figure 16) and push rod moves freely.

6. Refer to Figure 16. Align housing bottom (7), diaphragm assembly (48 or 49), and housing spacer (8) and secure with screws (21). Test for leakage at 8 psi static pressure. For differential instruments, (Models DC and DD), loosen magnet clamp screw and deflect external magnet arm so that magnet touches cover clamp (24). Insert 0.02-inch non-magnetic feeler gage between cover plate (25) and external magnet. Tighten magnet clamp screw. Calibrate replacement diaphragm assembly as outlined in steps 7 thru 15.

7. For Model DA and DB units, install diaphragm mechanism and scale holder temporarily in Gage case (see steps 2 and 1 above). For Model DC and DD units, mount mechanism in suitable calibration fixture to simulate case (such as a cut-away case). **PLACE GAGE OR TEST FIXTURE ON TEST BENCH AT SAME ANGLE AS WHEN PANEL MOUNTED.**

8. Remove plug button (Item 55, Figure 12 or 13), screw (4), and washer (3) from housing bottom (7), and replace screw (4) only. Do not use washer.

9. Using calibration setup as described under "Diaphragm Mechanism", page 13, apply midrange pressure to mechanism (connection A or C), and turn pointer zero adjustment screw (Figure 8) until indicating pointer is on midscale.

10. Turn front zero adjustment (Figure 8) counterclockwise until pointer just stops moving, indicating diaphragm has reached its lowest position.

11. With midrange pressure applied to unit, loosen two screws on drive arm (Figure 8) to obtain a right angle relationship between connecting link and range arm (Angle "A" equals 90°).

12. Remove diaphragm mechanism from Gage, remove screw (4) and replace washer (3) and screw (4).

13. Before returning diaphragm mechanism to case (step 2), however, make the following pre-calibration adjustments.

a. Adjust counterweight (Figure 8) so it drives the pointer upward.

b. For Model DC and DD instruments, set maximum and minimum stops as outlined in steps 13c, 13d, and 13e below (refer to Figure 16).

c. Apply pressure so pointer goes to top of scale holder. Then turn maximum stop screw (46) clockwise until pointer is 1.2 inch above maximum scale line.

d. Remove pressure from instrument.

e. Turn front zero adjustment (Figure 8) counterclockwise until pointer rests at bottom of scale holder. Then turn minimum stop screw

(45) clockwise until pointer moves 1/2-inch below minimum scale line. Turn front zero adjustment to place pointer on minimum scale line

14. Return diaphragm mechanism and plug button (Item 55, Figure 12 or 13) to case and mount case in Gage (see step 1).

15. Check calibration as outline under "Diaphragm Mechanism", page 13, before placing in service.

Replacing Range Spring in Diaphragm Mechanism

1. Remove diaphragm mechanism from case (see steps 1 and 2 under "Replacing Diaphragm", page 9).

2. Refer to Figure 16. Remove upper screws (21) and lift off top cover (connecting linkage arm and top cover will come off together on differential unit).

3. Remove two screws (20) and loosen two clamping screws (14). Then remove four screws (43) and lockwashers (32)

4. Remove spring and replace with new spring.

5. To reassemble, perform above steps in reverse order.

6. Check calibration as outlined under "Diaphragm Mechanism", page 13, before placing in service.

Disassembly of Magnet Assembly, Model DC and DD

1. Remove diaphragm mechanism (Model DC or DD) from case (see steps 1 and 2 under Replacing Diaphragm, page 9).

2. Refer to Figure 16. Remove screw (23), cover clamp (24), cover plate (25), and cover gasket (26).

3. Remove two screws (21) from follower arm hinge (29) and lift off magnet arm assembly.

4. Remove screw (4) and washer (3) then loosen magnet clamp screw and remove internal magnet (35).

5. Assemble magnet assembly as follows

a. Insert internal magnet (35) in range arm assembly (37) and position by holding flat,

soft iron plate against face of casting and allowing magnet to draw itself against casting. Tighten magnet clamp (27c). Leave plate in place

b. Slide magnet clamp and range arm tip on magnet assembly (27) to respective midpositions. Secure resulting assembly to housing cover with screws (21).

c. Counterbalance arm (37) to cause magnet to balance 1/16 inch below center of opening if diaphragm assembly is mounted in lower position or 1/16 inch above center of opening if diaphragm assembly is mounted in upper position. Remove iron plate from front of internal magnet.

d. To reassemble mechanism, follow the reverse of above Disassembly.

e. Apply 8 psi static pressure and test for leakage.

6. Perform steps 7 thru 15 under Replacing Diaphragm, page 9

Changing Range of Diaphragm Mechanism

Refer to Figure 16. After making any change as listed below, recalibrate mechanism as outlined under "Diaphragm Mechanism", page 13

1. **RANGE SCREW ADJUSTMENT** Under table heading "RANGE SPAN" are minimum and maximum range values. For changes within the limits shown, recalibrate mechanism as outlined on page 13.

2. **CLAMP POSITION** Under table heading "Position" are position numbers. If change in range is great enough to necessitate a clamp position change, remove diaphragm mechanism top cover, and screws (14) and slide beam clamp (15) and spacer (16) to new position. Replace screws (14) and top cover.

3. **RANGE SPRING** Under table heading "Item 38", are part numbers of range springs. If change in range necessitates a range spring change, follow procedure under "Replacing Range Spring in Diaphragm Mechanism", above.

4. **DIAPHRAGM ASSEMBLY** Refer to Items 48 and 49 in the "List of Parts" for part numbers of Diaphragm Assemblies. If a change in range requires a diaphragm change, follow procedure under Replacing Diaphragm in Diaphragm Mechanism, page 9.

Type PG Multi-Pointer Gage

PNEUMATIC TRANSMITTER DISASSEMBLY

1. Remove Gage from panel (see Removing Multi-Pointer Gage", below).

2. Refer to Figure 18. Detach link (10) from adjustable end (3). Remove screws (6) to separate transmitter mechanism from Gage case.

3. Refer to Figure 19. To replace O rings (11), remove screws (38) and lockwashers (39) and separate Relay (14) from transmitter mechanism support block (25). Remove one O ring (11) from counterbore in support block and two O-rings from Relay. To disassemble Booster Relay, refer to Instruction Section P99-7.

4. Remove screw (19) to separate connector assembly (21) from support block (25), remove O-ring (13).

5. Remove nut (36), lockwasher (35), screw (40), and lockwasher (41).

6. Remove link (10) between vane assembly (3) and offset drive arm (9).

7. Remove four screws (22) from tapped pads (16) and remove the following items from support block (25) as a complete assembly: bellows assembly (2), bellows beam (20), bellows beam hinge spring (15), nozzle assembly (4), and clamp block (17).

8. Turn bellows assembly (2) counterclockwise to remove it from support block (25). Remove O ring (12) from counterbore on support block.

9. Remove two screws (28) and lockwashers (34). Remove pivot (27) (using drift and hammer). Then lift out spring support (8).

10. To reassemble mechanism, follow reverse order of above "Disassembly". Before returning transmitter mechanism to case (step 1), however, make the following pre-calibration adjustments.

a. Make certain that link (Item 10, Figure 19) is positioned in holes furthest from nozzle for direct loading operation or in holes closest to nozzle for reverse loading operation.

b. Apply normal supply pressure (see page 15) with suitable calibration device and cycle output thru full range ten times by moving drive arm (Item 9, Figure 19), by hand.

c. Refer to Figure 9. Rotate range arm to obtain midrange output pressure (9 psig for Model PB or 15 psig for Model PA and PC). With midrange pressure applied to mechanism, turn beam adjustment screw until bellows beam is parallel with transmitter base.

d. Loosen nozzle clamp screw and position nozzle (maintaining midrange pressure) so vane is parallel with bellows beam.

11. With midrange pressure applied to transmitter, turn vane adjustment screw until vane connecting link forms right angles with vane drive arm and vane (see Angle A", Figure 11).

12. Install transmitter in Gage case (step 2).

13. Check calibration as outlined under "Pneumatic Transmitter", page 14, before placing in service.

REMOVING MULTI POINTER GAGE

To remove a single Gage from the panel, proceed as follows. Refer to Figure 1 or 2.

1. Close valves in pressure line before disconnecting tubing.

2. Tag connecting tubing to identify correct connections when Gage is removed. When more than one Gage is removed, note position of each Gage in bank of Gages.

3. Unplug supply power line from connector at bottom of Gage.

4. Loosen locknuts on top and bottom mounting screws, loosen screws several turns.

5. Push mounting clips forward and remove mounting clip washers.

6. Remove Gage thru front of panel.

7. To remount Gage, perform steps 1 thru 6 in reverse order.

REMOVING GAGE WINDOW OR SCALE

To remove Gage window or vertical scale for cleaning, replacement, or to free indicating pointer for Gage mechanism removal, proceed as follows. Refer to Figure 12 or 13

1. Hold lower trim cover (3) and top trim cover (33) open with cover catches (5).

2. Remove Gage window (2) by loosening four retaining screws until screws are free of housing (1).

3. Remove scale holder (36) by removing two screws (Item 35, Figure 12 or Item 11 Figure 13)

4. Slide scale (37) and color shield (43) out of scale holder.

ADJUSTMENT AND CALIBRATION

Measuring or transmitting mechanisms included in the Multi-Pointer Gage are factory calibrated and should require no further adjustment. Before placing in service, however, check applicable measuring or transmitting mechanism calibration as outlined below. (Note that scale rests correctly on scale holder as shown in Figure 12 or 13 to assure accurate readings.)

NOTE If Gage is to be removed from panel for testing, refer to Removing Multi Pointer Gage, page 11). POSITION GAGE ON BENCH AT SAME ANGLE AS WHEN PANEL MOUNTED.

BELLOWS MECHANISM MODEL AA, AB, AC, AD

1. Check installation while under pressure for leakage.

2. If bellows mechanism operates a pneumatic transmitter, check transmitter calibration as outlined under "Pneumatic Transmitter", page 14, before proceeding.

3. Refer to Figure 6. Connect suitable calibrating device (such as mercury column or test

gage) to bellows mechanism pressure connection. Refer to "Explanation of Nomenclature", page 18, for applicable measured range and output pressure range.

4. Apply minimum measured range pressure or output pressure to bellows mechanism. If indicating pointer does not read minimum scale, turn zero adjustment screw (Figure 6) to obtain correct readings.

5. Apply maximum measured range or output pressure. If indicating pointer does not read maximum scale, turn range adjustment screw to obtain correct readings.

6. Repeat steps 4 and 5 until correct minimum and maximum scale readings are obtained.

7. Apply midrange pressure to bellows mechanism. If pointer motion is non linear, (pointer motion above and below midscale is not equal) and

a. pointer reads low at midscale, loosen two screws on pointer drive arm and rotate arm to decrease angle "A" (see Figure 6).

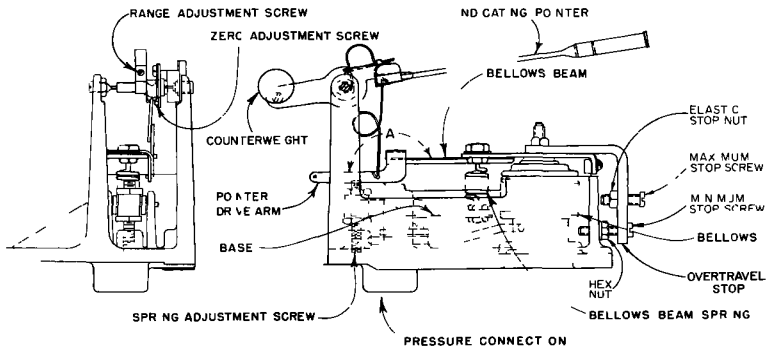


FIGURE 6 - Adjustments for Bellows Mechanism, Model AA, AB, AC, and AD

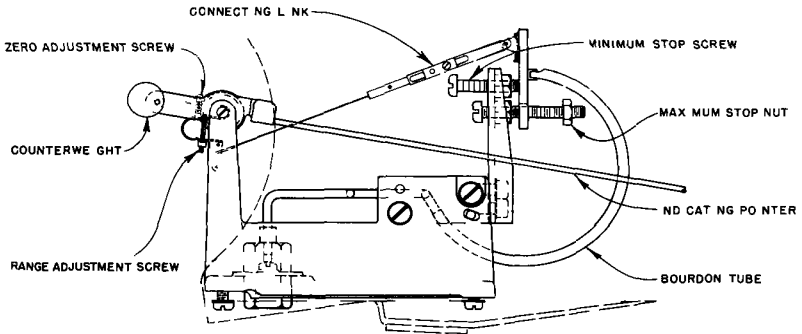


FIGURE 7 Adjustments for Bourdon Tube Mechanism, Model B1

b. pointer reads high at midscale, loosen two screws on pointer drive arm and rotate arm to increase angle "A".

8. Repeat steps 4 thru 7 until correct minimum, maximum and midrange scale readings are obtained for applied measured or output pressure values.

9. If correct readings cannot be obtained, refer to "Corrective Maintenance", page 8.

BOURDON TUBE MECHANISM MODEL B1

1. Check installation while under pressure for leakage.

2. Refer to Figure 7. Connect suitable calibrating device (such as a dead weight tester) to Bourdon tube mechanism pressure connection.

3. Apply midrange pressure to Bourdon tube mechanism. If indicating pointer does not read midscale, turn zero adjustment screw clockwise to increase or counterclockwise to decrease reading.

4. Apply minimum and maximum measured pressure to Bourdon tube and note pointer readings. If pointer does not read minimum and maximum scale, respectively, turn range adjustment screw clockwise to increase or counterclockwise to decrease pointer travel.

5. If pointer motion is non linear (pointer motion above and below midscale is not equal) and

a. pointer reads low at midscale, loosen connecting link screw and shorten link,

b. pointer reads high at midscale, loosen connecting link screw and lengthen link.

6. Repeat steps 3 thru 5 until correct minimum, maximum, and midrange scale readings are obtained for applied measured pressure.

7. If correct readings cannot be obtained, refer to "Corrective Maintenance", page 8.

DIAPHRAGM MECHANISM MODEL DA, DB, DC, DD

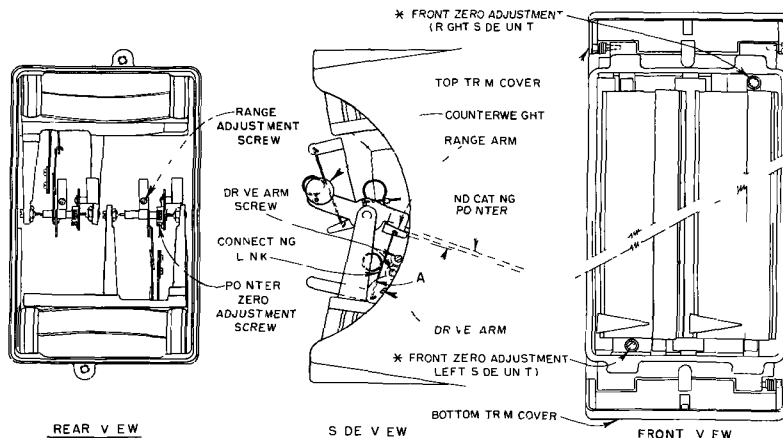
1. Check installation while under pressure for leakage.

2. If diaphragm mechanism operates a pneumatic transmitter, check transmitter calibration as outlined under "Pneumatic Transmitter", page 14, before proceeding.

NOTE. When calibrating a Type PG□3, Model DC and DD mechanisms, make certain that supply pressure is maintained to the pneumatic transmitter mechanism.

3. Refer to Figure 8. Connect suitable calibrating device (such as inclined manometer for very low draft, differential, or pressure ranges) or a mercury or vertical water manometer (for high ranges) to diaphragm mechanism.

4. Apply minimum range draft or pressure to diaphragm mechanism. For differential pressure measurement, apply minimum differential



* USE FRONT ZERO ADJUSTMENT TO CORRECT FOR SMALL ERRORS ON MODEL DA AND DB ONLY
USE POINTER ZERO ADJUSTMENT TO CORRECT FOR LARGE ERRORS ON MODEL DA AND DB AND FOR ALL
ZERO ADJUSTMENTS OF MODEL DC AND DD

FIGURE 8 Adjustments for Diaphragm Mechanism, Model DA, DB, DC, and DD

to "A" or "C" connection (see table in Figure 1 or 2) leaving "B" or "D" connection open to atmosphere. If indicating pointer does not read minimum scale, turn front zero adjustment (for Model DA and DB instruments) or pointer zero adjustment screw (for Model DC and DD instruments). Refer to Figure 8. If step 4 must be repeated as a result of adjustments in the following steps, CORRECT FOR ZERO ERRORS WITH THE POINTER ZERO ADJUSTMENT SCREW FOR ALL MODELS.

NOTE Model DC and DD diaphragm mechanisms for differential measurement are equipped with minimum and maximum stops. Use pointer zero adjustment screw to correct for zero errors (to avoid the necessity of resetting the stops). Do not use front zero adjustment for this purpose.

5. Apply maximum draft or pressure to mechanism. If indicating pointer does not read maximum scale, turn range adjustment screw clockwise to increase or counterclockwise to decrease range.

6. Repeat step 4 (using pointer zero adjustment screw) and step 5 until correct minimum and maximum scale readings are obtained.

7. Apply midrange draft or pressure to diaphragm mechanism. If pointer reads high at midscale, loosen two screws on pointer drive arm and move arm toward pointer assembly slightly. If pointer reads low at midscale, move arm away from pointer assembly.

8. Repeat steps 4 thru 7 until correct minimum, maximum, and midrange scale readings are obtained for applied draft or pressure values.

9. If correct readings cannot be obtained, refer to "Corrective Maintenance", page 8.

PNEUMATIC TRANSMITTER MODEL PA, PB, PC

The pneumatic transmitter is factory calibrated for either direct or reverse loading operation. For direct loading, transmitter output pressure increases as measured variable increases (link in hole furthest from nozzle). For reverse loading, transmitter output decreases as measured variable increases (link in hole closest to nozzle). Refer to Figure 19.

1. Refer to Figures 1 and 2. Attach an accurate, laboratory type gage to transmitter output connection "D". Apply normal supply pressure to connection "C" (see Table I).

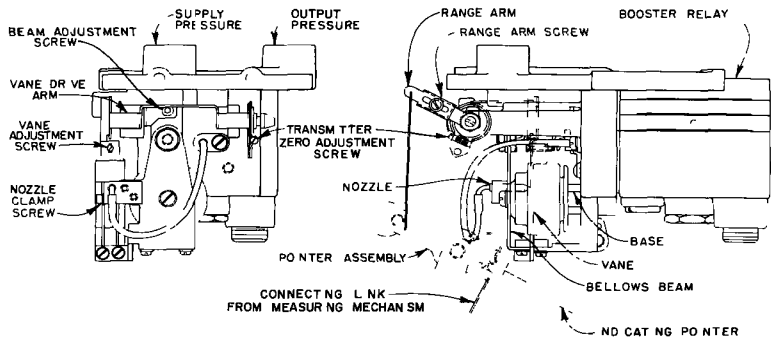


FIGURE 9 - Adjustments for Pneumatic Transmitter, Model PA, PB, and PC

TABLE I

Model	Output Pressure Range	Supply Pressure
PA	3-27 psig	30 psig
PB	3-15 psig	18 psig
PC	5-25 psig	28 psig

2. Refer to Figure 9. Disconnect connecting link between measuring mechanism and pointer assembly so pointer may be moved freely by hand.

3. Hold pointer on minimum scale. If output pressure gage does not read 3 psig (or, for reverse loading, 27 and 15 psig for Model PA and PB respectively), turn transmitter zero adjustment to obtain correct output pressure.

4. Hold pointer on maximum scale. If output pressure gage does not read 27 and 15 psig for Model PA and PB respectively (or, for reverse loading, 3 psig), loosen screw on range

arm and shorten range arm to increase or lengthen arm to decrease output pressure.

5. Repeat steps 3 and 4 until correct minimum and maximum output pressures are obtained.

6. Hold pointer at midscale. If output pressure is high, turn vane adjustment screw counterclockwise. If output pressure is low, turn screw clockwise to correct reading.

7. Repeat steps 3 thru 6 until transmitter output pressure corresponds to indicating pointer readings at minimum, maximum and midscale.

NOTE: If it appears that the Booster Relay operation is faulty, refer to Instruction Section P99-7.

8. Reconnect link between measuring mechanism and pointer assembly, then check measuring mechanism calibration as outlined under applicable calibration instructions.

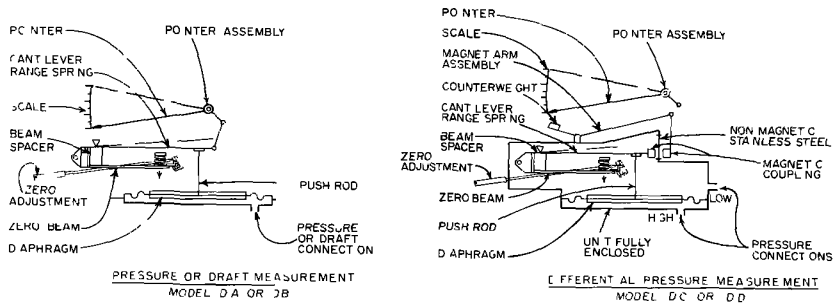


FIGURE 10 - Schematic of Diaphragm Mechanism, Model DA, DB, DC, and DD

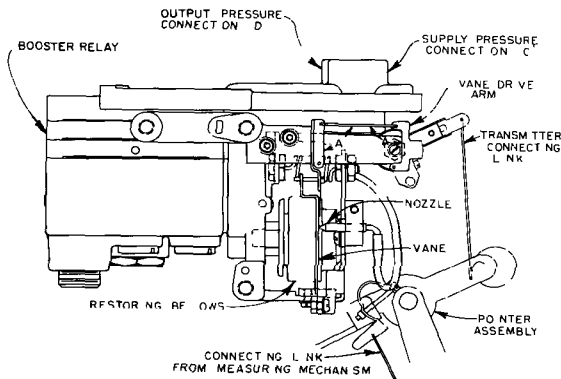


FIGURE 11 - Pneumatic Transmitter, Model PA, PB, and PC

DESCRIPTION OF OPERATION

BELLOWS MECHANISM MODEL AA, AB, AC, AD

Refer to Figure 6. The bellows mechanism consists of a bellows connected by a spring-loaded bellows beam to the pointer drive arm. Increases and decreases in measured pressure expand and contract the bellows, producing movement of the bellows beam. This motion is transmitted thru the pointer drive arm and connecting linkage to produce proportional movement of the indicating pointer.

BOURDON TUBE MECHANISM MODEL B1

Refer to Figure 7. The Bourdon tube mechanism for pressure measurement consists of a Bourdon tube connected to a pressure source and to connecting linkage which positions an indicating pointer. An increase or decrease in pressure applied to the Bourdon tube causes the tube to move. Motion of the tube end is transmitted thru connecting linkage to produce proportional movement of the indicating pointer.

DIAPHRAGM MECHANISM
MODEL DA, DB, DC, DD

Refer to Figure 10. The Model DA or DB mechanism for draft or pressure measurement consists of a diaphragm connected by a push rod, range spring, and connecting linkage to an indicating pointer. An increase or decrease in measured draft or pressure, applied to the bottom of the diaphragm, causes the diaphragm to move. This motion is transmitted thru the push rod, range spring, and connecting linkage to produce proportional movement of the indicating pointer.

The Model DC or DD mechanism for differential pressure measurement consists of a diaphragm connected by a push rod, range spring, magnetic coupling, and connecting linkage to an indicating pointer. (The magnetic coupling is formed between the inside and outside of the diaphragm housing by two permanent magnets, one attached to the range spring and the other to the magnetic arm assembly.) High pressure is applied to the bottom of the diaphragm and low pressure to the top. An increase or decrease

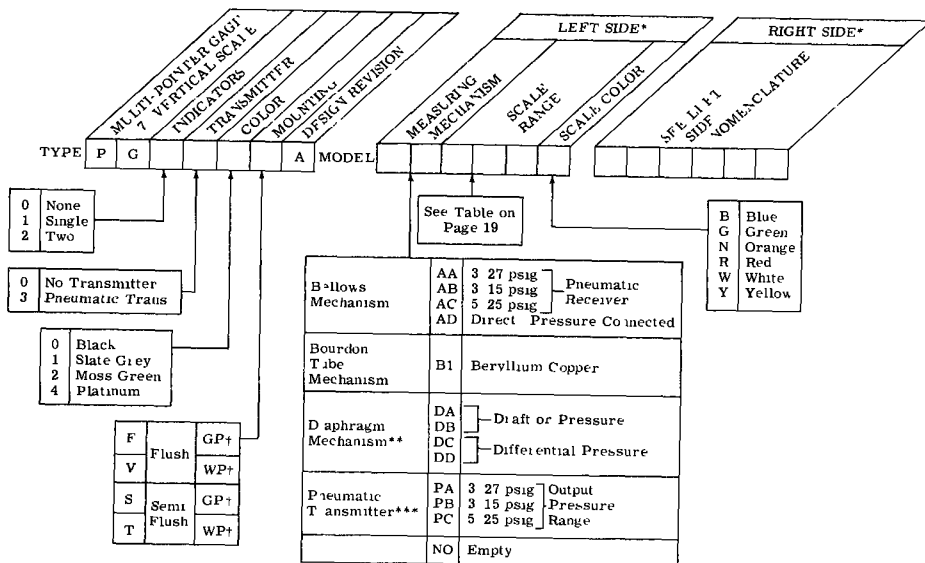
in applied differential pressure causes the diaphragm to move. This motion is transmitted thru the push rod, range spring, magnet assembly, and connecting linkage to produce proportional movement of the indicating pointer.

PNEUMATIC TRANSMITTER
MODEL PA, PB, PC

Refer to Figure 11. The pneumatic transmitter transmits an output pressure proportional to a measured variable. This transmitter is always mounted in the upper (right side) position in the Gage and is operated by a measuring mechanism mounted in the lower (left side) position.

An increase or decrease in the measured variable causes the measuring mechanism to move. This motion is transmitted thru the pointer assembly and connecting linkage to the vane drive arm. Rotation of the vane drive arm repositions the vane in relation to the nozzle to produce a proportional change in output pressure transmitted by the Booster Relay. (For operation of the Booster Relay, refer to Instruction Section P99-7.)

EXPLANATION OF NOMENCLATURE



*Viewed from front of Gage

*When installed in a pressurized panel board for the measurement of draft or low pressure, a Model DC or DD Diaphragm Unit is used. The measured medium is connected to one inlet and the other inlet is connected to tubing open to atmosphere outside the pressurized panel.

***Right Side Only

†GP General Purpose NEMA I

†WP Weatherproof NEMA III (Type PG13 Only)

Refer to the nameplate on the bottom of the Type PG Multi-Pointer Gage for the Nomenclature designation. An 'X' in any Nomenclature position indicates that the variation is special. An 'X' as a suffix to either Type or Model Nomenclature indicates that the Gage includes a special feature not covered by Nomenclature.

Type PG Multi-Pointer Gage

MODEL DQ MECHANISM							
ENGLISH UNITS				METRIC UNITS			
MODEL NUMBER	SCALE RANGE	MODEL NUMBER	SCALE RANGE	MODEL NUMBER	SCALE RANGE	MODEL NUMBER	SCALE RANGE
100	See Note	221	0 to 5 to 0 H_2O	160	15 to 0 mm H_2O	276	0 to +600 mm H_2O
110	0 3 to + 3 H_2O	222	0 to 5 to 0 H_2O	161	20 to 0 mm H_2O	278	0 to +800 mm H_2O
111	0 5 to 0 H_2O	223	0 to 6 to 0 H_2O	162	25 to 0 mm H_2O	280	0 to +1000 mm H_2O
112	0 5 to + 1 H_2O	224	1 to 0 to 0 H_2O	163	30 to 0 mm H_2O	360	0 to 15 mm H_2O
113	0 5 to + 3 H_2O	225	0 to 8 to 0 H_2O	164	40 to 0 mm H_2O	361	0 to 20 mm H_2O
114	0 5 to + 5 H_2O	226	0 to 10 to 0 H_2O	165	50 to 0 mm H_2O	362	0 to 25 mm H_2O
115	0 6 to 0 H_2O	227	0 to 12 to 0 H_2O	166	60 to 0 mm H_2O	363	0 to 30 mm H_2O
116	0 6 to + 2 H_2O	228	0 to 15 to 0 H_2O	168	80 to 0 mm H_2O	364	0 to 40 mm H_2O
117	0 8 to + 2 H_2O	229	0 to 20 to 0 H_2O	170	100 to 0 mm H_2O	365	0 to 50 mm H_2O
118	1 0 to 0 H_2O	230	0 to 30 to 0 H_2O	171	150 to 0 mm H_2O	366	0 to 60 mm H_2O
119	1 0 to + 1 H_2O	231	0 to 40 to 0 H_2O	172	200 to 0 mm H_2O	368	0 to 80 mm H_2O
120	1 0 to + 5 H_2O	232	0 to 50 to 0 H_2O	173	250 to 0 mm H_2O	370	0 to 100 mm H_2O
121	1 0 to 0 H_2O	233	0 to 60 to 0 H_2O	174	300 to 0 mm H_2O	371	0 to 150 mm H_2O
122	1 5 to 0 H_2O	234	0 to 80 to 0 H_2O	175	400 to 0 mm H_2O	372	0 to 200 mm H_2O
123	2 0 to 0 H_2O	235	0 to 100 to 0 H_2O	176	500 to 0 mm H_2O	381	0 to 250 mm H_2O
124	2 0 to + 2 0 H_2O	250	0 to 2 psig	178	800 to 0 mm H_2O	373	0 to 300 mm H_2O
125	3 0 to 0 H_2O	251	0 to 3 psig	188	10 to -5 mm H_2O	374	0 to 400 mm H_2O
126	3 0 to + 1 0 H_2O	252	0 to 4 psig	190	15 to +15 mm H_2O	375	0 to 500 mm H_2O
127	4 0 to 0 H_2O	310	0 to 5 H_2O	192	25 to +25 mm H_2O	376	0 to 600 mm H_2O
128	4 0 to + 1 H_2O	311	0 to 6 H_2O	194	50 to -50 mm H_2O	378	0 to 800 mm H_2O
129	5 0 to 0 H_2O	312	0 to 8 H_2O	197	100 to -50 mm H_2O	380	0 to 1000 mm H_2O
130	6 0 to 0 H_2O	313	0 to 10 H_2O	198	150 to -50 mm H_2O		
131	8 0 to 0 H_2O	315	0 to 15 H_2O	199	100 to -100 mm H_2O		
132	10 to 0 H_2O	316	0 to 20 H_2O	260	0 to -15 mm H_2O		
133	12 to 0 H_2O	318	0 to 30 H_2O	261	0 to -20 mm H_2O		
134	15 to 0 H_2O	320	0 to 40 H_2O	262	0 to -25 mm H_2O		
135	20 to 0 H_2O	322	0 to 50 H_2O	263	0 to -30 mm H_2O		
136	30 to 0 H_2O	323	0 to 60 H_2O	264	0 to -40 mm H_2O		
210	0 to 5 H_2O	325	0 to 8 to 0 H_2O	265	0 to -50 mm H_2O		
211	0 to 6 H_2O	326	0 to 10 to 0 H_2O	266	0 to -60 mm H_2O		
212	0 to 8 H_2O	327	0 to 12 to 0 H_2O	268	0 to -80 mm H_2O		
213	0 to 10 H_2O	328	0 to 15 to 0 H_2O	270	0 to -100 mm H_2O		
214	0 5 to + 1 0 H_2O	329	0 to 20 to 0 H_2O	271	0 to -150 mm H_2O		
215	0 to 1 5 H_2O	330	0 to 30 to 0 H_2O	272	0 to -200 mm H_2O		
216	0 to 2 0 H_2O	331	0 to 40 to 0 H_2O	281	0 to -250 mm H_2O		
217	0 5 to + 2 0 H_2O	332	0 to 50 to 0 H_2O	273	0 to -300 mm H_2O		
218	0 to 3 0 H_2O	333	0 to 60 to 0 H_2O	274	0 to -400 mm H_2O		
219	0 5 to + 3 0 H_2O	334	0 to 80 to 0 H_2O	275	0 to -500 mm H_2O		
220	0 to 4 0 H_2O	335	0 to 100 to 0 H_2O				
MODELS AD & B1 MECHANISMS							
MODEL NUMBER	SCALE RANGE	MODEL NUMBER	SCALE RANGE	MODEL NUMBER	SCALE RANGE	MODEL NUMBER	SCALE RANGE
402	0 to 15 H_2O	435	30 Hg to 0	462	30 Hg to +10 psig	535	0 to 1500 psig
403	0 to 20 H_2O	440	5 Hg to +5 psig	463	30 Hg to +15 psig	540	0 to 2000 psig
404	0 to 25 H_2O	441	5 Hg to +10 psig	471	0 to 10 Hg (VAC)	541	0 to 2500 psig
405	0 to 30 H_2O	442	5 Hg to +15 psig	472	0 to 15 Hg (VAC)	542	0 to 3000 psig
406	0 to 40 H_2O	443	5 Hg to +20 psig	473	0 to 20 Hg (VAC)	544	0 to 4000 psig
407	0 to 50 H_2O	444	5 Hg to +25 psig	474	0 to 25 Hg (VAC)	545	0 to 5000 psig
408	0 to 60 H_2O	445	10 Hg to +5 psig	475	0 to 30 Hg (VAC)	546	0 to 6000 psig
410	0 to 5 psig	446	10 Hg to +10 psig	415	0 to 30 psig	554	20 to 40 psig
411	0 to 10 psig	447	10 Hg to +15 psig	514	0 to 40 psig	555	20 to 50 psig
412	0 to 15 psig	448	10 Hg to +20 psig	515	0 to 50 psig	556	20 to 60 psig
413	0 to 20 psig	449	10 Hg to +25 psig	516	0 to 60 psig	561	50 to 150 psig
414	0 to 25 psig	450	15 Hg to +5 psig	517	0 to 70 psig	564	100 to 400 psig
415	0 to 30 psig	451	15 Hg to +10 psig	518	0 to 80 psig	565	200 to 500 psig
421	0 to 10 Hg	452	15 Hg to +15 psig	520	0 to 100 psig	566	300 to 600 psig
422	0 to 15 Hg	453	15 Hg to +20 psig	521	0 to 150 psig	567	400 to 700 psig
423	0 to 20 Hg	454	20 Hg to +5 psig	522	0 to 200 psig	568	500 to 800 psig
424	0 to 25 Hg	455	20 Hg to +10 psig	523	0 to 300 psig	571	300 to 1100 psig
425	0 to 30 Hg	456	20 Hg to +15 psig	524	0 to 400 psig	573	400 to 1200 psig
426	0 to 35 Hg	457	20 Hg to +20 psig	525	0 to 500 psig	582	500 to 3000 psig
431	10 Hg to 0	458	25 Hg to +5 psig	526	0 to 600 psig	584	500 to 4000 psig
432	15 Hg to 0	459	25 Hg to +10 psig	528	0 to 800 psig		
433	20 Hg to 0	460	-25 Hg to +15 psig	530	0 to 1000 psig		
434	25 Hg to 0	461	30 Hg to +5 psig	532	0 to 1200 psig		

NOTE Model number 100 indicates a blank scale.

REPLACEMENT PARTS

SPARE PARTS KITS

The Spare Parts Kits shown in Figures 12 thru 19 should be carried in stock. Specify the Spare Parts Kit part number to order a complete kit.

ORDERING INDIVIDUAL PARTS

Figures 12 thru 19 are Parts Drawings of the Type PG Multi-Pointer Gage. Normally, these drawings will apply to the Gages furnished. However, there may be individual differences in specific Gages because of,

1. design changes made since the printing of this Instruction Section, or

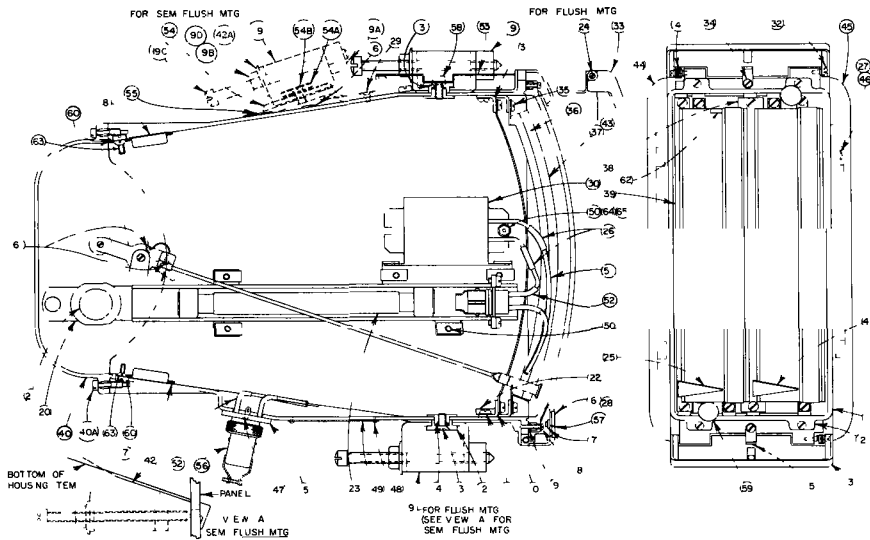
2. special design of equipment furnished to make it suitable for a specific application.

Therefore, when ordering individual parts, assure receipt of correct replacements by specifying on order

a. Complete nomenclature, serial number (stamped on instrument nameplate), and Code Label of equipment for which parts are desired, and

b. The Parts Drawing on which each part is illustrated. (The Parts Drawing Number is given in the Figure caption)

Type PG Multi Pointer Gage



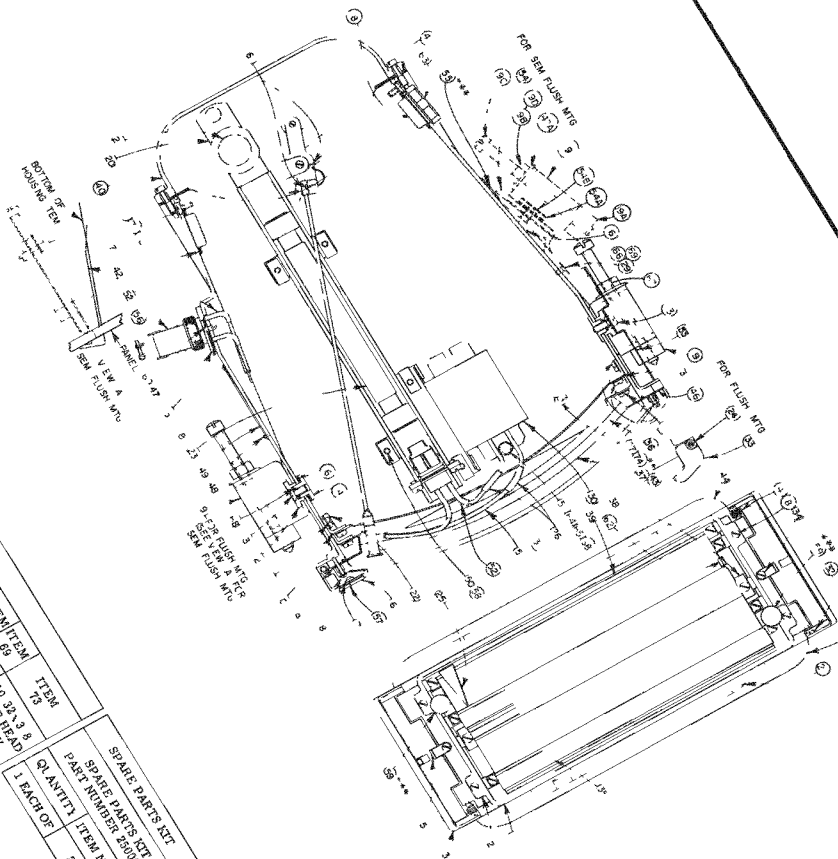
ITEM PART NO	NAME	ITEM PART NO	NAME	ITEM PART NO	NAME
1 45 85	HOUSING	21 104534	2 STARTER	45	SEE TABLE RIGHT SIDE PLATE
2 45 94	W/DOOR	22 49 9	WIRE CLAMP	46	13 3/4 x 1/8 PHILLIPS FLNDSCR 4 REQD
3 SEE TABLE	LOWER TRIM COVER	23 84 508	1 FLI JRE-4 EXT LAMP	47	4 40 x 4 FLAT HEAD SCREW 2 REQD
4 451843	COVER SPRING 2 REQD	24 45248	1 COVER SPRING 2 REQD	48	0 x 8 PARKER KALON TYPE 1 DRIVE SCREW 2 REQD
5 45 904	COVER CATCH 1 REQD	25	SEE TABLE POINTER ASSY	49	1361406 1 NAMEPLATE
6 451838	LEGEND PLATE 2 REQD	26 1041506	1 SOLDERLESS WIRE CONNECTION	50	6 32 x 5 FLAT HEAD SCREW 2 REQD
7	SPECIFY ENGRAVING	27 11 0	EXT SPR PRF LK WASH 4 REQD	51	320 000 BMCU NC VLEAD WIRE AS REQD
8 4 40 x 2	PAN HEAD SCREW 4 REQD	28 433022	1 SERVICE LEAD END PLATE A	52	R00 3 0 25 BMCU NO 321 ST B NO 4 REQD
9 8 744 4	RETAINING RING 4 REQD	29 3 32 x 4	FLAT HD SCREW 2 REQD FOR SEMI FLUSH MOUNTING	53	SEE TABLE DUST COVER FOR SEMI FLUSH MOUNTING
10 451927	BOTTOM SUPPORT	30 451917	1 BALLAST AND SLIDE	54	SEE TABLE SEMI FLUSH MOUNTING SUPPORT ASSY
11 6 32 x 1/8	PAN HEAD EXT SEMS 4 REQD	31 451928	1 TOP SUPPORT	54A 3 1/2	W/DOOR TENS 54A & 54B
12 451938	1 MOUNTING CLIP WASHER 2 REQD	32 45 983	SHOULDERED SCREW 2 REQD	54B 13 3/4 x 1	FLAT HEAD SCREW
13 10 32 x 3/8	FLAT HD SCREW 2 REQD FOR FLUSH MOUNTING 2 REQD FOR SEMI FLUSH MOUNTING	33	SEE TABLE TOP TRIM COVER	55 290 4	PHIL B T TION
14 45 940 1	SPECIAL NUT 1 REQD	34 3 40 x 1	FLAT HEAD SCREW 1 REQD	56 1941 487	SOCKET
15 94 997	PULL	35 6 32 x 1	PAN HEAD EXT SEMS 1 REQD	57	SUPPORT PLATE
16 1049110	PULL B TION A REQD	36 45 925	SCALE HOLDER 2 REQD	58 0 1/2 x 2	PAN HD SCR SEMI FLUSH MOUNTING
17 42002	GASNET 2 REQD	37 45 929 2	SCALE MASK	59 452215	1 RUBBER FLG 2 REQD
18 430949	COVER AN REQD	38 45 950 1	SCALE MASK	60 6 32 x 2	PAN HEAD EXT SEMS 1 REQD
19 35652	MOUNTING PLIP ASSY 2 REQD FOR FLUSH MOUNTING 2 REQD FOR SEMI FLUSH MOUNTING INCLUDES ITEMS 8A 19B 19C & 19D	39 45 904	REAR COVER INCLUDES	61 4912 8	SCREW
19A 35426	MOUNTING CLIP	40A 508 19	1 SPEC AL SCREW 2 REQD	62 3244438	SCALERETAINING PL 2 REQD
19B 1 4 20	HEX NUT	41	SEE TABLE A POINTER ASSY	63 6 32 x 2	FLAT HD MACH SCREW 2 REQD
19C 9785	MOUNTING SCREW	42 452250	BOTTOM MOUNTING CLIP ASSY INCLUDES ITEMS 44A 98 & 9C	64 6 32	HEX NUT
19D 484 14 01	SHAPED PYRAMIDAL LK WASH	42A 4814 4 0	SHAPED DASH TOOTH	65 1106 00	SHAPED PROOF LOCK WASH
20 451816	LAMP SLIDE ASSY	43	PER PERRY LOCK WASH		
		44	SEE TABLE C COLOR SHIELD 2 REQD		
		45	SEE TABLE LEFT SIDE PLATE		

TABLE A						SPARE PARTS KIT	
MODEL	ITEM 25	LEFT SIDE MECH	ITEM 41	RIGHT SIDE MECH	SPARE PARTS KIT PART NUMBER 25000	QUANT	ITEM NUMBER
AA AB AC AD AE DB DC DD BI	45 890		451883 2	4524 84 2	2 & 3	1	
	453084						

TABLE B										TABLE C	
COLOR	ITEM 3	ITEM 33	ITEM 44	ITEM 45	ITEM 46	ITEM 47	ITEM 48	ITEM 49	ITEM 50	ITEM 51	ITEM 52
BLACK	45 934	45 933 1	451889 1	45 992 2	451889 1	45 992 1	45 992 4	45 989	451896 1	WHITE	
GRAY	451934 2	451933 2	451889 2	451992 4	451889 2	451992 3	452 48 2	4 1369 2	451896 3	BLUE	
GREEN	451934 3	451933 3	451889 3	45 992 3	451889 3	451992 2	452 48 3	451896 3	45 990 4	PINK	
PLATINUM (BMCU) USA	45 934 9	451933 5	451889 5	45 992 0	45 990 5	451992 2	452149 1	45 989 5	45 990 5	ORANGE	
PLATINUM (BMCU) CANADA	451934 11	451933 5	45 989 5	451992 10	45 990 5	451992 3	452149 5	45 989 5	45 989 5	YELLOW	

* AS VIEWED FROM FRONT OF GAGE

FIGURE 12 Parts Drawing M42 25, Case and Pointer Assembly for Type PG00 Multi Pointer Gage

[illegible]

SPARE PARTS KIT	ITEM NUMBER	25000	1
SPARE PARTS KIT	ITEM NUMBER	25000	1
QTY	21 & 23		
1 EACH OF			

TABLE C	
ITEM 43	COLOR
451996 1	WHITE
451996 2	GREEN
451996 3	BLUE
451996 4	PINK
451996 5	ORANGE
451996 6	YELLOW

5. Drawing M42-28, Case and Punter Assembly for

Type PG Multi-Pointer Gage

M42-5
Page 23

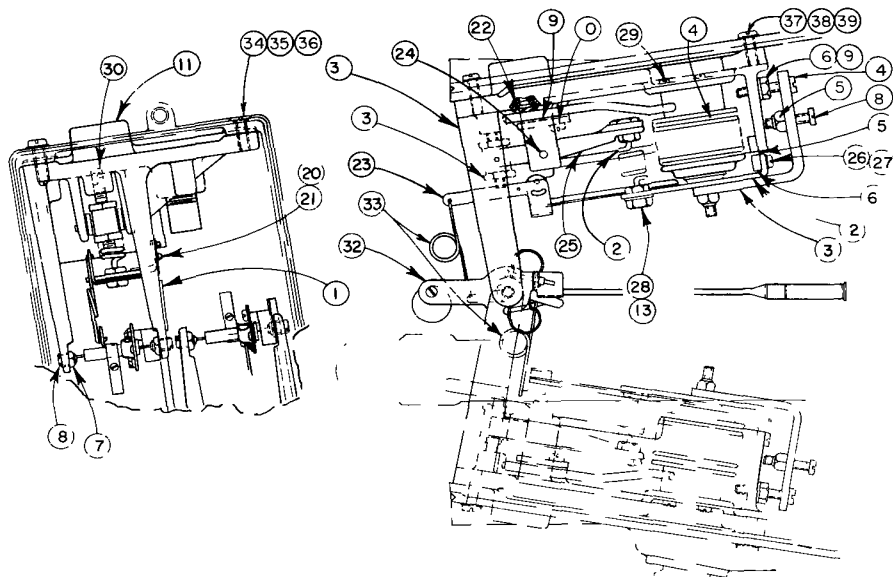
ITEM	PART NO	NAME	ITEM	PART NO	NAME	ITEM	PART NO	NAME
1	451957 1	HOUSING	30	451917 1	BALLAST & SLIDE ASSY	54	SEE TABLE SEMI FLUSH MTG SPT	SEE TABLE A INCLUDES
2	451914 1	WINDOW	31	451926 1	TOP SUPPORT			ITEMS 54A & 54B
3	SEE TABLE B	LOWER TRIM COVER	32	451993 1	SHOULDERED SCR 2 REQD	54A	55325 1	MOUNTING CLIP WASHER
4	451943 1	COVER SPRING 2 REQD	33	SEE TABLE B	TOP TRIM COVER	54B	10 32x1 2	FLAT HEAD SCREW
5	451944 1	COVER CATCH 2 REQD	34	451941 4	FLAT HD STN STL MACH	55	19981 4	PLUG BUTTON
6	451936 1	LEGEND 2 REQD	35	451936 1H1	BLANK SCALE	56	452261 1	WEATHERPROOF SOCKET ASSY
7	5 32	PUSH ON TYPE SPEED NUT	36	451925 1	SCALE HOLDER 2 REQD	57	452143 1	SUPPORT PLATE
8	4 40x1 2	PAN HD STN STL MACH SCREW 4 REQD	37	452012 1	SCALE SPECIFY ENGRAVING	58	197436 6	NO 8 NYLON SEALING WASHER 6 REQD
9	197242 4	RETAINING RING 4 REQD	38	451929 2	SCALE MASK	59	452215 1	RUBBER PLUG 2 REQD
10	451927 1	BOTTOM SUPPORT	39	451929 1	SCALE MASK	60	197496 4	NO 4 NYLON SEALING WASHER 2 REQD
11	6 32x3 16	PAN HEAD CD PL STN STL SEMI EXT 12 REQD	40	452226 1	REAR COVER ASSY	61	49126 8	CD PL HEX NUT
12	451939 1	MTG CLIP WASH 2 REQD	41	R9410 0011	NO 41081 8 THICK X 1 4 WIDE POLYURETHANE FOAM WITH ADHESIVE	62	5324436 1	SCALE RET CLIP 2 REQD
13	10 32x1 2	FLAT HD STN STL MACH SCREW	42	452256 1	BOTTOM MTG CLIP ASSY	63	197495 1	SEALING LOCKNUT
14	451940 1	SPECIAL NUT 2 REQD			SEE TABLE A INCLUDES	64	6 32	CD PL HEX NUT
15	1941997 2	PLUG	42A	4814 14 01	SHAKEPROOF DISH TOOTHED PERIPHERY LOCKWASHER	65	1106 00	CD PL STL SHAKEPROOF LOCKWASHER
16	452262 1	GASKET (3 8 1 D 1 REQD	43	SEE TABLE C	COLOR SHIELD 2 REQD	66	197496 10	NO 10 NYLON SEALING WASHER SEE TABLE A
17	452021 1	GASKET 2 REQD	44	SEE TABLE B	LEFT SIDE PLATE	67	452216 1	4 REQD
18	452049 1	COVER AS REQD	45	SEE TABLE B	RIGHT SIDE PLATE	68	452262 3	GASKET 3 161 D 2 REQD
19	35652 1	MOUNTING CLIP ASSY	46	R9401 0011	NO 41081 8 THICK X 1 4 WIDE POLYURETHANE FOAM WITH ADHESIVE	69	452219 2	10 32x3 8 SEALING SCR
19A	35426 1	MOUNTING CLIP	47	4 40x1 4	FLAT HD STN STL MACH SCREW 2 REQD	70	197496 8	NO 8 NYLON SEALING WASHER
19B	1 4 20	HEX NUT	48	0x1 8	RD HD STN STL THREAD	71	452219 1	8 32x1 2 SEALING SCR 3 REQD
19C	197255 1	MOUNTING SCREW	49	1961400 1	NAMEPLATE	72	8 32x1 2	FLAT HEAD STN STL MACHINE SCREW
19D	4914 14 01	SHAKEPROOF PYRAMIDAL LOCKWASHER	50	6 32x3 8	FLAT HD STN STL MACH SCREW 8 REQD	73	SEE TABLE A	STN STL MACH SCR
20	451918 1	LAMP SLIDE ASSY	51	R2041 0030	NO 8 B/MCO LEADWIRE 42	74	R9410 0016	NO 41081 8 THICK X 1 WIDE POLYURETHANE FOAM WITH ADHESIVE
21	194834 2	STARTER	52	R9023 0122	NO 32 B/MCO INSTUBING 7 8 4 REQD			BACK AS REQD
22	86119 2	WIRE CLAMP	53	SEE TABLE D	DUST COVER			SEE TABLE A
23	1941566 1	FLUORESCENT LAMP						
24	452048 1	COVER SCREW 2 REQD						
25	SEE TABLE A	POINTER ASSY (LEFT SIDE MECHANISM*)						
26	1941566 1	SOLDERLESS WIRE CONN						
27	452219 2	10 32x3 8 SEALING SCR 4 REQD						
28	452218 1	GASKET						
29	10 32x1 4	FLAT HD STN STL MACH SCREW						

*AS VIEWED FROM FRONT OF GAGE

**TO SEAL NITS WHEN MOUNTED SIDE BY SIDE APPLY SEALANT PT NO 1951188 1 TO TAPPED HOLES AND ADD ITEM 74 SEAL SIDE PLATE IF ITEMS 44 AND 45 WITH SEALANT PT NO 951188 1 AND ITEM 77

***APPLY SEALANT PT NO 195118 1 TO HOLE AND PRESS PLUG IN REMOVE EXCESS WHEN DRY

TABLE B								
COLOR	ITEM 3	ITEM 33	ITEM 44*		ITEM 45*		ITEM 53	ITEM 54
			FLUSH MTG	SEMI FLUSH MTG	FLUSH MTG	SEMI FLUSH MTG		
BLACK	451934 1	451933 1	451969 1	451992 2	451969 1	451992 1	452149 1	451989 1
GRAY	451934 2	451933 2	451969 2	451992 4	451969 2	451992 3	452149 2	451989 2
GREEN	451933 3	451933 3	451969 3	451992 6	451969 3	451992 5	452149 3	451989 3
PLATINUM B/MCO USA	451934 9	451933 9	451969 9	451992 10	451969 5	451992 9	452149 5	451989 5
PLATINUM (B/MCO CANADA)	451934 10	451933 5	451969 5	451992 10	451969 5	451992 9	452149 5	451989 5



SPARE PARTS KITS											
SPARE PARTS KIT PART NO 25460 1				SPARE PARTS KIT PART NO 25460 2				SPARE PARTS KIT PART NO 254060 3			
MODEL	RANGE	QTY	ITEM	MODEL	RANGE	QTY	ITEM	MODEL	RANGE	QTY	ITEM
AA	3 27 PSIG			AB	3 15 PSIG			AD	6 5 PSIG		
AC	5 25 PSIG			AD	15 PSIG				MAX SPAN		
AD	3 1 PSIG	1 EACH	4 22 33 & SPRING ASSY 452255 1		MAX SPAN	1 EACH	4 22 33 & SPRING ASSY 683080 1			1 EACH	4 22 33 & SPRING ASSY 452255 1

FIGURE 14 - Parts Drawing M42-31, Bellows Mechanism

Type PG Multi-Pointer Gage

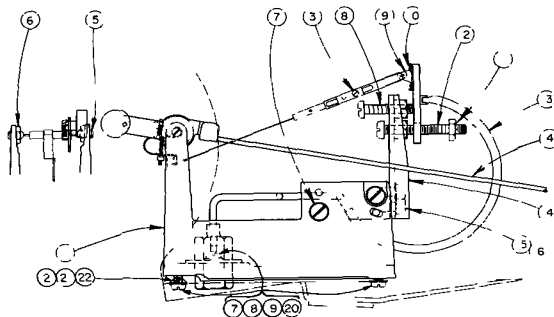
ITEM	PART NO	NAME	ITEM	PART NO	NAME	ITEM	PART NO	NAME
1	CODE LABEL SPECIFY NO WHEN ORDERING PARTS		17	197132 1	PAL NUT 2 REQD	34	197496 8	NO 8 NYLON SEALING WASHER 1 REQD FOR TYPE PG13
2	SEE TABLE SPRING ASSEMBLY**		18	451850 1	JWELED BRG, 2 REQD	35	8 32x1 2	FLT HD SST MACH SCR 1 REQD FOR TYPE PG13
3	452263 1	OVERTRAVEL STOP	19	452154 1	MANIFOLD CLAMP	36	8 32x1 4	FLT HD CD PL STL MACH SCR 1 REQD FOR TYPE PG20
4	452156 1	BELLOWS & PIPING ASSY	20	49126 1	SPECIAL SCREW 2 REQD	37	452216 1	RUBBER PLUG 1 REQD FOR TYPE PG13
5	68820 1	BELLOWS BEAM HINGE	21	68507 1	SPECIAL WASH 2 REQD	38	19981 10	PLUG BUTTON 1 REQD FOR TYPE PG10
6	68824 1	TAPPED PAD 2 REQD	22	5311428 10	O RING	39	8 32x1 2	PAN HD CD PL STL MACH SCR 2 REQD FOR TYPE PG10
8	6 32x5 8	PAN HD CD PL STL MACH SCR	23	452027 1	OFFSET DRIVE ARM	452219 1		SEALING SCREW 2 REQD FOR TYPE PG13
9	1106 00	CD PL STL SHKPRF LKWASH	24	68411 1	PIVOT			
10	6 32x1 4	PAN HD CD PL STL EXT SEMS	25	683108 1	SPRING ADJ ARM			
11	452029 1	RECEIVER MTG SUPPORT FOR TYPE PG00	26	3 48x1 4	PAN HD CD PL STL MACH SCR 4 REQD			
452221 1		RECEIVER MTG SUPPORT FOR TYPE PG13	27	1103 00	CD PL STL SHKPRF LKWASH, 4 REQD			
12	68823 1	BELLOWS BEAM ASSY	28	1108 00	CD PL STL SHKPRF LKWASH, 4 REQD			
13	8 32	CD PL STL HEX NUT 4 REQD	29	4 40x5, 16	PAN HD CD PL STL EXT SEMS 3 REQD			
14	6 32x3 4	PAN HD CD PL STL MACH SCR	30	8 30x1 1 4	HDLS SLOT CD PL STL CUP PT SET SCR			
15	197120 3	ELASTIC STOP NUT 2 REQD	31	SEE TABLE	RECEIVER ASSY * POINTER ASSY SEE PTS DWG M42 25			
16	6 32	CD PL STL HEX NUT	32					
			33	452026 1	LINK 1 REQD FOR TYPE PG10 & PG13 2 REQD FOR TYPE PG20			

*ITEM 31 INCLUDES ITEMS 1 THRU 30

**SPRINGS FOR CODE LABEL 003 ASSEMBLIES MAY BE USED FOR REPLACEMENT IN CODE LABEL 002 ASSEMBLIES

TABLE						
TYPE	MODEL	RANGE			ITEM 2	ITEM 31
PG00CDA	AA	3 27 PSIG			452255 1	452028T1
	AB	3 15 PSIG			683080 1	452028T2
	AC	5 25 PSIG			452255 1	452028T1
	AD	RANGE SPAN		RANGE LIMIT		
				MIN	MAX	
		30 PSIG	15 PSIG	15 PSIG	+30 PSIG	452028T1
		15 PSIG	15 PSIG	15 PSIG	+15 PSIG	452028T2
PG13CDA	AA	3 27 PSIG			452255 1	452028A4
	AB	3 15 PSIG			683080 1	452028A5
	AC	5 25 PSIG			682586D1	452028A4
	AD	RANGE SPAN		RANGE LIMIT		
				MIN	MAX	
		30 PSIG	15 PSIG	15 PSIG	+30 PSIG	452028A4
		15 PSIG	15 PSIG	15 PSIG	+15 PSIG	452028A5
		6 5 PSIG	6 5 PSIG	6 5 PSIG	+6 5 PSIG	682586D1

for Type PG Multi Pointer Gage, Model AA, AB, AC, and AD



NOTES

- FOR CASE PARTS INCLUDING POINTER ASSEMBLY SEE PARTS DRAWING M42 25 OR M42 23
 2 BOURDON TUBE CAN BE REPLACED ONLY AS AN ASSEMBLY. SPECIFY COMPLETE NOMENCLATURE AND SERIAL NO STAMPED ON GAGE NAMEPLATE

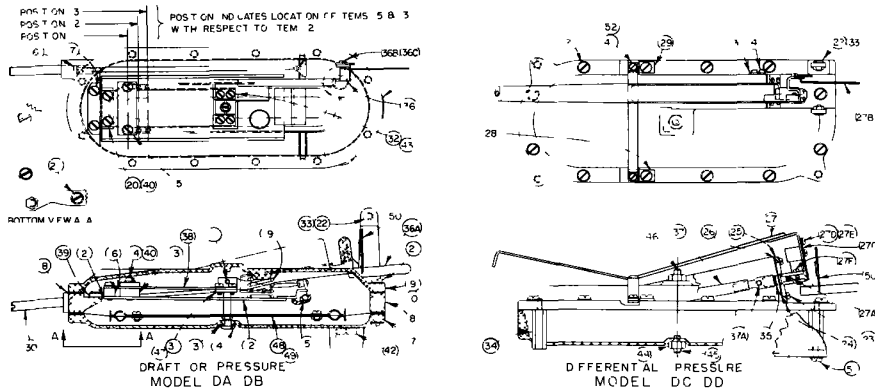
ITEM	PART NO	NAME	ITEM	PART NO	NAME	ITEM	PART NO	NAME
1	452052 1	MOUNTING SUPPORT	11	10 32	CD PL STL HEX NUT	19	19981 10	PLUG BUTTON 1 REQD FOR PG1 & PG2
2	8 32x3 6	FLAT HEAD CD PL STL MACHINE SCREW 1 REQD FOR PG1 & PG2	12	10 32x1 5 8	PAN HEAD CD PL STL MACHINE SCREW	20	452216 1	RUBBER PLUG 1 REQD FOR PG13
3	452170 1	CONN LINK ASSY	13	452134 □	BOURDON TUBE ASSY	21	197496 4	NO 8 NYLON SEALING WASHER 1 REQD FOR PG13
4	452064 □	POINTER ASSY. SEE NOTE 1	14	452111 1	STOP SUPPORT ASSY	22	8 32x3 8	FLAT HEAD STN STL MACHINE SCREW 1 REQD FOR PG13
5	451850 1	JEWELLED BRG 2 REQD	15	10 32x3 8	HEX SOC HEAD CD PL STL CAP SCREW 3 REQD			
6	197142 4	PAL NUT 2 REQD	16	NO 10	CD PL STL MED SPRING LOCKWASHER 3 REQD			
7	10 32x3 8	PAN HD CD PL STL EXT SEMS 2 REQD	17	8 32x5 16	PAN HD CD PL STL EXT SEMS 4 REQD FOR PG1 & PG2, 2 REQD FOR PG13			
8	10 32x3 4	PAN HEAD CD PL STL MACHINE SCREW	18	452219 4	8 32x5 16 SEALING SCR 2 REQD FOR PG13			
9	4021064 1	CONN LINK PIVOT						
10	2 56x1 4	PAN HEAD CD PL STL EXT SEMS 2 REQD						

- NOTES 1 FOR CASE PARTS INCLUDING POINTER ASSY. SEE PARTS DRAWING M42 25 OR M42 23
 2 BOURDON TUBE CAN BE REPLACED ONLY AS AN ASSEMBLY. SPECIFY COMPLETE NOMENCLATURE AND SERIAL NUMBER STAMPED ON GAGE NAMEPLATE

SPARE PARTS KIT
 PART NO 254058 1
 1 EACH OF ITEMS 3 & 8

FIGURE 15 Parts Drawing M42 29, Bourdon Tube Mechanism
 for Type PG Multi-Pointer Gage, Model B1

Type PG Multi-Pointer Gage

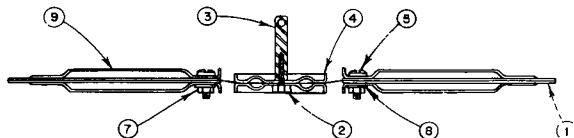


ITEM PART NO	NAME	ITEM PART NO	NAME	ITEM PART NO	NAME
1 3810-8 1	CODE LABEL SPECIFY NUMBER WHEN ORDERING PARTS	26 45 90 1	COVER GASKET MODEL DC DD	40 40 4	STD LOCKWASHER 4 REQD
2 4-200 1	BEAM HINGE SPRING	2 45 88 1	MAGNET FOLLOWER ARM ASSY	41 3 84 8	PAN HD D PL STL MACH SCR
3 45 97 1	SCREW GASKET	2A 45 85 1	MAGNET ASSY	42 45194 1	2 REQD MODEL DC DD
4 10 7-3 18	PAN HD D PL STL MACH SCR	2B 45188 1	ARM TYP	43 2 58 18 1	2 REQD FOR MODEL DA DB
5 45 83 1	PIVOT SHAFT	2 C 45188 1	MAGNET CLAMP ASSY	44 19741 1	2 REQD FOR MODEL DC DD
6 53 1428 0	D RIN	2D 2 50 8 8	PAN HEAD SCREW 4 REQD	45 0 32 1 8	HEX SOC HDLS CD PL STL CUP
7 45189 1	HOLDS SPRING	2E 3 0 2 8 1	SPRING LOCKWASHER 4 REQD	46 0 77 5 8	HEX SOC HDLS CD PL STL DOG
8 45184 1	HOLDS CLAMP FOR PLST	2 F 2 58 18 1	PAN HEAD BRASS SCREW	47 0 0 1	POINT SET SCR MODEL DC DD
9 45184 2	HOLDS CLAMP FOR PLST	2G 45201 1	FOLLOWER ARM HINGE ASSY	48 4519 1	DIAPHRAGM ASSY MODEL DA DB
10 45183 1	PUSHER ROD PIVOT	2H 45184 1	MODEL DC DD	49 4519 1	DIAPHRAGM ASSY MODEL DA DB
11 45184 1	ZERO BEAM ARM	29 45184 1	FOLLOWER ARM HINGE ASSY	50 4519 1	DIAPHRAGM ASSY MODEL DA DB
12 45184 1	ZERO BEAM ARM	30 45184 1	MODEL DC DD	51 4519 1	DIAPHRAGM ASSY MODEL DA DB
13 45184 1	ZERO BEAM ARM	31 45184 1	MODEL DC DD	52 1703 00	DIAPHRAGM ASSY MODEL DA DB
14 1941235 1	SPECIAL SCREW 2 REQD	32 35 2	CLAMP PLATE 2 REQD		
15 45184 1	ZERO BEAM ARM	33 35 2	CLAMP PLATE 2 REQD		
16 45184 1	ZERO BEAM ARM	34 19712 4	PALNUT 1 REQD		
17 6 32 1 16	PAN HD CD PL STL EXT SEMS 2 REQD	35 45181 1	SUPPORT STUD 4 REQD		
18 45184 1	ZERO BEAM ARM	36 45181 1	RANGE ARM ASSY		
19 45184 1	ZERO BEAM ARM	37 45184 1	MODEL DC DD INCLUDES		
20 1941235 2	SPECIAL SCREW 2 REQD	38 45184 1	MODEL DC DD INCLUDES		
21 8 32 1 2	PAN HD CD PL STL EXT SEMS 2 REQD	39 45184 1	MODEL DC DD INCLUDES		
22 45184 1	ZERO BEAM ARM				
23 2 48 1 18	PAN HD CD PL STL EXT SEMS 4 REQD				
24 45184 1	ZERO BEAM ARM				
25 45184 1	ZERO BEAM ARM				

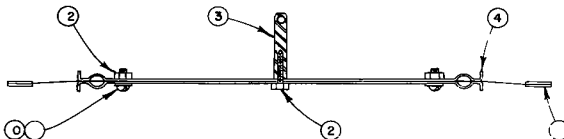
D APHRAGM MECHANISM						
DRAFT OR PRESSURE		DIFFERENTIAL PRESSURE		RANGE SPAN IN H ₂ O	POSIT ON	TEM 38
MODEL DA		MODEL DC				
TYPE PG20	TYPE PG 3	TYPE PG20	TYPE PG13			
451985 1	451985 31	451985 16	451985 48	50	7 9	451985 3
451985 2	451985 32	451985 17	451985 49	80	1 49	451985 2
451985 3	451985 33	451985 18	451985 50	50	1 99	451985 3
451985 4	451985 34	451985 19	451985 51	2 00	3 99	451985 4
451985 5	451985 35	451985 20	451985 52	4 00	4 99	451985 5
451985 6	451985 36	451985 21	451985 53	5 00	5 99	451985 6
451985 7	451985 37	451985 22	451985 54	6 00	9 39	451985 7
451985 8	451985 38	451985 23	451985 55	9 40	12 59	451985 8
451985 9	451985 39	451985 24	451985 56	2 60	15 79	451985 9
MODEL DB		MODEL DD		RANGE SPAN IN H ₂ O	POSITION	ITEM 38
TYPE PG20	TYPE PG13	TYPE PG20	TYPE PG13			
451985 10	451985 40	451985 25	451985 55	5 80	18 89	451985 3
451985 11	451985 41	451985 26	451985 56	14 90	27 29	451985 2
451985 12	451985 42	451985 27	451985 57	27 90	34 99	451985 3
451985 13	451985 43	451985 28	451985 58	35 00	63 49	451985 4
451985 14	451985 44	451985 29	451985 59	62 50	83 69	451985 5
451985 15	451985 45	451985 30	451985 60	95 70	144 50	451985 6

DIAPHRAGM MECHANISM	
PT NO 254055 1	PT NO 254055 2
FOR MODEL DA OR DB	FOR MODEL DC OR DD
CONTAINS 1 OF ITEM 48	CONTAINS 1 OF ITEM 44
CONTAINS EACH OF ITEMS 6 11 18 & 5	
CONTAINS 2 OF ITEM 3	

FIGURE 16 - Parts Drawing M42-26, Diaphragm Mechanism for Type PG Multi-Pointer Gage, Model DA, DB, DC, and DD



HIGH RANGE D APHRAGM ASSY, PART NO 45 978



LOW RANGE D APHRAGM ASSY, PART NO 45 979

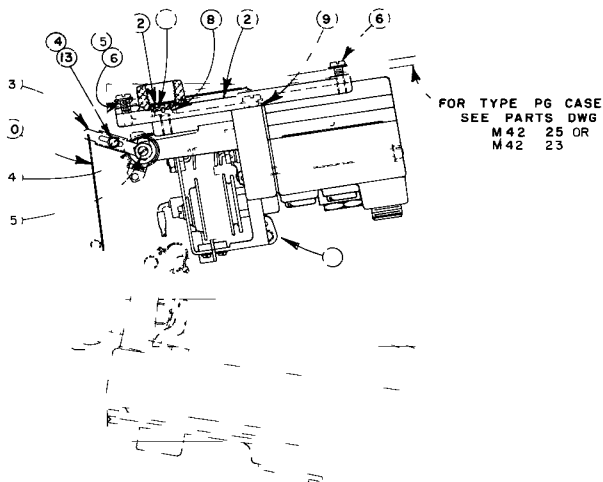
LIST OF PARTS

ITEM NO.	PART NO.	NAME	ITEM NO.	PART NO.	NAME
	SEE TABLE	D APHRAGM & GASKET ASSY	9	45 839	D APHRAGM MASK, 2 REQD
2	45 975	SPEC AL. SCREW	0	3 48 X 7/4	RD HD SCREW, 2 REQD
3	45 83	PUSHER ROD		NO 4	STEEL WASHER, 2 REQD
4	SEE TABLE	D APHRAGM CLAMP, 2 REQD	2	NO 3 48	HEX NUT 2 REQD
5	6 32 X 3/8	B ND HD SCREW, 4 REQD			
7	NO 6 32	HEX NUT 4 REQD			
8	45 977	ST FFEN NG R NG			

TABLE

	ITEM	ITEM 4	
	D APH. & GASKET ASSY	DIAPHRAGM CLAMP	
PART NO 45 978	45 2024	45 837	
PART NO 45 979	45 2025-	45 838	

FIGURE 17 Parts Drawing M42 30, Diaphragm Assemblies
for Diaphragm Mechanism, Model DA, DB, DC, and DD

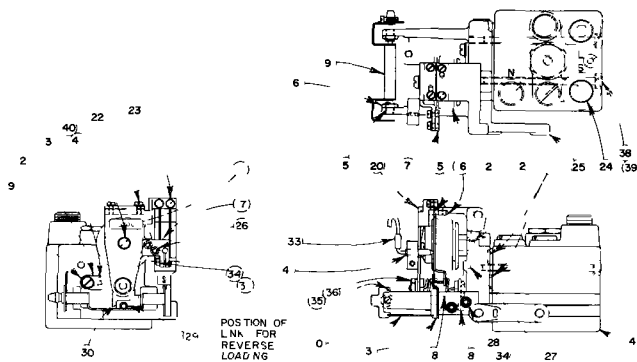


ITEM	PART NO	NAME	ITEM	PART NO	NAME	ITEM	PART NO	NAME
1	SEE TABLE	PNEU TRANSMITTER	6	452219 1	8 32x1 2 SEALING SCR	12	320413 1	WIRE MESH DISC 2 REQD
2	452003 1	MANIFOLD	8	10 32x3 8	PAN HD CD PL STL	13	7x56x1 8	PAN HD CD PL STL SCR
3	68549 3	ADJUSTABLE END			EXT SEMS 2 REQD	14	9734 1	WASHER
4	68457 4	DRIVE ARM	9	5311428 2	O RING 2 REQD	15	97496 6	NO 8 NYLON SEALING WASHER
5	3 43x3 16	PAN HD LD PL STL	10	452041 1	LINK	16	8 32x1 2	FLAT HD SST MACH SCR
		EXT SEMS	11	5320414 1	FELT PAD 2 REQD			

TABLE				
MODEL	RANGE	ASSEMBLY *	ITEM 1 PNEUMATIC TRANSMITTER	
PA	3 27 PSIG	452042 1	452043 2	FOR TRANSMITTER DETAILS SEE PARTS DWG P98 23
PB	3 15 PSIG	452042 2	452043 4	
PC	5 25 PSIG	452042 1	452043 2	

*ASSEMBLY 452042 □ INCLUDES ITEMS 1 THRU 16

FIGURE 18 Parts Drawing M42-28, Pneumatic Transmitter
for Type PG Multi-Pointer Gage, Model PA, PB, and PC



LIST OF PARTS									
ITEM	PART NO	NAME		ITEM	PART NO	NAME			
	CODE LABEL	SPECIFY NO WHEN ORDERING		PTS	SEE TABLE	SUPPORT BLOCK			
2	45 2007	BELLWOWS ASSEMBLY		25	4 40 X 1/4"	PAN HD SCREW		2 REQ	
3	45 953	VALVE ASSEMBLY		26	68 4	P VOT			
4	45 949	NOZZLE ASSEMBLY		27	4 40 X 1/4"	SOCKET SCREW		2 REQ	
5	45 850	JEWEL BEARING		29	4 40 X 1/4"	SOC HD CAP SCREW			
6	97 32 4	PAL NUT		30	45 2032	ADJ SCREW BRACKET			
7	45 956	CLAMP PLATE		3	4 40 X 1/4"	SOC HD SCREW			
8	45 2009	SPRING SUPPORT							
9	45 2035	OFFSET DRIVE ARM		35	R9023 029	BMO CO NO 38 INSULATION TUBING 5 LG			
0	45 2039	LINK		34	NO 4 SAE	SPRING LOCKWASHER		5 REQ	
1	53 428 2	O RING		35	20B 00	SHKPRF LOCKWASHER		2 REQ	
2	53 428 3	O RING		36	8 32	HEX NUT		2 REQ	
3	53 428 0	O RING							
4	SEE TABLE	BOOSTER RELAY		38	8 32 X 2 1/2"	FL HD SCREW		2 REQ	
5	68 820	BELLWOWS BEAM HINGE SPRING		39	NO 8 SAE	SPRING LOCKWASHER		2 REQ	
6	68 824	TAPPED PAD		40	8 32 X 1/2"	PAN HD SCREW			
7	SEE TABLE	CLAMP BLOCK		4	206 00	SHKPRF LOCKWASHER			
8	SEE TABLE	RANGE SPRING							
9	6 32 X 3/16"	PAN HD NT SEMS							
10	45 2040	BELLOW BEAM							
2	45 945	CONNECTOR ASSEMBLY							
22	3 48 X 1/4"	PAN HD XT SEMS		4 REQ					
23	2 56 X 3/16"	PAN HD NT SEMS		2 REQ					
24	95 04	PIPE PLUG		SEE TABLE					

TABLE									
USE	RANGE PS G	PNEUMATIC TRANSMITTER PART NO	ITEM 25	ITEM 26	ITEM 27	ITEM 28	ITEM 29	ITEM 30	ITEM 31
CLASS PA TRANSMITTER	3 27	45 2043	45 2005	53 9700-3	68 870	OM T	68 246		
CLASS PB TRANSMITTER	3 27	45 2043 3	45 2005	53 9700-3	68 870	OM T	68 246		
CLASS PC TRANSMITTER	5 25	45 2043	45 2005	53 9700-3	68 870	OM T	68 246		
TYPE PG MULT PONTNER GAGE, MODEL PA	3 27	45 2043 2	45 2005-2	53 9700-2	68 870	2 REQ	68 834		
TYPE PG MULT PONTNER GAGE, MODEL PB	3 27	45 2043 4	45 2005-2	53 9700-2	68 870	2 REQ	68 834		
TYPE PG MULT PONTNER GAGE, MODEL PC	5 25	45 2043 2	45 2005-2	53 9700-2	68 870	2 REQ	68 834		
HALF CHART APPL CAT ON, CLASS PA	3 27	45 2043 2	45 2005	53 9700-3	68 2474	OM T	68 246		
HALF CHART APPL CAT ON, CLASS PB	3 27	45 2043 3	45 2005	53 9700-3	68 870	OM T	68 246		
HALF CHART APPL CAT ON, CLASS PC	5 25	45 2043 5	45 2005	53 9700-3	68 2474	OM T	68 246		

SPARE PARTS K.T. PART NO 256 60				SPARE PARTS K.T. PART NO 256 60 2				SPARE PARTS K.T. PART NO 256 60 3			
USE	QTY	ITEM NO		USE	QTY	ITEM NO		USE	QTY	ITEM NO	
CLASS PA & PC TRANSMITTER	EA	2 0 2		CLASS PB TRANSMITTER	EA	2 0 2		HALF CHART APPL CAT ON	EA	2 0 2	
TYPE PG MULT PONTNER GAGE		3 & 8		TYPE PG MULT PONTNER GAGE, MODEL PB		3 & 8		CLASS PA2 PA3 PC2 & PC3		3 & 8	
MODEL PA & PC											
HALF CHART APPL CLASS PB2 & PB3	3 EA				3 EA				3 EA		

FIGURE 19 Parts Drawing P99-23, Model PA, PB, and PC Pneumatic Transmitter Details

Product Warranty

Bailey Meter Company warrants the products manufactured by it to be free from defects in material and workmanship and will repair or replace, at its option, free of charge, f o b its factory, such part or parts which prove defective within one year from date of shipment. In respect to any products which are not an integral part of a product manufactured by the Company, the warranty given by the manufacturer thereof shall apply.

Shipping Damage

We strongly recommend that you inspect and test your instrument as soon as you receive it. If the instrument is damaged or operates improperly, notify the carrier for inspection of the shipment. The carrier's claim agent will prepare a report of damage, a copy of which should be forwarded to your nearest Bailey District Office (see back cover for location). The District Office will then tell you how to have the instrument repaired or replaced.

Service

The Bailey Meter Company is v t ally concerned that your Bailey instrument provides continued, fine performance. This nstruction manual is designed to fully describe the correct installation, operation and maintenance of your instrument under recommended conditions. If the need arises, factory trained Service Engineers are on call for prompt, in plant maintenance. Telephone or wire your nearby Bailey District Office to make arrangements for this service (see back cover for location and telephone number).

Replacement Parts and Supplies

Complete parts drawings and recommended spare parts kit information are included in this instruction manual. When replacement parts or supplies are required for maintenance of your Bailey instrument, contact your nearest Bailey District Office (see back cover for location). Always specify complete data on the instrument nameplate on your inquiry or order for parts. Common parts are available for shipment within 48 hours on a speed order basis.

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Code 504 Phone 488 0841

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Code 617 Phone 426 0465

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Detroit
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Code 617 Phone 645 7752

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Kansas City
Code 816 Phone 361 4902

St Louis
Code 314 Phone 962 5532

NEW YORK

Buffalo
Code 716 Phone 839 3662

New York
Code 212 Phone 986 8770

Schenectady
Code 518 Phone 374 7991

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East Orange
Code 201 Phone 674 6830

NORTH CAROLINA

Charlotte
Code 704 Phone 334 9161

OHIO

Cincinnati
Code 513 Phone 281 0132

Cleveland
Code 216 Phone 851 8600

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