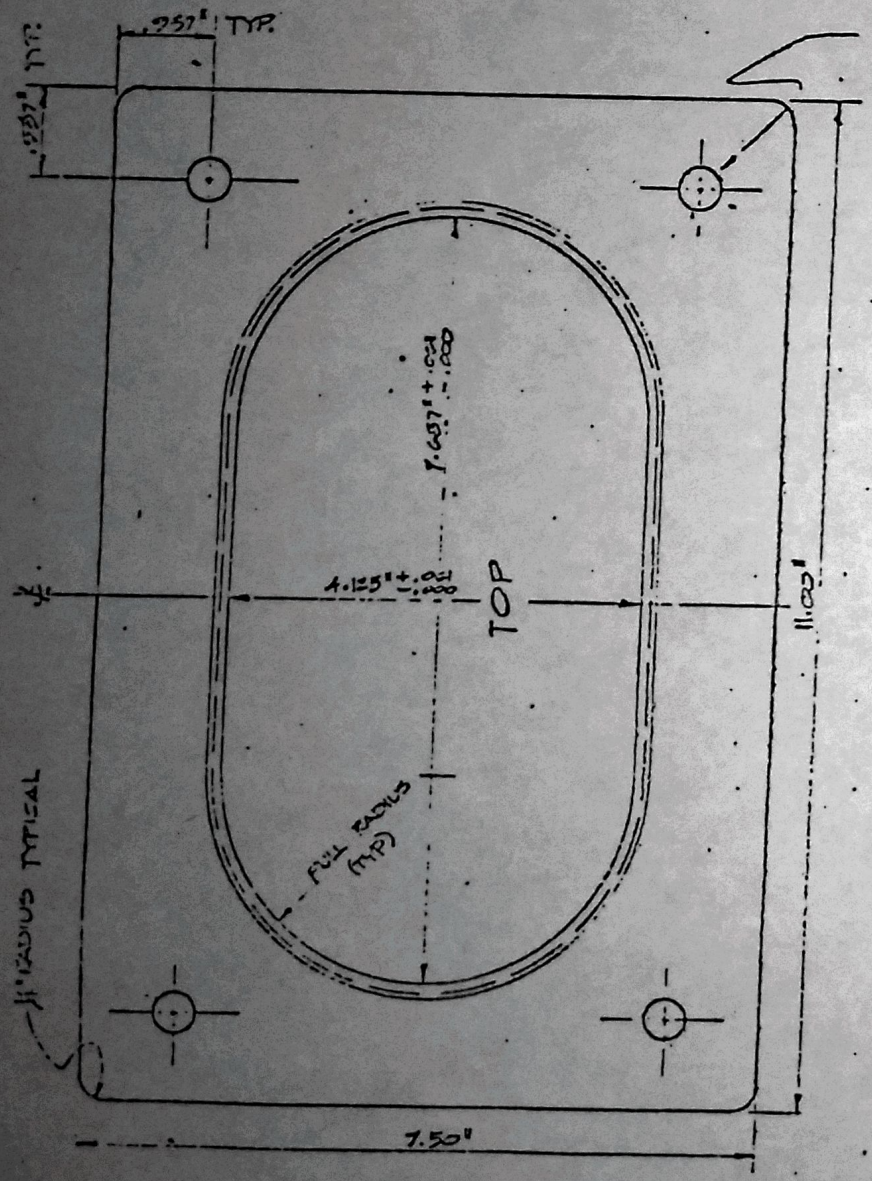
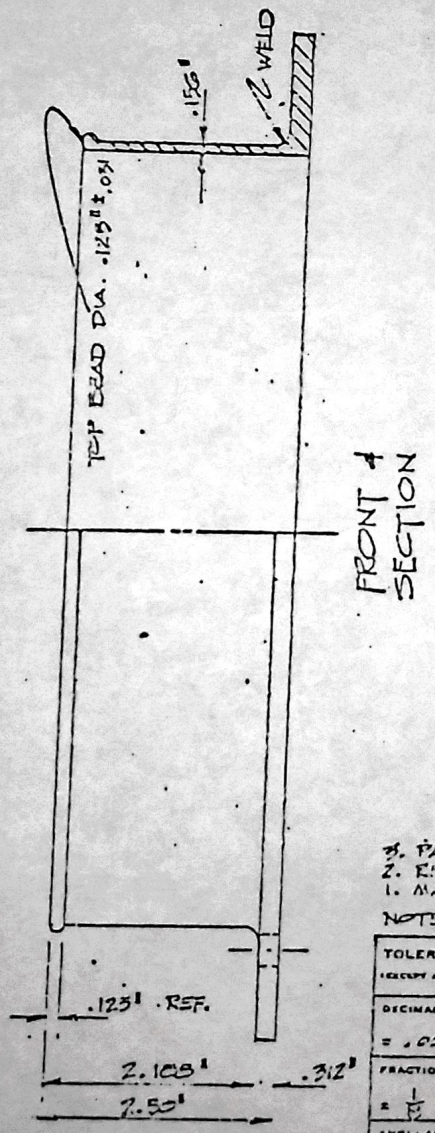
9-A-2





DATE	SYM	REVISION RECORD	GR	CK
	A	[illegible]		
	B	ECO-3 53% PAK 4	5	TC

3. PAINT TO MATCH MATING SPAR.
2. REMOVE ALL BURRS & BREAK SHARP EDGES.
1. MAKE FROM 6063-T6 ALUM. ALLOY OR EQUIVALENT.

NOTES ~ UNLESS OTHERWISE SPECIFIED

TOLERANCES (EXCEPT AS NOTED)			
DECIMAL ± .031"	W42, W43	SCALE 3/4"=1"	DRAWN BY TN / APPROVED BY
FRACTIONAL ± 1/32	TITLE COLLAR, MAST, MIZZEN		
ANGULAR	DATE 9-10-79	DRAWING NUMBER B 13352	B

SPARS WESTSAIL 43 CUTTER

9-B-1

16501-01	Set of Spars W43 Cutter				
	Mast	C16481-01			
	Boom, Main	C16486-02			
	Boom, Staysail	C16483-01			
16501-02	Set of Spars W43 Cutter Tall Rig				
	Mast	R16480			
	Boom, Main	C16486-02			
	Boom, Staysail	C16483-01			

WESTSAIL CORP., COSTA MESA, CA.	SCALE none DRAWN BHL DATE [illegible]	TITLE SPARS WESTSAIL 43 CUTTER	A	16501	A
			REVISED ECO 346		

SPARS, WESTSAIL 43 KETCH

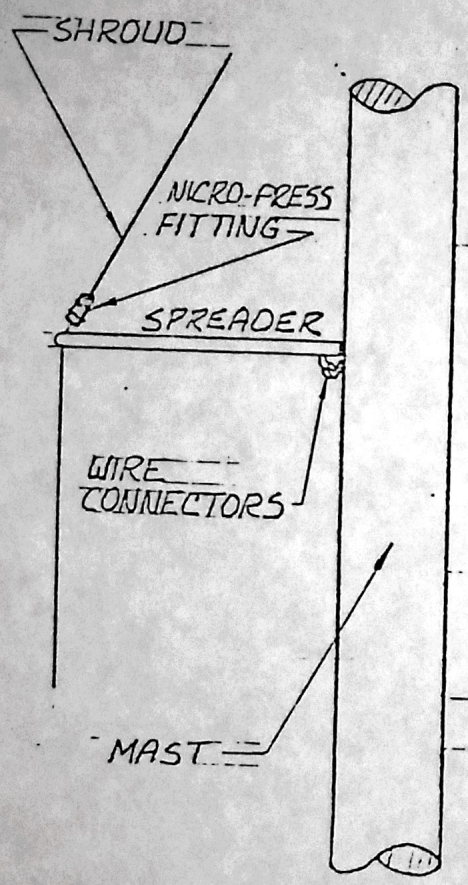
9-B-1

16502-01	Set of Spars W43 Ketch			
	Mast, Main	C16481-01		
	Boom, Main	C16486-01		
	Boom, Staysail	C16489-01		
	Mast, Mizzen	C16490-01		
	Boom, Mizzen	C16491-01		
16502-02	Set of Spars W43 Ketch Tall Rig			
	Mast, Main	R16480		
	Boom, Main	C16486-01		
	Boom, Staysail	C16489-01		
	Mast, Mizzen	R16485		
	Boom, Mizzen	C16491-01		

WESTSAIL CORP., COSTA MESA, CA.	SCALE none DRAWN Phil DATE 4/14/70	TITLE SPARS WESTSAIL 43 KETCH	A	16502 A
			REVISED ECO 3046	

9-B-3

WESTSAIL STANDARD PRACTICE
SPREADER INSTALLATION



WHEN FABRICATING UPPER SHROUD, PLACE: "NICRO-PRESS SLEEVE" ON EACH WIRE.

DO NOT CRIMP IT.

WHEN STEPPING MAST, PLACE: "NICRO-PRESS SLEEVE" JUST ABOVE SPREADER AND CRIMP. THIS WILL PREVENT SPREADER FROM RIDING UP.

LOAD ON: PLEASE MAKE SURE THAT 5 WIRE CONNECTORS (ONE EXTRA) GO WITH THE SPREADERS SO THAT THE SPREADER LIGHTS CAN BE CONNECTED.

QTY	PART NUMBER	DESCRIPTION

PARTS OR MATERIAL LIST

WESTSAIL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 540-9711

WSP-SPREADER INSTALLATION

DRAWN	DATE	MANUAL PAGE NUMBER
RUDY	10-11-76	

SIZE	DWG NO.	REV
A	24015	A

SCALE NONE

SHEET 1 OF 1

LTR	ENG. CHANGE NO	DATE
A	594 RR	10-11-76

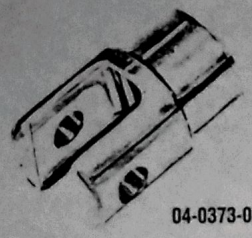
REVISIONS

NEXT ASSY	USED ON
	W28-W32-W42-W43

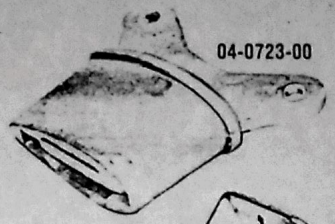
APPLICATION

9-B-3

OUTBOARD & INBOARD SPREADER FITTINGS


04-0373-00

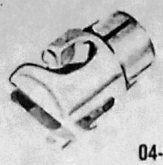
04-0372-00


04-0723-00

04-0721-00

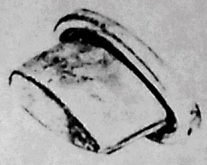
04-0720-00

04-0356-00

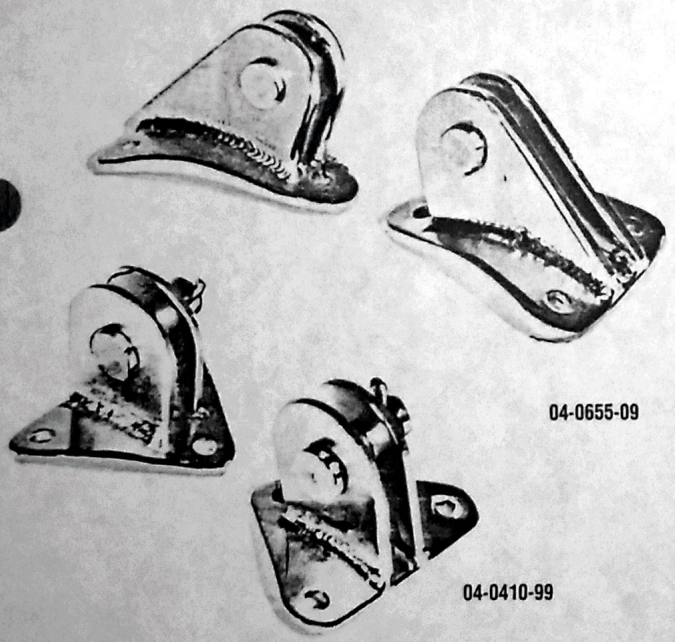

04-0631-00

04-0722-00

04-0309-00


SPR3-04-0720-00
SPR4-04-0722-00
WELD ONLY

SPREADER MAST BRACKETS


04-0655-09

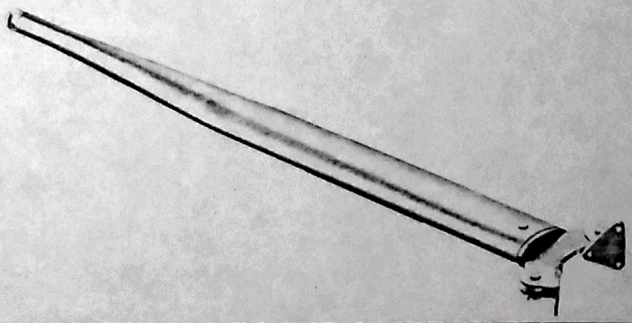
04-0410-99

SPREADER ASSEMBLIES

SPREADER ASSEMBLIES

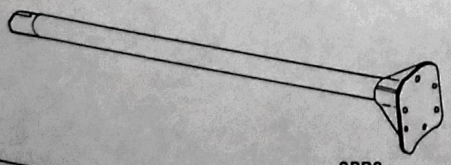
Part Number	Model Number	Mating mast section model number for spreader brackets.
04-0918-09	Spr. 0	L-108, L-106 extrusion
04-0919-09	Spr. 3	OM1, OM2, OM3, OM4, extrusions
04-0920-09	Spr. 3	OM5 extrusions
04-0921-09	Spr. 4	OM3, OM4 extrusions
04-0922-09	Spr. 4	OM5 extrusions

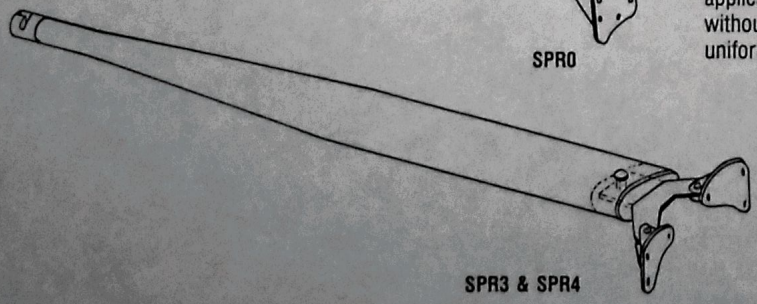
Custom spreader brackets can be fabricated upon request to fit specific applications.

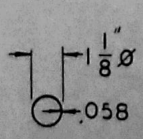


SPREADER SECTIONS

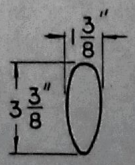
These straight and tapered airfoil spreaders offer a broad range of applications. LeFiell's ROLL-FLO® process produces tapering without cutting and welding or chem-milling to achieve structural uniformity and wall reductions.


SPR0

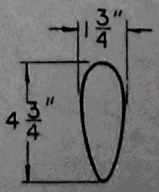

SPR3 & SPR4



SPR0



SPR3

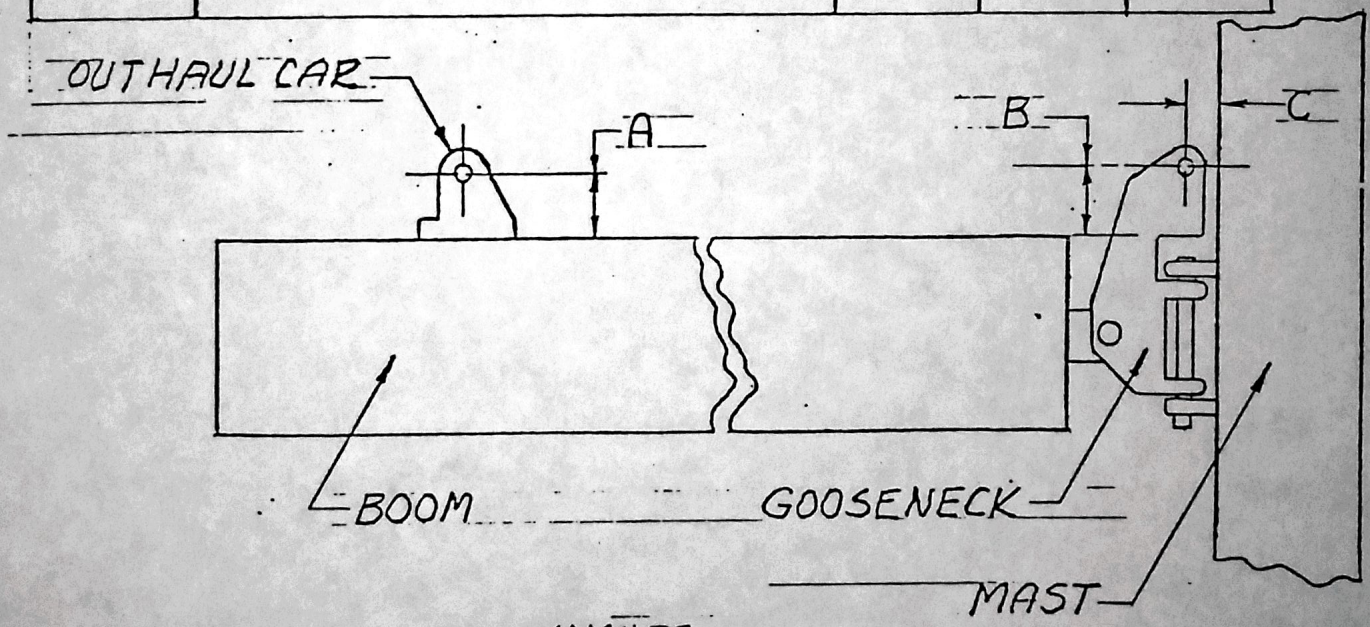


SPR4

LeFIELL
MARINE PRODUCTS • A Division of LeFiell Manufacturing Company
13700 Firestone Blvd., Santa Fe Springs, CA 90670 • (213) 921-3411 • (213) 773-0260 • (714) 521-6606 • TLX. #677676 LeFiell SFES

9-B-5

BOAT	BOOM - PART NUMBER	DIMENSIONS A	B	C
W28	MAIN BOOM 16497	1 3/16	5/8	1 1/8
W32	MAIN BOOM 16476	1 3/16	5/8	1 1/8
W42 W43	MIZZEN BOOM, YAWL 16503-02	1 3/16	5/8	1 1/8
W42 W43	MIZEN BOOM, KETCH 16494-07	1 3/16	5/8	1 1/8
W42 W43	MAIN BOOM, CUTTER 16494-01	1 3/16	5/8	1 1/8
W42 W43	MAIN BOOM, TALL RIG 16504-02	1 3/16	5/8	1 1/8
	" " " " " -03			
	" " " " " -04			
	" " " " " -05	1 3/16	5/8	1 1/8



ALL DIMENSIONS ARE IN INCHES.

QTY	PART NUMBER	DESCRIPTION	ITEM
		PARTS OR MATERIAL LIST	

WESTSAIL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 549-9711

TACK & CLEW LOCATIONS, LE FIELL BOOMS

DRAWN	DATE	MANUAL PAGE NUMBER
G. WARD	8-17-76	

LTR	ENG. CHANGE NO.	DATE
A	586	9.30.76

REVISIONS

NEXT ASSY	USED ON
	28, 32, 42, 43

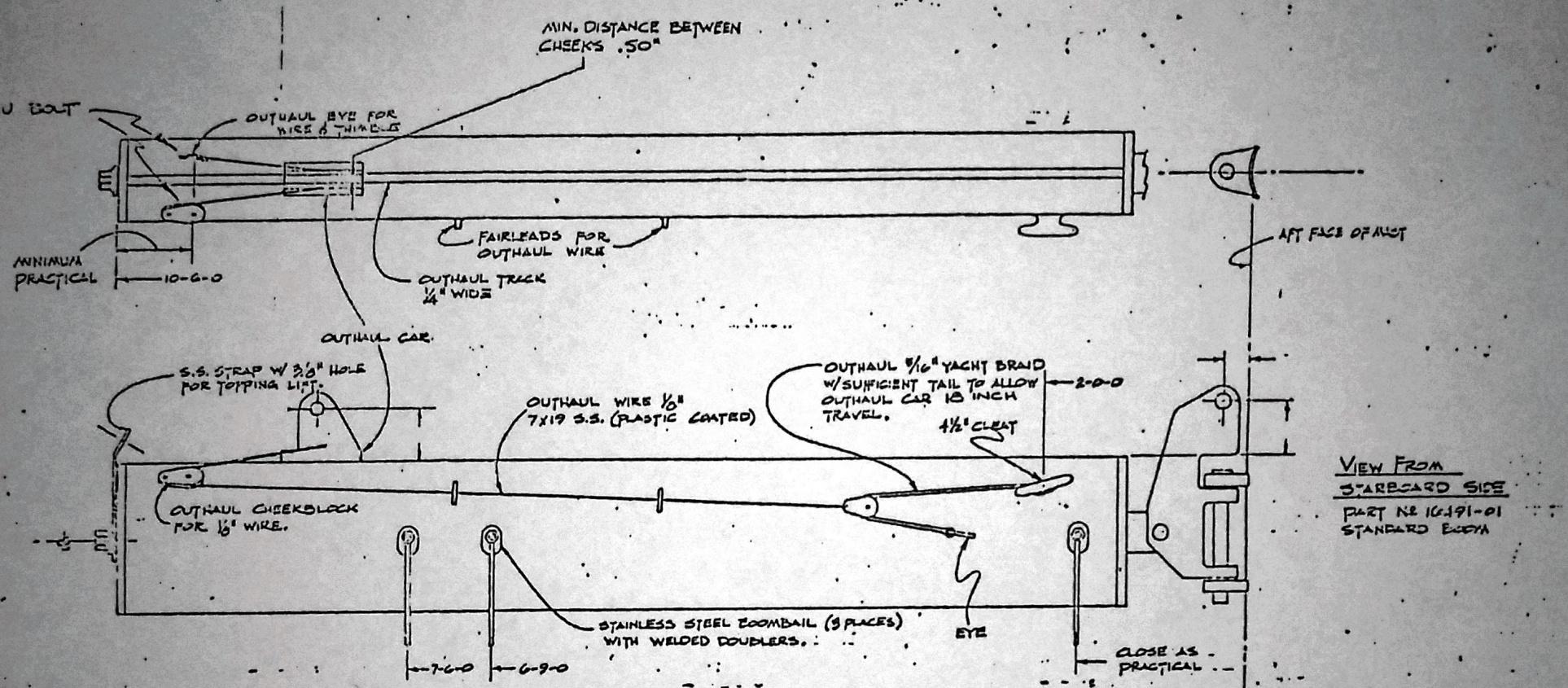
APPLICATION

SIZE	DWG. NO.	REV.
A	16449	A

SCALE NONE

SHEET 1 OF 1

A	RELEASED	



VIEW FROM STARBOARD SIDE

PART Nº 16491-01 STANDARD BODY

5. END FITTINGS TO BE SECURED WITH MACHINE SCREWS.
4. FINISH: PAINT ALL ALUMINUM PER SAMPLE SUPPLIED.
3. ACCEPTABLE EXTRUSION SECTION: #L-108 LE FIELL MFG. CO. 6063-T6-AL.AL.
2. TOLERANCES: ±.25 INCH.
1. ALL DIMENSIONS IN FEET-INCHES-FRACTIONS

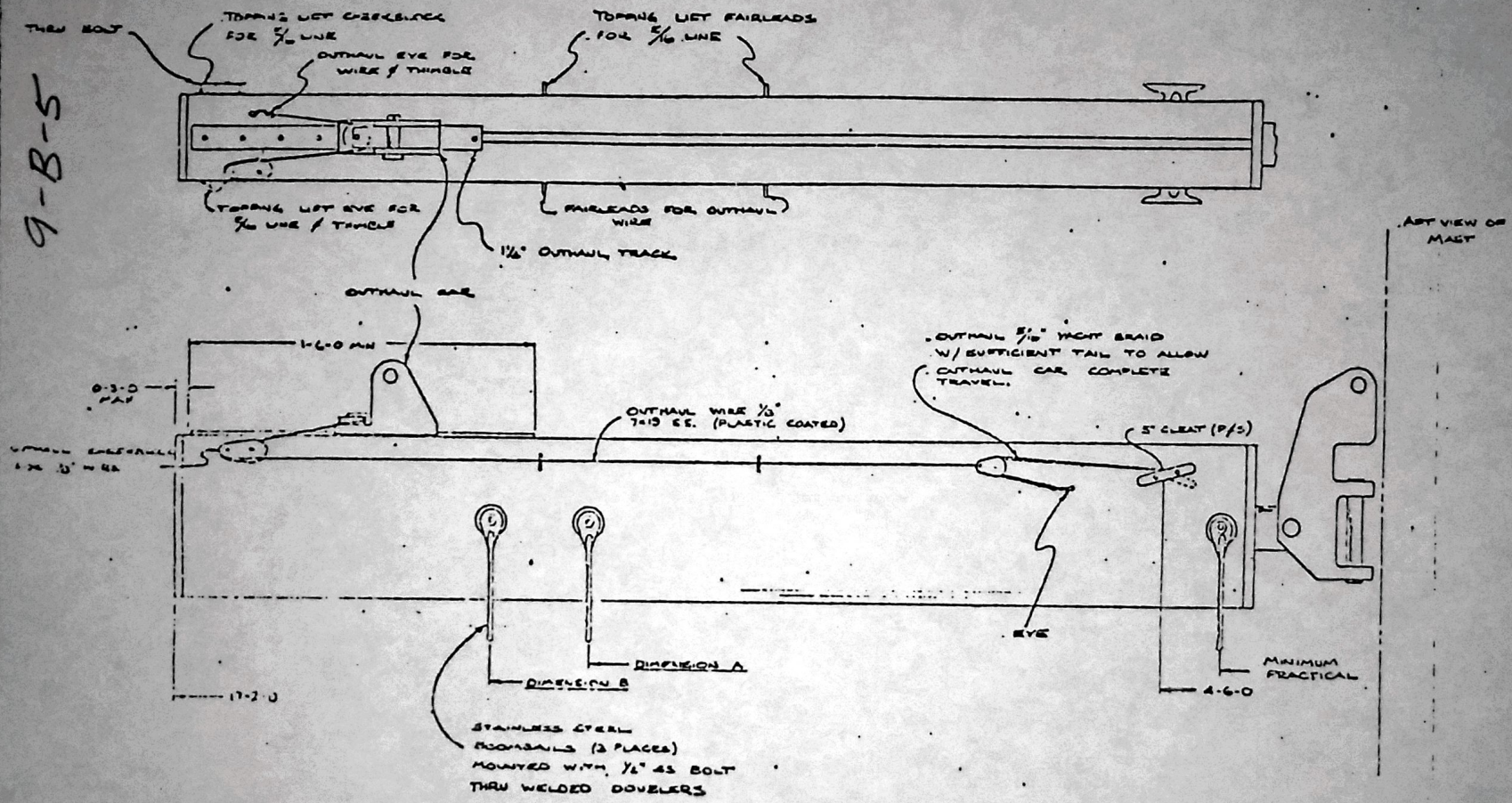
B / ECO-363 / 4-1-96

WESTSAIL CORP
275 McCORMICK, COSTA MESA, CA 926

DEMO NEWS	APPROVED BY	DRAWN BY
DATE 10-22-75	10/23/75	10.16.75

BOOM, MIZZEN W-42 W-42

9-B-5



	KETCH	CUTTER
DIMENSION A	12-6-0	10-9-0
DIMENSION B	13-6-0	11-9-0

PART NUMBERS

16486-01 W43 KETCH BOOM

16486-02 W43 CUTTER BOOM

1. END FITTINGS TO BE SECURED WITH MACHINE SCREWS.
2. FINISH IN STANDARD WHITE
4. ACCEPTABLE EXTRUSION:
3. OUTHAUL CAR MUST BE LOCATED FAR ENOUGH AFT TO ALLOW FULL TRAVEL OF CAR.
[illegible] TOLERANCES: ± .25 INCH
[illegible] DIMENSIONS IN FEET - INCHES - EIGHTS

NOTE: UNLESS OTHERWISE SPECIFIED

WESTSAIL
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone (714) 540-9711

PARTS OR MATERIAL LIST

BOOM - CUTTER & KETCH W-43

APPLICATION: W43 BOOM

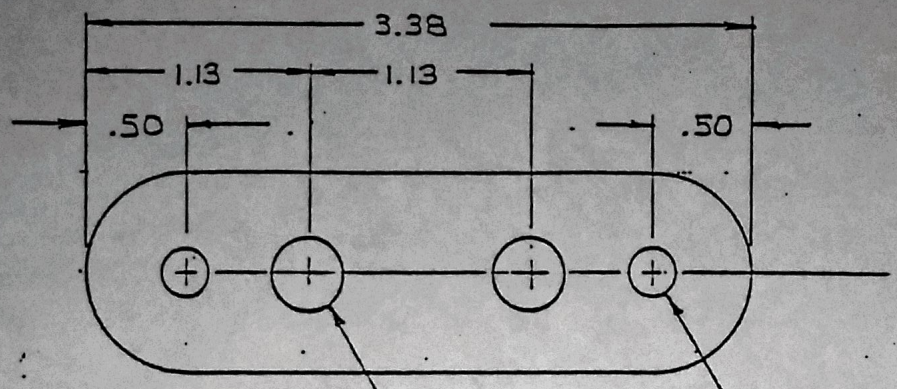
W-43

A — 9/1/-

ALL DIMENSIONS ARE IN INCHES
DO NOT SCALE DRAWING
NOTES UNLESS OTHERWISE SPECIFIED

9-B-5

A 13363 A



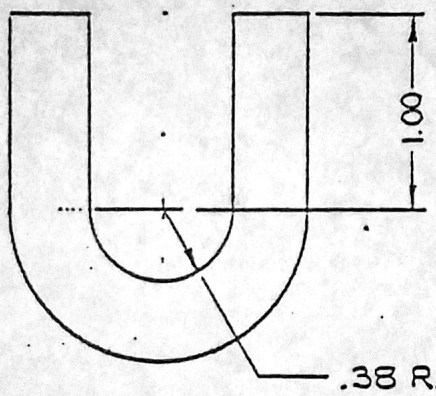
BASE DETAIL
MTRL - 1/4" 304 SS

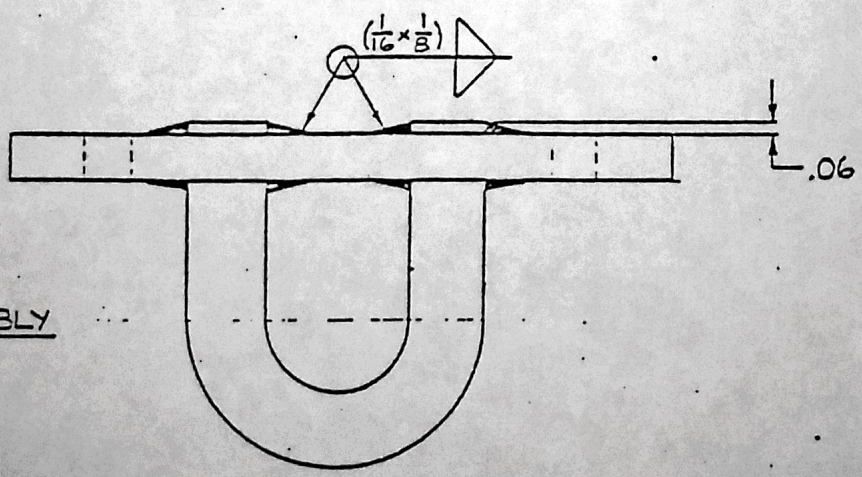
.39 ± .01 DIA.
THRU (2) REQ.

.27 ± .01 DIA.
THRU (2) REQ.

NOTES -
1) ALL DIMENSIONS IN INCHE
2) DO NOT SCALE DRAWING.
3) BREAK SHARP EDGES, REMOVE ALL BURRS
4) FINISH - ELECTROPOLISH

BALE DETAIL
MTRL - 3/8" 304 SS ROD





ASSEMBLY

QTY	PART NUMBER	DESCRIPTION	ITEM

PARTS OR MATERIAL LIST

WESTSAIL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 549-9711

BAIL , BOOM INTERNAL

DRAWN	DATE	MANUAL PAGE NUMBER
PHIL ARNOLD	9/76	

LTR	ENG. CHANGE NO.	DATE
A	577	9/76

REVISIONS

APPLICATION

NEXT ASSY	USED ON
	W 28.32 42.43

SIZE	DWG. NO.	REV
A	13363	A

SCALE FILL

SHEET 1 OF 1

SHEETS & MISC. RUNNING RIGGING No. 16222-02

	SHEETS & LINE				BLOCKS			
	QTY	LINE/WIRE SIZE	LENGTH	DASH No.	QTY	SCHAEFER No.	WESTSAIL PART No.	REMARKS
MAIN	1	1/2" LINE	145'	-04	3 1	07-03 (KORA) SK3257 (TRIN)	13040 13083	
JIB	2	7/16" LINE	75'	-05	2	07-62	13079	BLOCKS TO BE MOUNTED BY OWNER.
STAYS'L	1	7/16" LINE	75'	-06	2	05-03	13076	
MAIN OUTHAUL	1	7/16" LINE 1/2" LINE	4' 13'	-07				SUPPLIED BY SPAR MANUFACT.
STAYSAIL OUTHAUL	1	1/2" LINE	3'	-08				
MAIN TOPPING LIFT	1	7/16" LINE 7/16" LINE	40' 45'	-09		05-03	13076	
STAYSAIL TOPPING LIFT	1	5/16" LINE	35'	-10		03-05		BLOCK ON MAST
PENNANT	1	3/16" 7×19	21"	-23				
PENNANT	1	3/16" 7×19	18"	-24			–	
PENNANT	1	3/16" 7×19	4"	-25				
TRAVELLER CONTROL				-26				

HALYARDS & HALYARDS BLOCKS No. 16222-03

	HALYARDS (PRESTRETCH DACRON)					BLOCKS		
	DASH No	QTY	DIAMETER OF LINE	LINE LENGTH	REMARKS	QTY	SCHAEFER No.	WESTSAIL PART No.
MAIN	-11	1	1/2"	107'			MAST HEAD INSTALLED BY	SHEAVE MAST BUILDER
JIB	-12	1	1/2"	106'			MAST HEAD INSTALLED BY	SHEAVE MAST BUILDER
STAYSAIL	-13	1	1/2"	80'		1	05-03	13076

STANDING RIGGING No. 16222-01

TIP	1×1955 WIRE DIA	EYE SIZE	NOMINAL EYE TO EYE	SCHAEFER EYE TO EYE	B.P. TO B.P.	QTY	DASH No.	REMARKS
HEADSTAY	5/16"	5/8"	51'4 1/2"	51'4 1/2"	52'11 5/8"	1	-14	MARINE EYE TO MARINE EYE
BACKSTAY	5/16"	5/8"	53'5 1/2"	53'6 5/8"	55'5/8"	1	-15	MARINE EYE TO MARINE EYE
FORESTAY	5/16"	5/8"	34'7"	34'8 1/8"	36'2 1/8"	1	16	MARINE EYE TO MARINE EYE
UPPERS	5/16"	5/8"	48'4 1/4"	48'10 3/8"	50'4 3/8"	2	-17	MARINE EYE TO MARINE EYE
FORWARD LOWERS	5/16"	5/8"	22'10"	22'11 1/8"	24'5 1/8"	2	-18	MARINE EYE TO MARINE EYE
AFT LOWERS	5/16"	5/8"	23'1"	23'2 1/8"	24'8 1/8"	2	-19	MARINE EYE TO MARINE EYE
INTERMEDS	7×19 1/4" WIRE ROPE	1/4" NICRO PRESS	32'9 1/2"	32'10 5/8"	34'4 5/8"	2	-20	THIMBLE TO THIMBLE
BOBSTAY	1/2"	7/8"	8'-1/8"	–	10'1 7/8"	1	-21	MARINE EYE TO MARINE EYE
SPREADER LIFTS	5/16" VULCON	1/4"	10'4"	–	10'8"	2	-22	FORK TO ADJUSTER BARREL

TURNBUCKLE	WESTSAIL PART	QTY
5/8" TOGGLE 5/8" TOGGLE	13642	1
5/8" TOGGLE 5/8" TOGGLE	13642	1
5/8" TOGGLE 5/8" TOGGLE	13642	1
5/8" TOGGLE 5/8" TOGGLE	13642	2
5/8" TOGGLE 5/8" TOGGLE	13642	2
5/8" TOGGLE 5/8" TOGGLE	13642	2
5/8" TOGGLE 5/8" TOGGLE	13642	2
7/8" TOGGLE 5/8" TOGGLE	13643	1
–		

NOTES

1. ALL SWAGES TO MEET WESTSAIL STANDARDS
2. TURNBUCKLE SIZE IS NOMINAL PIN SIZES.
3. No. 16222-00 INCLUDES ALL ITEMS

REVISIONS			
B	#717	4/77	
A	#627	4-10-8	

WESTSAIL
275 McCormick, P.O. Box 1870
Costa Mesa, California 92628
Telephone (714) 540-0711

APPLICATION

RIGGING, STANDARD

16222-B

9-2-1

KIGGING LENGTHS

9-C-1

ALL FOR NAVTEC T/B EYE TO EYE
LENGTHS IN FEET - INCHES - EIGHTHS OF AN INCH

	28	32	42_S	42_T	42_K	42_Y	43_S	43_T	43_K	43_Y		
H/S	36-11-2	43-9-6	51-2-7	56-5-4	50-9-7		51-4-4	55-9-0		55-8-6		
F/S	26-2-4	30-8-2	35-9-3	39-4-4	34-1-5		34-7-0	39-2-0		39-2-0		
B/S	38-4-2	45-11-2	54-1-7	57-8-4	27 * -11-7		53-5-4	59-4-0		32-9-0		
FWD LOW	17-0-0	19-9-6	22-4-7	19-11-2	22-5-0		22-10-0	20-0-2		20-0-2		
AFT LOW	17-1-4	19-9-4	22-8-3	20-2-3	22-8-2		23-1-0	20-3-4		20-3-4		
INT	N/A	N/A	32-5-3	36-11-6	32-3-7		32-9-4	37-5-4		37-6-0		
UPR UP'R	34-2-0	42-1-2	48-5-7	53-0-0	48-3-5		48-9-2	53-6-0		53-6-0		
B/S					25-4-1					25-5-0		
					22-10-2					24-3-0	HIZZEN UPPERS	
					22-2-2					20-4-0	MIZ INTER MED.	
										13-5-0	LOW	
	RIGGER'S BOOK	16203-A #702	DWG 16221-B	#42 * 103 & #100 alpaard bitt-radius	16220-B	16222-B	RIGGER'S BOOK AS SHIPPED & VERIFIED ON 43 GROOVES			RIGGER'S BOOK		
		NEW BOOK ONLY			*upper rocker lower mast 25							

9-C-1

42-43

STANDING RIGGING

CUTTER

22	#10	MARINE	EYES
2	#12	"	"
4	#5	Fork	
4	#5	Turnbuckle 1/4 turnbuckle with 5/36 screws	
449'	5/16	1x19	Wire
10'	3/8	1x19	
45'	5/32	1x19	
[illegible]	[illegible]		

Add YAWL

4	#10		
12	#8		
140'	1/4	1x19	Wire

Add KETCH

4	#10		
8	#8		
110'	1/4	1x19	Wire

HOW TO ADJUST OR "TUNE" THF RIG

Begin with all rigging loose. It may be necessary to use some light machine oil on turnbuckle treads to protect them from galling. Be sure to wipe turnbuckles clean after adjustment is finished to keep it from getting on sails and sheets. During the following procedures, all spars should be kept in column. Rigging should never be "bar tight" and care should be taken to check mast step for signs of compression after and during any adjustment.

Preliminary adjustment should start with bobstay and boomkin stays. These should be tightened until firm without bending spars. Next, adjust the backstay, headstay, upper and lower shrouds, hand tight, with the mast in column. The headstay, backstay and upper shrouds should be tightened about 3 turns and then the forestay about 3 turns.

For the final adjustment, the boat should be sailed in a medium breeze about 8 to 10 knots. Sighting along the back side of the mast from deck level will indicate what further turnbuckle adjustment needs to be made to the windward side of the mast. The top of the mast may "hook" to windward. The mast should be straightened by tightening the lowers on the leeward side after you have come about. If while sighting along the mast, the "hook" is to leeward, tighten the upper shroud on the leeward side after you have come about. Turnbuckles should not be adjusted under a load. Repeat this procedure until the mast is straight on both tacks.

To improve windward performance you may wish to tighten the head and backstay. If you do, then when the boat is not being sailed they should be slacked off. After sailing the boat in a stiff breeze, it will be necessary to check for stretch and readjust the rigging.

Westsail Corporation, P. O. Box 1828, 275 McCormick Avenue, Costa Mesa, California 92626 (714) 549-9711

CUSTOMER SERVICE BULLETIN NO. 6

RIGGING SECTION

A good practice to follow with marine swagged rigging is to end for end all standing rigging at least once a year. This prevents moisture for standing in the lower eye for extended periods of time causing a corrosion problem later on. While end for ending the rigging all swags should be checked for cracking, all wire for fraying, and all turnbuckles and toggles for cracking also.

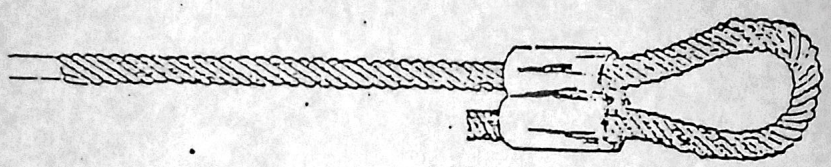
WESTSAIL STANDARD PRACTICE

HOW TO USE NICRO-PRESS FITTINGS:

When making a splice select the cable, thimble, and sleeve needed. Splicing will be easier if cables are cut with neat, non-frayed ends.

To make an eye or loop splice, for the cable as shown, it is usually convenient to make a large eye and then draw it down to proper size by pulling on the long section of the cable. This is particularly true when a thimble is used.

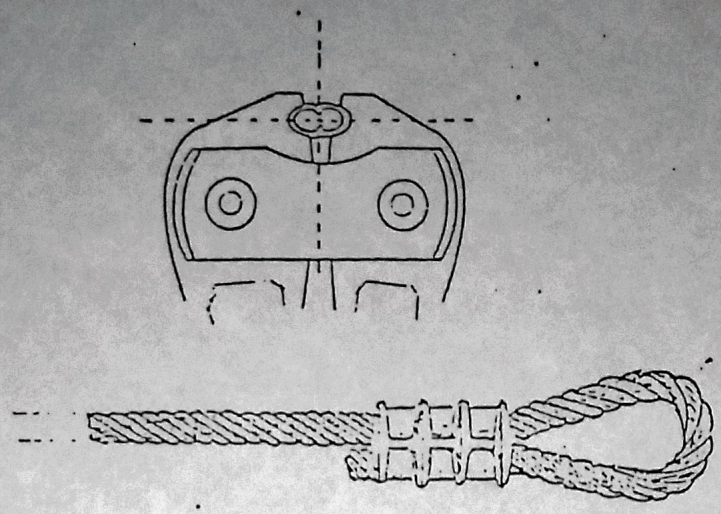
Sleeve before compressing.



Allow the end of the cable to extend beyond the sleeve, see TABLE I. When the sleeve is pressed it will elongate somewhat. It is best to position the cable initially so that the end will extend slightly beyond the sleeve, even after the pressing is complete. If the end of the cable is inside the sleeve the splice may not hold the full rated load.

Before using the tool, make sure that it is in good working order and in proper adjustment.

How to use Nicro-Press Fittings (Continued):



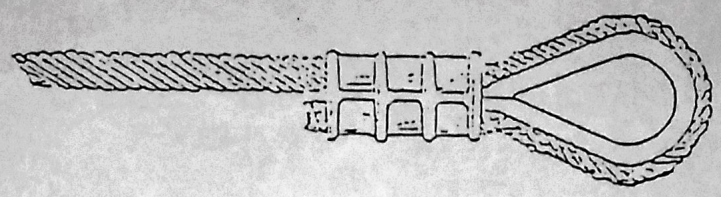
Be sure to use the proper tool as specified in TABLE I.

TABLE I

Cable Size	Tool Number	Number of Presses	Cable Excess Out of Sleeve
1/16	51-C-887	1	1/16
3/32	51-G-887	1	3/32
1/8	51-M-850	3	1/8
5/32	51-P-850	3	5/32
3/16	51-X-850	4	3/16

How to use Nicro-Press Fittings (Continued):

Place the sleeve in the tool as shown, so that the two parts of the cable are squeezed together. Then close the tool completely.



Make the required presses on each sleeve - see TABLE I.

When using a sleeve requring three compressions make the center compression first. The compression next to thimble second. The one furthest from thimble last.

To make a satisfactory Nicro-press oval sleeve splice, it is important that the amount of sleeve pressure be kept uniform. The splices should be checked with the gauge provided with the tool.

When using the gauge it should be held so that it contacts the compressed portion of the sleeve at the major axis. When the gauge is not available sleeves can be checked with calipers.

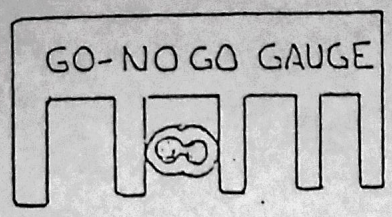
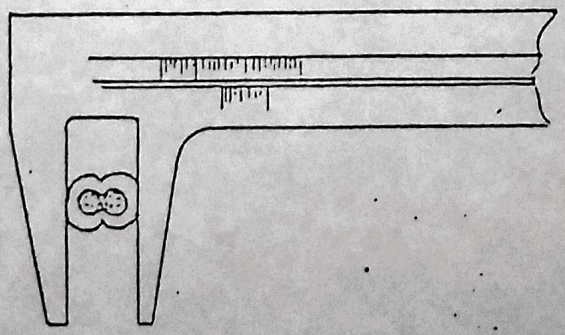


TABLE II

Tolerance Oval Sleeves

1/16	.194 ± .005
3/32	.261 ± .005
1/8	.339 ± .005
5/32	.381 ± .005
3/16	.450 ± .005



Alternate method for checking if gauge is not available. See TABLE II.

9-C-1

YACHT SPECIALTIES COMPANY, INC.

FORESTAY & SHROUD RELEASE LEVERS

Fig. 350 Forestay Release Lever
A neat and compact forestay release of cast manganese bronze. Furnished with threaded stud for swaging on stay which allows adjustment of stay tension and eliminates need of turnbuckle. Base plate has tapped spud for tie rod to stem or keel and removable toggle pin for complete disconnect.

Size	Wire size
#1	5/32", 3/16", 7/32"
#2	1/4", 9/32"
#3	5/16", 3/8"

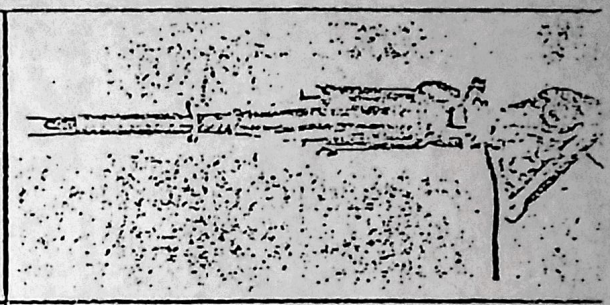
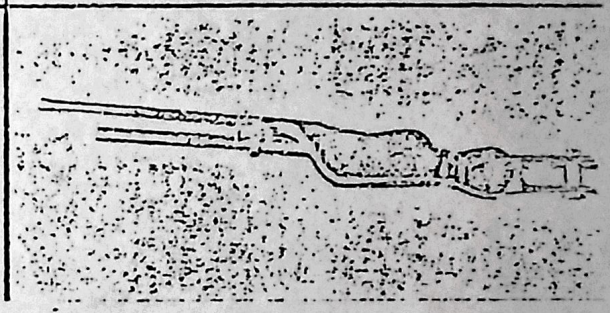


Fig. 351 Shroud Release Lever
Same lever as Fig. 350 forestay release less base. Used on forward lower shrouds so they can be released to allow flatter trim of Genoa Stays'l.

Size	Wire size
#1	5/32", 3/16", 7/32"
#2	1/4", 9/32"
#3	5/16", 3/8"



NOTE: REPLACES FORESTAY TURNBUCKLE - TO ALLOW FORESTAY TO BE MOVED TO EASE USE OF DECK WINCH.

QTY	PART NUMBER	DESCRIPTION	ITE

PARTS OR MATERIAL LIST

VESTAL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 549-9711

LEVER, FORESTAY RELEAS
YACHT SPECIALTIES

DRAWN	DATE	MANUAL PAGE NUMBER
PHIL ARNOLD	5/76	

APPLICATION		SIZE	DWG. NO.	R
NEXT ASSY	USED ON	A	13700	A
—	OPTIONAL			

LTR	ENG. CHANGE NO.	DATE
REVISIONS		

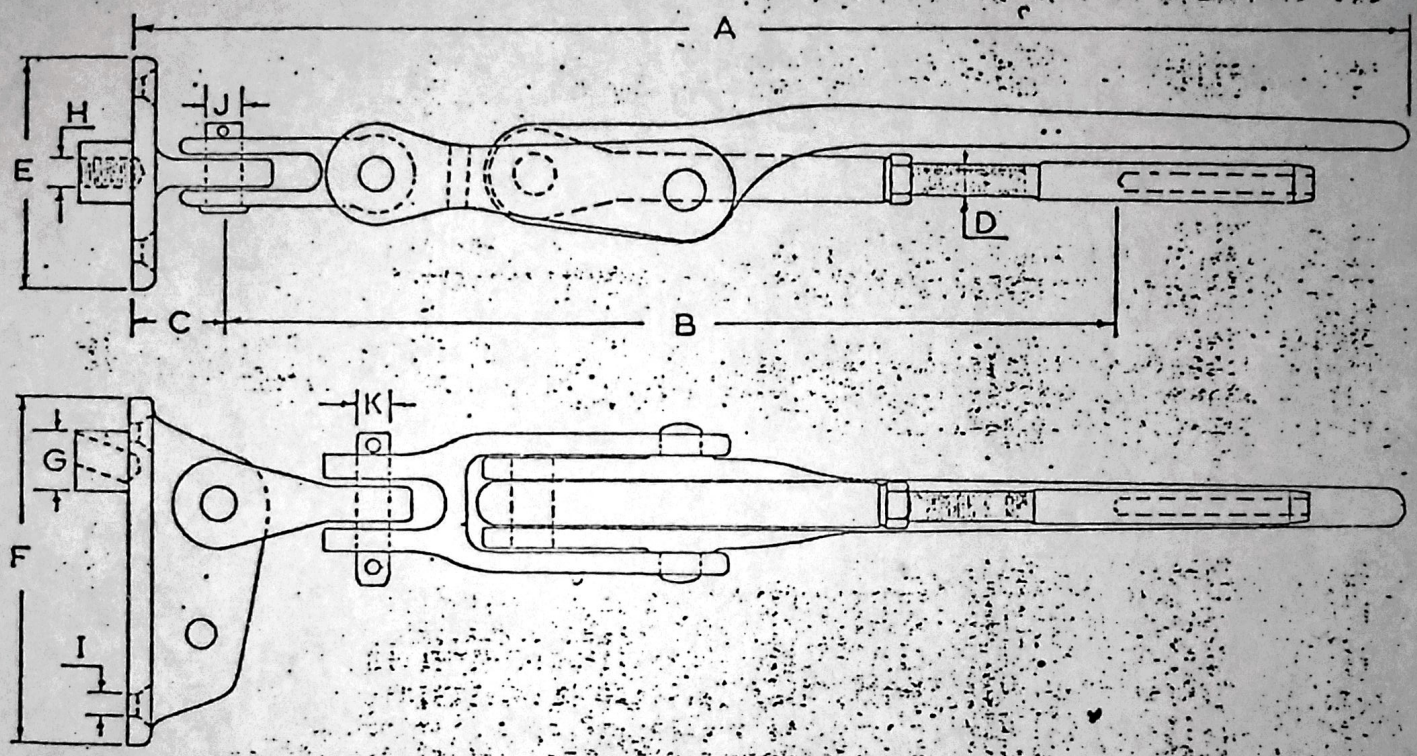
SCALE NONE

SHEET 1 OF 2

9-C-1

A | 13700 | A

DIMENSIONS & ENGINEERING DATA FOR FIG. 350-351 RELEASE LEVERS



LEVER SIZE	CABLE SIZE	A	B	C	D	E	F	G	H	I	J	K
1	5/32"	15 1/2"	11 3/4"	1 1/8"	5/16"-N.F.	2 7/8"	4 1/4"	3/4"	3/8"-N.C.	1/4"	7/16"	7/16"
	3/16"	15 1/2"	12"	1 1/8"	3/8"-N.F.	2 7/8"	4 1/4"	3/4"	3/8"-N.C.	1/4"	7/16"	7/16"
	7/32"	15 1/2"	12"	1 1/8"	3/8"-N.F.	2 7/8"	4 1/4"	3/4"	3/8"-N.C.	1/4"	7/16"	7/16"
2	1/4"	18 1/2"	14"	1 3/8"	1/2"-N.F.	3 1/8"	5 1/4"	1"	1/2"-N.C.	5/16"	5/8"	5/8"
	9/32"	18 1/2"	14"	1 3/8"	1/2"-N.F.	3 1/8"	5 1/4"	1"	1/2"-N.C.	5/16"	5/8"	5/8"
3	5/16"	21 1/2"	15 1/4"	1 3/8"	9/16"-N.F.	3 1/8"	5 1/4"	1"	1/2"-N.C.	5/16"	5/8"	5/8"
	3/8"	21 1/2"	15 1/4"	1 3/8"	9/16"-N.F.	3 1/8"	5 1/4"	1"	1/2"-N.C.	5/16"	5/8"	5/8"

QTY	PART NUMBER	DESCRIPTION	ITE

PARTS OR MATERIAL LIST

WESTSAIL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 549-9711

LEVER, FORESTAY RELEASE
YACHT SPECIALTIES

DRAWN	DATE	MANUAL PAGE NUMBER
PHIL ARNOLD	3/76	

SIZE	DWG. NO.	RE
A	13700	A

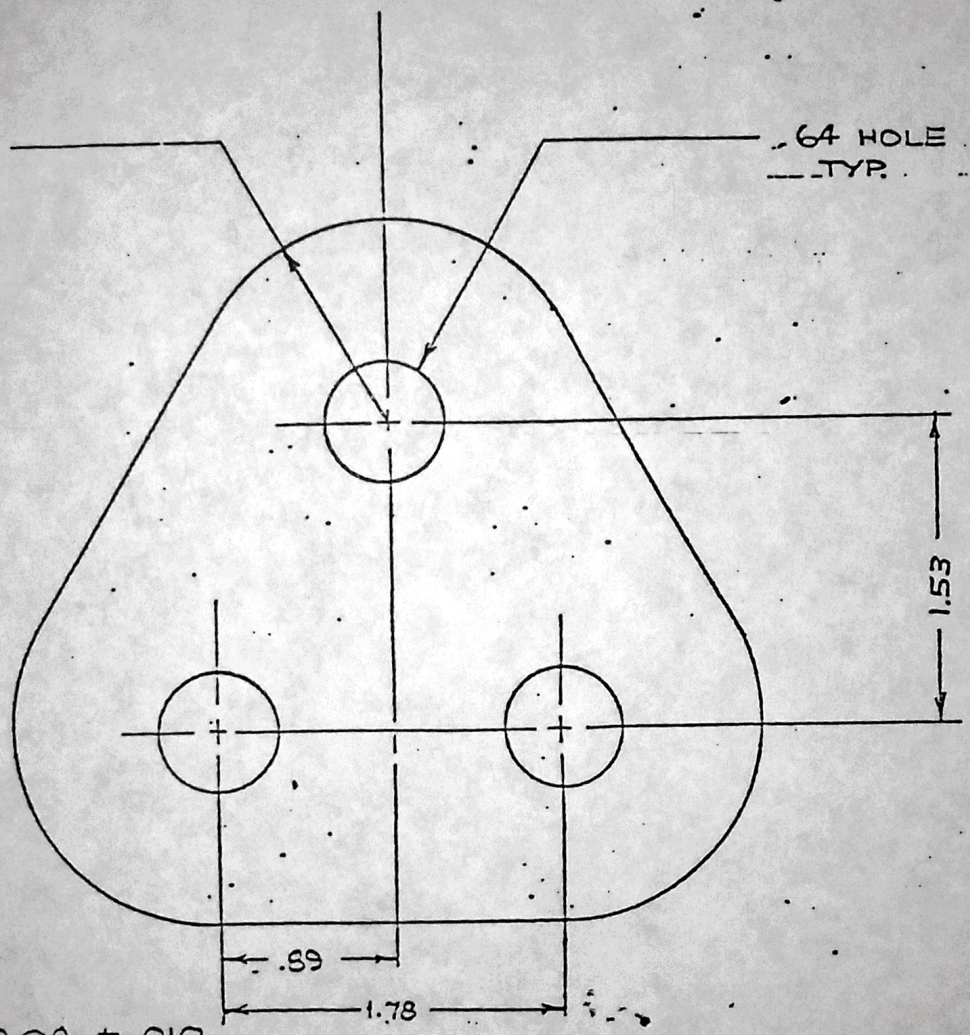
LTR	ENG. CHANGE NO.	DATE
REVISIONS		

NEXT ASSY	USED ON
–	OPTIONAL

SCALE NONE

SHEET 2 OF 2

9-C-9



HOLES -0.00 +.010

(4) TOLERANCES ± .030

(3) ELECTRO-POLISH

(2) BREAK ALL SHARP EDGES

(1) ALL DIMENSIONS IN INCHES

NOTES:

MATERIAL - 1/8" 304 SS

2 PARTS REQ. FOR ASSEMBLY

QTY	PART NUMBER	DESCRIPTION	ITEM

PARTS OR MATERIAL LIST

WESTSAIL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 549 9711

PLATE, BACKSTAY
TRIATIC W42-43

DRAWN	DATE	MANUAL PAGE NUMBER
PHIL ARNOLD	5/76	

LTR	ENG. CHANGE NO.	DATE
A	ECO 282	5/12/7

REVISIONS

APPLICATION	
NEXT ASSY	USED ON
	W42 - 43

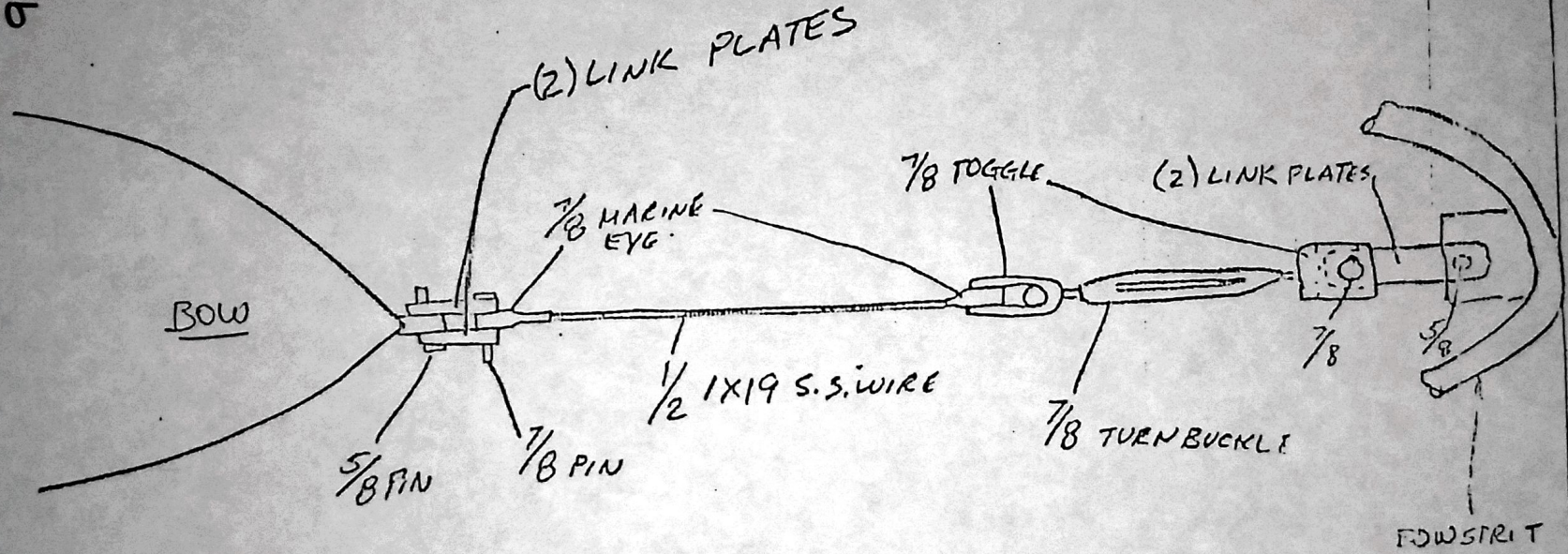
SIZE A | DWG. NO. 13649

SCALE FULL

SHEET 1 OF 1

3/8" TO 1/2" BOBSTAY CONVERSION

9-6-3



TOP VIEW

ITEM	QTY	PART NUMBER	DESCRIPTION
			PARTS OR MATERIAL LIST

WESTSAIL®
275 McCormick, P.O. Box 1328
Costa Mesa, California 92626
Telephone: (714) 549-9711

PLATE, LINK 1/2 X 3/8 TO 7/8 TURNBUCKLE

DRAWN	DATE	MANUAL PAGE NUMBER	SIZE	DWG. NO.
[illegible]	2-16-77		A	12769

APPLICATION

USED ON

NEXT ASSY

SCALE

SHEET 2 OF 2

LTR	ENG. CHANGE NO	DATE

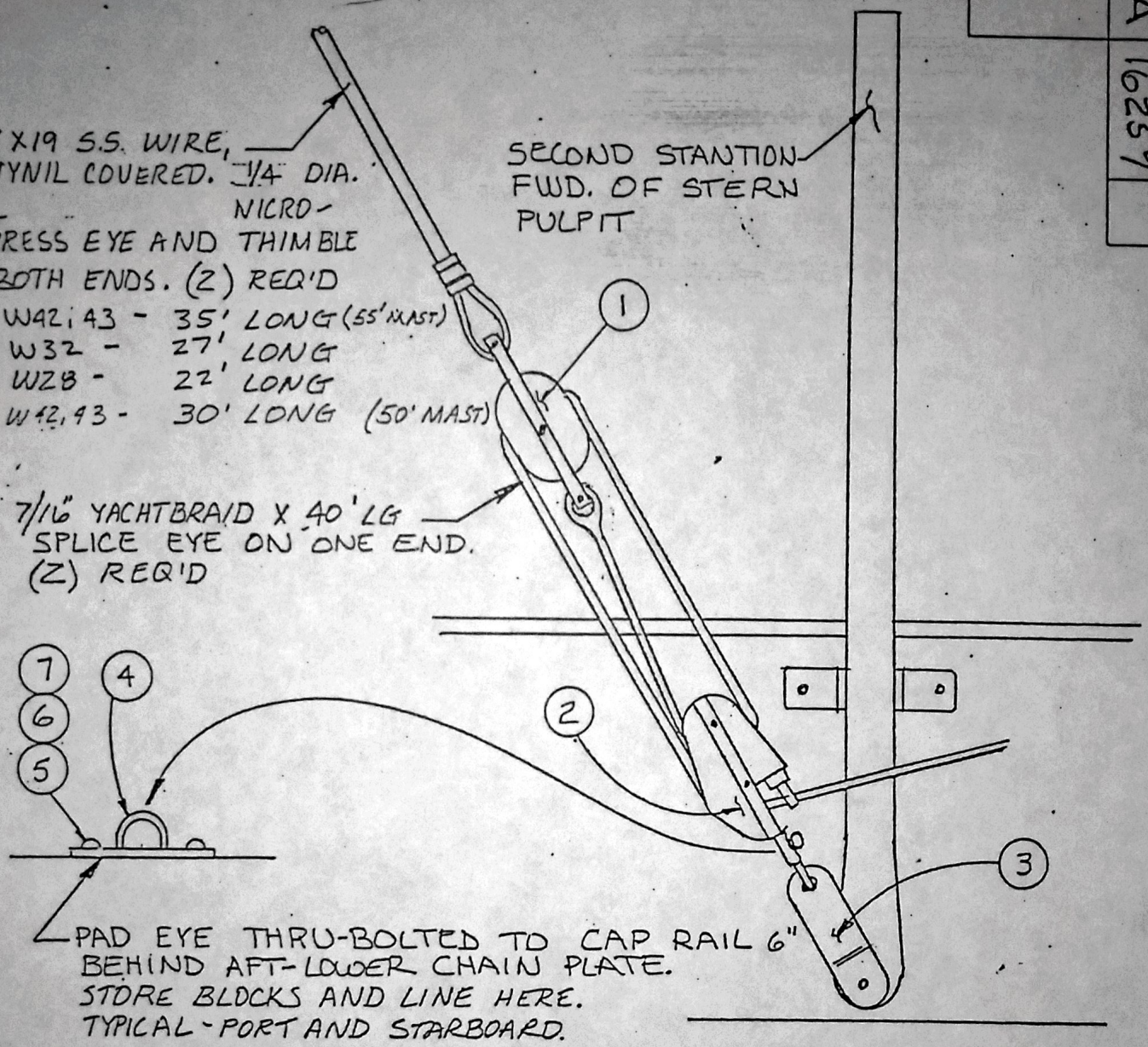
REVISIONS

RUNNING BACKSTAY OPTION

All boats have been equipped with running backstay tangs on the mast. These tangs are located on the sides of the mast at the same height as the forestay attachment. It is recommended for better sailing performance under heavy weather conditions such as reefed down with staysail and main only, that the optional running backstay be set in order to tighten up the forestay and take some of the working out of the mast. A simple running backstay option, part number ~~16258,~~ is available from Westsail which consists of two running backstay wires with pennants on the end which run through blocks on deck to the unused jib sheet winch.

9-C-4

A 16259



QTY	PART NUMBER	DESCRIPTION	ITEM
4	10163	NUT, LOCK SS. 1/4-20	7
4	10125	FLAT WASHER SS 1/4	6
4	10039	SCREW PHMS S.S. 1/4-20 X 3" LG	5
2	13506	PAD EYE, S.S. SCH 78-06	4
2	13658	TANG, RUNNING BACKSTAY	3
2	13089	DBL BLK W/ CAM SCH 24-49	2
2	13006	BLOCK WITH BECKT. SCH 07-15	1

PARTS OR MATERIAL LIST

LTR	ENG. CHANGE NO.	DATE
C	774	5.5.77
B	772	3.24.77

REVISIONS

WESTSAIL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 549-9711

BACKSTAY, RUNNING SYSTEM 28, 32, 42, 43

DRAWN	DATE	MANUAL PAGE NUMBER
G. WARD	3.24.77	

NEXT ASSY	USED ON
	28, 32, 42, 43

APPLICATION

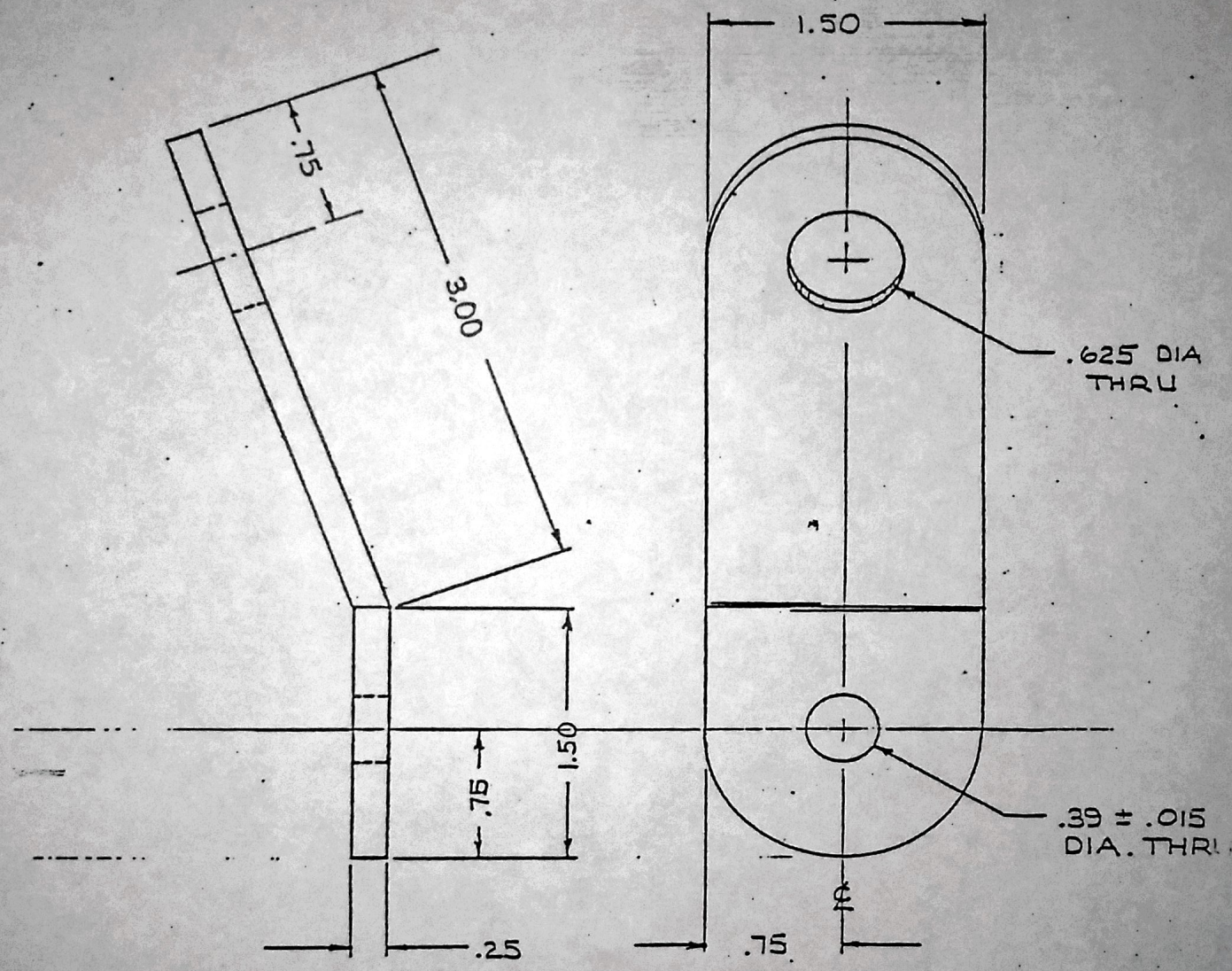
SIZE	DWG. NO.	REV.
A	16259	C

SCALE NONE

SHEET 1 OF 1

9-C-4

1) ALL DIMENSIONS IN INCHES
2) TOL: .XX ± .03 ANGLES ± 2°
3) MATERIAL: 304 SS
4) TAG WITH PART NO. 13658
5) ELECTRO-POLISH
6) REMOVE ALL BURRS ; BREAK SHARP EDGES



QTY	PART NUMBER	DESCRIPTION

PARTS OR MATERIAL LIST

WESTSAIL®
275 McCormick, P.O. Box 1828
Costa Mesa, California 92626
Telephone: (714) 549-9711

TANG, RUNNING BACKSTAY

DRAWN	DATE	MANUAL PAGE NUMBER
PHIL ARNOLD		

LTR	ENG. CHANGE NO.	DATE
B	ECO 567	

REVISIONS

NEXT ASSY	USED ON
	W 28, 32, 42, 43

APPLICATION

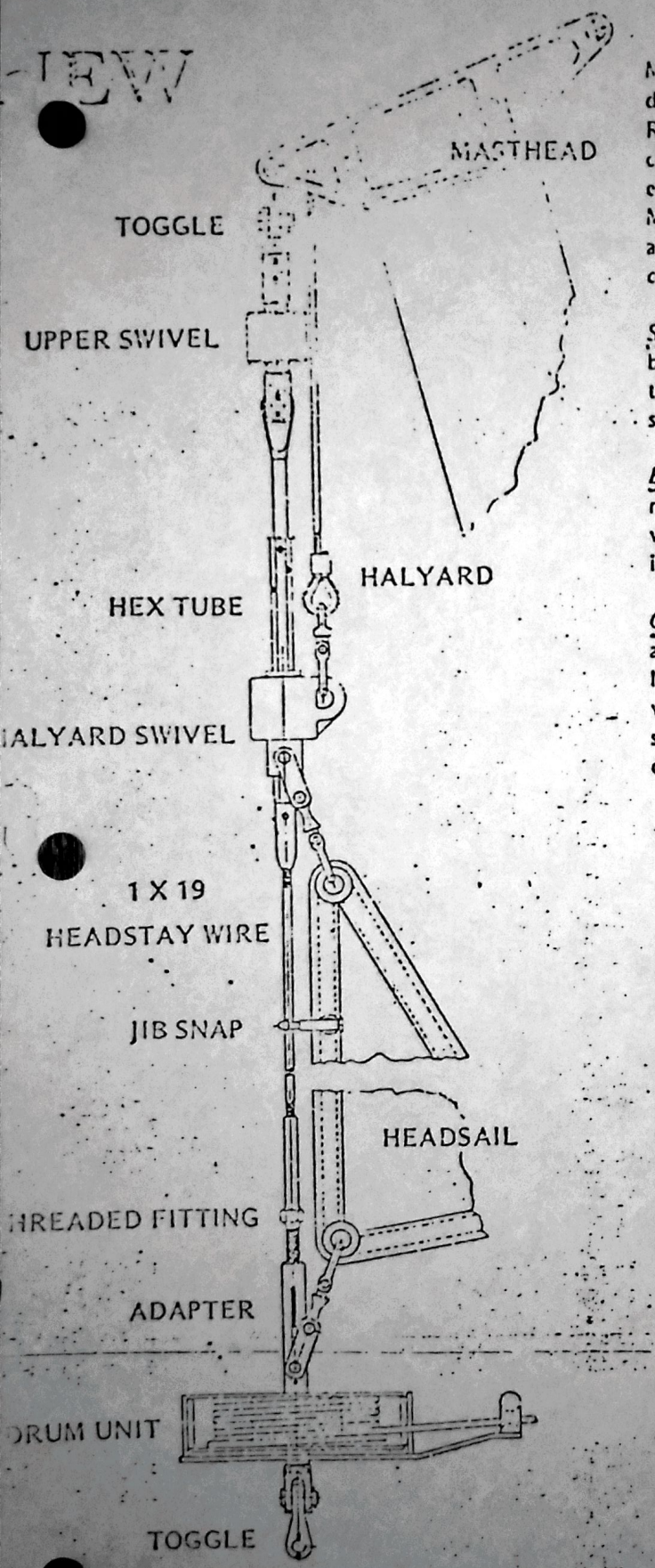
SIZE	DWG. NO.
A	13658

SCALE FULL

SHEET 1 OF 1

ROLLER-STAY JIB FURLING SYSTEM

9-C-5



ROLLER-STAY JIBAWAY (patent pending)

Mariner's ROLLER-STAY JIBAWAY is the latest development in roller furling headsail systems. The ROLLER-STAY JIBAWAY allows the roller furling of any conventional hanked-jib. Sails can be easily changed and each subsequent sail will retain the furling capability. The Mariner ROLLER-STAY JIBAWAY offers several advantages to the sailor who demands safety, economy and convenience.

SAFETY Each ROLLER-STAY JIBAWAY is designed to be the same strength as the wire used in the headstay. For the cruising yachtsman 1 X 19 wire continues to be the safest choice of material for standing rigging.

ECONOMY The ROLLER-STAY JIBAWAY does not require expensive luff alterations to existing sails. No rigid wire nor special luff tape is needed. Any headsail in your inventory can be roller furled.

CONVENIENCE Conventional roller furling jibs are awkward to change since they must be set flying. When lowered the sail is difficult to stow because the rigid luff wire requires it to be coiled into a large diameter. Ease of sail changing and conventional sail handling are important conveniences of the ROLLER-STAY JIBAWAY.

OPERATION OF THE ROLLER-STAY JIBAWAY

1) Tack the sail to the adapter fitting on the JIBAWAY Drum Unit, hank the jibsnaps onto the headstay and attach the halyard swivel to the jib head. Lead the sheets as usual.

2) Hoist the sail with the halyard until the halyard swivel seats onto the hex tube. Apply the final amount of halyard tension then cleat it.

3) The hoisted sail may now be furled by hauling on the JIBAWAY Drum Unit control line. The jib will furl around the rotating headstay because it is held fast to the stay at the head and tack.

4) To unfurl the sail ease the JIBAWAY Drum Unit control line while simultaneously hauling in a jibsheet. Any Headsail can be furled and unfurled in this manner. Short-luffed sails require the addition of a pendant so that the halyard swivel reaches the hex tube when the sail is hoisted.

MARINER COMPANY
1714 17th ST.
SANTA MONICA, CA. 90404
(213) 393-6911

ROLLER-STAY JIBAWAY ORDERING INFORMATION

trademark

9-C-5

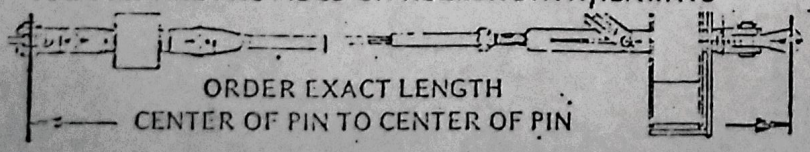
MAGNITUDE	000 SERIES	200 SERIES	300 SERIES
ULTIMATE STRENGTH	6500 LBS.	12,800 LBS.	16,000 LBS.
APPROXIMATE BOAT LENGTH	UNDER 25 FT.	25 TO 36 FT.	36 TO 50 FT.
APPROXIMATE HEADSTAY LENGTH	UNDER 30 FT.	31 TO 45 FT.	46 TO 60 FT.
MAXIMUM HEADSAIL AREA RECOMMENDED	250 SQ. FT.	600 SQ. FT.	900 SQ. FT.
RECOMMENDED HEADSTAY DIAMETER	7/32 IN.	1/4 OR 5/16 IN.	5/16 OR 3/8 IN.

	000 SERIES FIGURE NUMBER	000 SERIES PRICE	200 SERIES FIGURE NUMBER	200 SERIES PRICE	300 SERIES FIGURE NUMBER	300 SERIES PRICE
JIBAWAY UPPER UNIT	Fig. 089	$50.	Fig. 298	$90.	Fig. 396	$160.
ROLLER-STAY HALYARD SWIVEL	Fig. 052	120.	Fig. 252	120.	Fig. 352	120.
ROLLER-STAY HEX TUBE	Fig. 053	50.	Fig. 253	50.	Fig. 353	50.
ROLLER-STAY ADAPTER SET	Fig. 054	50.	Fig. 254	60.	Fig. 354	80.
JIBAWAY DRUM UNIT	Fig. 087	100.	Fig. 297	150.	Fig. 395	240.
		$370.		$470.		$650.

Headstay assembly NET prices: These include installation of Hex Tube, swaged EYE and swaged SCREW STUD.
7/32" wire — $12.00 + .75 per foot of wire.
1/4" wire — 14.50 + 1.00 per foot of wire.
5/16" wire — 25.00 + 1.40 per foot of wire.
3/8" wire — 30.00 + 2.00 per foot of wire.

For ½" pins & ½" toggles on 200 Series add $44.00.

TOGGLES ARE PROVIDED ON ROLLER-STAY JIBAWAYS



ROLLER-STAY	TOGGLE SIZE
000 SERIES	5/16" PIN DIA.
200 SERIES	3/8" PIN DIA.
300 SERIES	1/2" PIN DIA.

ORDER	FIGURE	DESCRIPTION	UNIT PRICE	TOTAL
		JIBAWAY UPPER UNIT		
		ROLLER-STAY HALYARD SWIVEL		
		ROLLER-STAY HEX TUBE (SPECIFY WIRE DIA. IN)		
		ROLLER-STAY ADAPTER SET		
		JIBAWAY DRUM UNIT		
			SUB-TOTAL	
			SALES TAX	
			GRAND TOTAL	

EXACT ROLLER-STAY LENGTH PIN TO PIN FT. _____ IN. _____ WIRE DIAMETER _____

CUSTOMER
STREET
CITY STATE ZIP
BOAT TYPE _____ LOA _____ LARGEST HEADSAIL AREA

10-15-75

	DRAWING	LUFF	LEECH	FOOT	AREA	WGT.	MAT'L
MAIN		44.50	46.00	16.60	360	9.25	DACRON
MIZZEN		26.85	27.25	10.00	132	9.25	DACRON
STAYSAIL		33.0	28.75	11.75	165	8.25	DACRON
YANKEE		50.00	37.75	23.75	425	7.25	DACRON
GENOA		50.00	46.91	32.50	735	6.50	DACRON
REACHER		50.00	44.25	34.17	735	3.80	DACRON
DRIFTER		50.00	46.00	35.75	788	2.20	NYLON
WORKING JIB		47.50	34.00	20.00	375	8.25	DACRON
GENOA STAYSAIL		32.85	37.91	17.33	254	7.25	DACRON
MIZZEN STAYSAIL		33.50	25.50	28.75	315	2.20	NYLON
STORM JIB		21.75	15.42	13.50	100	9.25	DACRON
STORM TRYSAIL					120	9.25	DACRON
SPINNAKER			SL 50.81	SMW 34.20	–	1.5	NYLON

SAIL AREA

STANDARD WORKING SAILS 1081 $^{D'}$

100% Δ 966 $^{D'}$

1-0-6

WESTSAIL 42-43 KETCH

9-D-1

#9 MAY 17, 1976

PLEASE MAKE THE FOLLOWING ADDITIONS TO YOUR WESTSAIL 42/43 OPTIONS LIST:

STANDARD SAILS PACKAGE--WESTSAIL 42/43, TALL RIG CUTTER: $ 2,794.
(10% discount if purchased as a package:main,stay,Yankee)

COST IF PURCHASED SEPARATELY:

MAINSAIL, 404 SQ. FT.	$1,210
STAYSAIL, 206 SQ. FT.	$ 600
YANKEE JIB, 603 SQ. FT.	$1,295
GENOA, 150%, 845 SQ.FT.	$1,435