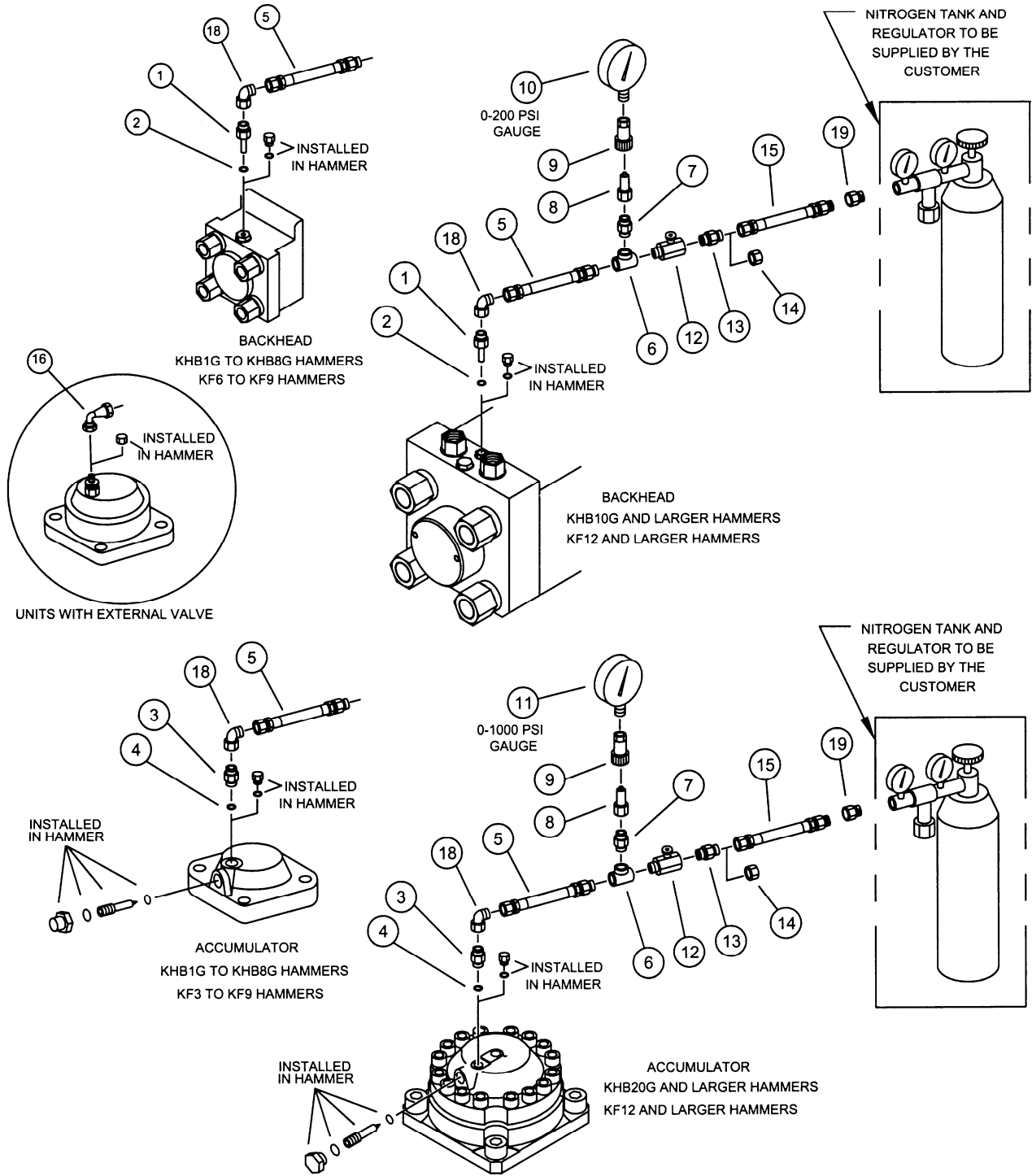




# **F and G SERIES HAMMER** **GAS CHARGE SERVICE KIT** **INFORMATION**

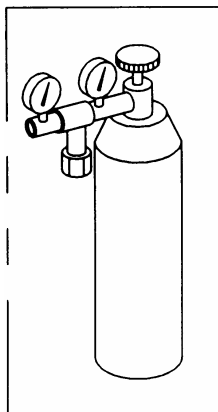




## **F and G SERIES HAMMER GAS CHARGE SERVICE KIT INFORMATION**

### **UNIVERSAL CHARGE KIT PART NO. KBM21805**

<u>ITEM</u>	<u>PART NO.</u>	<u>QTY</u>	<u>DESCRIPTION</u>
1	K15587	1	CHARGE KIT ADAPTER
2	K03034	1	O-RING
3	K15588	1	CHARGE KIT ADAPTER
4	K01829	1	O-RING
5	K21806	1	HOSE ASSEMBLY
6	K08897	1	1/4" NPT FEMALE TEE
7	K08977	1	1/4" NPT PIPE NIPPLE
8	K15341	1	1/4" NPT Q.D. NIPPLE
9	K15340	2	1/4" NPT Q.D. COUPLER
10	K15350	1	200 PSI PRESSURE GAUGE
11	K15351	1	1000 PSI PRESSURE GAUGE
12	K15348	1	1/4" NPT SHUT-OFF VALVE
13	K04692	1	1/4" NPT X 4 JIC ADAPTER
14	K15339	1	4 JIC CAP
15	K21373	1	HOSE ASSEMBLY
16	K15331	*	CHARGE ADAPTER
17	K15659	*	1/8" NPT X 4 JIC ADAPTER
18	K15374	1	4 JIC SWIVEL ELBOW
19	K19799	1	1/4" NPT X 1/8" NPT ADAPTER



Please note that the nitrogen gas tank and regulator/gauges set are not included in the KBM21805 Charge Kit. The gas tank can be any convenient size, and is readily available from most local welding gas suppliers. The Regulator/Gauge Set should be one that is appropriate to 1000 psi applications, similar to those referred to as "Argon" sets. A **Kent K15590 Regulator/Gauge Set** is available for use with the KBM21805 Charge Kit, but Kent does not supply gas or gas tanks.

\* The K15331 Charge Adapter is no longer used, but may be ordered separately for those older hammers that use the Schrader-type valve. The K15659 Fitting is required for use with this kit.



## **ACCUMULATOR** **CHARGING PROCEDURE** **F and G SERIES HAMMERS**

To receive the optimum performance from the hydraulic breaker, care must be taken to maintain the proper nitrogen charge in the accumulator of the breaker. To assist with this, Kent can supply a charge kit as illustrated on the opposite page.

The following is a step-by-step procedure that should be used to properly charge the accumulator. (Note: These instructions are written for Kent's charge kit. If you are not using Kent's charge kit, use the same procedure only disregard the reference to item numbers.

STEP 1            The breaker should be charged at ambient temperature (not operated).

STEP 2            The customer must supply a nitrogen tank complete with a regulator.



**USE EXTREME CAUTION WHEN HANDLING PRESSURIZED VESSELS!!**

STEP 3            Connect hose assembly (15) to the regulator on your nitrogen tank.

STEP 4            Turn shut-off valve (12) clockwise until completely closed.

STEP 5            Connect the 0-1000 PSI pressure gauge (11) and Q.D. coupler (9) to the Q.D. nipple (8).

STEP 6            Adjust your regulator to its lowest setting before opening the valve on your nitrogen tank. Open the valve on your tank and adjust your regulator to the appropriate accumulator charge.

*(Refer to the table shown on the opposite page to select the appropriate charge. A pressure closest to the middle of the range specified is optimum.)*

STEP 7            Remove the external plug located in the accumulator charge port on top the accumulator. Screw charge adapter (3) with O-ring (4) into the charge port.

STEP 8            Attach hose assembly (5) to charge adapter (3).

STEP 9            Remove the protective cap (19) from the accumulator, and loosen the valve (21) approximately one turn.

STEP 10           Open shut-off valve (12) to allow the gas to enter the accumulator chamber.

STEP 11           Wait about 15 seconds. The pressure reading on gauge (11) should now be correct. If the reading is not the proper charging pressure as shown in the table, adjust your regulator accordingly. Once the correct pressure reading is achieved, turn the shut-off valve (12) clockwise until it is fully closed.

STEP 12           Tighten the valve (21) completely, and replace the protective cap (19).

STEP 13           Remove charge adapter (3) from the charge port.

STEP 14           Re-install the plug into the charge port.



## **BACKHEAD** **CHARGING PROCEDURE** **F and G SERIES HAMMERS**

To receive the optimum performance from the hydraulic breaker, care must be taken to maintain the proper nitrogen charge in the backhead of the breaker. To assist with this, Kent can supply a charge kit as illustrated on the opposite page.

The following is a step-by-step procedure that should be used to properly charge the backhead. (Note: These instructions are written for Kent's charge kit. If you are not using Kent's charge kit, use the same procedure only disregard the reference to item numbers.

STEP 1        The breaker should be charged at ambient temperature (not operated) and in a horizontal position with the working steel all the way out.

STEP 2        The customer must supply a nitrogen tank complete with a regulator.



### **USE EXTREME CAUTION WHEN HANDLING PRESSURIZED VESSELS!!**

STEP 3        Attach charge adapter (1) to swivel elbow (18). Be sure that O-ring (2) is installed on charge adapter (1). The charge kit is shipped partially assembled. Assemble as shown in the illustration. A charge adapter (1) and O-ring (2) can also be found in the tool box included with the hammer.

STEP 4        Connect hose assembly (15) to the regulator on your nitrogen tank.

STEP 5        Turn shut-off valve (12) clockwise until it is completely closed.

STEP 6        Connect the 0 - 200 PSI pressure gauge (11) and Q.D. coupler (9), to the Q.D. nipple (8).

STEP 7        Adjust your regulator to its lowest setting before opening the valve on your nitrogen tank. Open the valve on your tank and adjust your regulator to the appropriate backhead charge.

*(Refer to the table shown on the opposite page to select the appropriate charge. A pressure closest to the middle of the range specified is optimum.)*

STEP 8        Remove the external plug located in the backhead charge port.

STEP 9        Insert the charge adapter (1) into the charge port. Push the charge adapter (1) into the charge port until it is fully seated. It will be necessary to hold the charge adapter in place until charging is completed.

STEP 10       Open shut-off valve (12) to allow the gas to enter the backhead chamber.

STEP 11       Wait about 15 seconds while holding the charge adapter (1) into the charge port. The pressure reading on gauge (11) should now be correct. If the reading is not the proper charge pressure as shown in the table, adjust your regulator accordingly.

STEP 12       Once the correct pressure reading is achieved, turn the shut-off valve (12) clockwise until it is fully closed.

STEP 13       Quickly remove the charge adapter (1) from the charge port. Replace the plug into the charge port.



## **BACKHEAD PRESSURE TABLE**

### **NITROGEN GAS CHARGE PRESSURE**

<b><u>AMBIENT TEMPERATURE</u></b>	<b><u>KHB1G &amp; KHB2G</u></b>	<b><u>KHB3G to KHB30G</u></b>	<b><u>KHB40G &amp; KHB50G</u></b>	<b><u>All F Series Hammers</u></b>
90° ~ 100° F	39 - 52 PSI	89 - 106 PSI	131 - 154 PSI	145 - 150 PSI
80° ~ 90° F	38 - 51 PSI	88 - 104 PSI	129 - 151 PSI	143 - 148 PSI
70° ~ 80° F	37 - 50 PSI	86 - 102 PSI	127 - 148 PSI	141 - 144 PSI
60° ~ 70° F	36 - 49 PSI	85 - 101 PSI	125 - 145 PSI	138 - 142 PSI
50° ~ 60° F	35 - 48 PSI	83 - 99 PSI	123 - 142 PSI	136 - 139 PSI
40° ~ 50° F	35 - 47 PSI	82 - 97 PSI	121 - 139 PSI	132 - 137 PSI
30° ~ 40° F	34 - 46 PSI	80 - 95 PSI	119 - 136 PSI	130 - 133 PSI
20° ~ 30° F	33 - 45 PSI	79 - 93 PSI	117 - 133 PSI	128 - 131 PSI
10° ~ 20° F	32 - 44 PSI	77 - 93 PSI	115 - 130 PSI	124 - 128 PSI
0° ~ 10° F	31 - 43 PSI	76 - 90 PSI	113 - 127 PSI	122 - 125 PSI
-10° ~ 0° F	31 - 42 PSI	75 - 88 PSI	111 - 124 PSI	119 - 122 PSI



## **ACCUMULATOR PRESSURE TABLE**

### **NITROGEN GAS CHARGE PRESSURE**

<b><u>AMBIENT TEMPERATURE</u></b>	<b><u>All G Series Hammers</u></b>	<b><u>All F Series Hammers</u></b>
90° ~ 100° F	732 - 810 PSI	908 - 956 PSI
80° ~ 90° F	719 - 796 PSI	892 - 924 PSI
70° ~ 80° F	706 - 781 PSI	876 - 908 PSI
60° ~ 70° F	693 - 767 PSI	860 - 892 PSI
50° ~ 60° F	680 - 753 PSI	844 - 876 PSI
40° ~ 50° F	666 - 739 PSI	828 - 860 PSI
30° ~ 40° F	653 - 725 PSI	812 - 844 PSI
20° ~ 30° F	640 - 710 PSI	796 - 828 PSI
10° ~ 20° F	626 - 696 PSI	780 - 812 PSI
0° ~ 10° F	613 - 682 PSI	764 - 796 PSI
-10° ~ 0° F	600 - 668 PSI	748 - 780 PSI