



Service Information Letter

S.I.L. NUMBER: HR 97-18 : Rev. 11/01

DATE: September, 1997

PRODUCT: Hy-Ram Hydraulic Impact Breakers

MODEL: 77 thru 905CS

SUBJECT: High-Pressure Accumulator Charge Pressures

PURPOSE: To advise of the proper charge pressures, provide parts information and identify service tool necessary for charging Hy-Ram accumulators.

EFFECTIVE POINT: All Field Units

DETAILS: The high-pressure accumulator found on the subject hammer models is divided into two distinct chambers by a flexible diaphragm. (Refer to Figure 2) One side of the accumulator contains a nitrogen gas charge, while the other is connected internally to the inlet pressure port of the hammer. The function of the accumulator is to dampen input oil pulsations and assist in providing oil for the piston impact stroke. To function properly, the accumulator must be charged with nitrogen to the proper value.

Table 1 provides the proper charging pressures for those hammers with rechargeable high-pressure accumulators.

Table 1: Accumulator Charge Pressures

725 PSI (50 Bar)	870 PSI (60 Bar)
710, B, 720, 730 740, 740CS 745, 745CS	77*, 88**, 99, 750, 750B, 750CS, 770, 770B, 770CS, 775CS, 780, 780CS, 785CS, 790, 795CS, 797CS, 797B, 800, 805CS, 805B, 905CS

* 77 Low-pressure accumulator charge: 30 psi (2 Bar).

** 88 Low-pressure accumulator charge: 45 psi (3 Bar).

The accumulators on all the models listed must be checked or charged using the Allied charge kit. (Refer to Figure 1)

Important! - When checking or charging the accumulator, all precautions in the individual hammer manuals and charge kit instructions must be carefully observed.

RELATED TOPICS:

Service Information Letter

- [HR 99-05](#)
- [HR 99-06](#)
- [HR 99-07](#)

Subject

- Accumulator Charging Procedure
- 1.5 Liter Rebuild Instructions
- 0.9 Liter Rebuild Instructions

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MATERIAL

REQUIREMENTS: Table 2 identifies the accumulator(s) that are found on the subject model Hy-Rams. With the exception of the model 77, all accumulators can be rebuilt and serviced with the charge tool shown in figure 1.

Table 2: Accumulator Parts Ordering Information

Hy-Ram Model	Capacity (Liter)	Part Number	Qty	Rebuild Kit
720	0.25	667223	1	667256
710, B, 730, 740, 740CS, 745, 745CS	0.25	N/A	1	667256
750CS, 775CS, 785CS	0.9	675175	1	675199
77 High-Pressure	1	656523	1	N/A
77 High-Pressure	1	656528	1	N/A
750(B), 750B	1.5	667623	1	667706
770(D), 770B, 770CS, 780, 780CS,	1.5	678792	1	667706
790, 795CS, 797CS&B, 800, 805CS&B	1.5	678792	2	667706
905CS	1.5	678792	2	667706
88 High-Pressure	2	658823	1	659356
88 Low-Pressure	2	658828	1	659356
99 High-Pressure	1	658823	1	659356
750(A)	2	667517	1	659356
770(C)	2	658823	1	659356
(A) 750 (s/n 0669 -) (B) 750 (s/n 0670 +)	(C) 770 (s/n 1649 -) (D) 770 (s/n 1650 +)	N/A = Not Available		

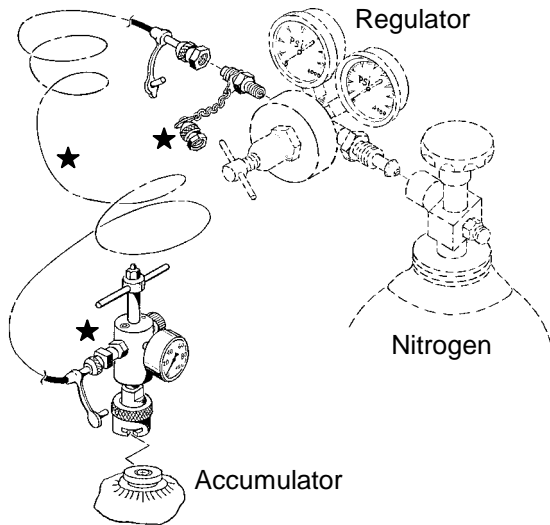


Figure 1

Accumulator Charge Kit P/N 657604
★ Denotes Items Included in Kit

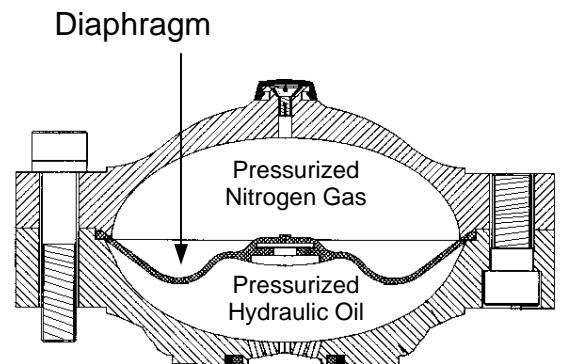


Figure 2

High Pressure Accumulator
(0.9 Liter Shown)

(Nitrogen Tank and Regulator NOT Included)