UNITED TECHNOLOGIES CARRIER	Commercial Division Carrier Corporation	BULLETIN: CA-SB-19-C-63-14 DATE: 9/11/63 PAGE: 1 OF: 6
SERVICE BULLETIN		SUPERSEDE BULLETIN: DATE: PAGE: OF:
SUBJECT: 19C MAIN BEARING DRAIN		

PURPOSE: The purpose of this bulletin is two-fold. Part I includes a resume' of all types of 19C main bearing drains since 1956. Part II includes the recommended conversion procedure for changing the external neoprene drain hose shown in Figure 3 to a flexible bronze hose as shown in Figure 4.

MACHINES AFFECTED: All standard 19C machines.

PROCEDURE: PART I. - TYPES OF MAIN BEARING DRAINS

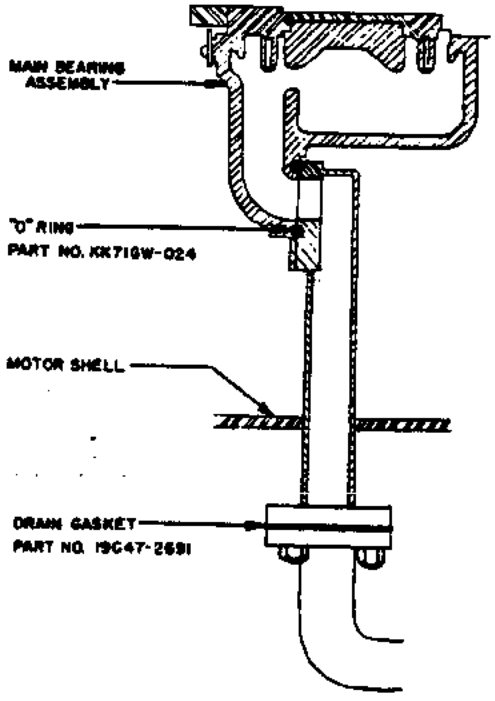


FIGURE 1 - Original Design

Used from 1956 - 1959 on all Standard 19C3,4, 5, 6, and 7 Size Compressors (Separable Oil Reservoir)

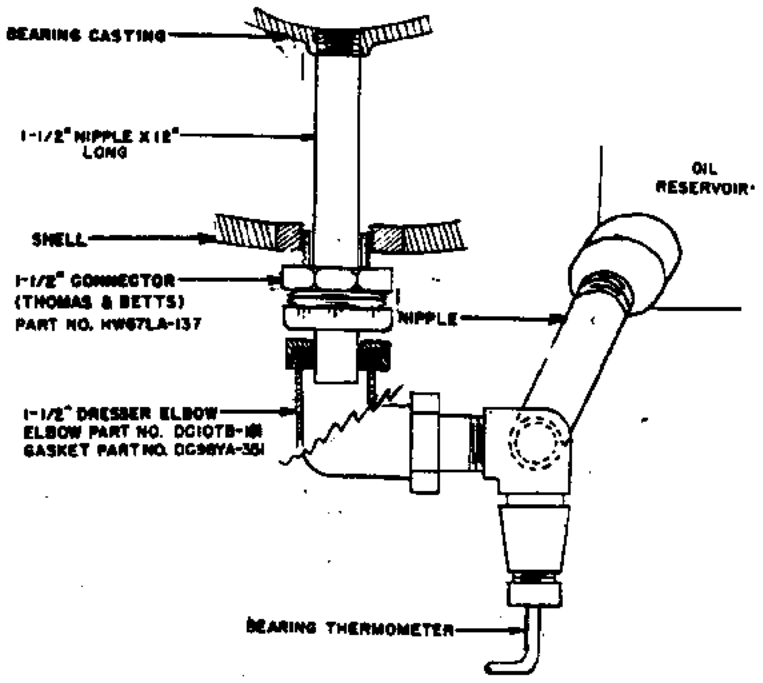
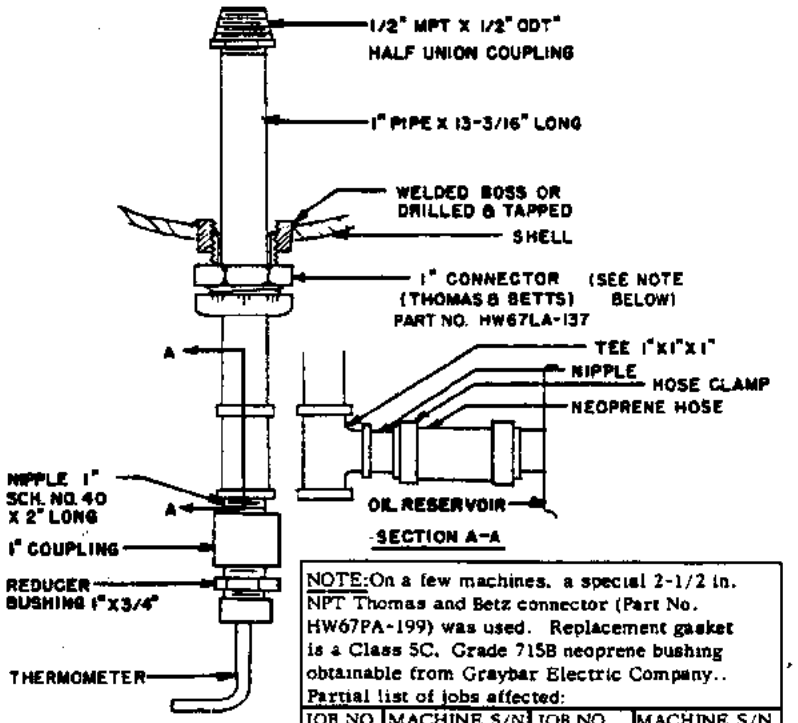


FIGURE 2- Design #2
Used from 1959-1960 on all standard 19C4, 5, 6, and 7 Size Compressors (Separable Oil Reservoir)



NOTE: On a few machines, a special 2-1/2 in. NPT Thomas and Betz connector (Part No. HW67PA-199) was used. Replacement gasket is a Class 5C, Grade 715B neoprene bushing obtainable from Graybar Electric Company..

Partial list of jobs affected:

JOB NO.	MACHINE S/N	JOB NO.	MACHINE S/N
60CL-1	4988, 4989	59WA-D13	5001
60P-2	4950	60WA-19	5200

FIGURE 3- Design#3
Used from 1960-1962 on all standard 19C6, 7, and 8 Size Compressors (Separable Oil Reservoir)

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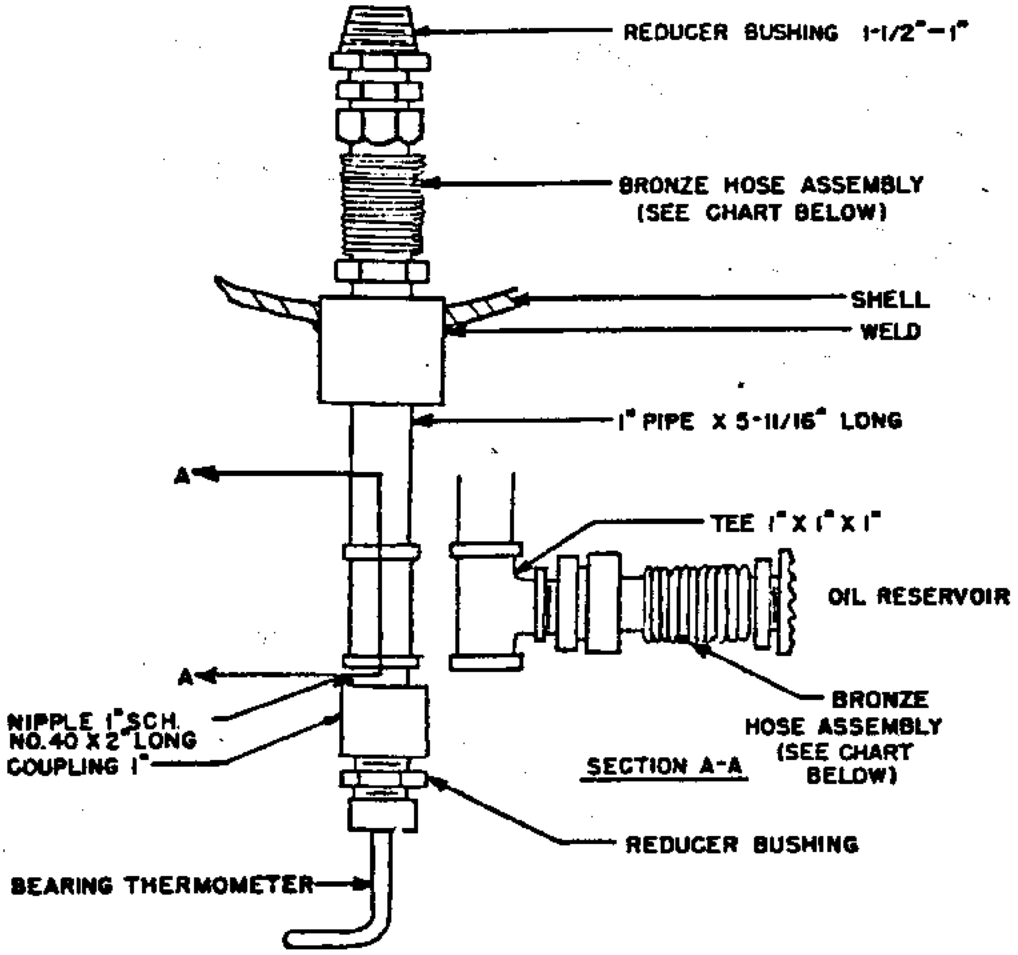

Machine Size	Part No. Internal Bronze Hose	Length Internal Bronze Hose	Part No. External Bronze Hose	Length External Bronze Hose
19C6	KA73PH-055	5-1/2"	KA73PH-055	5-1/2"
19C7	KA73PH-075	7-1/2"	KA73PH-055	5-1/2"
19C8	KA73PH-095	9-1/2"	KA73PH-055	5-1/2"

FIGURE 4 - Design #4

Used from 1962 to Present on all Standard 19C6, 7, and 8 Size Compressors (Separable Oil Reservoir)

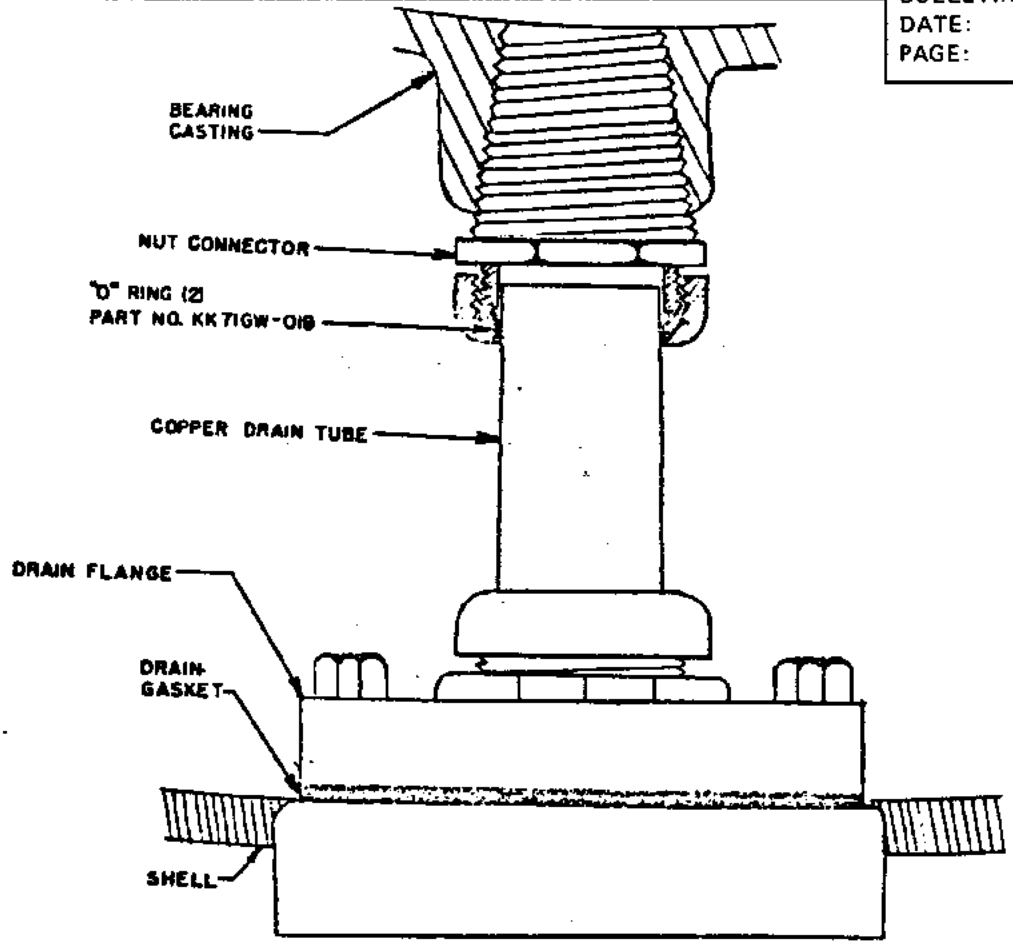

FIGURE 5 - Design #5

Used from 1960 to Present on all Standard 1903, 4, and 5 Size Compressors with Integral Oil Reservoir. (See Table 1, Page 5)

PART II.- CONVERSION OF DRAIN DESIGN #3 TO DRAIN DESIGN #4

Where trouble is experienced with design #3, it is recommended that the neoprene hose be modified to design #4, (Figure 4.)

The replacement flexible bronze hose (Part #KA73PH-55) is 5-1/2" in length, the union end of which screws directly into the 1"x1"x1" tee. A 1" coupling will have to be welded into the oil reservoir to accomodate the small end of the bronze hose. Slight misalignments between the tee and coupling can be compensated for by the flexible action of the hose.

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Compressor Size	Motor Size	Volts	Oil Reservoir Design	Main Bearing Design No.
19C4	G	208/220 440/550 2300	Integral	5
19C4	G	4160 4800	Separable	4
19C4	H	208/220 440/550 2300	Integral	5
19C4	H	4160 4800	Separable	4
19C5	H	208/220 440/550 2300	Integral	5
19C5	H	4160 4800	Separable	4
19C5	J	208/220 440/550	Integral	5
19C5	J	2300 4160 4800	Separable	4
19C5	K	208/220 440/550	Integral	5
19C5	K	2300 4160 4800	Separable	4

TABLE 1

Some high voltage 19C4 and 19C5 size compressors require the larger 19C6 motor shell with a separable oil reservoir. Table 1 shows the drain designs installed on all 19C4 and 19C5 compressors.