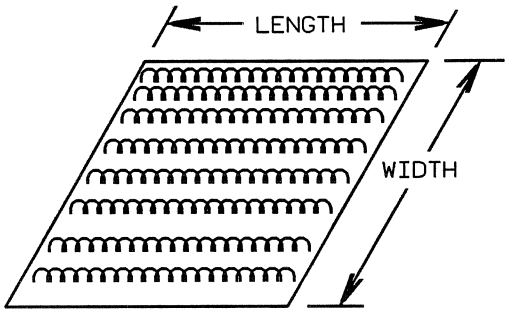
DRAWN	BAM	TITLE TAPE FASTENER, FLEXIBLE	ITEM NUMBER 23-11647
APPRV	BAM		
DATE	02/22/84	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1

SCOPE: THIS SPECIFICATION IDENTIFIES FLEXIBLE FASTENER TAPE CONSISTING OF TWO MATING STRIPS, ONE OF WHICH IS COVERED WITH TINY, STIFF HOOKS, AND THE OTHER WITH PLIABLE LOOPS.

APPLICATION: DURABLE FASTENING OF RIGID OR SEMI-RIGID MATERIALS, WHERE SIMPLE ATTACHMENT AND A HIGH STRENGTH/HIGH TEMPERATURE ADHESIVE IS REQUIRED.

SKETCH:



SPECIFICATION NUMBERS:

FASTENER SURFACE FINISH	PRESSURE SENSITIVE ADHESIVE BACKING	MANUFACTURER'S IDENTIFICATION			FREIGHTLINER PART NUMBER
		MMM			
LOOPS	YES	SJ-3571			23-11647-000
HOOKS	YES	SJ-3572			-001

ENGINEERING NOTES:

1. MATERIAL: NYLON
2. COLOR: BLACK
3. STRIP WIDTH: 1.000±.062INCHES.
4. STRIP LENGTH: 1.000±.062INCHES.
5. THIS MATERIAL MUST PASS FEDERAL MOTOR VEHICLE SAFETY STANDARD, 302, FLAMMABILITY OF INTERIOR MATERIALS.

CHG	JOB/RLSE NO	DATE	BY	REVISION
A	PA2042-37	07/09/93	ERK	REDRAWN

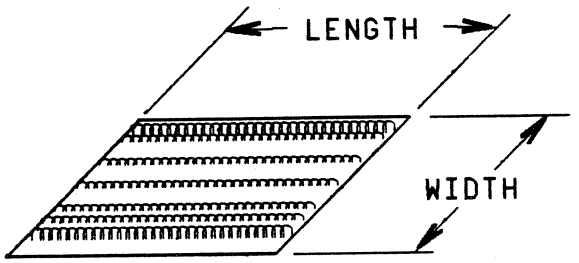
ORIGINAL JOB NO.	TITLE	PART NO.
M0261	TAPE, FASTENER, FLEXIBLE	23-11647
LAST CHG LTR		SHEET 1 OF 1

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR

SCOPE: THIS SPECIFICATION IDENTIFIES FLEXIBLE FASTENER TAPE CONSISTING OF TWO MATING STRIPS, ONE OF WHICH IS COVERED WITH TINY, STIFF HOOKS AND THE OTHER WITH PLIABLE LOOPS.

APPLICATION: DURABLE FASTENING OF RIGID OR SEMI-RIGID MATERIALS, WHERE SIMPLE ATTACHMENT AND A HIGH STRENGTH/HIGH TEMP ADHESIVE IS REQUIRED.

SKETCH



SPECIFICATION NUMBERS

FASTENER SURFACE FINISH	PRESSURE SENSITIVE ADHESIVE BACKING	MANUFACTURE'S IDENTIFICATION		FREIGHTLINER SPECIFICATION NUMBER
		MMM		
LOOPS	YES	SJ-3571		-000
HOOKS	YES	SJ-3572		-001

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR

ENGINEERING NOTES

(1) MATERIAL: NYLON.

2. COLOR: BLACK.
3. STRIP WIDTH: 1.000 ± .062 INCHES.
4. STRIP LENGTH: 1.000 ± .062 INCHES.
5. THIS MATERIAL MUST PASS FEDERAL MOTOR VEHICLE SAFETY STANDARD, NUMBER 302, FLAMMABILITY OF INTERIOR MATERIALS.

COMPILED	BAM	DATE DRAWN	CADAM ORIGINAL	MATERIAL	UOM	MASTER NUMBER	
APPROVED		02-22-84		(1)	FT	00001	000D1

PORTLAND FREIGHTLINER CORPORATION M/F OREGON 97208

EAC-826

PRINT ISSUED	TITLE	PART NO.
	CATCH, MAGNETIC	23-10260
LAST CHG. LTR.		SHEET 1 OF 1

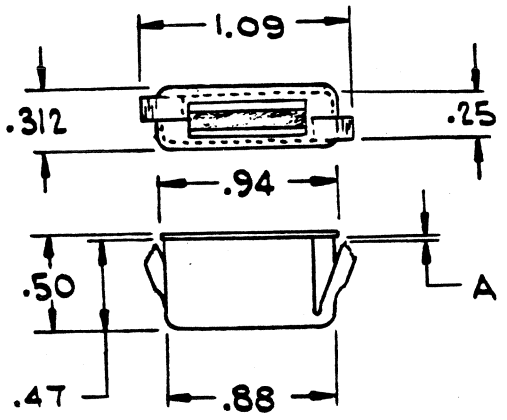
WAS

CHG	BY	DATE

WAS J#A0560

CHG	BY	DATE
—		

SKETCH



PART NUMBERS

MOUNTING SLOT	FRAME THICKNESS	A	MANUFACTURERS NUMBER		FREIGHTLINER PART NUMBER
			SCF		
7/8 x ½	.080-.140	.095	02-10-302-10		23-10260-000

ENGINEERING NOTES

(1.) Material: Black polypropylene housing; two steel pole pieces, cadmium plated and a barium ferrite permanent magnet.

COMPILED	HJR	DATE DRAWN		MATERIAL	NEXT ASSY. NO.
APPROVED	[illegible]	12-12-73		(1)	

Portland FREIGHTLINER CORPORATION Oregon 97208

GENERAL USE PART

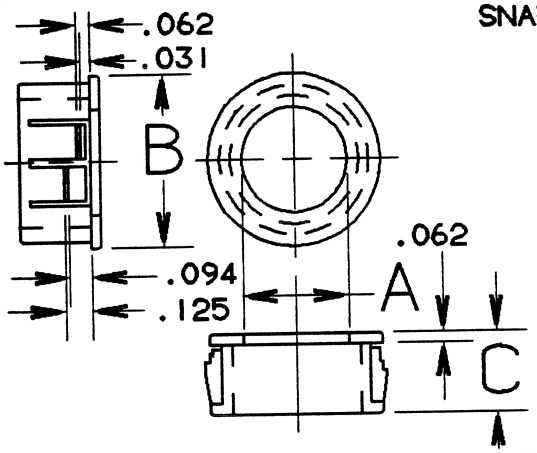
ORIGINAL JOB NO.	TITLE	PART NO.
7359D	BUSHING SNAP	23-10358
LAST CHG LTR: B	SNAP, SHORTY, OPEN/CLOSED, UNIVERSAL	SHEET 1 OF 4

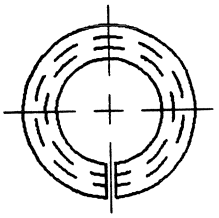
23-10358

CHANGE INFORMATION	DATE	BY	JOB NO.

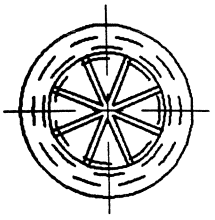
CHANGE INFORMATION	DATE	BY	JOB NO.
REVISED AND REDRAWN	06-23-86	RDS	7359D

SNAP BUSHINGS





OPEN/CLOSED
SEE PAGE 3



UNIVERSAL
SEE PAGE 4

CHASSIS DIM		PART DIM'S			COLOR	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
MAX THK	HOLE DIA	"A" ID	"B" OD	"C" HT		HEY		
.062	.250	.125	.312	.312	BLACK	2000		23-10358-000
					WHITE	2001		-001
	.312	.188	.375		BLACK	2010		-010
					WHITE	2011		-011
					BRASS	2012		-012
.125	.375	.188	.469		BLACK	2020		-020
					WHITE	2021		-021
		.250			BLACK	2030		-030
					WHITE	2031		-031
					BRASS	2033		-033
.171		.281			BLACK	2017		-017
					WHITE	2018		-018
.125	.437	.250	.531	.406	BLACK	2038		-038
					WHITE	2039		-039
					BRASS	2041		-041
		.312			BLACK	2043		-043
					WHITE	2044		-044
		.243			BLACK	2042		-042
					WHITE	2037		-037
	.500	.250	.578		BLACK	2058		-058
					WHITE	2059		-059
		.312			BLACK	2049		-049
					WHITE	2050		-050
		.375			BLACK	2053		-053
					WHITE	2054		-054
	.562	.312	.656		BLACK	2060		-060
					WHITE	2061		-061
		.375			BLACK	2063		-063
					WHITE	2064		-064
		.438			BLACK	2066		-066
					WHITE	2067		-067
	.625	.250	.719		BLACK	2075		-075
					WHITE	2078		-078
		.438			BLACK	2070		-070
					WHITE	2071		-071
		.500			BLACK	2073		-073
					WHITE	2074		-074

COMPILED	RDS	DATE DRAWN	CADAM ORIGINAL	MATERIAL	MASTER NUMBER	
APPROVED	EAM	06-23-86		NYLON	03140	000D1

23-10358

ORIGINAL JOB NO.	TITLE	PART NO.
7359D	BUSHING SNAP	23-10358
LAST CHG LTR: B	SNAP, SHORTY, OPEN/CLOSED, UNIVERSAL	SHEET 2 OF 4

SNAP BUSHINGS CONTINUED

CHASSIS DIM		PART DIM'S			COLOR	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
MAX THK	HOLE DIA	"A" ID	"B" OD	"C" HT		HEY		
.250	.625	.500	.703	.531	BLACK	2830		23-10358-830
					WHITE	2831		-831
.125	.687		.781	.406	BLACK	2083		-083
					WHITE	2084		-084
		.562			BLACK	2086		-086
					WHITE	2087		-087
	.750	.375	.844		BLACK	2090		-090
					WHITE	2091		-091
		.500			BLACK	2092		-092
					WHITE	2099		-099
		.562			BLACK	2093		-093
					WHITE	2094		-094
		.609			BLACK	2096		-096
					WHITE	2097		-097
.250	.750	.625	.828	.531	BLACK	2840		-840
					WHITE	2841		-841
.125	.812	.562	.891	.406	BLACK	2100		-100
					WHITE	2101		-101
		.625			BLACK	2103		-103
					WHITE	2104		-104
	.875	.375	.953	.453	BLACK	2110		-110
					WHITE	2111		-111
		.438			BLACK	2113		-113
					WHITE	2114		-114
		.500			BLACK	2116		-116
					WHITE	2117		-117
		.562			BLACK	2120		-120
					WHITE	2121		-121
		.625			BLACK	2123		-123
					WHITE	2124		-124
		.688			BLACK	2126		-126
					WHITE	2127		-127
	1.000	.750	1.125		BLACK	2140		-140
					WHITE	2141		-141
	1.093 TO 1.125	.812	1.219		BLACK	2160		-160
					WHITE	2161		-161
		.875			BLACK	2163		-163
					WHITE	2164		-164
		.938			BLACK	2166		-166
					WHITE	2167		-167
	1.187	.938	1.312		BLACK	2182		-182
					WHITE	2183		-183
	1.250	.938	1.359		BLACK	2198		-198
					WHITE	2199		-199
	1.375	1.000	1.469		BLACK	2210		-210
					WHITE	2211		-211
	1.500	1.062	1.609		BLACK	2233		-233
					WHITE	2234		-234
		1.312			BLACK	2240		-240
					WHITE	2241		-241

CHANGE INFORMATION	DATE	BY	JOB NO.
			TR

CHANGE INFORMATION	DATE	BY	JOB NO.
REVISED AND REDRAWN	06-23-86	RDS	7359D

COMPILED	RDS	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	EAM	06-23-86			03140	000D1

ORIGINAL JOB NO.	TITLE	PART NO.
7359D	BUSHING SNAP	23-10358
LAST CHG LTR: B	SNAP, SHORTY, OPEN/CLOSED, UNIVERSAL	SHEET 3 OF 4

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR
REVISED AND REDRAWN	06-23-86	RDS	7359D	B

SNAP BUSHINGS CONTINUED

CHASSIS DIM		PART DIM'S			COLOR	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
MAX THK	HOLE DIA	"A" ID	"B" OD	"C" HIGH		HEY		
.125	1.750	1.375	1.875	.453	BLACK	2300		23-10358-300
					WHITE	2301		-301
	2.000	1.625	2.125		BLACK	2400		-400
					WHITE	2401		-401
.250	2.500	1.969	2.656	.719	BLACK	2420		-420
					WHITE	2421		-421

SHORTY BUSHINGS FOR USE WHEN A MINIMUM OVERALL HEIGHT IS REQUIRED

CHASSIS DIM		PART DIM'S			COLOR	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
MAX THK	HOLE DIA	"A" ID	"B" OD	"C" HIGH		HEY		
.062	.187	.125	.250	.234	BLACK	2800		23-10358-800
					WHITE	2801		-801
	.312	.250	.375		BLACK	2810		-810
					WHITE	2811		-811
	.468	.343	.531	.250	BLACK	2817		-817
					WHITE	2818		-818
	.500	.375	.562		BLACK	2820		-820
					WHITE	2821		-821
	.531	.406	.594		BLACK	2824		-824
					WHITE	2825		-825
	.625	.500	.703		BLACK	2827		-827
					WHITE	2828		-828
	.750	.625	.828		BLACK	2836		-836
					WHITE	2837		-837
	.781	.625	.859		BLACK	2844		-844
					WHITE	2845		-845
	.875	.750	.938		BLACK	2850		-850
					WHITE	2851		-851

OPEN AND CLOSED BUSHINGS FOR SIDE ENTRY OF PREASSEMBLED HARNESSES ETC.

CHASSIS DIM		PART DIM'S			COLOR	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
MAX THK	HOLE DIA	"A" ID	"B" OD	"C" HIGH		HEY		
.125	.375	.266	.422	.406	BLACK	2865		23-10358-865
	.500	.312	.562			2871		-871
	.562	.391	.641			2869		-869
	.625	.453	.688			2872		-872
	.750	.547	.797			2873		-873
	.875	.672	.922			2874		-874
	1.000	.797	1.062			2878		-878

COMPILED	RDS	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	EAM	06-23-86			03140	000D1

ORIGINAL JOB NO.		TITLE	PART NO.
7359D		BUSHING SNAP	23-10358
LAST CHG LTR	B	SNAP, SHORTY, OPEN/CLOSED, UNIVERSAL	SHEET 4 OF 4

UNIVERSAL BUSHINGS TO ABSORB VIBRATION, CUSHION AND INSULATE.

CHASSIS DIM		PART DIM'S			COLOR	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
MAX THK	HOLE DIA	"A" ID	"B" OD	"C" HIGH		HEY		
.125	.625	.719	.437	.406	BLACK	2077		23-10358-077
	.750	.859	.500	.391		2089		-089
	.812	.891				2106		-106
	.875	.937	.562	.453		2119		-119
	1.000	1.062	.750			2137		-137
	1.093	1.156	.813			2157		-157

NOTE:

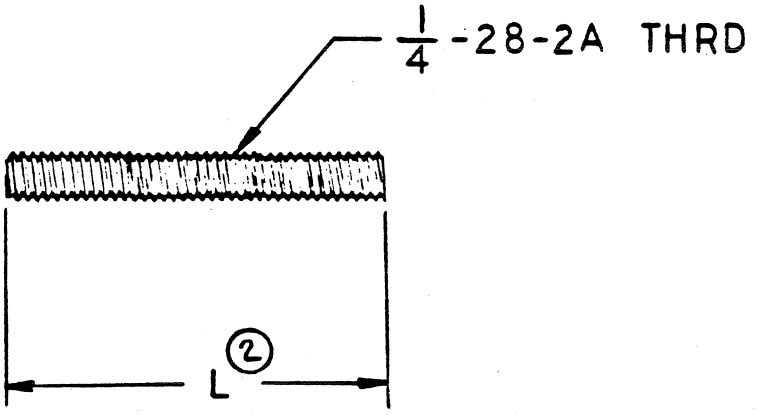
1. ALL HEYCO PART NUMBERS ARE FROM HEYCO CATALOG 185.

COMPILED	RDS	DATE DRAWN	CADAM ORIGINAL		MASTER NUMBER	
APPROVED	EAM	06-23-86			03140	000D1

GENERAL USE PART

PRINT ISSUED	TITLE	PART NO.
	ROD, THREADED	23-10701
LAST CHG. LTR.		SHEET OF

SKETCH



PART NUMBER	FREIGHTLINER PART NUMBER
	23-10701-L(2)

WAS

CHG	BY	DATE

WAS J#A0565

CHG	BY	DATE
—		

(2.) Dash number equals length "L" in inches.
Example: 23-10701-275 is 2.75 inches long.

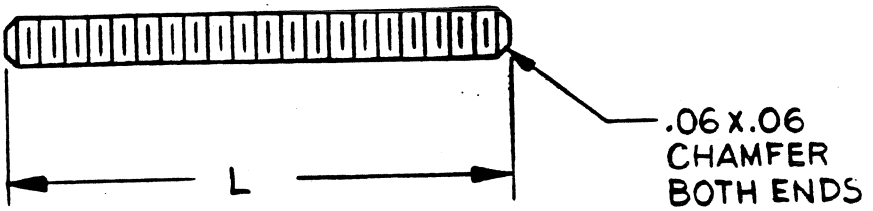
MATERIAL:
(1.) Steel, SAE B1112-1113 orSAE 1010-1020

COMPILED	D. LeL.	DATE DRAWN		MATERIAL	NEXT ASSY. NO.
APPROVED	[illegible]	1-24-74		(1)	

Portland FREIGHTLINER CORPORATION Oregon 97208

ORIGINAL JOB NO.	TITLE	PART NO.
C1369	ROD, THREADED 5/8-11 UNC	23-11186
LAST CHG LTR		SHEET 1 OF 1

SKETCH



PART NUMBER

	FREIGHTLINER PART NUMBER (-2)
	23-11186-L

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR

(-2)

DASH NUMBER: First two digits = number of whole inches; last digit, number of eighths of an inch. Example 23-11186 -027 is 2-7/8 inches long.

MATERIAL: 1. Steel, SAE B1112-1113 or SAE 1010-1020.

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR

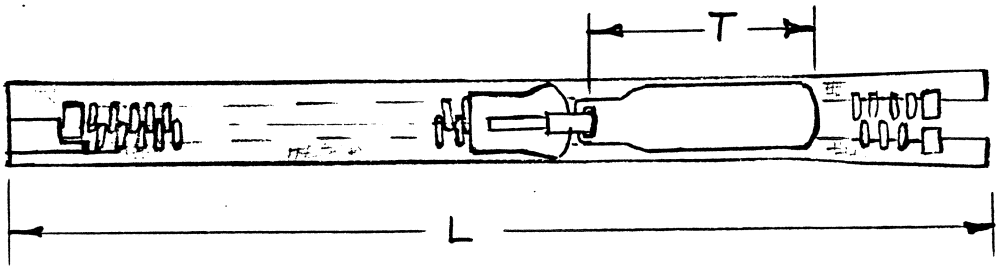
COMPILED	BLAKEWOOD	DATE DRAWN			
APPROVED	Qet	1/8/79			

A23-9929

General Use Part

PRINT ISSUED	TITLE	PART NO.
	ZIPPER ASSEMBLY, #6, BRASS	A23-9929
LAST CHG. LTR. A		SHEET 1 OF 1

SKETCH



PART NUMBERS

NOM. SIZE	TYPE	T TAB LENGTH	L ZIPPER LENGTH	MATERIAL (1)	MANUFACTURER'S NUMBER CCS	FREIGHTLINER PART NUMBER *
#6	Double Pull	1.50	29.50	Brass	**	A23-9929-295

* Dash number expresses length in tenths of an inch, thus: A23-9929-295 calls out a zipper assembly 29-1/2 inches long.

**Order by description, including length.

ENGINEERING NOTES

(1) Material: (See Table)

CHG	BY	DATE	WAS
CHG	BY	DATE	WAS
-	-	-	Job No. 84110
A	HJR	5-21-73	23-9929; add * and **
			Notes; J #A0429

A
A

COMPILED	HJR	DATE DRAWN		MATERIAL	
APPROVED	Rollins	12-30-71		(1)	

ns

Portland FREIGHTLINER CORPORATION Oregon 97208

General Use Part

PRINT ISSUED	TITLE	PART NO.
	ZIPPER ASSEMBLY, #8, BRASS	A23-10200
LAST CHG LTR		SHEET 1 OF 1

WAS

CHG	BY	DATE

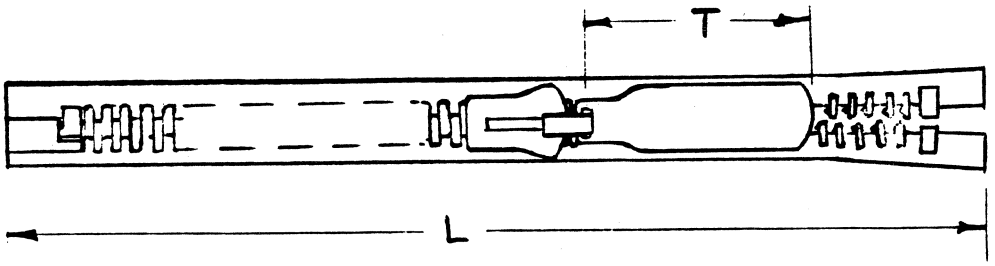
WAS

CHG	BY	DATE
—	—	—

J # A0429

ns

SKETCH



PART NUMBERS

NOM. SIZE	TYPE	T TAB LENGTH		MANUFACTURER'S NUMBER CCS		FREIGHTLINER PART NUMBER*
#8	Double Pull	1.50		**		A23-10200-L

* Complete number by adding three-digit dash number expressing length in 1/10's of an inch, thus: A23-10200-285 calls out a zipper 28-1/2" long.

**Order by description, including length.

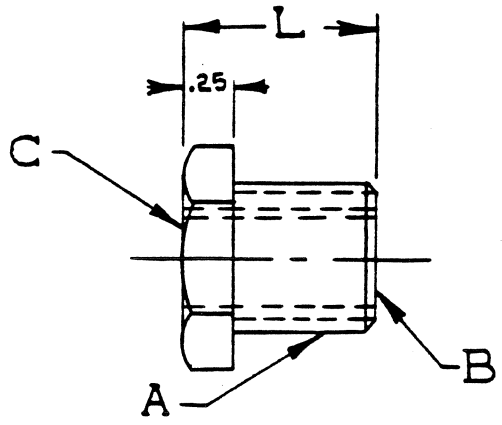
ENGINEERING NOTES

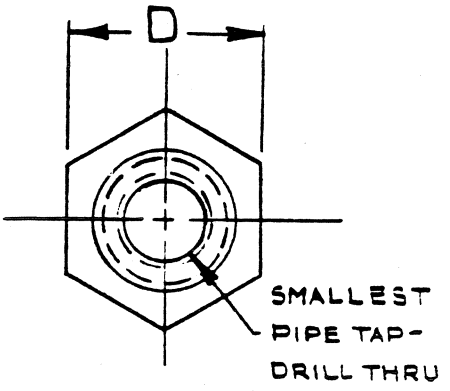
(1) Material: Per Mfr. Spec, Brass hooks on nylon cloth tapes.

COMPILED	HJR	DATE DRAWN		MATERIAL	
APPROVED	Rollins	6-21-73		(1)	

Portland FREIGHTLINER CORPORATION Oregon 97208

ORIGINAL JOB NO.	TITLE	PART NO.
	ANCHOR COUPLING BODY	23-9146
LAST CHG LTR C		SHEET 1 OF 1





FREIGHTLINER PART NUMBER	A STRAIGHT THREADS (NF)	B & C PIPE THREADS (NPT)	D HEX (.IN)	L (.IN)	MAT'L 1	VENDOR PART NUMBERS PH
23-09146-000	3/4 - 16	1/4	1.00	0.93-1.00	1	2515 - 00155
23-09146-001	3/4 - 16	1/4	1.00	1.50	1	2515 - 00152
23-09146-002	5/8 - 18	1/8	.88	1.50	1	2515 - 00151
23-09146-003	1 - 14	3/8	1.125 - 1.250	1.31-1.38	1	2515 - 00153

1. Material - CA360 Brass Hex Stock

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
C	2938D	FHF	10-1-85	Redrawn, from B-W steel to PH brass

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

COMPILED	FHF	DATE DRAWN	U.O.M.		MASTER NUMBER
APPROVED	WATKINS	10-01-85	EA		05030 000D1

General Use Part

PRINT ISSUED	TITLE	PART NO.
	COLLAR, LOCK-SEAL ROLLED NYLON	23-10596
LAST CHG LTR: -		SHEET 1 OF 1

JOB NO.	WAS	DATE	BY	CHG

JOB NO.	WAS	DATE	BY	CHG
E0061	-------	----	---	--

SKETCH



PART NUMBERS

SCREW SIZE	MANUFACTURER'S NUMBER NYT	FREIGHTLINER PART NUMBER
2	2W	23-10596-002
4	4W	23-10596-004
6	6W	23-10596-006
8	8W	23-10596-008
10	10W	23-10596-010
12	12W	23-10596-012
1/4	25W	23-10596-025
5/16	31W	23-10596-031
3/8	38W	23-10596-038

ENGINEERING NOTES

(1) MATERIAL: Natural Nylon per MIL P-17091-B and M-20693-A.
2. FINISH: Plain, Rolled

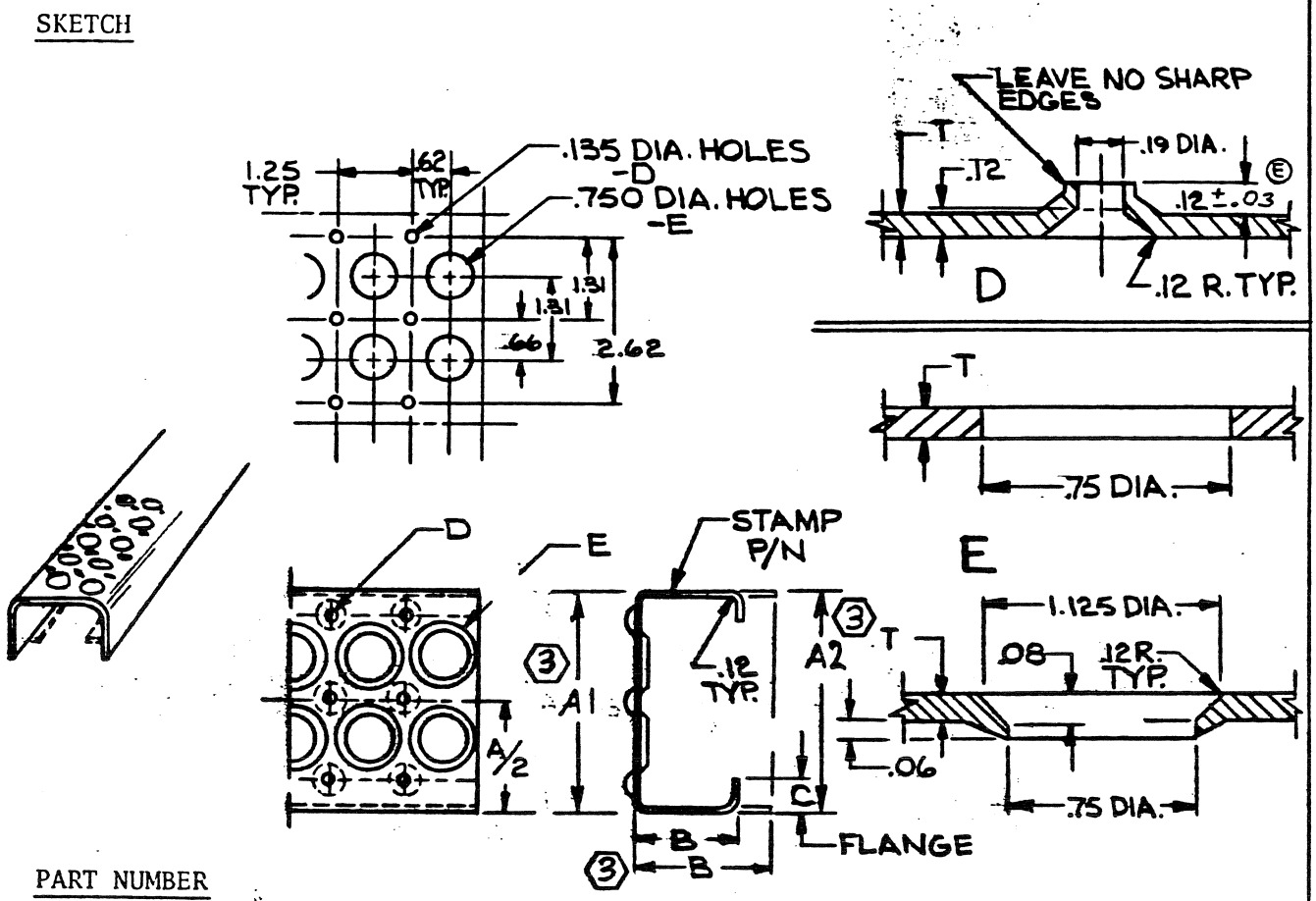
		DATE DRAWN		MATERIAL	
COMPILED	HJR	4-20-76		(1)	
APPROVED	CRS				

Portland FREIGHTLINER CORPORATION Oregon 97208

M/F

ORIGINAL JOB NO.	TITLE	PART NO.
B0494	CHANNEL, ANTI-SKID	23-11024
LAST CHG LTR K		SHEET 1 OF 1

SKETCH



PART NUMBER

CHANNEL TYPE	MAT'L (1)	T (REF)	A1 (3)	A2 (3)	B (3)	C (3)	FINISH	PUNCH	EMBOSS	FREIGHTLINER PART NUMBER *
	23-11025-L	.080	3.62 +.06 -.00	3.62 +.09 -.03	2.25 ± .06	-	P	D&E	D ONLY	23-11024-L
	48-129-023						N			23-11025-L
	23-11027-L	.080	3.62 +.10 -.00	3.62 +.19 -.03	1.75 ± .06	0.69 ± .06	P	D&F	D&E	23-11026-L
	48-129-023						N			23-11027-L

(G) (F)

ENGINEERING NOTES

1. Material: Aluminum (See Table).
2. Finish: P = Chemical polish and anodize per 49-00009-004, N = Natural.
3. Dimensions apply at ends or points of tangency as applicable.

* Complete part number by adding 3-digit dash number expressing length L. The first 2 digits equal inches and the last equals eighths of an inch. 23-11026 and 23-11027 are produced in 10" lengths. If length is not an increment of ten the next longer increment of ten is called out for material. Example: 23-11026-252 uses 23-11026-300 (30") for material.

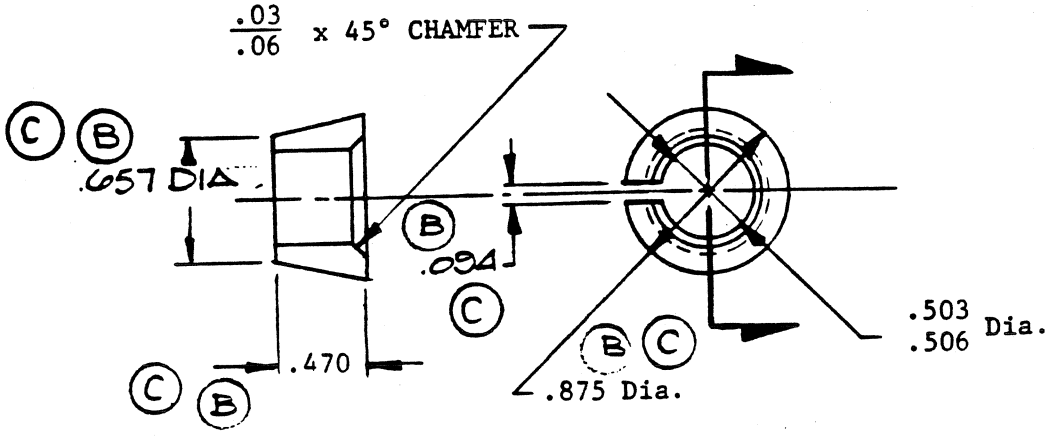
COMPILED	TD	DATE DRAWN			UNIT OF MEASURE
APPROVED	RG	5-1-79		03310/000D1	FT.

JTR	JOB NO.	BY	DATE	CHANGE INFORMATION
J	1333E	KAM	2/24/87	Revised Note 3
K	P*A07845	ANF	11/18/88	Dwg No was 23-11024/23-11027

JTR	JOB NO.	BY	DATE	CHANGE INFORMATION
G1	7269D	DWP	11/3/86	ADDED NOTE 3, A1 & A2
G2	7269D	DWP	11/3/86	DIMS. REVISED DIMS.
G3	7269D	DWP	11/3/86	B & C, ±.03 TO ±.06
H	1333E	DWP	1/26/87	+.01/-.00 to +.10/-.00

C D E F G J

ORIGINAL JOB NO.	TITLE	PART NO.
B0630	TAPERED DOWEL	23-11032
LAST CHG LTR C		SHEET 1 OF 1



		MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBER
		ROK	HUR	
1/2 I.D.		1246B28	28	23-11032-000

COMPILED	BEL	DATE DRAWN	MATERIAL
APPROVED		4-18-77	COLD DRAWN STEEL AISI 12L14 - MUST CONFORM TO ASTM A108

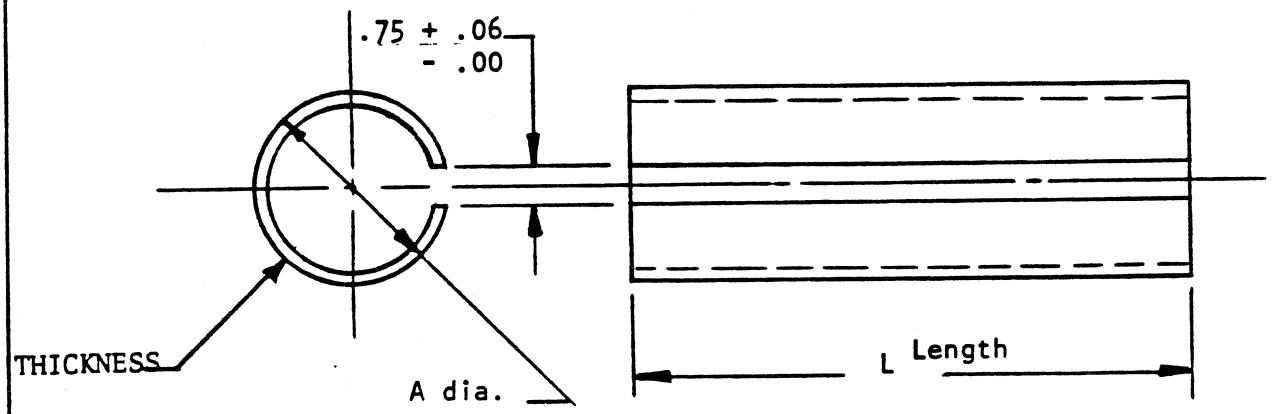
LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
A	97059	ME	5/28/80	Was Cold Drawn Steel
B	0136A	MS	5/5/81	ADDED TOLERANCES
C	0136A	SW	5/26/81	REMOVED TOLERANCES

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

M/F

A C

ORIGINAL JOB NO.	TITLE	PART NO.
B0874	TUBE DEADENER DRIVELINE	23-11051
LAST CHG LTR A		SHEET 1 OF 1



A dia.	THICKNESS	L Length	MANUFACTURER PART NO. SP		FREIGHTLINER PART NUMBER
3.88 +.060 −.000	.16 MIN .22 MAX	6.00±12	231094 (2)		23-11051-000
3.88 +.060 −.000	.16 MIN .22 MAX	12.00±12	231094		23-11051-001
4.38 +.060 −.000	.16 MIN .22 MAX	6.00±12	231095 (2)		23-11051-002
4.38 +.060 −.000	.16 MIN .22 MAX	12.00±12	231095		23-11051-003

(1) Material: Jute stock solid fiber coreboard/chipboard 80 lbs./1000 sq. ft. covered on outside with 35# to 42# kraft paper.

(2) -0 & -2 are made by cutting vendor's part into 2 equal lengths.

CHANGE INFORMATION	LTR	JOB NO.	BY	DATE
Added tol & chg. mtl. (1)	A	70581	SK	2-20-78

COMPILED	BL	DATE DRAWN		MATERIAL	
APPROVED		9/10/77		(1)	

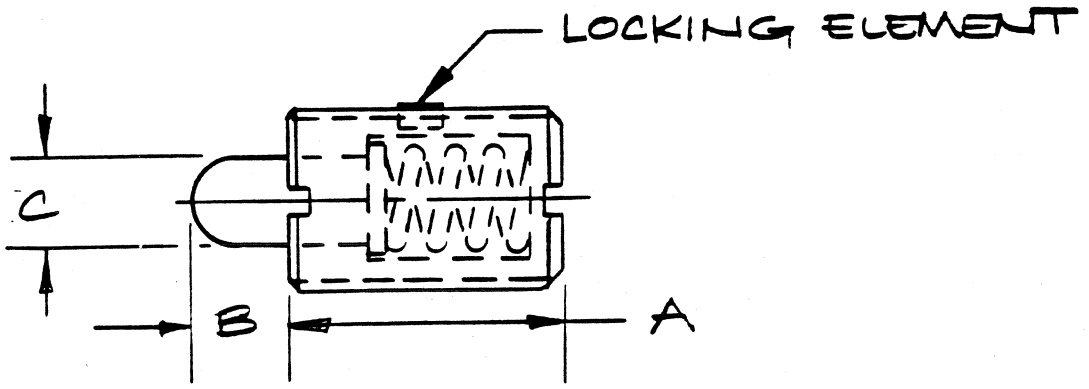
FREIGHTLINER CORPORATION Oregon 97208

M/F A

ORIGINAL JOB NO.	TITLE	PART NO.
C1500D	PLUNGER, SPRING	23-11201
LAST CHG LTR		SHEET 1 OF 1

SCOPE THIS SPECIFICATION IDENTIFIES A SPRING LOADED DETENT PLUNGER

SKETCH



SPECIFICATION NUMBERS

THREAD SIZE	A	B	C	TIP MATL (1)	MANUFACTURER'S NUMBER		FREIGHTLINER SPECIFIC. NUMBER
					JGI		
¼-20	.62	.16	.119	D	30304		23-11201-001
¼-20	.62	.16	.119	S	26704		23-11201-002

(1) TIP MATERIAL - TOOL STEEL - S
DELRIN - D

COMPILED	PWS	DATE DRAWN			
APPROVED		3/6/79			

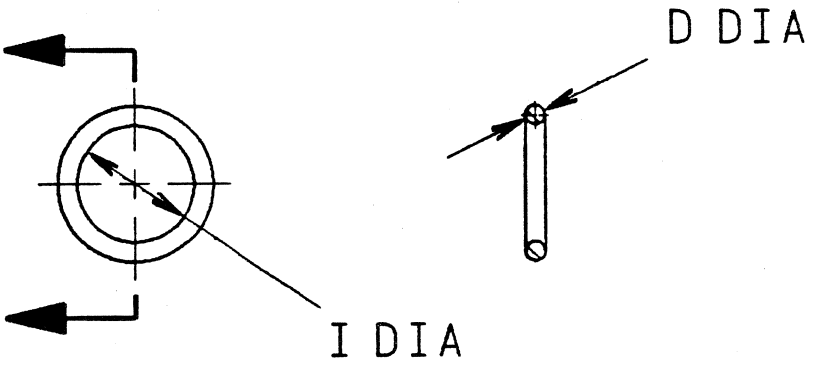
CHANGE INFORMATION | DATE | BY | JOB NO.

CHANGE INFORMATION | DATE | BY | JOB NO.

ORIGINAL JOB NO.	TITLE	PART NO.
1651C	SEAL - 'O' RING, NEOPRENE	23-11646
LAST CHG LTR		SHEET 1 OF 1

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR

SKETCH:



PART NUMBERS:

I DIA	D DIA	VENDOR PART NUMBER	FREIGHTLINER PART NO
.612	.103	(PAR)2-114-C944-70 (2)	23-11646-000
1.299	.103	(PAR)2-125-C944-70 (3)	23-11646-001

CHANGE INFORMATION	DATE	BY	JOB NO.	LTR

(1) MATERIAL: NEOPRENE, 70 DUROMETER. SAE J200-5BC, 715,A14,B14,E14,E34.

(2) ALTERNATE PART NUMBER: (PAR) 2-114-C873-70.

(3) ALTERNATE PART NUMBER: (PAR) 2-125-C873-70.

M/F

COMPILED	BT	DATE DRAWN	CADAM ORIGINAL	MATERIAL	MASTER NUMBER	
APPROVED	LAD	02-03-84		(1)	04190	00001

General Use Part

PRINT ISSUED	TITLE	PART NO.
1/29/71	GASKET, COPPER FLARE	23-9341
LAST CHG LTR: A		SHEET OF

SKETCH



PART NUMBERS

NOMINAL TUBE SIZE	A	MANUFACTURER'S NUMBER					FREIGHTLINER PART NUMBER
		PH	IB				
3/16	.31	2GF-3	625F-3/16				23-9341-001
1/4	.36	2GF-4	625F-1/4				-002
5/16	.42	2GF-5	625F-5/16				-003
3/8	.55	2GF-6	625F-3/8				-004
1/2	.66	2GF-8	625F-1/2				-005
5/8	.77	2GF-10	625F-5/8				-006
3/4	.96	2GF-12	625F-3/4				-007

ENGINEERING NOTES

(1) Material: Brass

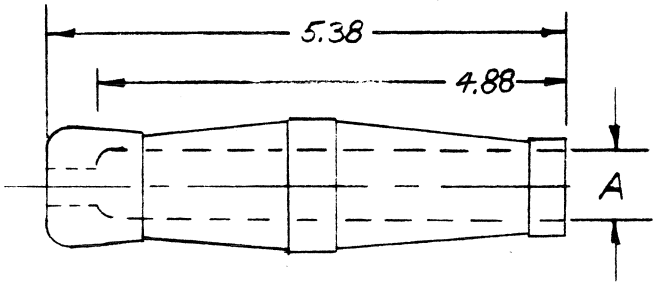
CHG	BY	DATE	
A	HJR	11-11-70	Redrawn, IB No's added

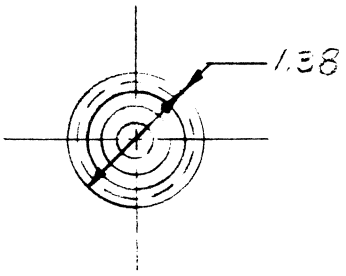
COMPILED	HJR	DATE DRAWN		MATERIAL	
APPROVED		6-2-70		(1)	

Portland FREIGHTLINER CORPORATION Oregon 97208

23-9203

PRINT ISSUED	TITLE	PART NO.
1-23-69	GRIP - HANDLE	23-9203
LAST CHG. LTR. D		SHEET OF





FL PART NUMBER	A	
23-9203-000	1.00	
-001	.75	
-002	.81	
-003	.88	

CHG	BY	DATE	WAS

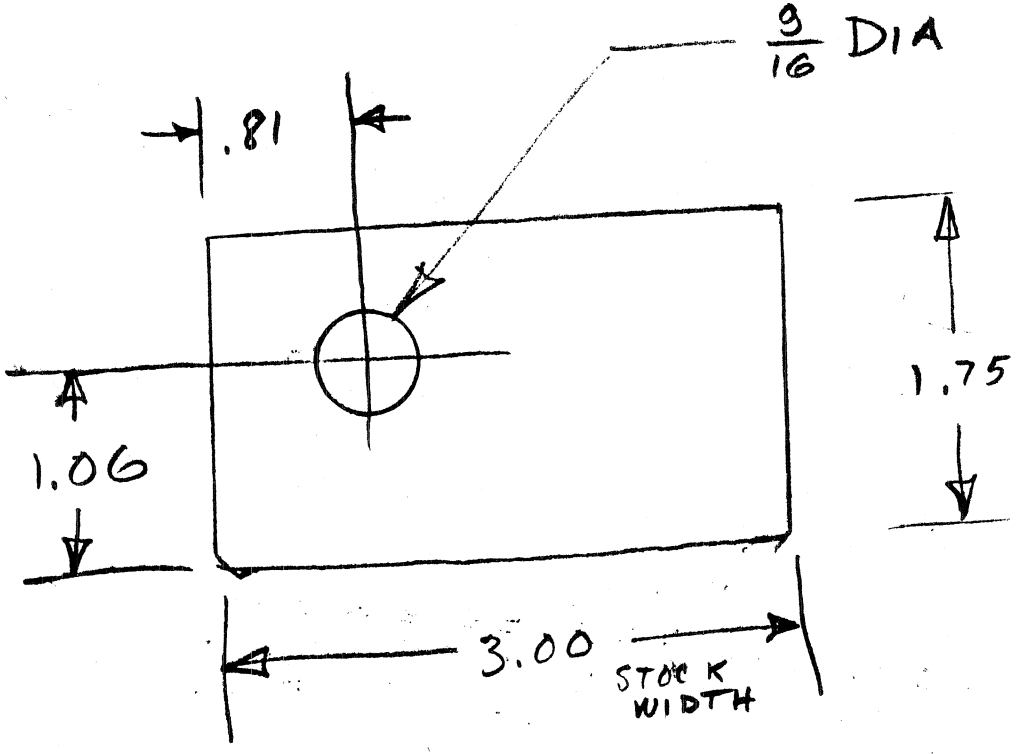
CHG	BY	DATE	WAS
D	KJA	10-29-68	B Size Drawing

ALTERNATE MATERIAL: -2 Aus D-8090

(1) MATERIAL: Red in Color. GRS Stock Rubber.

COMPILED	K.J.A	DATE DRAWN		MATERIAL	NEXT ASSY. NO.
APPROVED	K.J.A	10-29-68		(1)	VEHICLE

Portland FREIGHTLINER CORPORATION Oregon 97208



3/16 STL

NEXT ASSY
A 22-9228

EAR
MTG. — TIRE CARRIER
22-9234

11-17-54

M/E

PART NUMBER - ~~XX-XXXX~~ 23-09201--002

DESCRIPTION - FIBERGLASS (3-2/7-2)

VENDOR NO. - PF 334

VENDOR CODE - FES

VENDOR - FIBERGLASS ENG & SUP

ADDRESS - 320 NW HOYT

CITY-STATE - PORTLAND, OREGON

BUYER CODE - H

STANDARD COST - .

LEAD TIME - 7 DAYS

UNIT WEIGHT - . LBS

SHOP LOCATION -

SET-UP CHARGE - .

FOB POINT - PORTLAND

TERMS - NET 30

ROUTING

PORTLAND - OUR PICK UP

POMONA -

INDIANAPOLIS -

SPECIFICATIONS - 2x24x100

LAST QUOTE DATE - 1966

MFG EQUIPMENT -

QTY/PRICE BREAK SQ.FT. - .064

\- .

\- .

\- .

DATED

** 9/12/69 **

ALTERNATE SOURCE -

REMARKS - 2x24x100 PRICE BASED AT M SQ. FT.

Revised 2-11-72

Mat'l = 48-2132-200

FILE AS ORIG (-2)

23-9201 X2

GENERAL USE PART

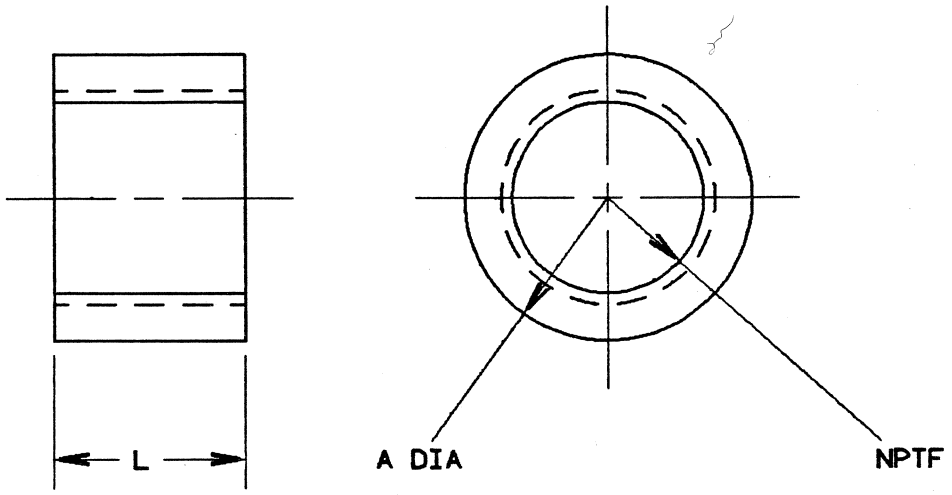
23-09091

ORIGINAL JOB NO.	TITLE	PART NO.
1086C	COUPLING, HALF ALUMINUM	23-09091
LAST CHG LTR: H		SHEET 1 OF 1

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
H1	1086C	DJL	12-03-84	REVISED & REDRAWN
H2	1086C	DJL	12-03-84	ADDED L MIN-MAX

SKETCH:



PART NUMBERS:

PIPE SIZE	THREADS PER INCH	A O.D. (IN.)	LENGTH L(IN.) MIN-MAX		FREIGHTLINER PART NUMBER
1/8	27	.62	.278-.511		23-09091-001
1/4	18	.75	.378-.541		23-09091-002
3/8	18	.88	.438-.601		23-09091-003
1/2	14	1.12	.568-.731		23-09091-004
3/4	14	1.38	.688-.821		23-09091-006
1	11-1/2	1.62	.748-.916		23-09091-008
1-1/4	11-1/2	1.88	.938-1.101		23-09091-010
1-1/2	11-1/2	2.20	1.258-1.416		23-09091-012

SPECIFICATIONS:

(1) MATERIAL: 6061-T6 ALUMINUM

ALTERNATE MATERIAL: ONE 23-09214-# COUPLING CUT IN HALF TO MAKE TWO 23-09091-# HALF COUPLINGS.

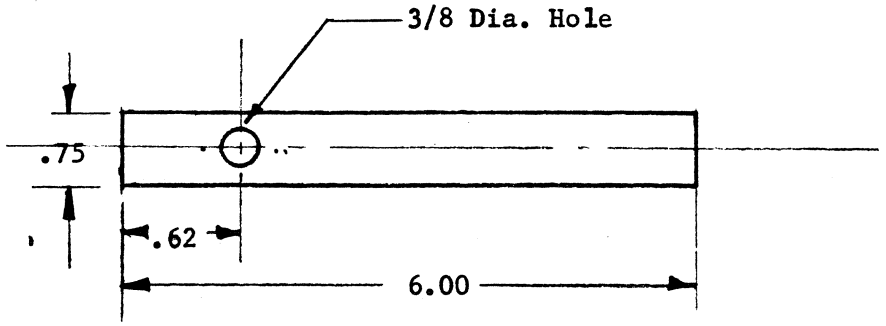
COMPILED	DJL	DATE DRAWN	CADAM ORIGINAL	MATERIAL	MASTER NUMBER	
APPROVED	DJL	12-03-84		(1)	05030	000D1

PORTLAND FREIGHTLINER CORPORATION OREGON 97208

EAC-826

23-9051

PRINT ISSUED	TITLE	PART NO.
1-10-69	STRAP LINE SUPPORT	23-9051
LAST CHG. LTR. A		SHEET OF



CHG	BY	DATE	WAS

CHG	BY	DATE	WAS
A	PRJ	12-26-68	B Size Drawing

(1) .063 Thick Aluminum 5052 H-32

COMPILED	PRJ	DATE DRAWN		MATERIAL	NEXT ASSY. NO.
APPROVED	K.J.A	12-26-68		(1)	VEHICLE

Portland FREIGHTLINER CORPORATION Oregon 97208

23-9700

General Use Part

PRINT ISSUED	TITLE	PART NO.
4/30/71	SOCKET, SNAP FASTENER MEDIUM ACTION	23-9700
LAST CHG LTR		SHEET 1 OF 1

SKETCH



PART NUMBERS

NOM SIZE (ID)				MANUFACTURER'S NUMBERS			FREIGHTLINER PART NUMBER
				UCF			
3/8				XB-10224			23-9700-000

CHG	BY	DATE	WAS

CHG	BY	DATE	WAS

ENGINEERING NOTES

(1) Material: Steel, Bright Finish

2. Used with Piece Part 23-9701 to form snap fastener mating with Snap Fastener Stud 23-9699.

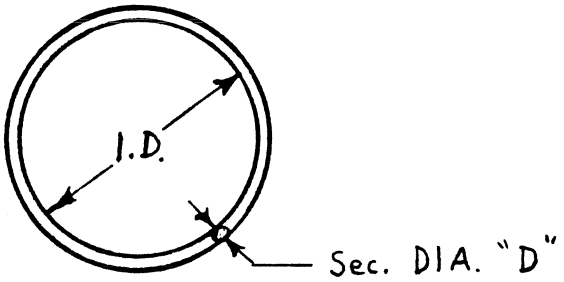
COMPILED	HJR	DATE DRAWN		MATERIAL	
APPROVED	Rmj	4-9-71		(1)	

23-9923

General Use Part

PRINT ISSUED	TITLE	PART NO.
	O-RING, NITRILE	23-9923
LAST CHG. LTR.		SHEET 1 OF 1

SKETCH



PART NUMBERS

I.D.	DIA. "D"		MANUFACTURER'S NUMBER PH		FREIGHTLINER PART NUMBER *
4-3/4	1/16"		2-048 #N219-7		23-9923-048

*Dash number is same as PH size number.

ENGINEERING NOTES

① Material: Nitrile (Buna N) 70 ± 5 Durometer (=PH #N219-7, where "-7" indicates 70 Durometer hardness)

2. Suitable for use with hydraulic oil (petroleum base) at temperature -40 to +250°F (-40 to +121°C).

WAS	CHG	BY	DATE

WAS	CHG	BY	DATE
JOB NO. 84260	—	—	—

ns

COMPILED	HJR	DATE DRAWN		MATERIAL	
APPROVED	ROLLINS	12-30-71		①	

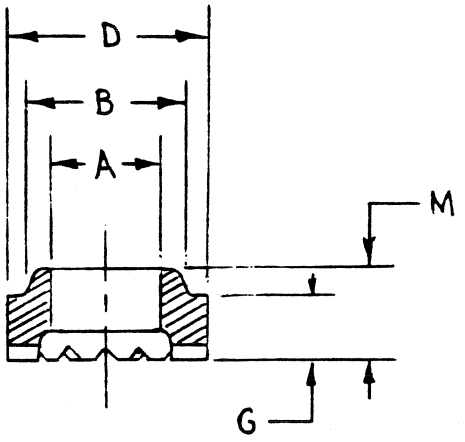
Portland FREIGHTLINER CORPORATION Oregon 97208

ORIGINAL JOB NO.	TITLE	PART NO.
8386B	FERRULE, WELD STUD ARC SHIELD	23-11468
LAST CHG LTR: A		SHEET 1 OF 1

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION

LTR	JOB NO.	BY	DATE	CHANGE INFORMATION
A	2110C	DJL	6-5-84	ADDED -104, REV & REDR

SKETCH:



PART NUMBERS:

Size	A ±.010	B ±.010	D ±.015	G ±.010	M ±.015	Manufacturer Part Number	Freightliner Part Number
1/4-20	.260	.380	.455	.234	.390	(KSM)009-688 (NSW)100-101-006	23-11468-004
1/4-20		.785	.875	.110	.235	(ERJ)092-0014-06	23-11468-104

ENGINEERING NOTES:

1 Material: Ceramic insulator.

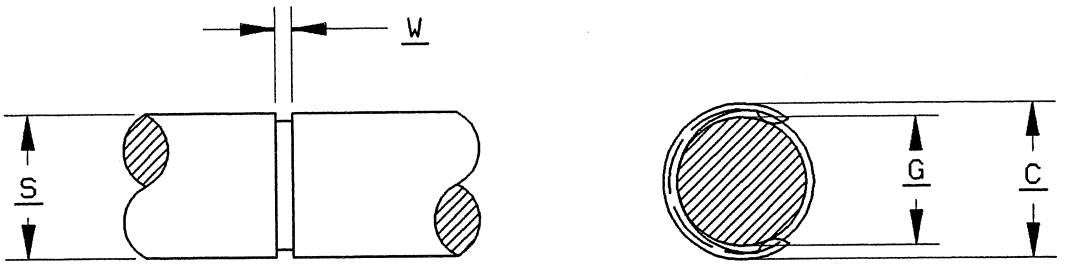
2. Used during installation of weld stud, then discarded.

3. Above parts used with 23-11467 and 23-11665 weld studs to make A23-10300 and A23-11666 weld stud assemblies.

COMPILED	DJL	DATE DRAWN		MATERIAL	MASTER NUMBER	
APPROVED	DJL	6-5-84		1	01290	000D1

ADRIENNE CHILBERG

DRAWN	R P	TITLE RING - RETAINING EXTERNAL, CRESCENT	DRAWING NUMBER 23-11482
APPRV	R P		
DATE	07/18/83	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1 / CHG. LTR. D
CATIA ORIGINAL			



S SHAFT DIAMETER	W GROOVE WIDTH	G GROOVE DIAMETER	C RING DIA. (EXPANDED)	MANUFACTURER'S NUMBER		FREIGHTLINER PART NUMBERS
				RCI	WK1	
.406	.029	.364	.500		5103-40	23-11482-040
.500	.039	.450	.600		5103-50	23-11482-050
1.500	.056	1.350	1.720	C150PA	5103-150	23-11482-150

ENGINEERING NOTES:

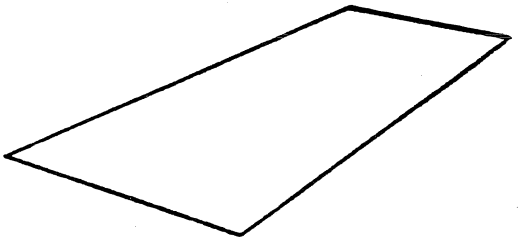
1. MATERIAL: CARBON STEEL, SPRING TEMPERED PER MANUFACTURER'S SPECIFIACTIONS.

CHG	JOB NO	DATE	BY	REVISION
D	P01636-14	05/22/97	DAJ	REVISED AND REDRAWN IN CATIA.

General Use Part

PRINT ISSUED	TITLE	PART NO.
	DECAL, PHOTOSENSITIVE	23-10021
LAST CHG LTR		SHEET 1 OF 1

SKETCH



PART NUMBERS

MATERIAL (1)	COLOR	SHEET SIZE (INCHES)		MANUFACTURER'S NUMBER MMM *		FREIGHTLINER PART NUMBER
PLASTIC	BLK	10 x 12		8015		23-10021-000
	RED			8011		-001
METAL	BLK			8005		-100
	RED			8001		-101

* MATERIAL ONLY; Sheet size must also be given when ordering from MMM.

ENGINEERING NOTES

(1) MATERIAL: BASE· (See Table)
COATING: Photoactive, negative acting.

		DATE DRAWN		MATERIAL	
COMPILED	H.J.R.	3-29-72		(1)	
APPROVED	Rollins				

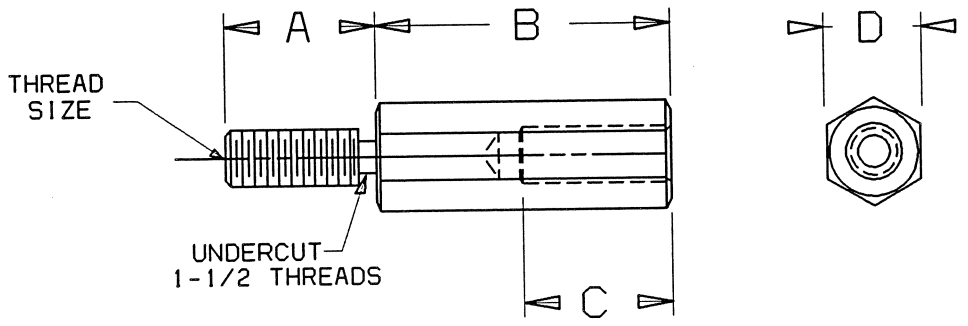
Portland FREIGHTLINER CORPORATION Oregon 97208

WAS | DATE | BY | CHG

WAS J #85450 | DATE ------- | BY ---- | CHG ----

)RIENNE CHILBERG

DRAWN: TNN	TITLE: STANDOFF MALE TO FEMALE	DRAWING NUMBER: 23-11651	
APPRV: TNN			
DATE: 03/15/84	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. B
CATIA ORIGINAL			



THREAD SIZE	A	B	C	D HEX	FREIGHTLINER PART NUMBER
10-24	.375	1.625	.500	.375	23-11651-000 (1)
10-32	.375	1.000	.500	.375	23-11651-001
10-32	.375	1.250	.500	.375	23-11651-002

ENGINEERING NOTES:

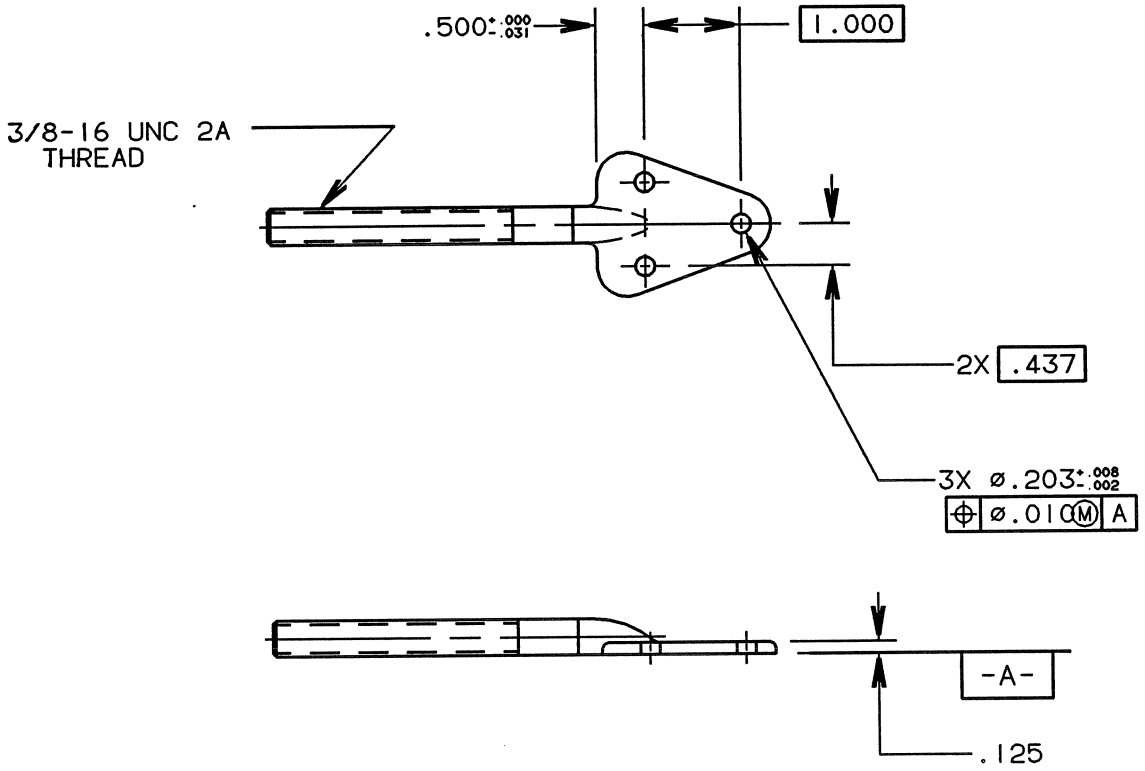
(1) MATERIAL: STAINLESS STEEL, TYPE 303 OR 302.

2. MATERIAL: STEEL

3. FINISH: ZINC PLATE PER FREIGHTLINER SPECIFICATION 49-00005-403.

CHG	JOB NO	DATE	BY	REVISION
A	P00070-03	05/30/96	FHC	REVISED AND REDRAWN. ADDED -001 AND NOTE 2 AND 3.
B	P00070-05	06/26/96	FHC	ADDED -002

DRAWN	BT	TITLE END, STRAP 3/8-16	ITEM NUMBER 23-12106
APPRV	RDF		
DATE	02/05/92	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



FREIGHTLINER PART NUMBER

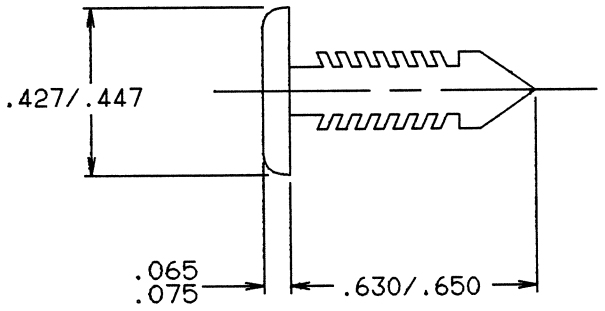
23-12106-000

SPECIFICATIONS:

1. MATERIAL: CLEVELAND FORGE #2784 1/2-A WITH ADDITIONAL .375 INCH LENGTH. GRADE 2 EQUIVALENT. PART MUST BE FREE FROM HYDORGEN EMBRITTLEMENT.
2. FINISH: ZINC PLATED PER FREIGHTLINER SPECIFICATION 49-00005-103.
3. ALL UNTOLERANCED DIMENSIONS ARE FOR REFERENCE ONLY.

CHG	JOB/RLSE NO	DATE	BY	REVISION
B	P7015H-04	07/23/93	ERK	REDRAWN: HOLE SIZE CHANGED FROM .203 TO .196
C	P2763J-01	06/28/94	ERK	REDRAWN: HOLE SIZE & POSITION TOLERANCES REVISED.

DRAWN	FILMER	TITLE	ITEM NUMBER
APPRV	ERK	CLIP - CHRISTMAS TREE NYLON	23-12114
DATE	08/06/92	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



DESCRIPTION	HOLE DIA.	PANEL THICK.	FREIGHTLINER PART NUMBER
CLIP	.182-.192	.065-.408	23-12114-000

ITW FASTEX "CHRISTMAS TREE CLIP":

P/N 354-190001-00 OR FREIGHTLINER APPROVED EQUIVALENT.

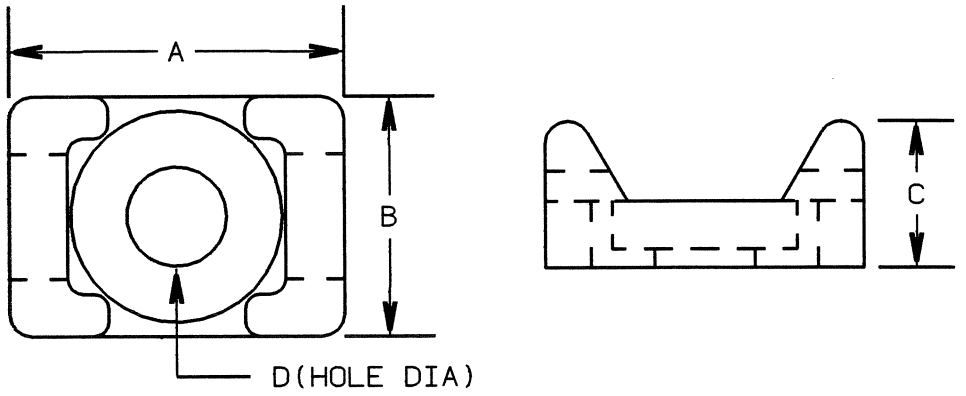
MATERIAL: BLACK NYLON.

HEAD STYLE: FLAT. ROUND OR CROWNED ACCEPTABLE.

POINT STYLE: CONICAL. TRIANGLE OR ROUND ACCEPTABLE.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	PM0446-46	08/06/92	ERK	DOCUMENTED

DRAWN	ERK	TITLE TIE MOUNTS PLASTIC	ITEM NUMBER 23-12118
APPRV	DJM		
DATE	09/04/92	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



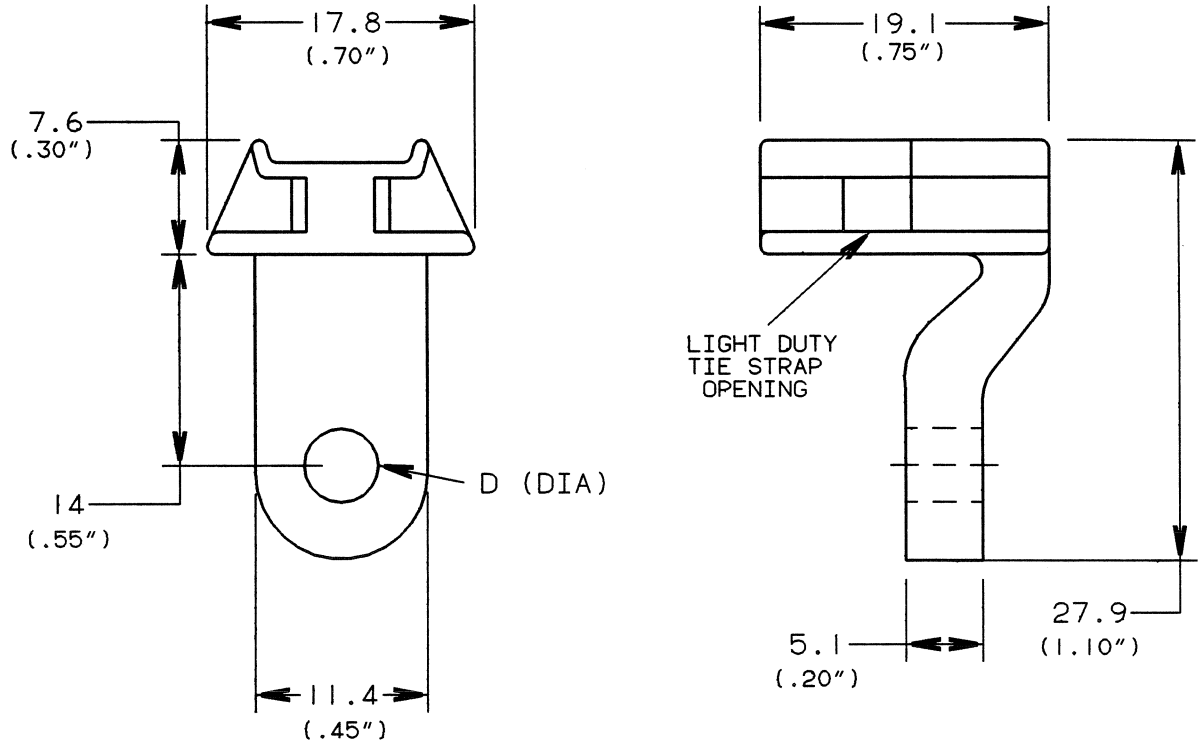
DIMENSIONS MM (INCHES)				SOURCE		FREIGHTLINER PART NUMBER
A	B	C	D	MFG	PART#	
22.2 (.875)	15.9 (.625)	9.7 (.380)	5.1 (.200)	PAND	TM3S10-C	23-12118-001

SPECIFICATIONS:

1. MATERIAL -------- NYLON
2. COLOR ---------- NATURAL OR BLACK.
3. DIMENSIONS SHOWN ARE REFERENCE ONLY.
4. EQUIVALENT ACCEPTABLE WITH ENGINEERING APPROVAL.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	PN0431-02	09/04/92	ERK	DOCUMENTED

DRAWN	ERK	TITLE	ITEM NUMBER
APPRV	DJM	LIGHTENING HOLE MOUNTS PLASTIC	23-12119
DATE	09/17/92	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



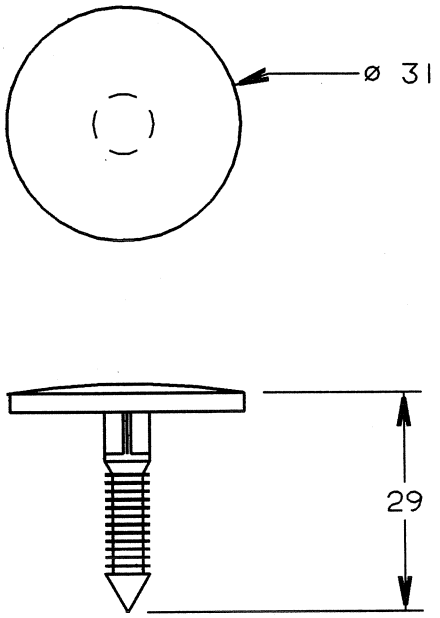
D DIMENSIONS MM (INCHES)	SOURCE		FREIGHTLINER PART NUMBER
	MFG	PART#	
4.9 (.192)	PAND	LHMS-S10-D	23-12119-001

SPECIFICATIONS:

1. MATERIAL -------- NYLON
2. COLOR ---------- NATURAL OR BLACK.
3. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
4. EQUIVALENT ACCEPTABLE WITH ENGINEERING APPROVAL.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	PN0431-03	09/17/92	ERK	DOCUMENTED

DRAWN	ERK	TITLE RETAINER NYLON 6/6	ITEM NUMBER 23-12123
APPRV	TAG		
DATE	10/19/92	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



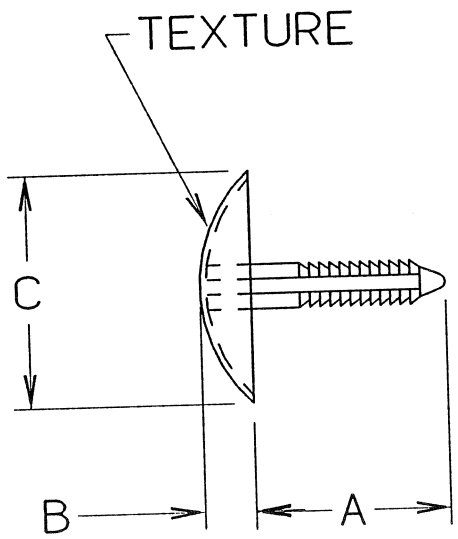
SOURCE		FREIGHTLINER PART NUMBER
MFG	PART#	
ARDEN	08-80866	23-12123-001

SPECIFICATIONS:

1. MATERIAL -------- NYLON 6/6.
2. COLOR ---------- NATURAL OR BLACK.
3. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
4. EQUIVALENT ACCEPTABLE WITH ENGINEERING APPROVAL.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	PL0380-02	10/19/92	ERK	INITIAL RELEASE

DRAWN	DAJ	TITLE RETAINER-NYLON TEXTURED	ITEM NUMBER 23-12235
DATE	04/27/95	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



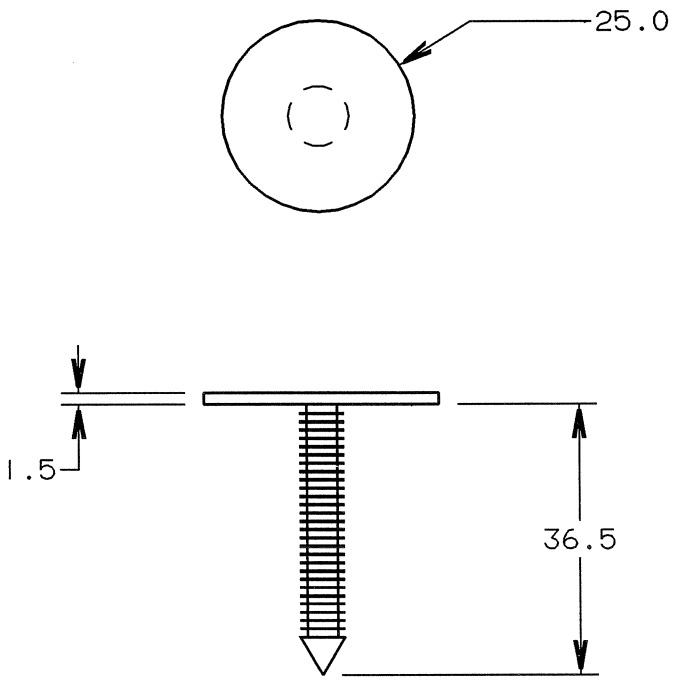
DIMENSIONS			TEXTURE	HOLE DIA	PNL THK	SOURCE		FREIGHTLINER PART NUMBER
A	B	C				MFG	PART#	
1.060	.100	.700	TEN-1141	.250	.800-.110	ARDEN	05-52767	23-12235-000

ENGINEERING NOTES:

1. MATERIAL -------- NYLON
2. COLOR ---------- SHADOW GRAY PER 49-00091-002
3. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
4. EQUIVALENT ACCEPTABLE WITH ENGINEERING APPROVAL.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	P2A220-65	04/27/95	DAJ	INITIAL LOAD

DRAWN	ERK	TITLE RETAINER NYLON FASTENER	ITEM NUMBER 23-12141
APPRV	TAG		
DATE	02/19/93	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



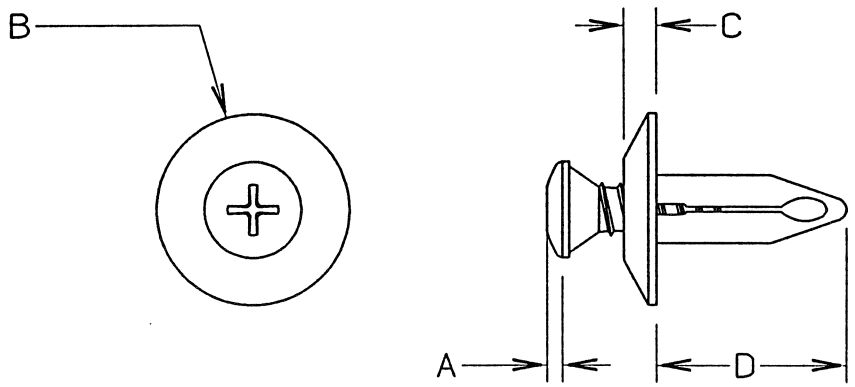
SOURCE		FREIGHTLINER PART NUMBER
MFG	PART#	
ARDEN	08-85038	23-12141-001

SPECIFICATIONS:

1. MATERIAL -------- NYLON 6/6.
2. COLOR ---------- NATURAL OR BLACK.
3. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
4. EQUIVALENT ACCEPTABLE WITH ENGINEERING APPROVAL.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	PL0379-04	02/19/93	ERK	INITIAL RELEASE

DRAWN	ERK	TITLE	ITEM NUMBER
APPRV	NZ	PANEL FASTENER SCREW TYPE, CROSS RECESS	23-12164
DATE	10/26/93	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



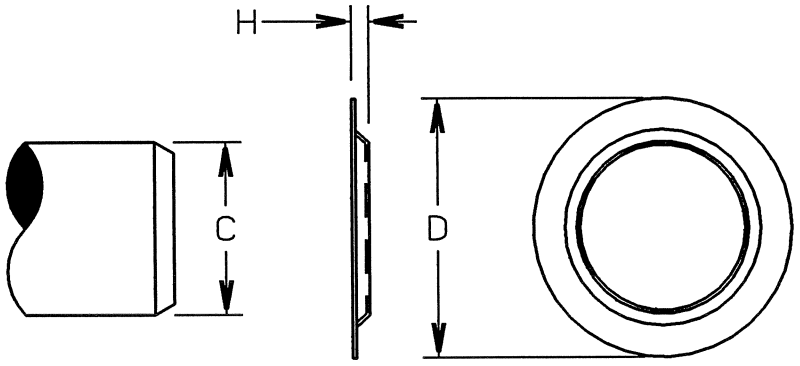
	HOLE DIA. (IN)	PANEL RANGE (IN)	A (IN)	B (IN)	C (IN)	D (IN)	MFR NUMBER		FREIGHTLINER PART NUMBER
							PHILLIPS	ARDEN	
B	.248-.258	.098-.236	.030	.700	.118	.689		08-85007	23-12164-001
A	.228	.177-.295	.098	.433	.059	.787	M60-0580-06	08-86615	-002

GENERAL INFORMATION:

1. MATERIAL: PLASTIC
2. COLOR: BLACK.
3. HEAD STYLE: CROSS RECESS
4. DIMENSIONS LISTED ARE NOMINAL.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	P8631E-09	10/26/93	ERK	INITIAL RELEASE
A	PM0609-01	12/13/94	DAJ	ADDED -002
B	PA2042-54	06/23/95	ERK	ADDED ARDEN'S MFG. NO. TO -002

DRAWN	ERK	TITLE RING-RETAINER GROOVELESS	ITEM NUMBER 23-12170
APPRV	SJF		
DATE	02/15/94	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1

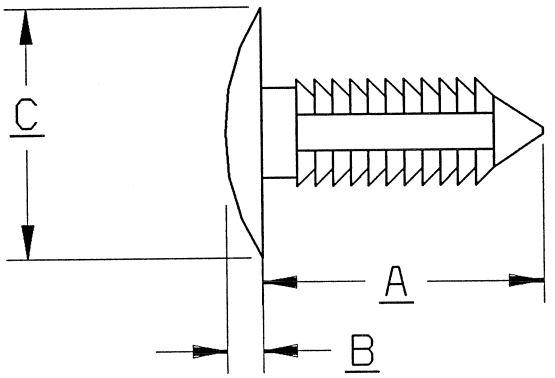


STUD SIZE (C)	H	D	VENDOR		FREIGHTLINER PART NUMBER
			PH	TIN	
.500	.025	.750	ER-50	T99220-SS-120-576	23-12170-001

1. MATERIAL: STAINLESS STEEL
2. EQUIVALENT ACCEPTABLE WITH ENGINEERING APPROVAL.

CHG	JOB/RLSE NO	DATE	BY	REVISION
-	P3051J-05	02/15/94	ERK	INITIAL RELEASE

DRAWN	DAJ	TITLE RETAINER-NYLON PLAIN	DRAWING NUMBER 23-12251
APPRV	ERK		
DATE	05/24/95	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1 / CHG. LTR. B
CATIA ORIGINAL			



DIMENSION			TEXTURE	COLOR	HOLE DIA.	PANEL THICKNESS	SOURCE		FREIGHTLINER PART NUMBER
A	B	C					VENDOR	PART NO.	
.480	.100	.750	PLAIN	BLK	.187	.312-.030	ARDEN	PC47561	23-12251-000
.800	.100	.700	PLAIN	BLK	.250	.560-.110	ARDEN	PC47486	23-12251-001
.800	.100	.700	PLAIN	GRAY	.250	.560-.110			23-12251-002

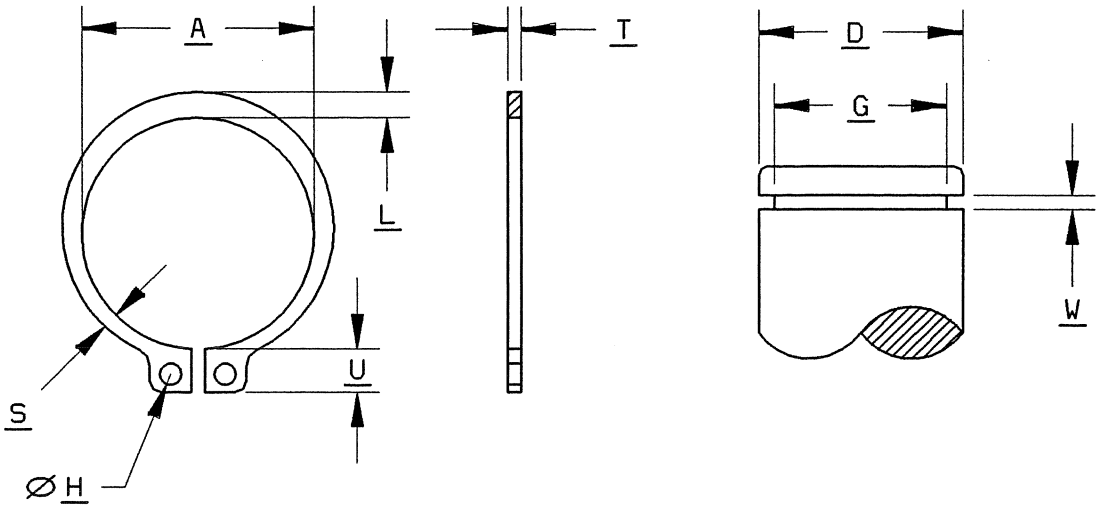
ENGINEERING NOTES:

1. MATERIAL: NYLON
2. DIMENSIONS ARE SHOWN FOR REFERENCE ONLY.
3. EQUIVALENT ACCEPTABLE WITH ENGINEERING APPROVAL.

CHG	JOB NO	DATE	BY	REVISION
-	P2A262-94	05/24/95	DAJ	INITIAL RELEASE
A	P2A411-38	06/30/95	DAJ	ADDED - 001
B	P01233-01	09/13/96	FHC	REDRAWN IN CATIA, ADDED-002, AND REMOVED NOTE 2.

ADRIENNE CHILBERG

DRAWN	ERK	TITLE	DRAWING NUMBER	
APPRV	N Z	RING - RETAINER EXTERNAL, CARBON STEEL	23-12293	
DATE	11/27/95			
CATIA ORIGINAL		FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. A



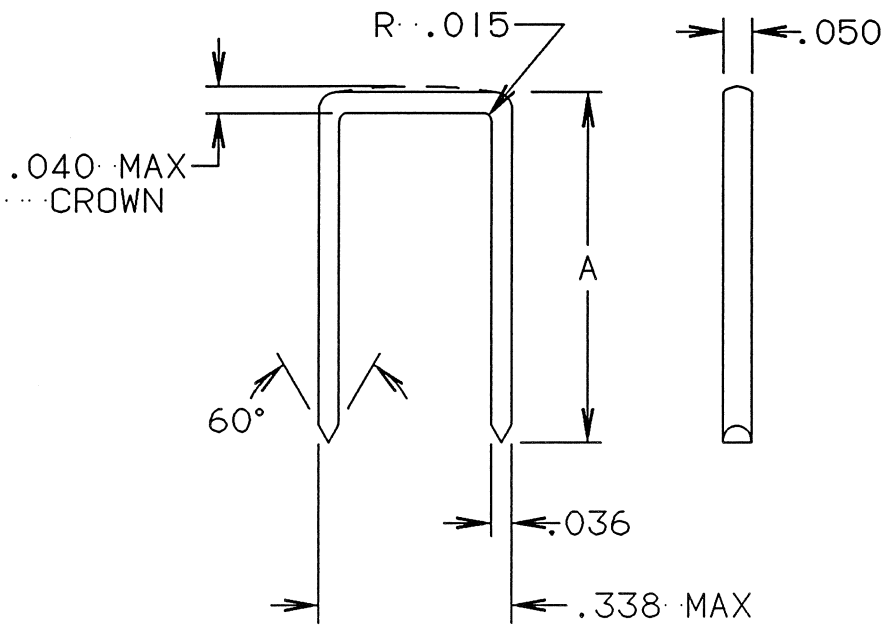
	D SHAFT DIA. IN (MM)	A FREE DIA.	L	U	H	S	T	GROOVE DIMENSIONS G	GROOVE DIMENSIONS W	FREIGHTLINER PART NUMBERS
A	.250 (6.35)	.225	.035	.080	.041	.025	.025	.230	.029	23-12293-025
	1.00 (25.4)	.925	.116	.167	.078	.065	.042	.940	.046	23-12293-100

ENGINEERING NOTES:

1. MATERIAL: CARBON SPRING STEEL
2. FINISH: BLACK PHOSPHATE COATING OR OIL-DIPPED
3. SUPPLIER: WALDES "TRUARC 5100" OR APPROVED EQUIVALENT.

CHG	JOB NO	DATE	BY	REVISION
A	P01636-14	05/22/97	DAJ	REVISED AND REDRAWN IN CATIA, ADDED -025.

DRAWN	ERK	TITLE STAPLE STAINLESS STEEL	ITEM NUMBER 23-12313
APPRV	PGV		
DATE	02/19/96	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1



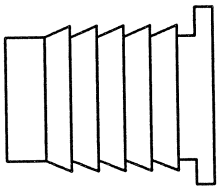
DIM A	MANUFACTURER	FREIGHTLINER PART NUMBER
	BOSTITCH	
.610	SL50355/8SS	23-12313-001

MATERIAL: STAINLESS STEEL

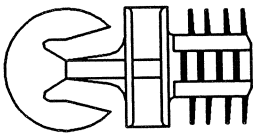
CHG	JOB/RLSE NO	DATE	BY	REVISION
-	P2A330-61	02/19/96	ERK	INITIAL RELEASE

)RIENNE CHILBERG

DRAWN	FHC	TITLE SNAP-BUTTON PUSH-IN	DRAWING NUMBER 23-12371	
APPRV	DAJ			
DATE	05/13/96	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. A
CATIA ORIGINAL				



-000



-001

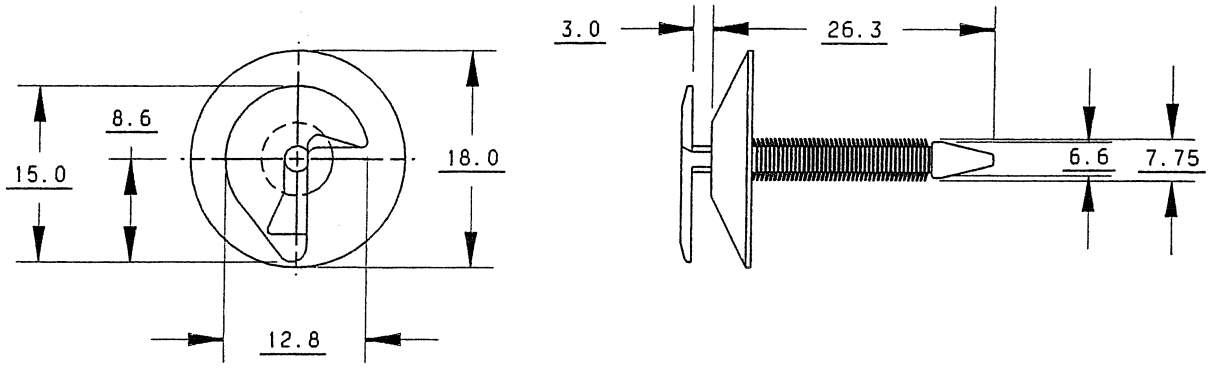
HOLE SIZE	PANEL THK. (MIN)	SUPPLIER		FREIGHTLINER PART NUMBER
		NAME	PART NUMBER	
.562	.468	ITW FASTEX	320-221401-00	23-12371-000
.437	—	ITW FASTEX	320-322880-01	23-12371-001

ENGINEERING NOTES:

1. MATERIAL: NYLON-66

CHG	JOB NO	DATE	BY	REVISION
-	P6678P-05	05/13/96	FHC	INITIAL RELEASE
A	P6678P-10	05/28/96	FHC	-001 WAS ITW FASTEX 320-322880-00

DRAWN	FHC	TITLE	DRAWING NUMBER	
APPRV	DAJ	RETAINER-PANEL FASTENER QUARTER-TURN	23-12378	
DATE	06/05/96			
CATIA ORIGINAL		FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1	CHG. LTR. D



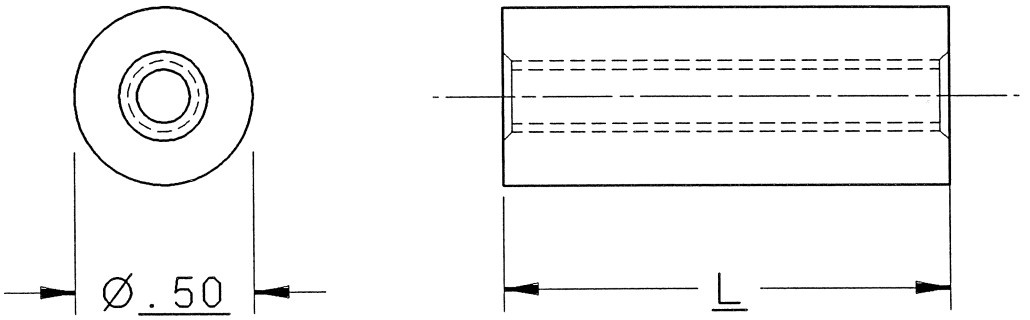
HOLE DIA.	SUPPLIER ITW DELTAR	FREIGHTLINER PART NUMBER
6.76-7.26	DPW 0131	23-12378-000

ENGINEERING NOTES:

1. MATERIAL: ZYTEL 408 OR EQUIVALENT.
2. COLOR: NATURAL (WHITE)
3. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.
4. HEAD ROTATES INTO A 9.14-9.65 DIA. HOLE OR A 6.60 X 12.90 OVAL SLOT IN A 2.5 PANEL.

CHG	JOB NO	DATE	BY	REVISION
-	P6918P-01	06/05/96	FHC	INITIAL RELEASE
A	PA2042-70	06/28/96	FHC	REVISED TABLE, ADDED SUPPLIER AND HOLE DIAMETER
B	PA2042-71	08/27/96	FHC	REVISED HOLE DIA. DIMEN AND RMVD PNL THK COLUMN.
C	P6918P-11	09/12/96	FHC	CHANGED COLOR FROM BLACK TO NATURAL.
D	P02873-01	05/27/97	DAJ	REVISED THE HEAD DIMENSIONS.

DRAWN	FHC	TITLE STANDOFF	DRAWING NUMBER 23-12411
APPRV	DAJ		
DATE	12/11/96	FREIGHTLINER CORPORATION PORTLAND, OREGON	SHEET 1 OF 1 / CHG. LTR. -
CATIA ORIGINAL			



THREAD	FREIGHTLINER PART* NUMBER
1/4-20	23-12411-L

* COMPLETE PART NUMBER BY ADDING A THREE DIGIT DASH NUMBER EXPRESSING LENGTH IN HUNDREDTHS OF AN INCH.
EXAMPLE: 23-12411-350 SPECIFIES A 1/4-20 STANDOFF 3-1/2 INCHES LONG.

ENGINEERING NOTES:.

1. MATERIAL: NYLON
2. FINISHED: PLAIN

CHG	JOB NO	DATE	BY	REVISION
-	PB4501-77	12/11/96	FHC	INITIAL RELEASE