NEW Style L. Block

		WT (LBS)
		142
	4	142
	4	142
3A	8	67
3B	8	67
3C	8	67

130/150
Capitol Quarry
Rolla, MO. Larry

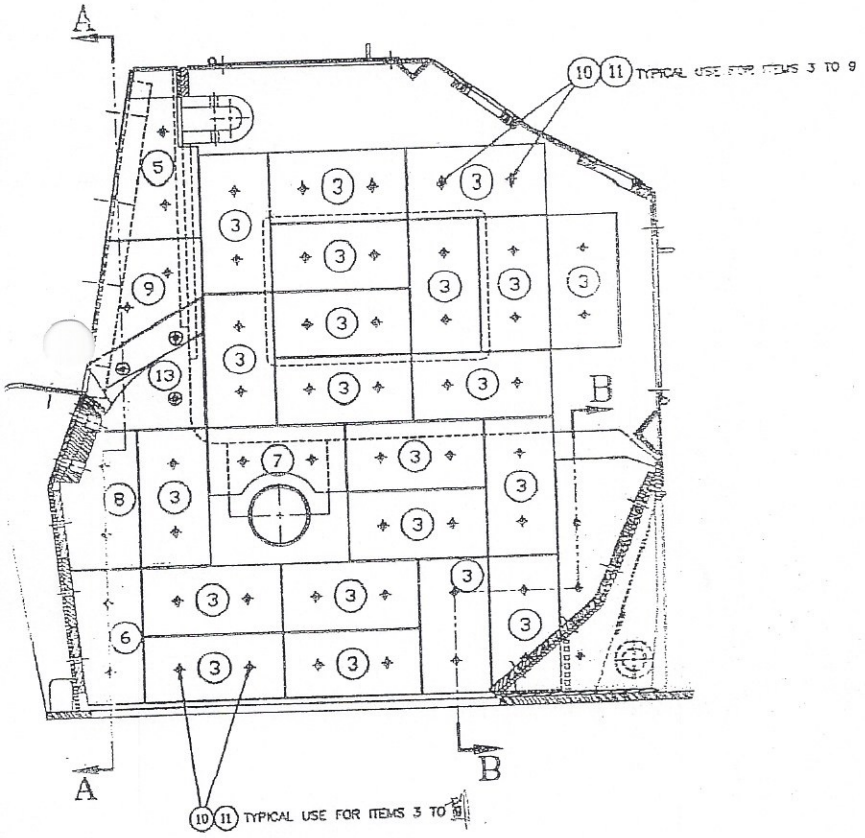
LINER ASSEMBLY NGS 130/150
3 CURTAIN=1245-719A 2 CURTAIN=1245-719B

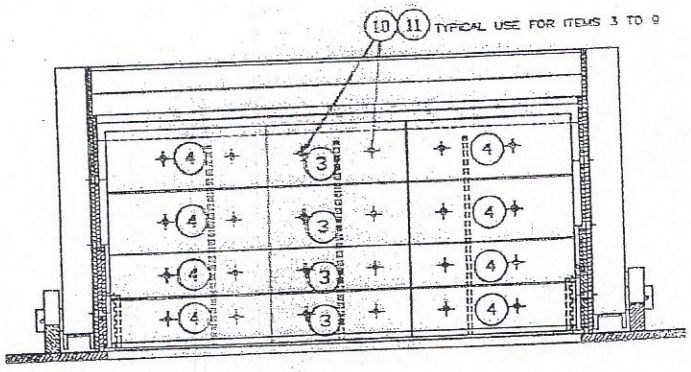
ITEM NO.	B QTY	A QTY	PART NO.	DESCRIPTION
1		X	1245-719A	LINER ASSEMBLY FOR NGS 130/150 WITH THIRD CURT
2	X		1245-719B	LINER ASSEMBLY FOR NGS 130/150 TWO CURTAIN
3	49	45	1245-A718	LINER
4	14	6	1245-B718	LINER
5	2	2	1245-C718	LINER
6	2	2	1245-D718	LINER
7	2	2	1245-E718	LINER
8	2	2	1245-F718	LINER
9	2	2	1245-G718	LINER
10	146	122	9-H37	HHCS
11	146	122	9-J71	LOCKWASHER
12	1	1	1245-111A	FUNNEL LINER ASSEMBLY (RH)
13	1	1	1245-111B	FUNNEL LINER ASSEMBLY (LH)
14	4	4	1245-2A	CURTAIN LINER ASSEMBLY (CHROME IRON)

18 →

36 →

Bolts 36
NO
18 - 3





SECTION B-B

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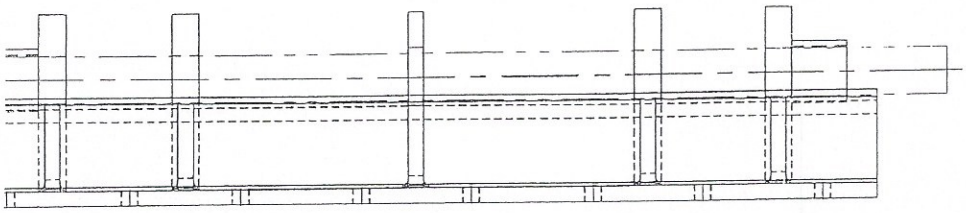
PHONE: 1-800-388-2051

UNIVERSAL ENGINEERING

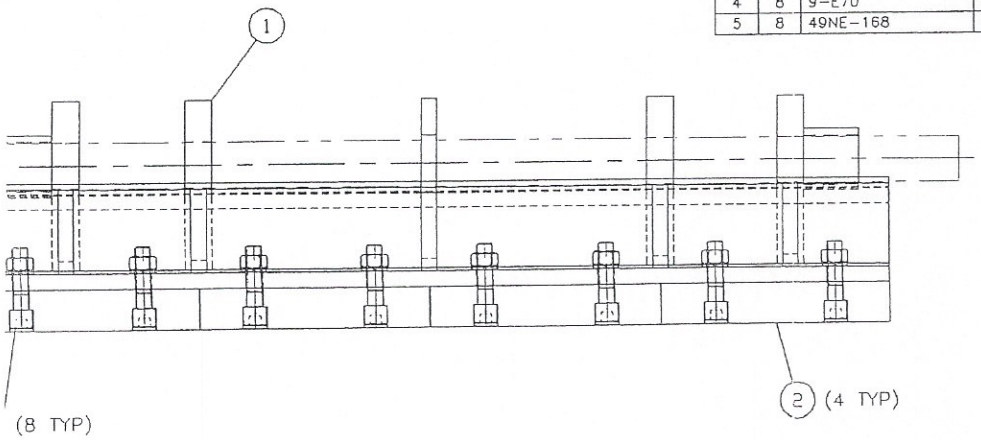
LINER ASSEMBLY
NGS 130/150

DATE | DRAWING NUMBER C1245-719

NGS 130/150 1ST CURTAIN MODIFICATION WELDMENT WEIGHT = 119 LBS			B/M NO. 1245-950UA
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	1245-949UA	NGS 130/150 1ST CURTAIN EXTENSION WELDMENT
2	REF	1245-714A	1ST CURTAIN WELDMENT NGS 130/150



NGS 130/150 1ST CURTAIN MODIFICATION ASSEMBLY WEIGHT = 1540.6 LBS			B/M NO. 1245-950A
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	1245-950UA	NGS 130/150 1ST CURTAIN MODIFICATION WELDMENT
2	4	1245-A949	PLT
3	8	9-T180	HEX SOCKET CAP SCREW
4	8	9-E70	FLATWASHER
5	8	49NE-168	LOCK NUT



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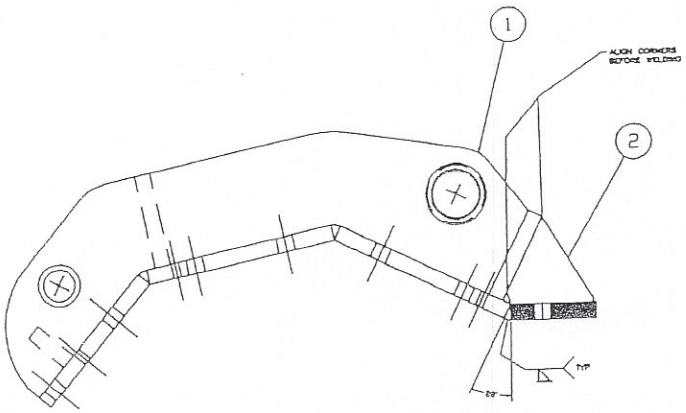
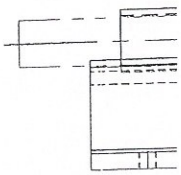
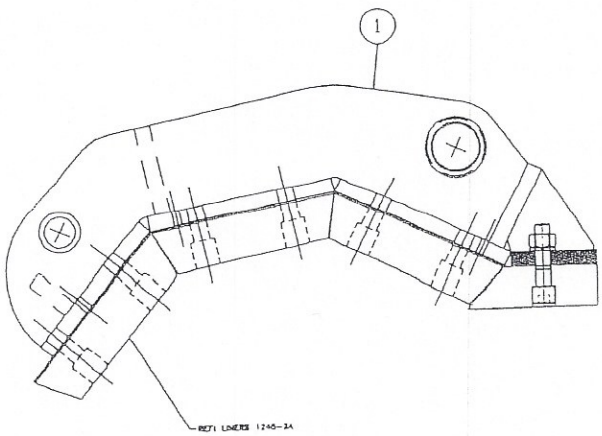
NGS 130/150 1ST CURTAIN MODIFICATION INSTALLATION

DATE | DRAWING NUMBER C1245-950 (0)


1
2
ALIGN CORNERS BEFORE WELDING
TYP

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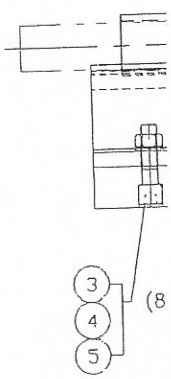
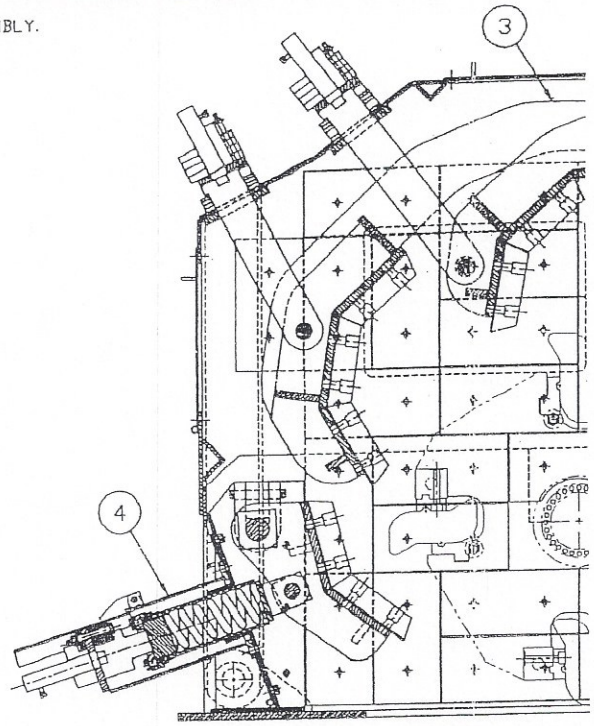
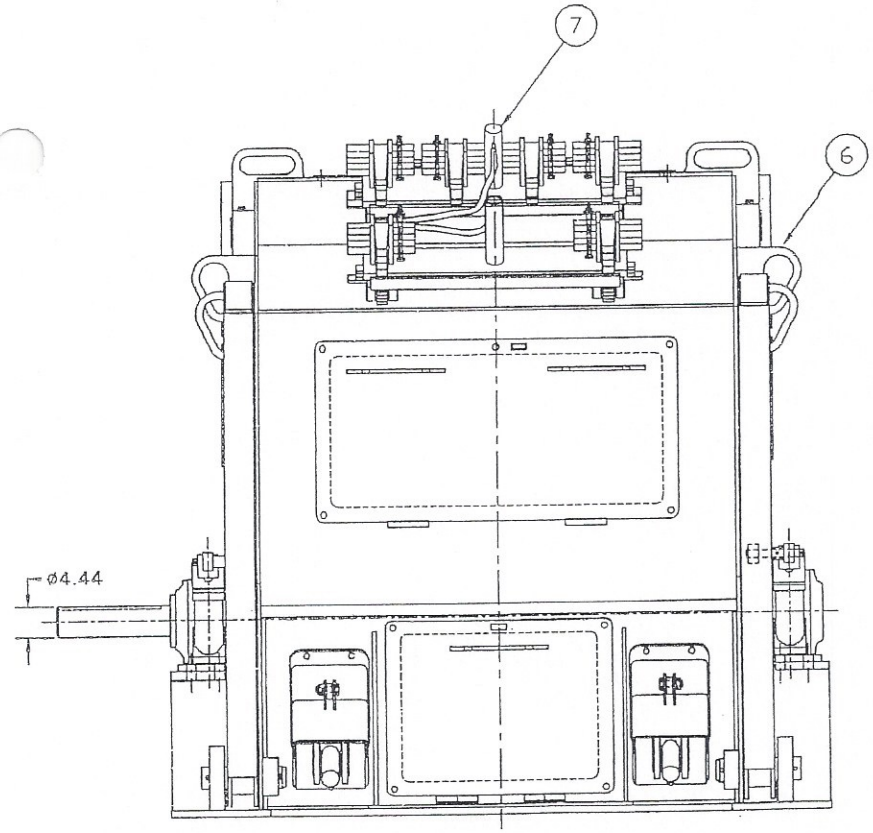
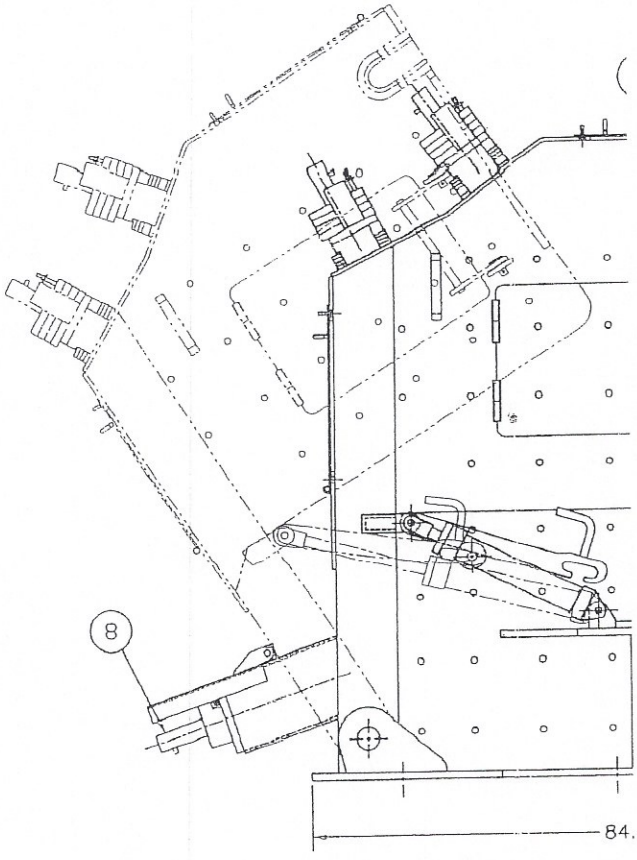
INSTL LINERS 1245-2A


3
4
5

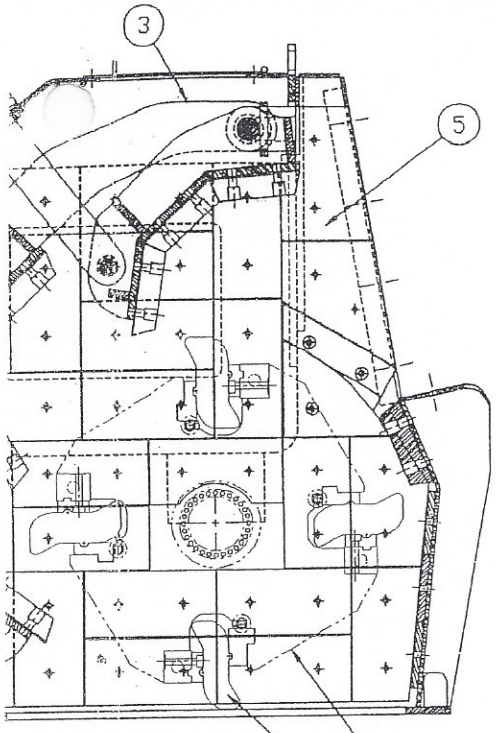
NOTES: 1. THESE ASSEMBLIES DO NOT INCLUDE HAMMER & RETAINER ASSEMBLY OR FEED CHUTE ASSEMBLY.
2. REFERENCE 1245-707 FOR THE HAMMER & RETAINER ASSEMBLY.
3. INSTALLATION DRAWING: 1245-771
FEED CHUTE INSTALLATION DRAWINGS: 1245-738 TRADITION FEED CHUTE
1245-739 CONVEYOR FEED CHUTE
1245-740 SCREEN FEED CHUTE



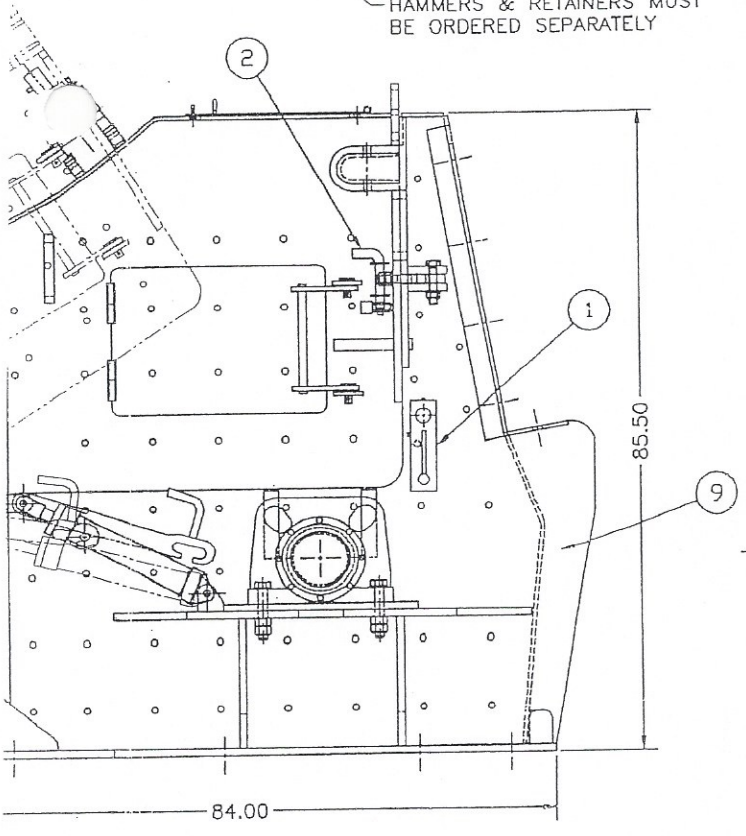


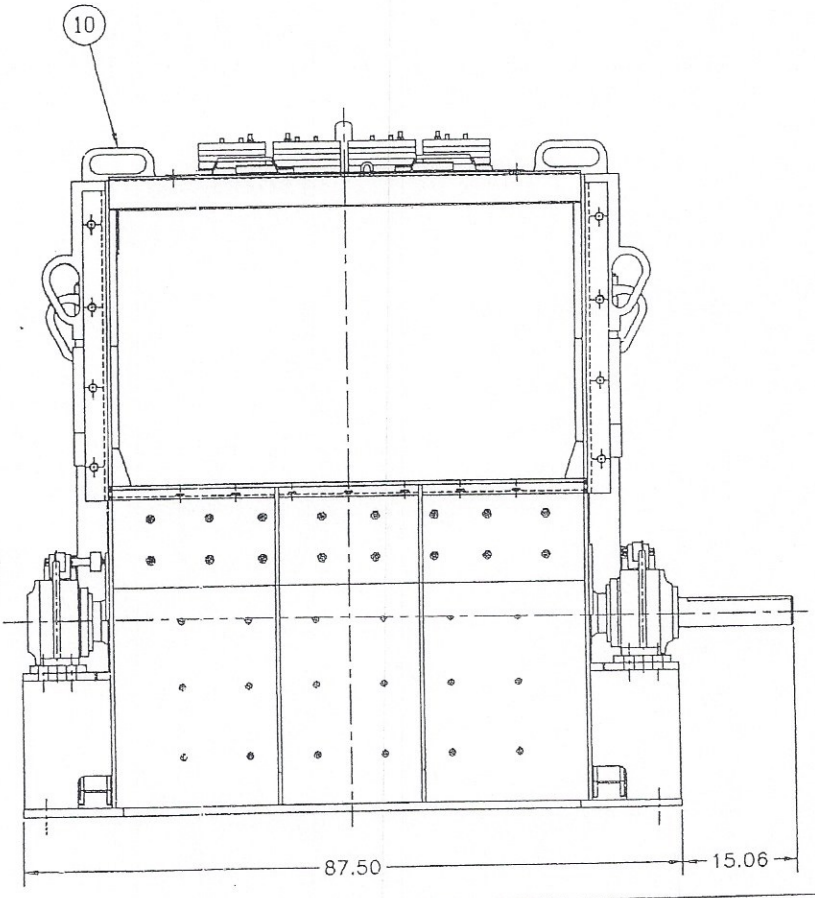


RIGHT HAND DRIVE SHOWN
LEFT HAND DRIVE OPPOSITE



HAMMERS & RETAINERS MUST BE ORDERED SEPARATELY





NGS 130/150 TC IMPACT HOUSING ASSEMBLY WEIGHT = 21,427#			B/M NO. 1245-737A
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	1245-701A	NGS 130/150 ROTOR LOCK ASSEMBLY
2	1	1245-706A	IMPACT HOOD OPEN LOCK
3	1	1245-715A	FIRST & SECOND CURTAIN ASSEMBLY
4	1	1245-717A	THIRD CURTAIN ASSEMBLY NGS 1301/50
5	1	1245-719A	LINER ASSEMBLY NGS 130/150
6	1	1245-724C	HOUSING WELDMENTS NGS 130/150
7	1	1245-733A	HYDRAULIC & HOOD LOCK ASSEMBLY FOR NGS 130/150
8	1	1245-733B	THIRD CURTAIN HYDRAULIC ASSEMBLY FOR NGS 130/150
9	1	1245-736A	SAFETY SIGN ASSEMBLY

NGS 130/150 TC IMPACT LH DRIVE ASSY WEIGHT = 28,627#			B/M NO. 1245-737B
ITEM NO.	QTY	PART NO.	DESCRIPTION
10	1	1245-737A	NGS 130/150 TC IMPACT HOUSING ASSEMBLY
11	1	1245-707B	LH DRIVE ROTOR ASSEMBLY TOP LOAD

NGS 130/150 TC IMPACT RH DRIVE ASSY WEIGHT = 28,627#			B/M NO. 1245-737C
ITEM NO.	QTY	PART NO.	DESCRIPTION
10	1	1245-737A	NGS 130/150 TC IMPACT HOUSING ASSEMBLY
11	1	1245-707A	RH DRIVE ROTOR ASSEMBLY TOP LOAD

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UNIVERSAL ENGINEERING

NGS 130/150 TC IMPACT ASSEMBLY

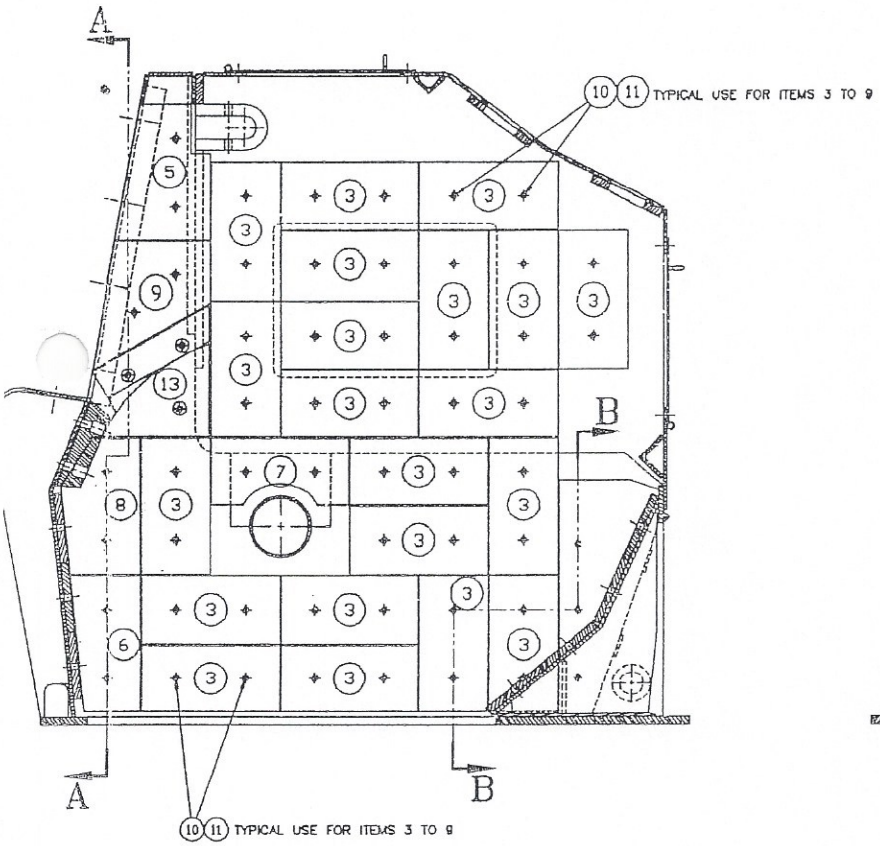
DATE

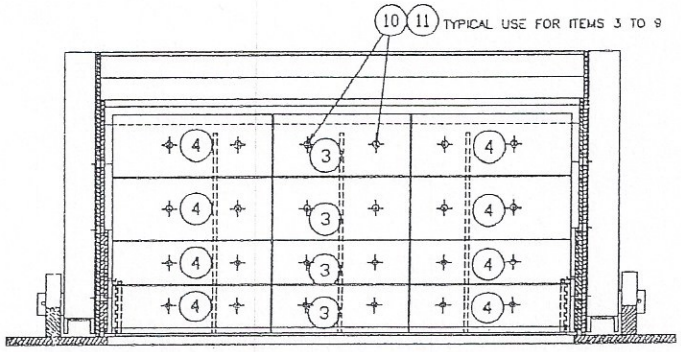
DRAWING NUMBER C1245-737 (1)

(4)

NO	QTY	WT (LBS)
2	4	142
2B	4	142
2C	4	142
73A	8	67
73B	8	67
73C	8	67

LINER ASSEMBLY NGS 130/150				B/M NO.
3 CURTAIN=1245-719A		2 CURTAIN=1245-719B		1245-719A&E
ITEM NO.	B QTY	A QTY	PART NO.	DESCRIPTION
1		X	1245-719A	LINER ASSEMBLY FOR NGS 130/150 WITH THIRD CURTAI
2	X		1245-719B	LINER ASSEMBLY FOR NGS 130/150 TWO CURTAIN
3	49	45	1245-A718	LINER
4	14	6	1245-B718	LINER
5	2	2	1245-C718	LINER
6	2	2	1245-D718	LINER
7	2	2	1245-E718	LINER
8	2	2	1245-F718	LINER
9	2	2	1245-G718	LINER
10	146	122	9-H37	HHCS
11	146	122	9-J71	LOCKWASHER
12	1	1	1245-111A	FUNNEL LINER ASSEMBLY (RH)
13	1	1	1245-111B	FUNNEL LINER ASSEMBLY (LH)
14	4	4	1245-2A	CURTAIN LINER ASSEMBLY (CHROME IRON)





SECTION B-B

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CEDAR RAPIDS, IOWA 52405, USA
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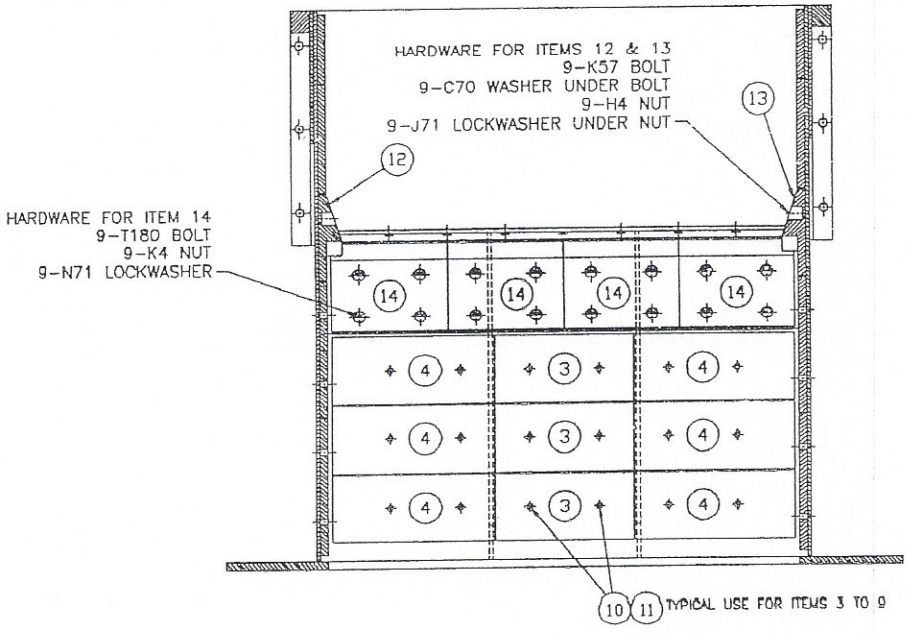
UNIVERSAL ENGINEERING

LINER ASSEMBLY
NGS 130/150

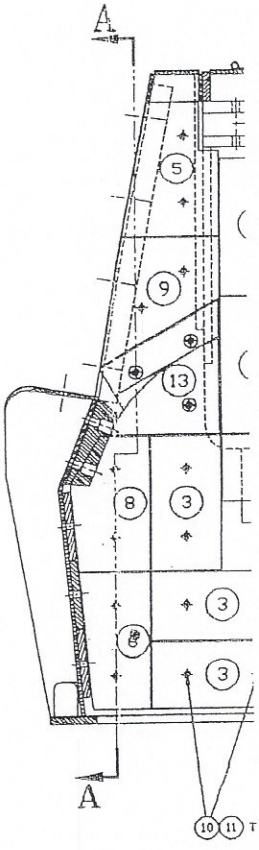
DATE

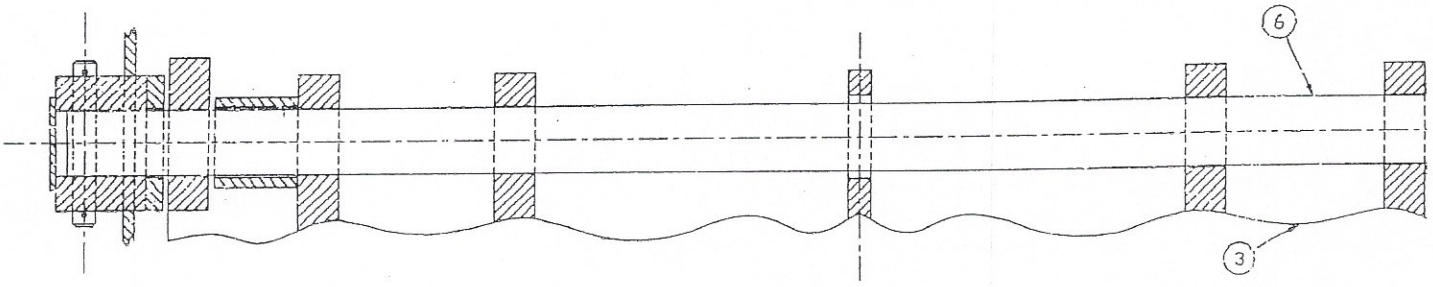
DRAWING NUMBER C1245-719 (

ITEM 14	CURTAIN LINER ASSEMBLY	PART NO.	QTY	WT (LBS)
STANDARD	CHROME IRON FULL SIZE	1245-2A	4	142
ALTERNATE	MANGANESE STEEL FULL SIZE	1245-2B	4	142
ALTERNATE	CHROME STEEL FULL SIZE	1245-2C	4	142
ALTERNATE	CHROME IRON HALF SIZE	1245-773A	8	67
ALTERNATE	MANGANESE STEEL HALF SIZE	1245-773B	8	67
ALTERNATE	CHROME STEEL HALF SIZE	1245-773C	8	67



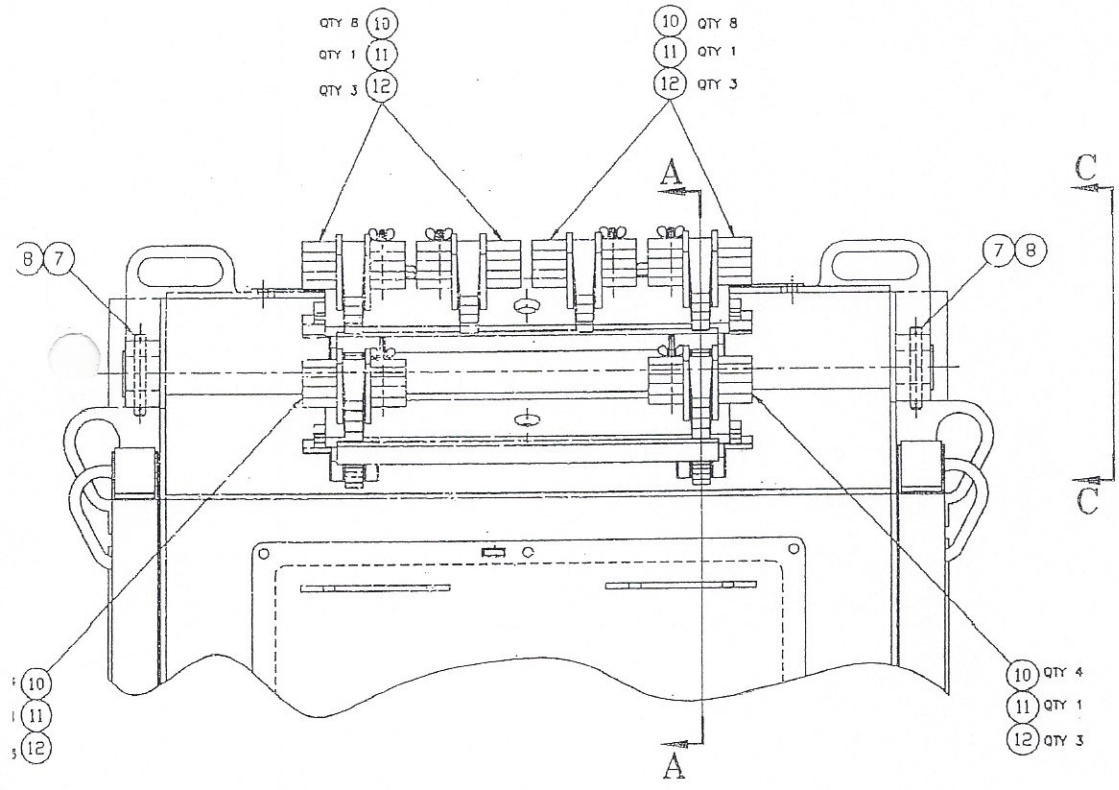
SECTION A-A

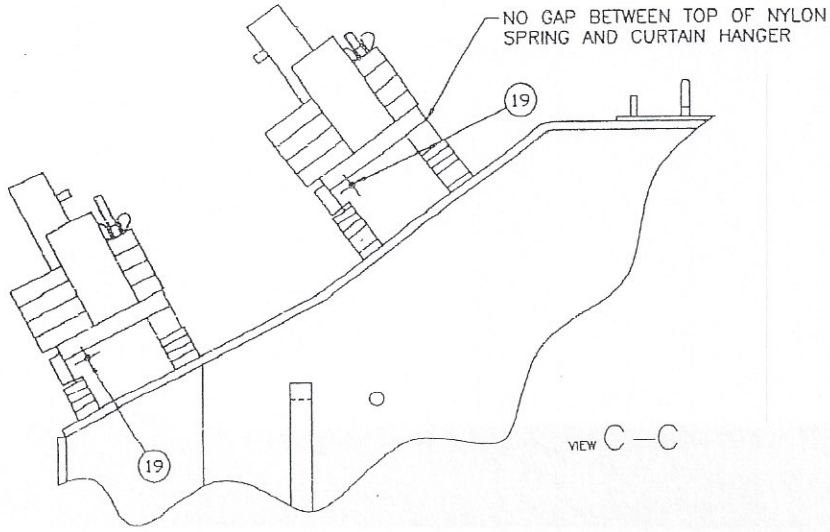




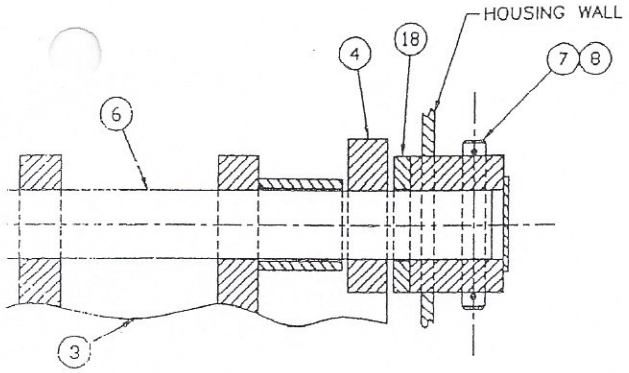
SECTION B–B

ITEM 9	CURTAIN LINER ASSEM
STANDARD	CHROME IRON FULL SIZ
ALTERNATE	MANGANESE STEEL FULL S
ALTERNATE	CHROME STEEL FULL SI
ALTERNATE	CHROME IRON HALF SIZ
ALTERNATE	MANGANESE STEEL HALF S
ALTERNATE	CHROME STEEL HALF SI



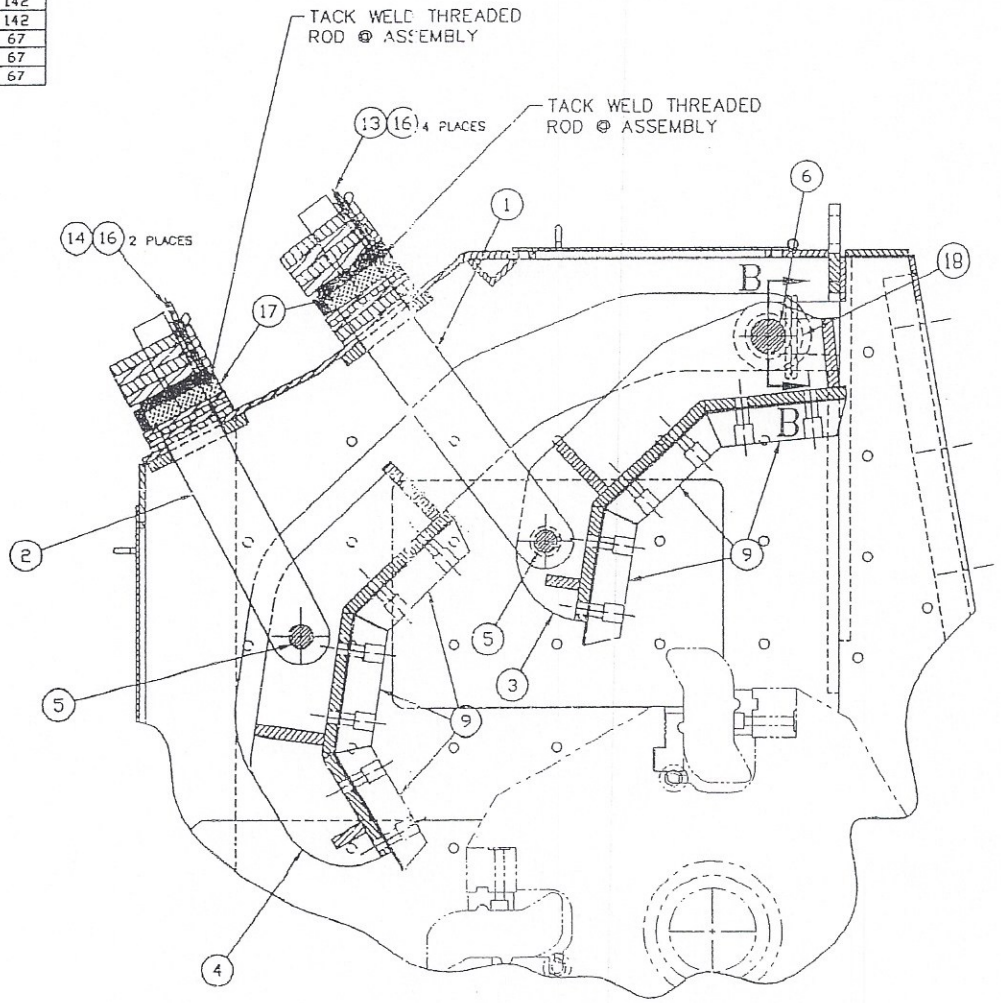


VIEW C–C



FIRST & SECOND CURTAIN ASSEMBLY NGS 130/150 WT = 7315#			B/M NO. 1245-715
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	1245-727A	FIRST CURTAIN HANGER WELDMENT NGS 130/150
2	1	1245-727B	SECOND CURTAIN HANGER WELDMENT NGS 130/150
3	1	1245-714A	1ST CURTAIN WELDMENT NGS 130/150
4	1	1245-713A	2ND CURTAIN WELDMENT NGS 130/150
5	4	1245-74C	PIN ASSEMBLY WITH DRIVE PIN
6	1	1245-X709	CRS
7	2	1245-E727	HRS
8	4	9-BN75	COTTER PIN
9	24	1245-2A	CURTAIN LINERS ASSEMBLY (CHROME IRON)
10	24	1245-A726	CURTAIN SETTING SHIM
11	4	1245-B726	CURTAIN SETTING SHIM
12	12	1245-C726	CURTAIN WEAR SHIM
13	4	1245-A715	THD ROD
14	2	1245-B715	THD ROD
15			
16	6	9-AB305	WING NUT TYPE "A" 0.50-13UNC
17	4	1245-B728	NYLON SPRING
18	2	1245-R709	0.75 THICK WASHER FOR ø3.00 PIN
19	4	9-P311	ROLL PIN ø0.38 x 4.00 LG

9	CURTAIN LINER ASSEMBLY	PART NO.	QTY	WT (LBS)
RD	CHROME IRON FULL SIZE	1245-2A	24	142
TE	MANGANESE STEEL FULL SIZE	1245-2B	24	142
TE	CHROME STEEL FULL SIZE	1245-2C	24	142
TE	CHROME IRON HALF SIZE	1245-773A	48	67
TE	MANGANESE STEEL HALF SIZE	1245-773B	48	67
TE	CHROME STEEL HALF SIZE	1245-773C	48	67



SECTION A—A

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PHONE: 1-800-366-2051

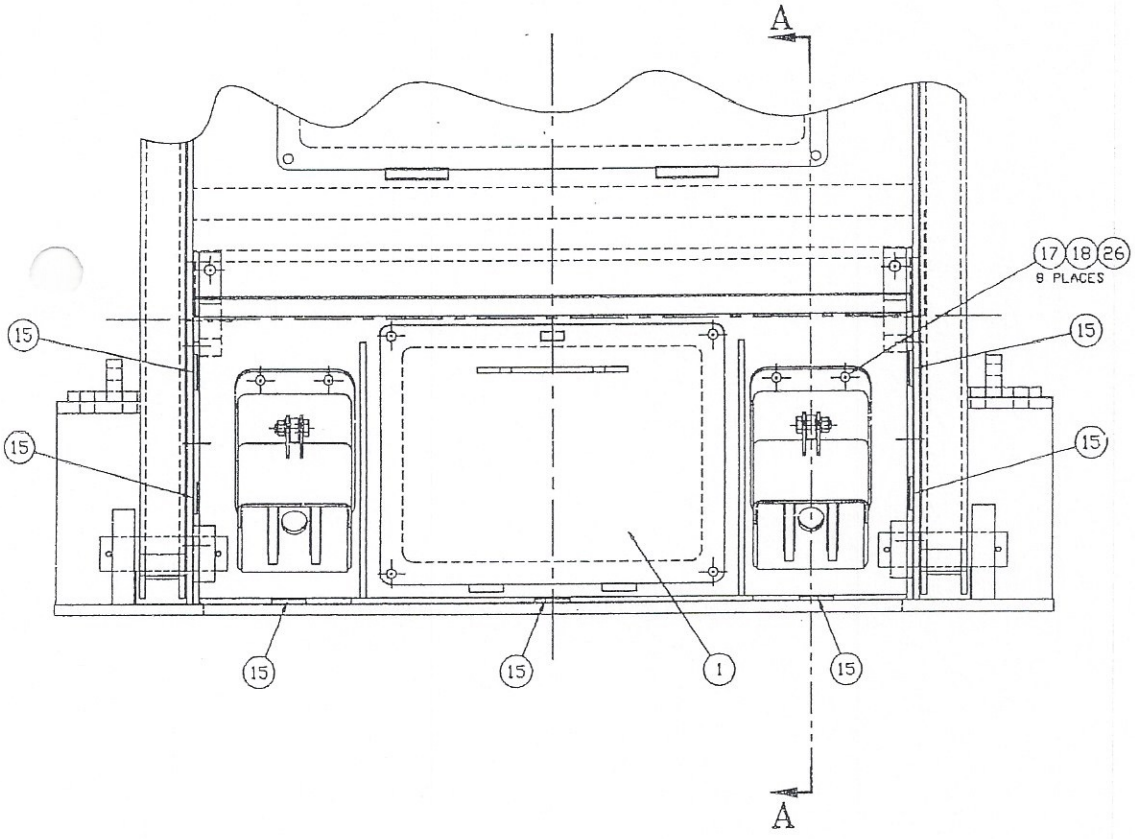
UNIVERSAL ENGINEERING

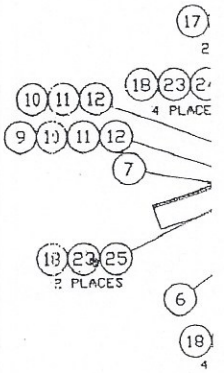
FIRST & SECOND CURTAIN ASSEMBLY NGS 130/150

DATE

DRAWING NUMBER C1245-715

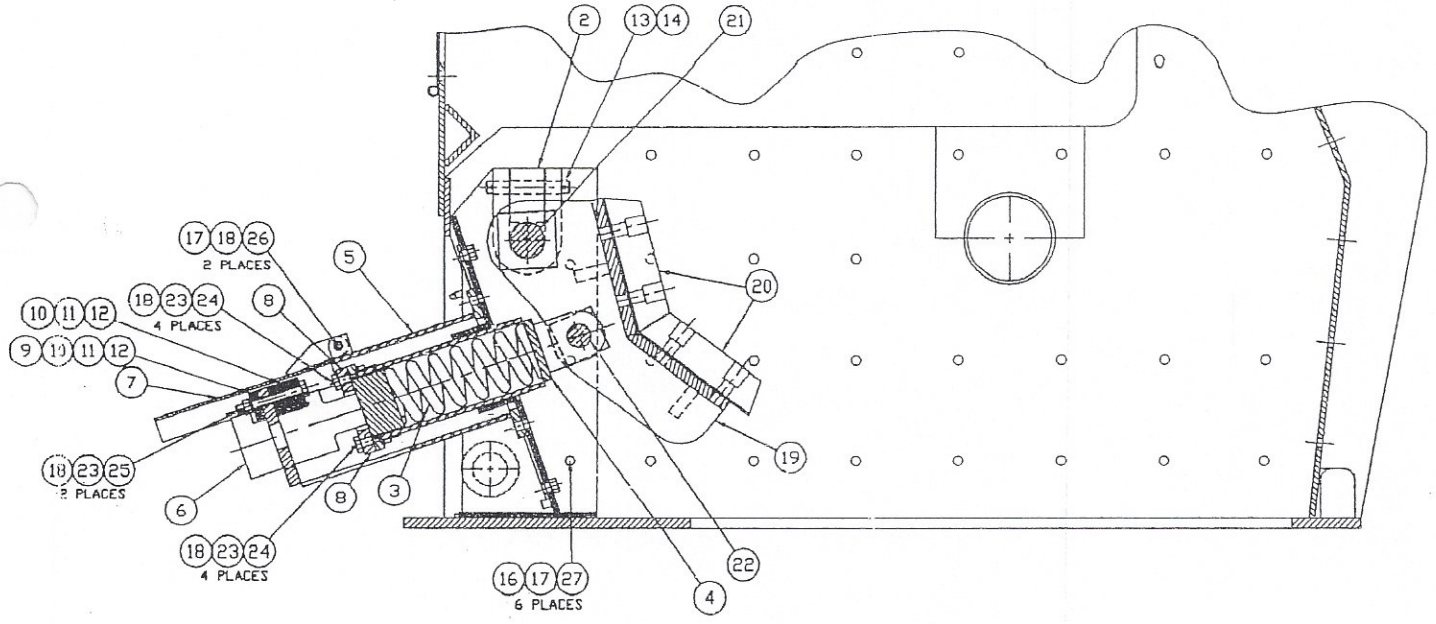
ITEM 20	CI
STANDARD	
ALTERNATE	
ALTERNATE	
ALTERNATE	
ALTERNATE	
ALTERNATE	





ITEM 20	CURTAIN LINER ASSEMBLY	PART NO.	QTY	WT (LBS)
STANDARD	CHROME IRON FULL SIZE	1245-2A	8	142
ALTERNATE	MANGANESE STEEL FULL SIZE	1245-2B	8	142
ALTERNATE	CHROME STEEL FULL SIZE	1245-2C	8	142
ALTERNATE	CHROME IRON HALF SIZE	1245-773A	16	67
ALTERNATE	MANGANESE STEEL HALF SIZE	1245-773B	16	67
ALTERNATE	CHROME STEEL HALF SIZE	1245-773C	16	67

THIRD CURTAIN ASSMEBLY NGS 130/150 WT= 2980#			B/M NO. 1245-717A
ITEM NO.	QTY	PART NO.	DESCRIPTION
1	1	1245-730A	THIRD CURTAIN HOUSING WELDMENT NGS 130/150
2	2	1245-G730	RETAINING BLOCK
3	2	1245-A731	SPRING
4	2	1245-732A	THIRD CURTAIN SPRING CARTRIDGE
5	2	1245-732B	THIRD CURTAIN HANGER HOUSING
6	2	1245-732C	THIRD CURTAIN ROD
7	2	1245-732D	THIRD CURTAIN HANGER COVER
8	4	1245-J732	RETAINING PLATE
9	6	1245-K732	WEAR SHIM
10	8	1245-L732	ADJUSTING SHIM
11	6	1245-M732	ADJUSTING SHIM
12	4	1245-N732	ADJUSTING SHIM
13	2	1245-E727	PIN
14	4	9-BN75	COTTER PIN
15	7	1245-A717	STOP BLOCK
16	8	9-J37	HHCS
17	16	9-H4	NUT
18	20	9-C70	WASHER
19	1	1245-716A	3RD CURTAIN WELDMENT NGS 130/150
20	8	1245-2A	CURTAIN LINER ASSEMBLY (CHROME IRON)
21	1	1245-W709	THIRD CURTAIN PIN
22	2	1245-74C	ø2" PIN ASSEMBLY WITH DRIVE PIN
23	10	49NE-120	ESNA NUT
24	8	9-T307	HHCS
25	2	9-Z37	HHCS
26	10	9-L37	HHCS
27	6	9-J71	LOCKWASHER



SECTION A -- A

REF DWG NO. 1245-737

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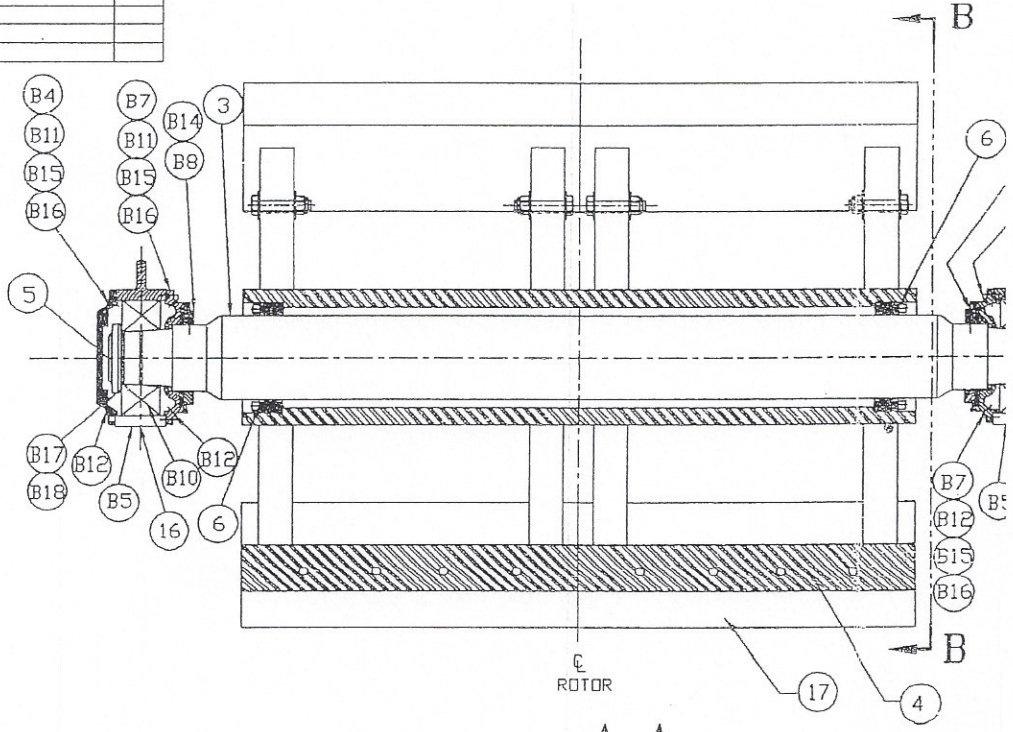
PHONE: 1-800-366-2051

THIRD CURTAIN ASSEMBLY
NGS 130/150

DATE | DRAWING NUMBER C1245-717 (4)

ROTOR ASSEMBLY 130/150 TOP LOAD RH DRIVE = 1245-707A LH DRIVE = 1245-707B				B/M NO. SEE BELOW	
ITEM NO.	QTY	QTY	PART NO.	DESCRIPTION	WT (LBS)
1		X	1245-707A	RIGHT HAND DRIVE ROTOR ASSEMBLY 130/150 TOP LOAD	
2			1245-707B	LEFT HAND DRIVE ROTOR ASSEMBLY 130/150 TOP LOAD	
3	1	1	1245-C506	ROTOR SHAFT	
4	1	1	1245-708A	130/150 ROTOR TOP LOAD (ALT 1245-651A)	
5	2	2	1126-D121	PIPE PLUG	
6	2	2	1261-A2	B-LOC KEYLESS SHAFT/HUB CONNECTOR (METRIC SERIES B400, SIZE 198 x 250 (SHOP TO USE PILOT BUSHING KIT 61920 @ ASSY)	
7	4	4	1245-AJ5	BEARING STOP BLOCK FLT	
8	1	1	742-MM6	DRIVE KEY	
9	8	8	9-AB41	HHCS	
10	8	8	9-G70	FLAT WASHER	
11	16	16	9-M4	HEX NUT	
12	8	8	1245-418B	FACE PLATE ASSEMBLY	
13	1	1	1245-371BB	FIXED BEARING ASSEMBLY - SHAFT END	
14					
15					
16	1	1	1245-371CS	FLOAT BEARING ASSEMBLY - STUB SHAFT END	
				BEARING GROUP COMPONENTS	
B1				QTY 1 - 6-A32 OUTER FLINGER	
B2				QTY 1 - 16667-LA BEARING SEAL	
B3				QTY 1 - 6-A31 OUTER COVER	
B4				QTY 1 - 6-A90 OUTER COVER	
B5				QTY 2 - 6-A30 BEARING HOUSING	
B6					
B7				QTY 2 - 13-A403 INNER COVER	
B8				QTY 2 - 13-B406 INNER FLINGER	
B9				QTY 2 - SR-0-24 STABILIZING RING	
B10				QTY 2 - 1251-21 SPHERICAL BEARING	
B11				QTY 4 - 13-A738 GREASE FITTING	
B12				QTY 4 - 1126-B119 PIPE PLUG	
B13				QTY 2 - 9-AJ298 SET SCREW DOG POINT	
B14				QTY 4 - 9-BH298 SET SCREW DOG POINT	
B15				QTY 32 - 9-FF32 CAPSCREW	
B16				QTY 32 - 9-C71 LOCK WASHER	
B17				QTY 2 - AN24 SHAFT LOCKNUT	
B18				QTY 2 - W24 SHAFT LOCKWASHER	
17			SEE TABLE	HAMMER	
18	A/R	A/R	1245-C632	SHIM	
19	A/R	A/R	1245-D632	SHIM	
20			SEE TABLE	HAMMER RETAINER ASSEMBLY	

HAMMER RETAINER ASSEMBLY STANDARD = 1245-632E HEAVY = 1245-632D					B/M NO. SEE TABLE
ITEM NO.	E QTY	D QTY	PART NO.	DESCRIPTION	WT (LBS)
31		X	1245-632D	HEAVY HAMMER RETAINER ASSEMBLY	
32	X		1245-632E	STANDARD HAMMER RETAINER ASSEMBLY	
33		1	1245-C633	HAMMER RETAINER (HEAVY)	
34	1	1	9-V39	HHCS	
35	1	1	49NE-168	ELASTIC STOP NUT	
36	2	2	9-K7	WASHER	
37	0.5	0.5	1245-A369	HAMMER LOCK	
38	1	1	1245-B632	HRS	
39	1		1245-D633	HAMMER RETAINER (STANDARD)	

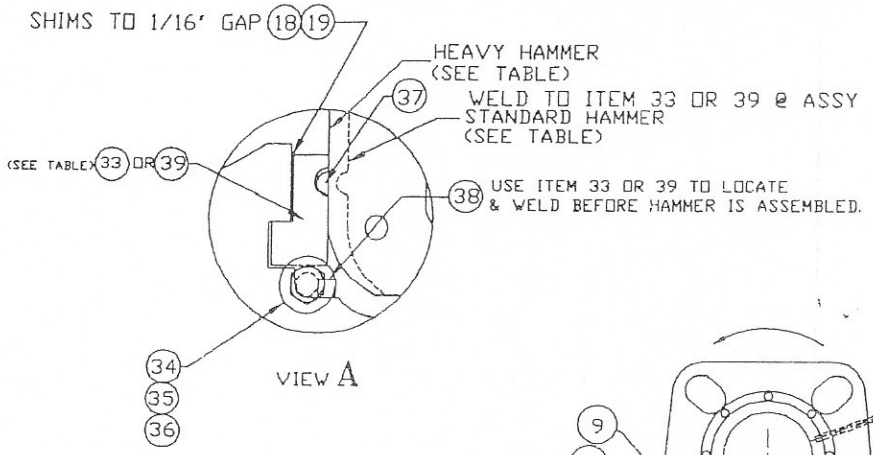


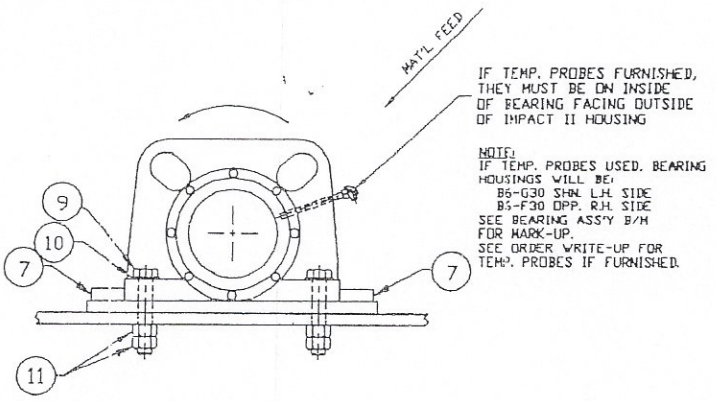
SECTION A–A
(LEFT HAND DRIVE SHOWN)

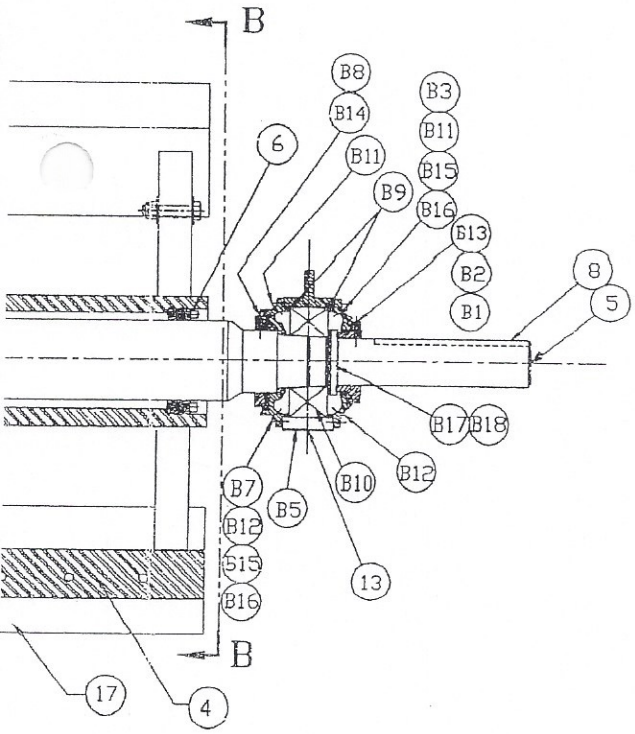
ROTOR ASSY LESS HAMMERS & RETAINER ASSY	DRIVE SIDE	SHAFT SIDE BEARING	STUB SHAFT SIDE BEARING
(1) 1245-707A	RH DRIVE	1245-371BB FIXED	1245-371CS FLOAT
(2) 1245-707B	LH DRIVE	1245-371BB FIXED	1245-371CS FLOAT

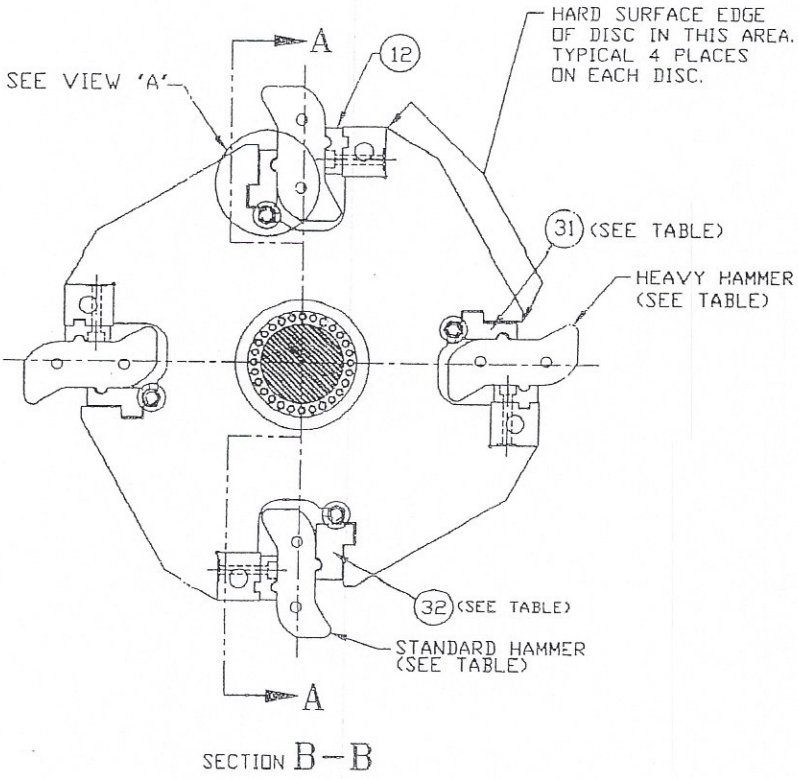
HAMMER PROFILE	HAMMER B/M 8 HAMMERS 16 RETAINERS	HAMM (ITEM
STANDARD	1245-632F	1245-B
	1245-632G	1245-B
	1245-632H	1245-M
HEAVY	1245-632J	1245-C
	1245-632K	1245-C
	1245-632L	1245-M

B/M NO. SEE TABLE	WT (LBS)









SECTION B–B

HAMMER B/M 8 HAMMERS 16 RETAINERS	HAMMER (ITEM 17)	MATERIAL	HAMMER RETAINER ASSEMBLY (ITEM 20)
1245-632F	1245-B352	IRON	1245-632E
1245-632G	1245-BB352	13%CS	
1245-632H	1245-MB352	MANG.	
1245-632J	1245-C352	IRON	1245-632D
1245-632K	1245-CB352	13%CS	
1245-632L	1245-MC352	MANG.	

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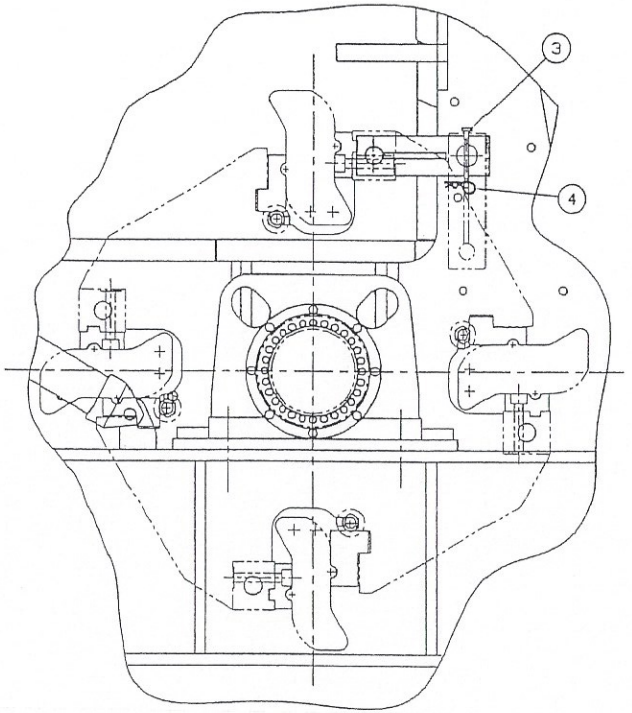
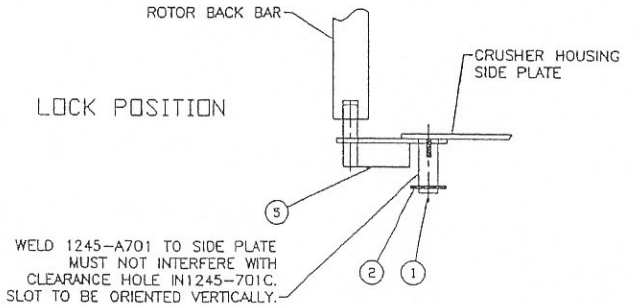
ROTOR ASSEMBLY FOR 130/150 TOP LOAD

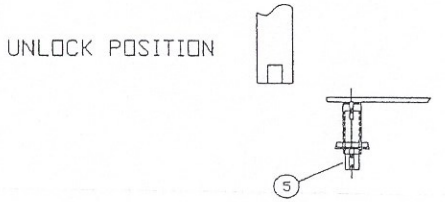
DATE

DRAWING NUMBER: C1245-707 (8)

NGS 130 ROTOR LOCK ASSEMBLY WT = 17#				B/M NO. 1245-701A
ITEM NO.	QTY	PART NO.	DESCRIPTION	
1	1	1245-A701	HRS	
2	1	9-L70	WASHER	
3	1	1245-701D	WEDGE	
4	1	9-R279	HAIRPIN	
5	1	1245-701C	ROTOR LOCK WELDMENT	







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UNIVERSAL ENGINEERING

130 & 150 ROTOR LOCK ASSEMBLY AND DETAILS

DATE 1-16-2003 | DRAWING NUMBER C1245-701 (3)