

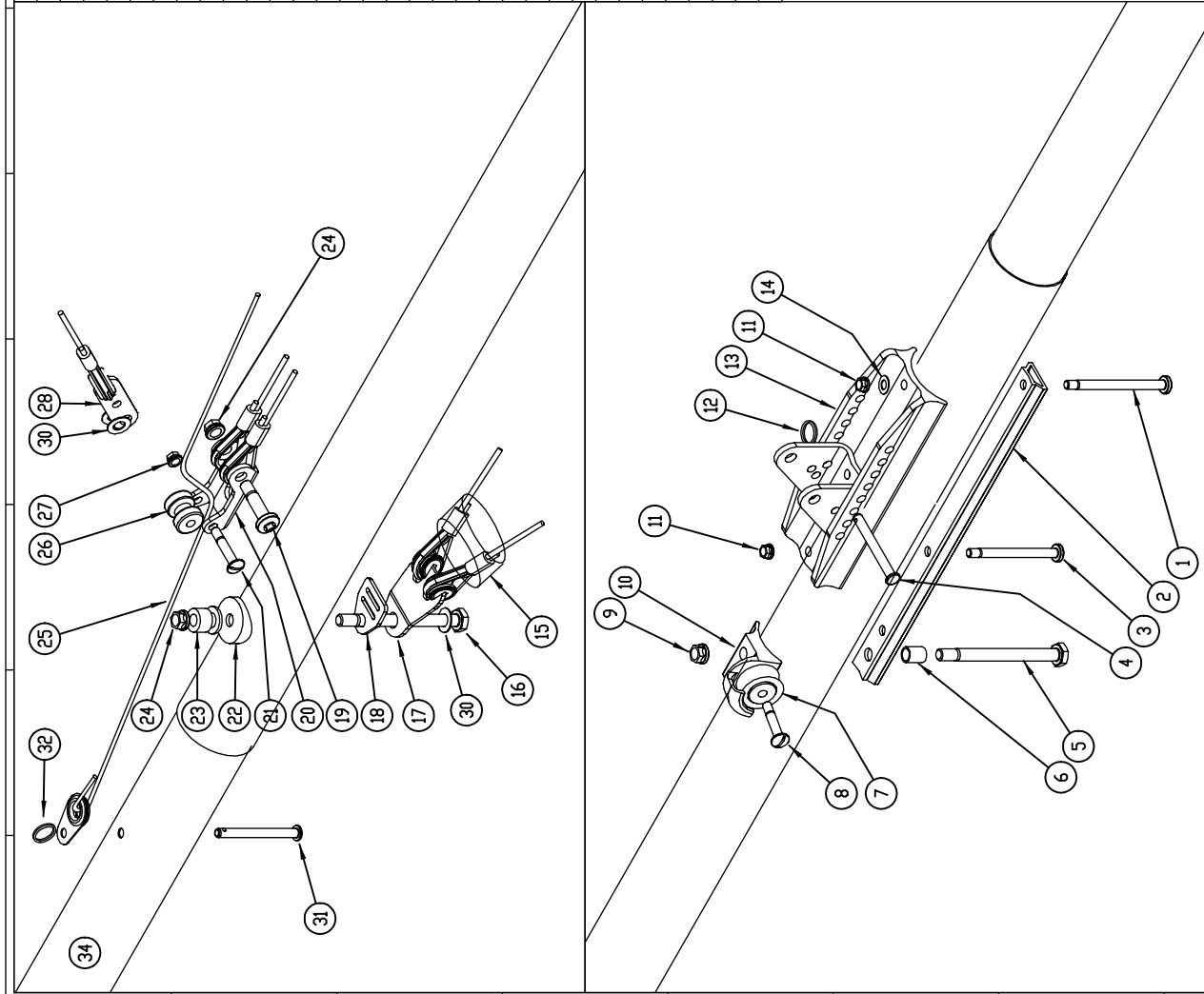
Ultra Sport 135, 147, 166

Assembly Diagrams

Table of Contents

<u>Drawing ID</u>	<u>Drawing Description</u>	<u>Page No</u>
82E01	Ultra Sport 147 Middle/Rear Keel	2
82E02	Ultra Sport 147 VG Assembly	3
82E03	Ultra Sport 147 Crossbar Assembly	4
83E04	Ultra Sport 147 Noseplate Assembly	5
82E05	Ultra Sport 147 Kingpost Assembly	6
84E01	Ultra Sport 135 and 166 Rear Keel	7
84E02	Ultra Sport 135 and 166 Middle Keel	8
84E03.1	Ultra Sport 135 and 166 Cam VG	9
84E04.1	Ultra Sport 135 and 166 Crossbar Center	10
84E05	Ultra Sport 135 and 166 Noseplate	11
84E06	Ultra Sport 135 and 166 Kingpost	12
80E06	VG Control Bar Assembly	13
82E07	VG Folding Basetube Assembly	14
82E09	Ultra Sport Rear Leading Edge Assembly	15
NA	Ultra Sport Control Bar Specifications	16
NA	Ultra Sport 147 Airframe	17
NA	Ultra Sport 166 Airframe	18
NA	Ultra Sport 135 Airframe	19
NA	Ultra Sport 166 Euro Airframe	20
NA	Control Bar Apex Button Lock	21

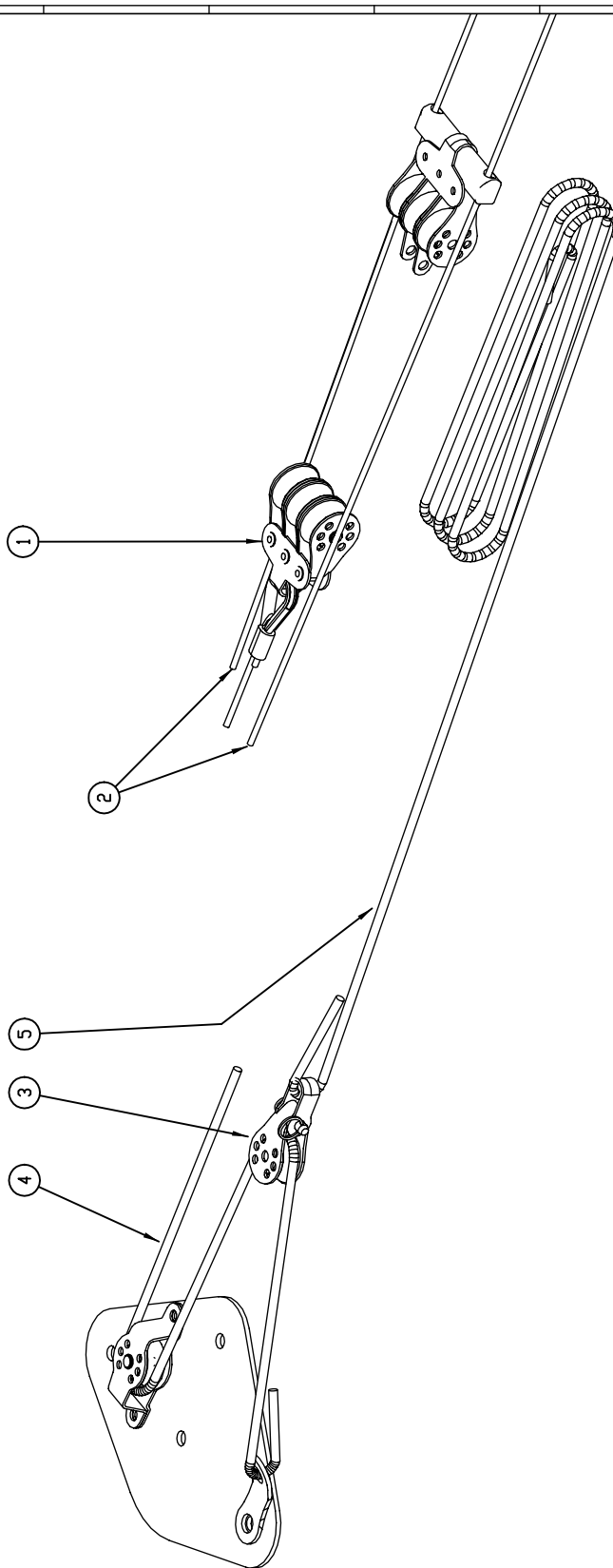
ID	PART NO	DESCRIPTION	QNT
1	10C-4341	BOLT NAS 623-3-34	1
2	20G-2103	TRACK LAYFLAT CBAR APEX SHORT2	1
3	10C-4301	BOLT NAS 623-3-30	1
4	10G-1510	CLEVIS PIN MS20392-2C51	1
5	10A-2271	BOLT AN4-27A	1
6	10T-3100	SPACER SS .313 * .028 * .390	1
7	20P-1230	PULLEY HARKN SHEAVE TOP LEG VG	1
8	10B-1101	BOLT AN23-10A	1
9	10N-1740	CLINCH NUT 1/4 MS21042-4	1
10	20G-1510	BRACKET VG PULLEY KEEL MOUNT	1
11	10N-1730	CLINCH NUT 3/16 MS20142-3	2
12	10P-1100	SAFETY RING AN 9491 SMALL	1
13	20G-1312	CG BRACKET KP HANG 95	1
14	10U-1130	WASHER STEEL AN960-10	1
15	15A-1007	FRICTION CAP 7/8	1
16	10A-2301	BOLT AN4-30A	1
17	40P-3301	WIRE SET BOTTOM REAR BALL SWDG	1
18	20E-2321	TANG 1 HOLE 2 SLOT 5/8 WEBBING	1
19	10C-5121	BOLT NAS 623-4-12	1
20	20A-1601	BRACKET, KEYHOLE TYPE LAYFLAT	1
21	10B-1161	BOLT AN23-16A	1
22	15F-1602	STAND-OFF 1/8	1
23	20G-2901	COLLAR KEYHOLE TANG BOLT	1
24	10N-1740	CLINCH NUT 1/4 MS21042-4	2
25	45K-1502	XBAR PULLBACK ROPE - XC	1
26	15K-1001	PULLEY DELRIN KEYHOLE BRACKET	1
27	10N-1730	CLINCH NUT 3/16 MS20142-3	1
28	40P-2401	WIRE TOP REAR BALL SWEDG 3/32	1
30	10U-1140	WASHER STEEL AN960-416	2
31	10G-1570	CLEVIS PIN MS20392-2C57	1
32	10P-1100	SAFETY RING AN 9491 SMALL	1
34	15B-1612	ENDCAP 1 3/4 .049	1



TITLE: Ultra Sport Middle and Rear Keel				T.U.S. .X ± .05 .XX ± .015 XXX ± .003 .XXXX ± .0005 ANGLES ± 1/2°	
WILLS WING 500 BLUERIDGE AVE • ORANGE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647	PART NO:	DOCUMENT ID:	REVISED:	DRAWN:	SCALE:
	NA	82E01		12-01-96 sp	NA

Ultra Sport 147 Middle/Rear Keel

ID	PART NO	DESCRIPTION	QNT
1	40P-5008	WIRE XBAR CENTER VG TRIPLE BLK	1
2	40P-4207	WIRE XBAR SWEEP XC SET SPREADR	1
3	20P-1211	PULLEY HARKN SINGLE W/SHACKLE	1
4	45K-1501	VG ROPE - XC LOWER	1
5	30J-3101	CORD - 4mm ACCESSORY PER FOOT	10



WALLS WING

500 BLUERIDGE AVE. • DRANCE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647

Ultra Sport VG Assembly

TITLE:

T.U.S. .X ± .05

.XX ± .015

.XXX ± .003

.XXXX ± .0005

ANGLES ± 1/2°

SCALE: NA

DRAWN: 12-01-96 SP

REVISED:

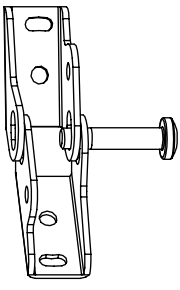
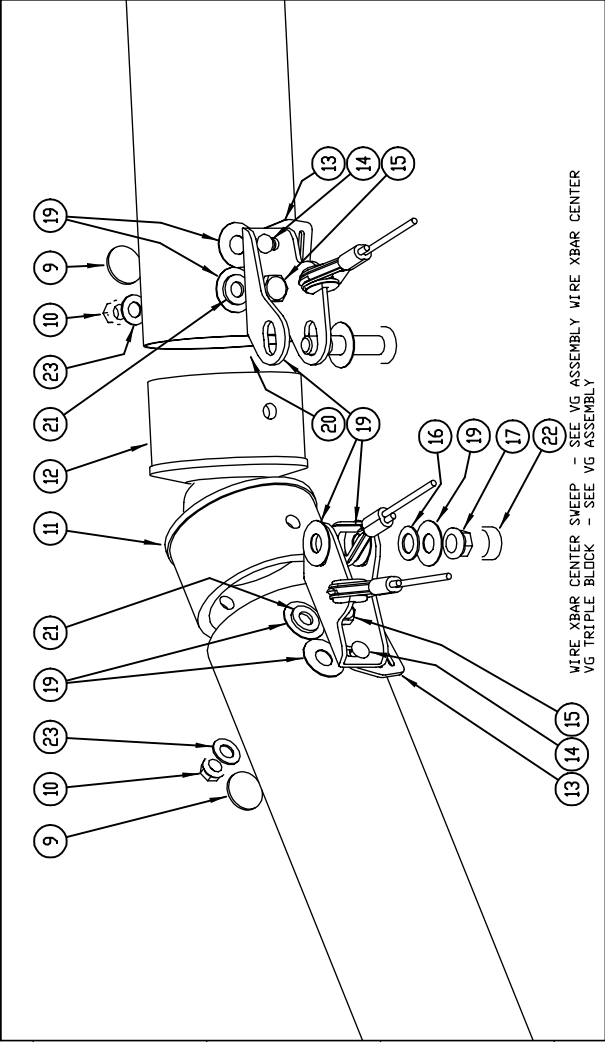
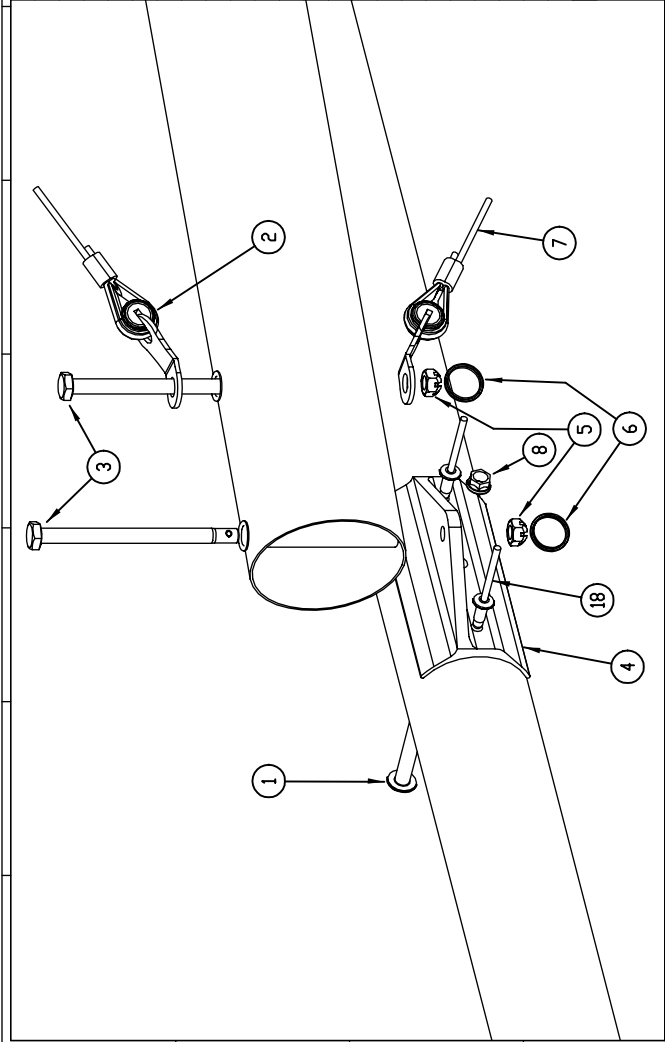
DOCUMENT ID: 82E02

DWG ID: 82E02.DWG

PART NO: NA

Ultra Sport 147 VG Assembly

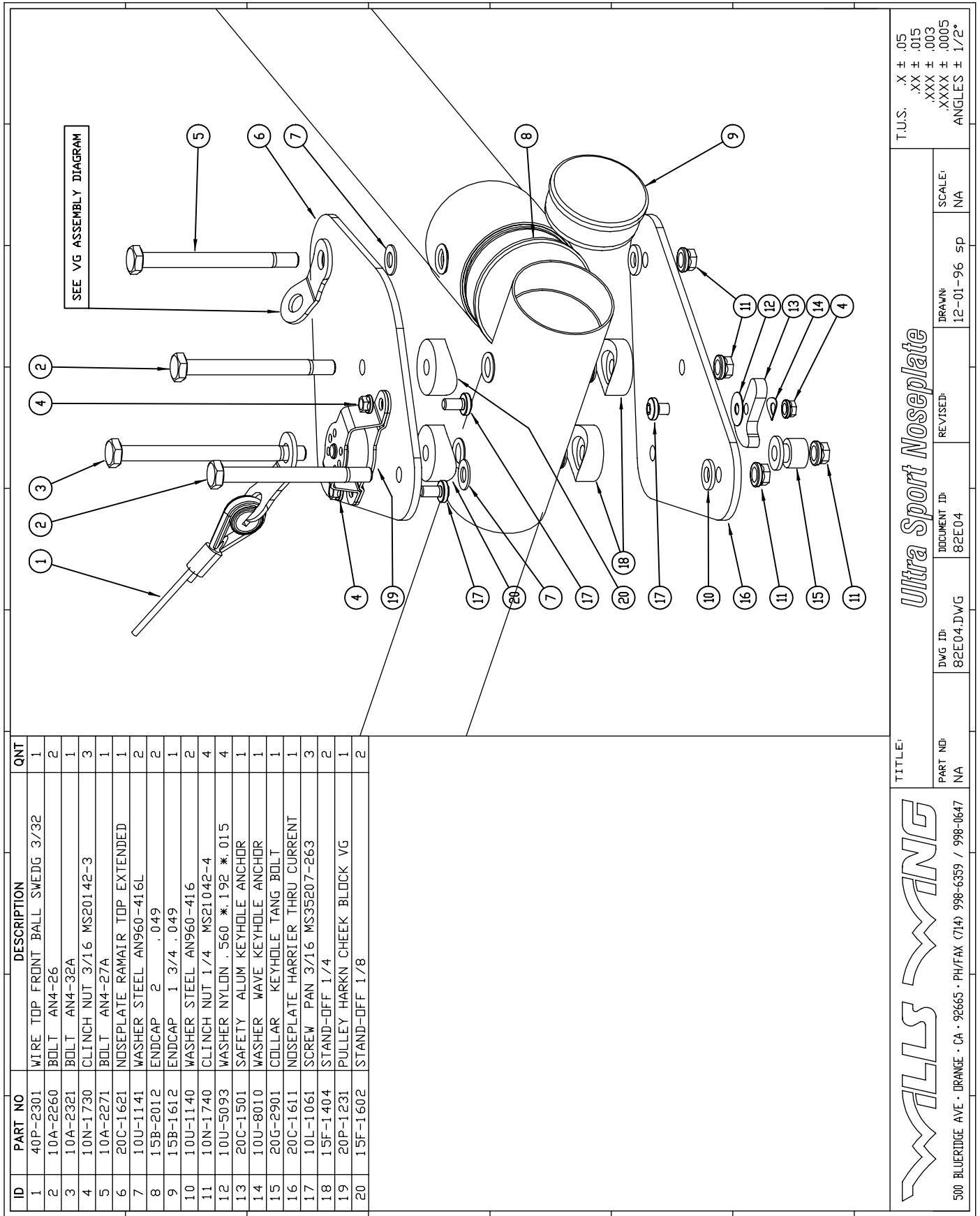
ID	PART NO	DESCRIPTION	QNT
1	10B-2400	BOLT AN24-40	2
2	40P-2202	WIRE TOP SIDE BALL SWEDGE 3/32	2
3	10A-2260	BOLT AN4-26	4
4	20G-1110	XBAR/LE BRACKET 52MM LDNG EDGE	2
5	10N-1340	CASTLE NUT 1/4 AN310-4	4
6	10P-1100	SAFETY RING AN 9491 SMALL	4
7	40P-3103	WIRE BOTTOM SIDE 3/32 AT STYLE	2
8	10N-1740	CLINCH NUT 1/4 MS21042-4	2
9	10P-1100	SAFETY RING AN 9491 SMALL	2
10	10N-1740	CLINCH NUT 1/4 MS21042-4	2
11	15J-2116	SOCKET XBAR CNTR BALL JNT 2.25	1
12	15J-2126	BALL XBAR CNTR BALL JOINT 2.25	1
13	45K-1312	XBAR STRAP HOLD DOWN 155 SHORT	1
14	10G-1790	CLEVIS PIN MS20392-2C79	2
15	10A-2251	BOLT AN4-25A	2
16	10U-1151	WASHER STEEL AN960-516L	1
17	10N-1750	CLINCH NUT 5/16 MS21042-5	1
18	10R-0366	RIVET AL 3/16 * .375 CHAAPQ6-4	4
19	10U-5125	WASHER NYLON .75 * .316 * .020	7
20	10C-6171	BOLT NAS 623-5-17	1
21	10U-1140	WASHER STEEL AN960-416	2
22	15A-1103	NUT CAP SHALLOW	1
23	10U-1141	WASHER STEEL AN960-416L	2



RIGHT CROSSBAR HINGE BRACKET
MUST ALWAYS BE ASSEMBLED ON
TOP OF LEFT AS SHOWN ABOVE

 500 BLUERIDGE AVE • ORANGE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647								T.U.S. .X ± .05 .XX ± .015 .XXX ± .003 .XXXX ± .0005 ANGLES ± 1/2°			
PART NO: NA		DOCUMENT ID: 82E03		REVISED:		DRAWN: 12-01-96 sp		SCALE: NA			

Ultra Sport 147 Crossbar Assembly



Ultra Sport 147 Noseplate Assembly

WALLS WANG

500 BLUERIDGE AVE. • DRANCE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647

TITLE:

Ultra Sport Noseplate

PART NO:
NA

DWG ID:
82E04.DWG

DOCUMENT ID:
82E04

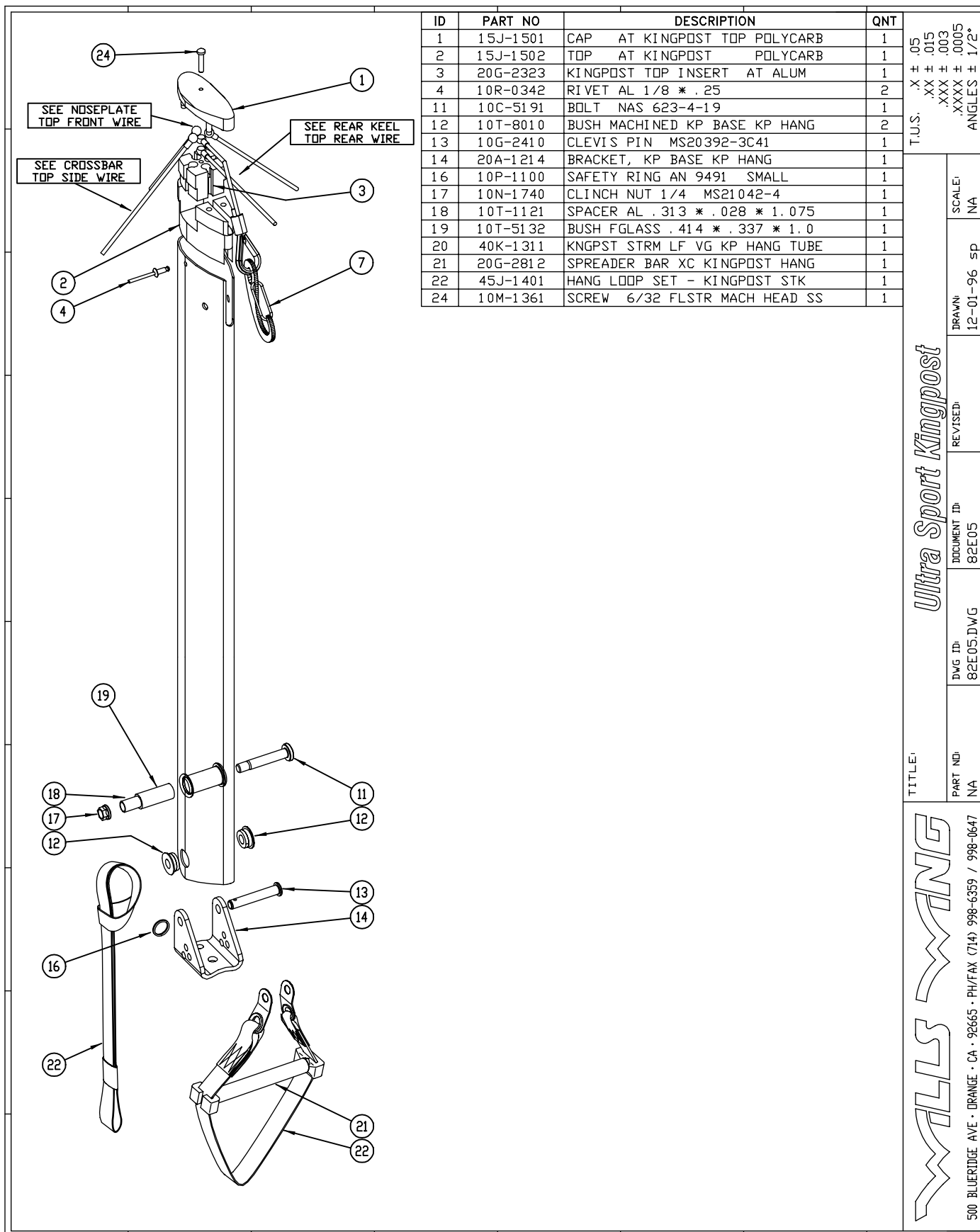
REVISED:

DRAWN:
12-01-96

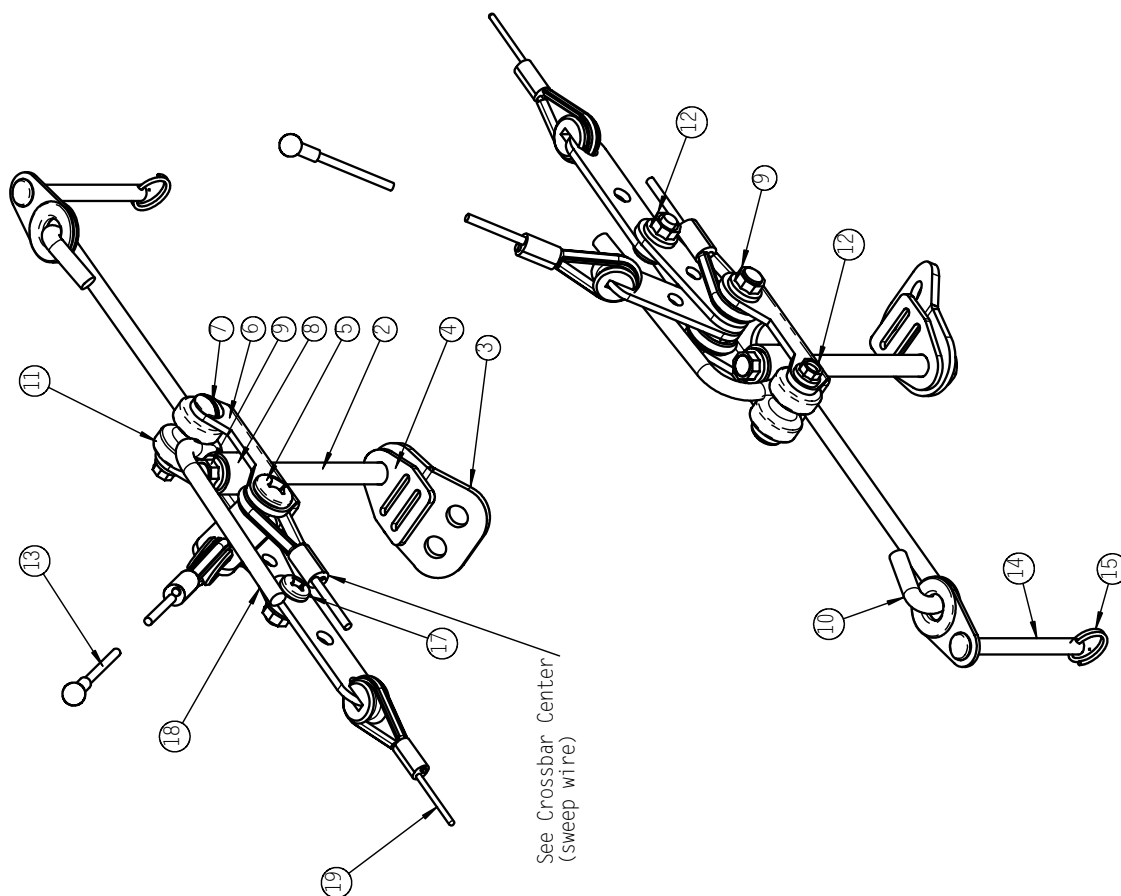
sp

SCALE:
NA

T.U.S. .X ± .05
.XX ± .015
.XXX ± .003
.XXXX ± .0005
ANGLES ± 1/2°



Ultra Sport 147 Kingpost Assembly



ID	PART NO	DESCRIPTION	QNT
1	15A-1007	FRICION CAP 7/8	1
2	10A-2271	BOLT AN4-27A	1
3	40P-3301	WIRE SET BOTTOM REAR BALL SWDG	1
4	20E-2321	TANG 1 HOLE 2 SLOT 5/8 WEBBING	1
5	10C-5121	BOLT NAS 623-4-12	1
6	20A-1601	BRACKET, KEYHOLE TYPE LAYFLAT	1
7	10B-1161	BOLT AN23-16A	1
8	20G-2901	COLLAR KEYHOLE TANG BOLT	1
9	10N-1740	CLINCH NUT 1/4 MS21042-4	2
10	45K-1502	XBAR PULLBACK ROPE - XC	1
11	15K-1001	PULLEY DELRIN KEYHOLE BRACKET	1
12	10N-1730	CLINCH NUT 3/16 MS20142-3	1
13	40P-2401	WIRE TOP REAR BALL SWEDG 3/32	1
14	10G-1570	CLEVIS PIN MS20392-2C57	1
15	10P-1100	SAFETY RING AN 9491 SMALL	1
16	15B-1612	ENDCAP 1 3/4 .049	1
17	10D-1060	BOLT NAS 603-6	1
18	20E-2305	TANG 3 HOLE FOLDING BASE CENTER	1
19	40P-5007	WIRE VG COMPENSATOR LOWER XC	1

WALLS WING
 500 BLUERIDGE AVE • ORANGE, CA 92865 • PH/FAX (714) 998-6359/998-0647

TITLE: **Ultra Sport 135 and 166 Rear Keel**

Document ID: 84E01.0
 DWG ID: US Rear Keel.DRW

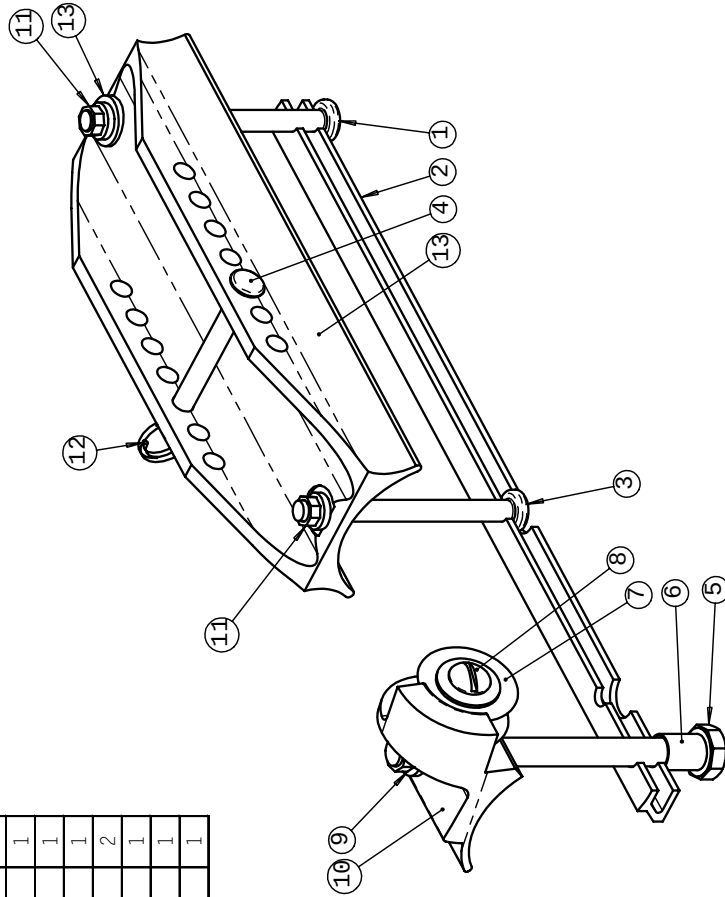
REVISED: -

BY: Pearson

DATE: 10-30-97

Ultra Sport 135 and 166 Rear Keel

ID	PART NO	DESCRIPTION	QNT
1	10C-4341	BOLT NAS 623-3-34	1
2	20G-2103	TRACK LAYFLAT CBAR APEX SHORT2	1
3	10C-4301	BOLT NAS 623-3-30	1
4	10G-1510	CLEVIS PIN MS20392-2C51	1
5	10A-2271	BOLT AN4-27A	1
6	10T-3100	SPACER SS .313 * .028 * .390	1
7	20P-1230	PULLEY HARKN SHEAVE TOP LEG VG	1
8	10B-1101	BOLT AN23-10A	1
9	10N-1740	CLINCH NUT 1/4 MS21042-4	1
10	20G-1510	BRACKET VG PULLEY KEEL MOUNT	1
11	10N-1730	CLINCH NUT 3/16 MS20142-3	2
12	10P-1100	SAFETY RING AN 9491 SMALL	1
13	10U-1130	WASHER STEEL AN960-10	1
14	20G-1312	CG BRACKET KP HANG 95	1



WALLS WING

500 BLUERIDGE AVE • ORANGE, CA 92865 •PH/FAX (714)998-6359/998-0647

TITLE:

Ultra Sport 135 and 166 Middle Keel

Document ID:
84E02 .0

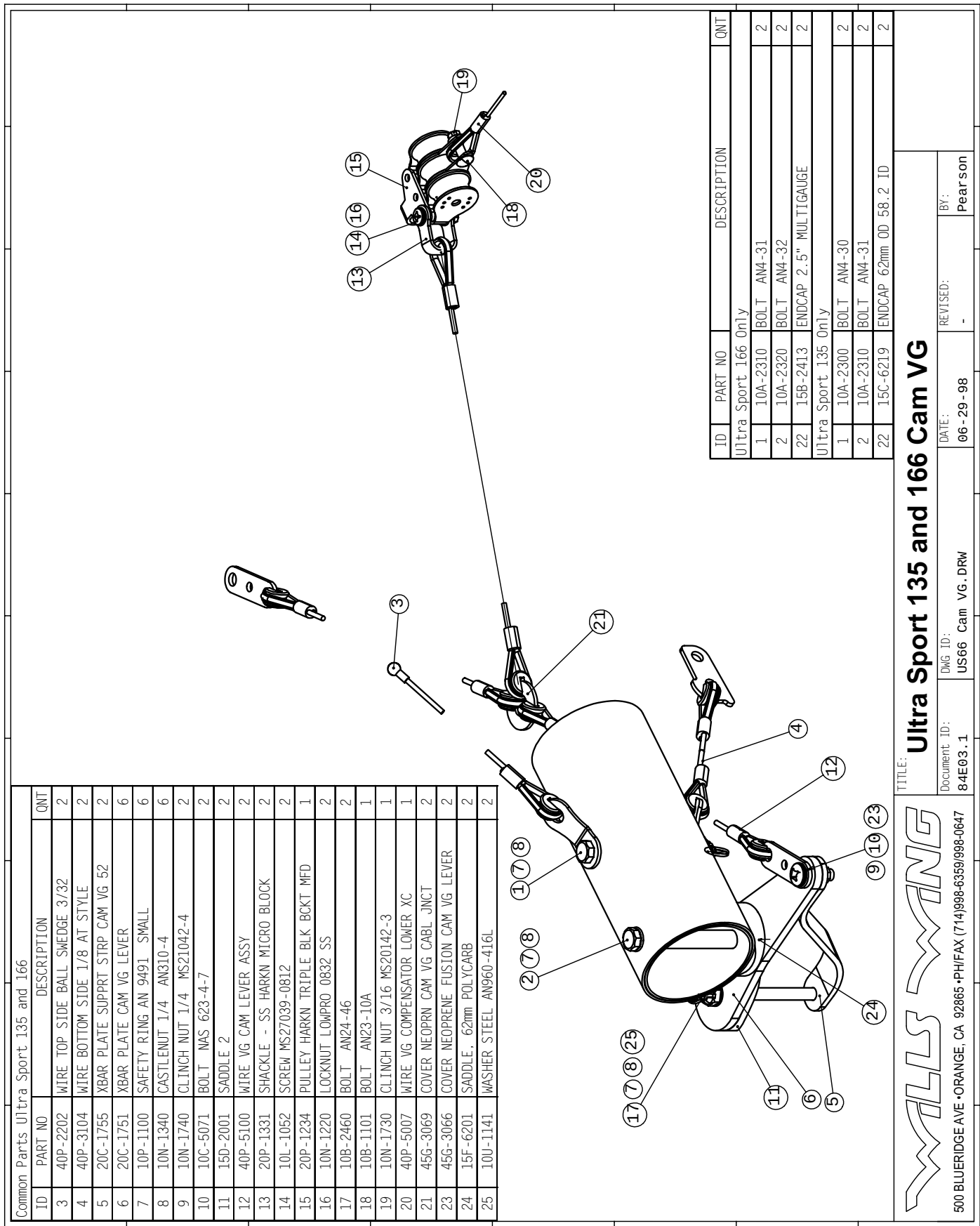
DWG ID:
US Center Keel.DRW

DATE:
06-29-98

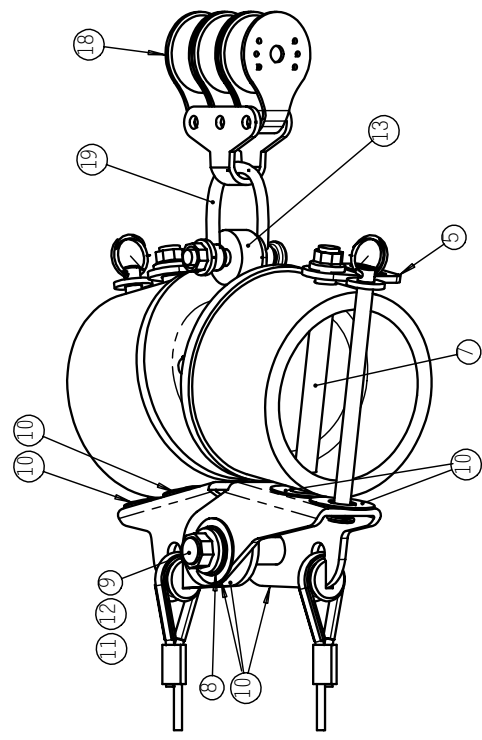
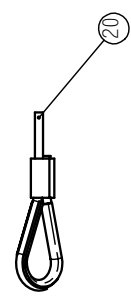
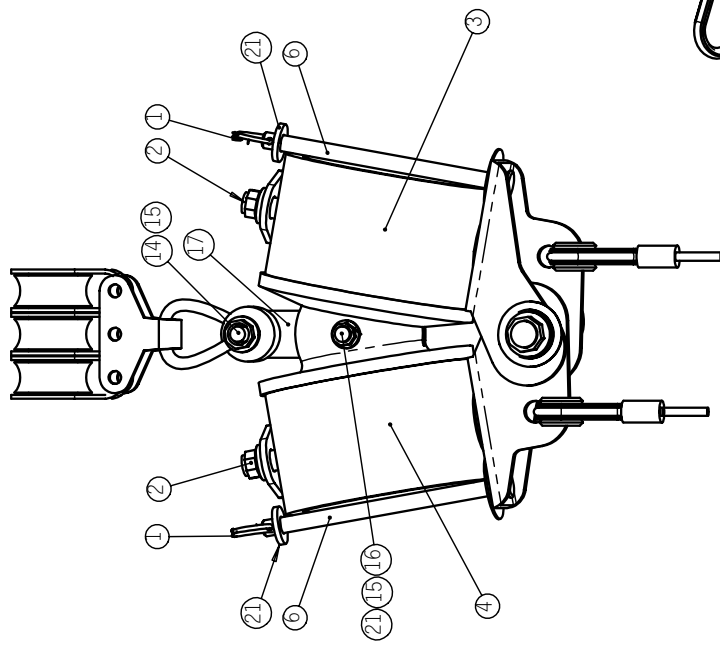
REVISED:

BY:
Pearson

Ultra Sport 135 and 166 Middle Keel



Ultra Sport 135 and 166 Cam VG



ID	PART NO	DESCRIPTION
Ultra Sport 135 only		
3	15J-2111	SOCKET XBAR CNTR BALL JNT 60B
4	15J-2121	BALL XBAR CNTR BALL JNT 60B SLOTTED
6	10G-1830	CLEVIS PIN MS20392-2C83
7	10A-2271	BOLT AN4-27A
Ultra Sport 166 only		
3	15J-2118	SOCKET XBAR CNTR BALL JNT 2.5
4	15J-2128	BALL XBAR CNTR BALL JNT 2.5 SLOTTED
6	10G-1830	CLEVIS PIN MS20392-2C83
7	10A-2301	BOLT AN4-30A

ID	PART NO	DESCRIPTION	QNT
1	10P-1100	SAFETY RING AN 9491 SMALL	2
2	10N-1740	CLINCH NUT 1/4 MS21042-4	2
5	45K-1315	XBAR STRAP HOLD DOWN US166	1
8	10U-1151	WASHER STEEL AN960-516L	1
9	10N-1750	CLINCH NUT 5/16 MS21042-5	1
10	10U-5125	WASHER NYLON .75 * .316 * .020	9
11	10C-6171	BOLT NAS 623-5-17	1
12	15A-1103	NUT CAP SHALLOW	1
13	10T-5101	SPACER NY .75 * .125 * .310	1
14	10C-4121	BOLT NAS 623-3-12	1
15	10N-1730	CLINCH NUT 3/16 MS20142-3	2
16	10A-1151	BOLT AN3-15A	1
17	20E-2305	TANG 3 HOLE FOLDNG BASE CENTER	1
18	20P-1232	PULLEY HARKN TRIPLE BLOCK	1
19	20P-1341	SHACKLE - SS FORGED HALF TWIST	1
20	40P-4204	WIRE XBAR SWEEP CNTR HINGE SET	1
21	10U-1130	WASHER STEEL AN960-10	3



500 BLUERIDGE AVE • ORANGE, CA 92865 • PH/FAX (714)998-6359/998-0647

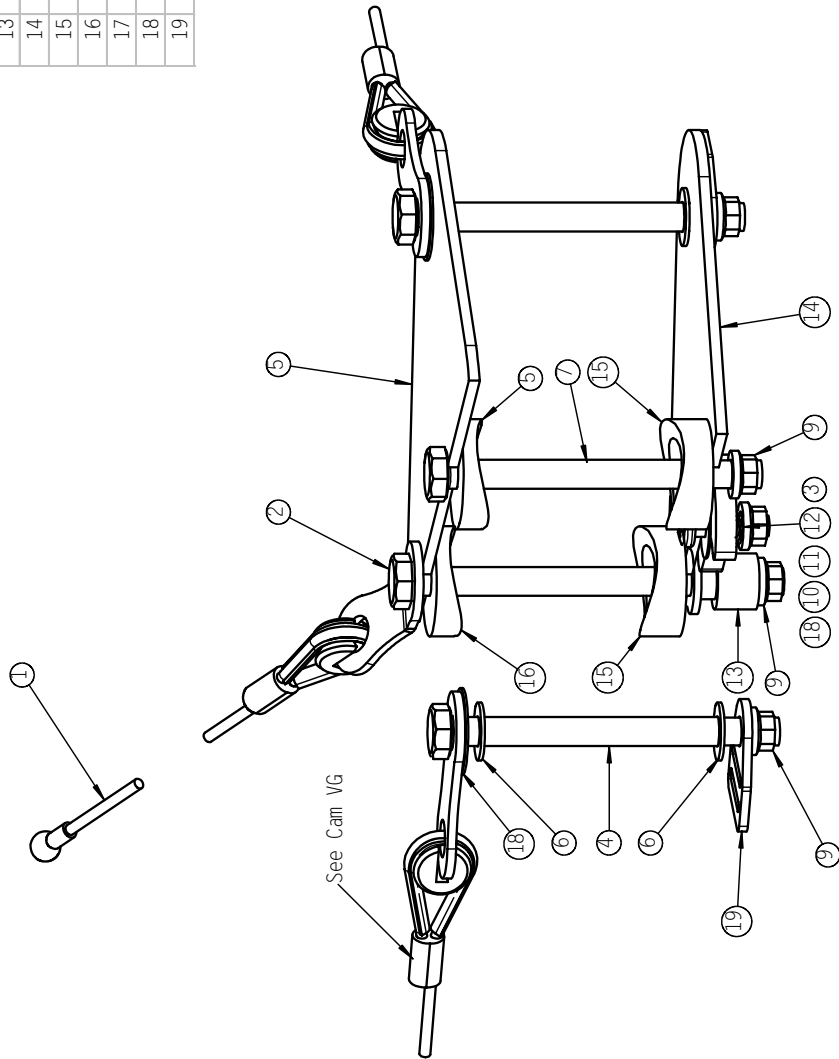
TITLE:

Ultra Sport 135 and 166 Crossbar Center

Document ID: 84E04.1	DWG ID: US Crossbar Center.DRW	DATE: 06-29-98	REVISID: -	BY: Pearson
-------------------------	-----------------------------------	-------------------	---------------	----------------

Ultra Sport 135 and 166 Crossbar Center

ID	PART NO	DESCRIPTION	QNT
1	40P-2301	WIRE TOP FRONT BALL SWDGG 3/32	1
2	10A-2321	BOLT AN4-32A	1
3	10N-1730	CLINCH NUT 3/16 MS20142-3	1
4	10A-2271	BOLT AN4-27A	2
5	20C-1621	NOSEPLATE RAMAIR TOP EXTENDED	1
6	10U-1141	WASHER STEEL AN960-416L	4
7	10A-2251	BOLT AN4-25A	1
8	10U-1140	WASHER STEEL AN960-416	0
9	10N-1740	CLINCH NUT 1/4 MS21042-4	4
10	10U-5093	WASHER NYLON .560 * .192 * .015	1
11	20C-1501	SAFETY ALUM KEYHOLE ANCHOR	1
12	10U-8010	WASHER WAVE KEYHOLE ANCHOR	1
13	20G-2901	COLLAR KEYHOLE TANG BOLT	1
14	20C-1611	NOSEPLATE HARRIER THRU CURRENT	1
15	15F-1404	STAND-OFF 1/4	2
16	15F-1602	STAND-OFF 1/8	2
17	40P-3201	WIRE SET BOTTM FRONT BALL SWDG	1
18	10U-5125	WASHER NYLON .75 * .316 * .020	2
19	20E-2321	TANG 1 HOLE 2 SLOT 5/8 WEBBING	2



WALLS WING

500 BLUERIDGE AVE - ORANGE, CA 92665 • PH/FAX (714) 998-6359/998-0647

TITLE: **Ultra Sport 135 and 166 Noseplate**

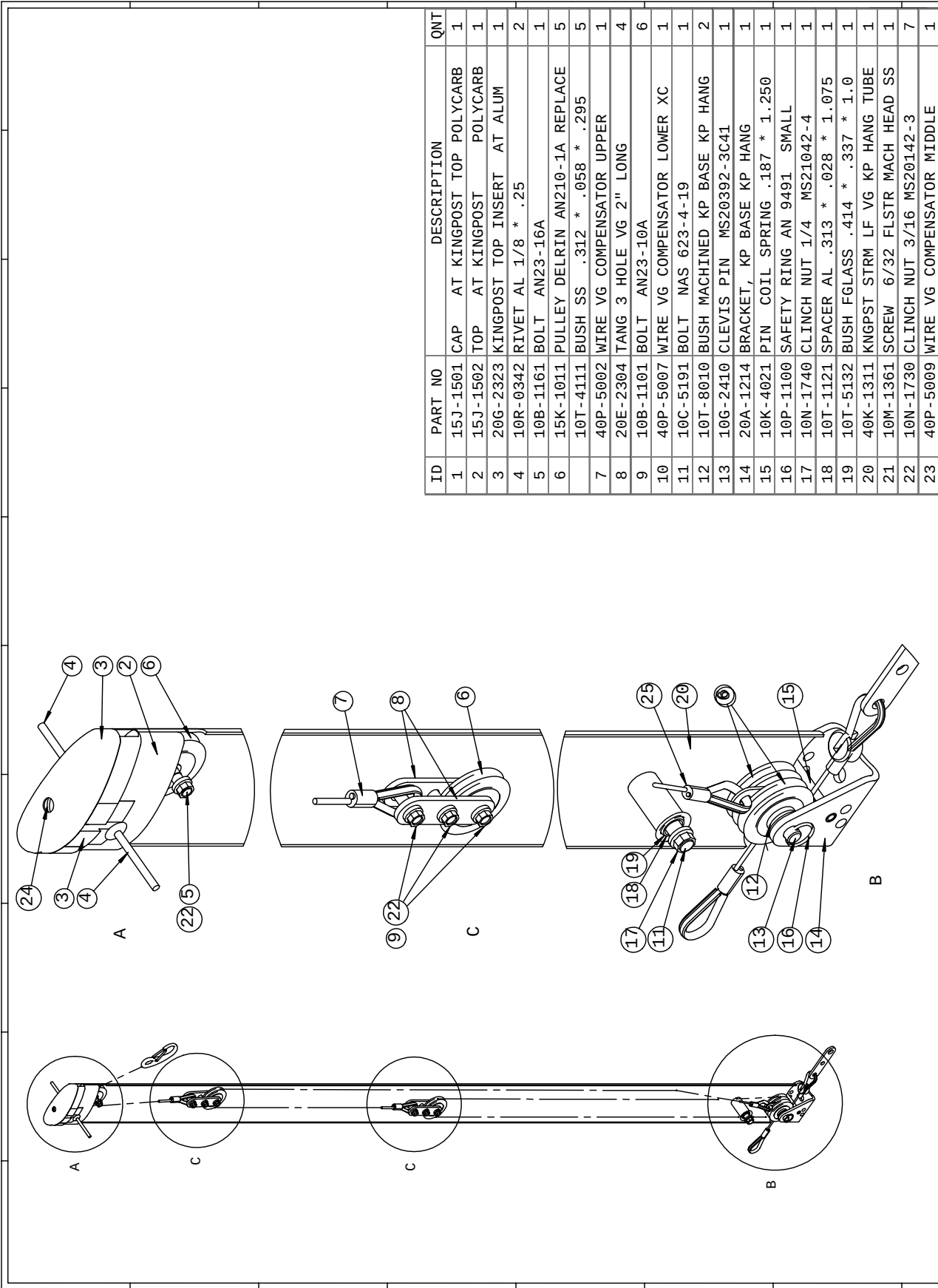
Document ID: 84E05_0
DWG ID: US66 Noseplate.DRW

DATE: 10-30-97

REVISED:

BY: Pearson

Ultra Sport 135 and 166 Noseplate



ID	PART NO	DESCRIPTION	QNT
1	15J-1501	CAP AT KINGPOST TOP POLYCARB	1
2	15J-1502	TOP AT KINGPOST POLYCARB	1
3	20G-2323	KINGPOST TOP INSERT AT ALUM	1
4	10R-0342	RIVET AL 1/8 * .25	2
5	10B-1161	BOLT AN23-16A	1
6	15K-1011	PULLEY DELRIN AN210-1A REPLACE	5
7	10T-4111	BUSH SS .312 * .058 * .295	5
8	40P-5002	WIRE VG COMPENSATOR UPPER	1
9	20E-2304	TANG 3 HOLE VG 2" LONG	4
10	10B-1101	BOLT AN23-10A	6
11	40P-5007	WIRE VG COMPENSATOR LOWER XC	1
12	10C-5191	BOLT NAS 623-4-19	1
13	10T-8010	BUSH MACHINED KP BASE KP HANG	2
14	10G-2410	CLEVIS PIN MS20392-3C41	1
15	20A-1214	BRACKET, KP BASE KP HANG	1
16	10K-4021	PIN COIL SPRING .187 * 1.250	1
17	10P-1100	SAFETY RING AN 9491 SMALL	1
18	10N-1740	CLINCH NUT 1/4 MS21042-4	1
19	10T-1121	SPACER AL .313 * .028 * 1.075	1
20	10T-5132	BUSH FGLASS .414 * .337 * 1.0	1
21	40K-1311	KNGPST STRM LF VG KP HANG TUBE	1
22	10M-1361	SCREW 6/32 FLSTR MACH HEAD SS	1
23	10N-1730	CLINCH NUT 3/16 MS20142-3	7
24	40P-5009	WIRE VG COMPENSATOR MIDDLE	1

TITLE: **Ultra Sport 166 Kingpost**



500 BLUERIDGE AVE • ORANGE, CA 92865 • PH/FAX (714)998-6359/998-0647

Document ID: 84E06.0
DWG ID: US66 Kingpost.DRW

DATE: 10-30-97

REVISED: -
BY: Pearson

Ultra Sport 135 and 166 Kingpost

ID	PART NO	DESCRIPTION	QNT
1	10G-1330	CLEVIS PIN MS20392-2C33	4
2	10N-1740	CLINCH NUT 1/4 MS21042-4	4
3	20G-1423	REPLACED BY 20G-1424	2
4	20G-1802	CBAR BRACKET AT BASE END VG	1
5	10K-4040	PIN VG PULLEY SS MACHINED	1
6	20P-1220	PULLEY ALUM MACH CBAR BASE VG	1
7	10D-1161	BOLT NAS 603-16P	1
8	10C-5241	BOLT NAS 623-4-24	1
9	20C-1801	JAMCLEAT KNIFE V-CUT / ROPE VG	1
10	20G-1803	BRACKET BASE PULLEY ROPE VG	1
11	10P-1100	SAFETY RING AN 9491 SMALL	4
12	10N-1750	CLINCH NUT 5/16 MS21042-5	1
13	10T-5113	BUSH SPLIT HEADED AT CB SHORT	2
14	20G-1711	CBAR ELBOW AT TOP STREAM	2
15	20G-2203	SLIDER LAYFLAT CBAR APEX 3	1
16	10A-3201	BOLT AN5-20A GROUND & SLOTTED	1
17	10C-5111	BOLT NAS 623-4-11	2
18	15J-2003	GLIDE NOTCHED LAFLT APEX SLDR	1
19	15J-2002	GLIDE LAYFLAT APEX SLIDR SIDE	2
20	20G-1433	CBAR PLUG AT LEG TOP STR TOEIN	2
21	45G-3064	COVER NEOPRENE CB APEX RT VG	1
22	45G-3062	COVER NEOPRENE CBAR APEX LEFT	1
23	15A-1610	PROTECTOR VG ROPE - UHMW TAPE	1
24	10C-5121	BOLT NAS 623-4-12	1
25	20G-1801	CBAR BRACKET AT BASE/TUBE END	1
26	10U-5125	WASHER NYLON .75 * .316 * .020	2

500 BLUERIDGE AVE • DRANCE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647

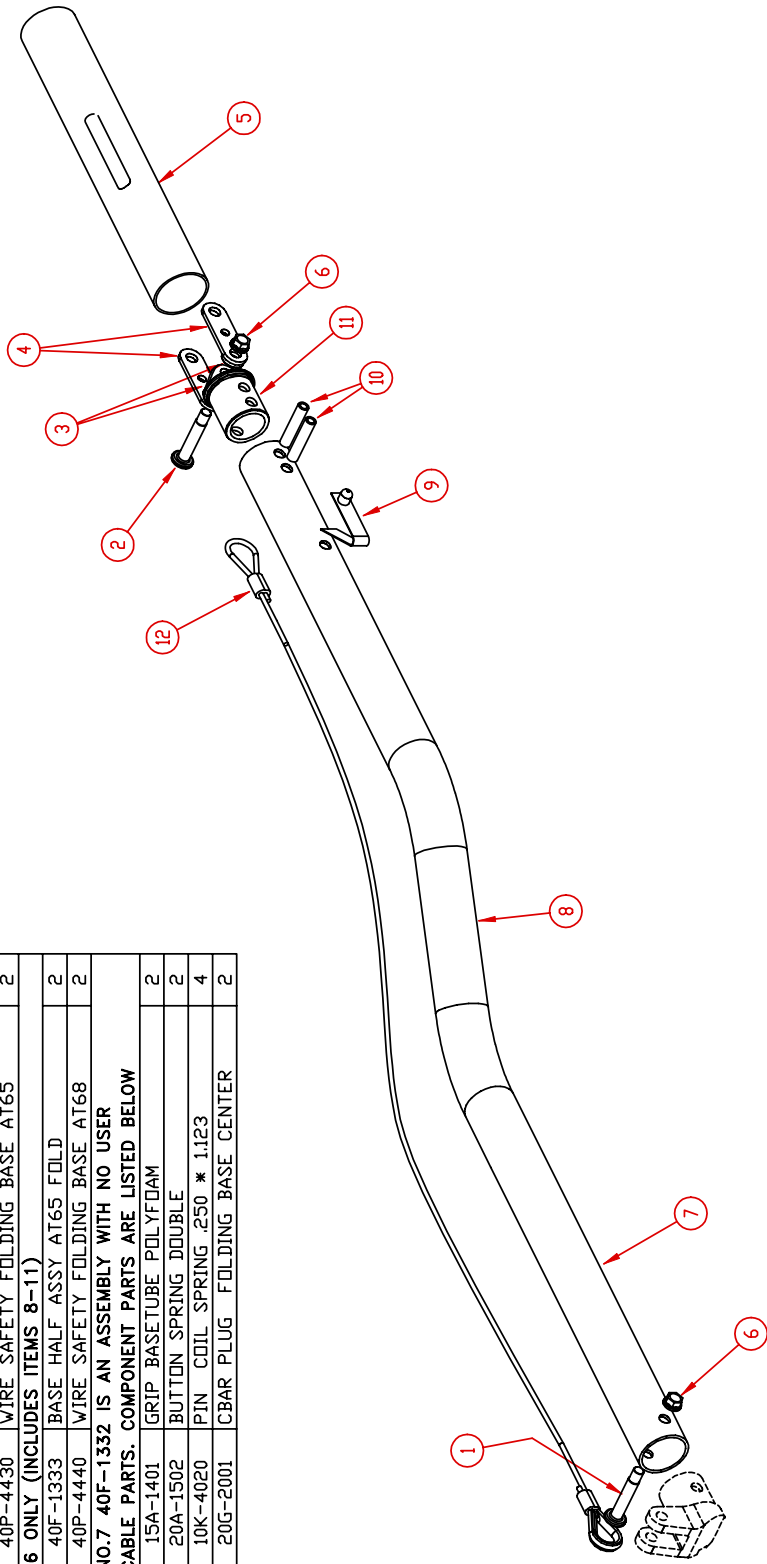
TITLE: VG CONTROL BAR

PART NO: NA	DWG ID: 80E06.DWG	DOCUMENT ID: 80E06	REVISED: NA	DRAWN: 01-15-96 sp	SCALE: NA
-------------	-------------------	--------------------	-------------	--------------------	-----------

T.U.S. .X ± .05
 .XX ± .015
 .XXX ± .003
 .XXXX ± .0005
 ANGLES ± 1/2°

VG Control Bar Assembly

ID	PART NO	DESCRIPTION	QNT
1	10C-5171	BOLT NAS 623-4-17	2
2	10C-5071	BOLT NAS 623-4-7	2
3	10U-5095	WASHER NYLON .560 *320 *013	4
4	20E-2305	TANG 3 HOLE FOLDING BASE CENTER	2
5	40F-1391	SLEEVE FOLDING BASE TUBE CENTER	1
6	10N-1740	CLINCH NUT 1/4 MS21042-4	4
US 135 ONLY (INCLUDES ITEMS 8-11)			
7	40F-1333	BASE HALF ASSY AT65 FOLD	2
12	40P-4420	WIRE SAFETY FOLDING BASE AT62	2
US 147 ONLY (INCLUDES ITEMS 8-11)			
7	40F-1333	BASE HALF ASSY AT65 FOLD	2
12	40P-4430	WIRE SAFETY FOLDING BASE AT65	2
US 166 ONLY (INCLUDES ITEMS 8-11)			
7	40F-1333	BASE HALF ASSY AT65 FOLD	2
12	40P-4440	WIRE SAFETY FOLDING BASE AT68	2
ITEM NO.7 40F-1332 IS AN ASSEMBLY WITH NO USER SERVICABLE PARTS. COMPONENT PARTS ARE LISTED BELOW			
8	15A-1401	GRIP BASE TUBE POLYFOAM	2
9	20A-1502	BUTTON SPRING DOUBLE	2
10	10K-4020	PIN COIL SPRING .250 * 1.123	4
11	20G-2001	CBAR PLUG FOLDING BASE CENTER	2



VG Folding Basetube Assembly

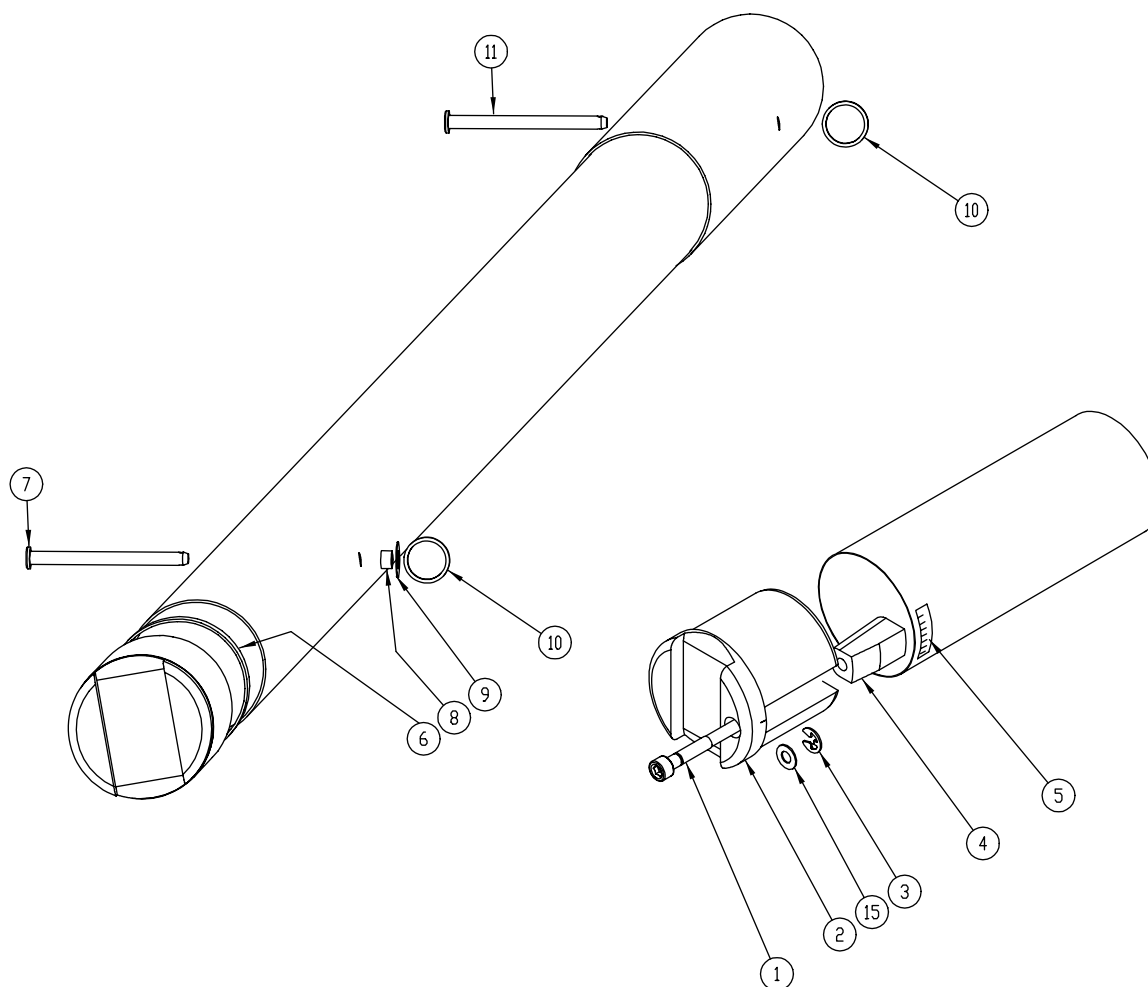
500 BLUERIDGE AVE • ORANGE • CA • 92665 • PH/FAK (714) 998-6359 / 998-0647

TITLE: **VG FOLDING BASE TUBE**

PART NO: NA	DWG ID: 80E07.DWG	DOCUMENT ID: 82E07	REVISED: 07-08-98 sp	DRAWN: 01-15-96 sp	SCALE: NA
-------------	-------------------	--------------------	----------------------	--------------------	-----------

T.U.S. X ± .05
XX ± .015
XXX ± .003
XXXX ± .0005
ANGLES ± 1/2°

ID	PART NO	DESCRIPTION	QNT
1	10K-2026	SCREW SOCKET CAP 10-32*1.75 SS	2
2	15J-1911	ENDCAP SAIL MOUNT ADJUSTABLE	2
3	10S-1101	C-CLIP SAIL ADJUSTER CAP SCREW	2
4	15J-1912	LOCKING SLIDE ADJUST ENDCAP	2
5	70G-4019	PLACARD - SAIL ADJUSTER ALIGN	2
6	40M-1321	SHIM KIT ALL 7075 MODELS 50mm	2
7	10G-2770	CLEVIS PIN MS20392-3C77	2
8	10T-1111	SPACER AL .375 * .035 * .375	2
9	10U-1400	WASHER MS 15795-210	2
10	10P-1100	SAFETY RING AN 9491 SMALL	4
11	10G-1650	CLEVIS PIN MS20392-2C65	2
15	10U-1130	WASHER STEEL AN960-10	2



T.U.S. .X ± .05
.XX ± .015
.XXX ± .003
.XXXX ± .0005
ANGLES ± 1/2°

SCALE: NA

DRAWN: 12-01-96 sp

REVISED:

DOCUMENT ID: 82E09

DWG ID: 82E09.DWG

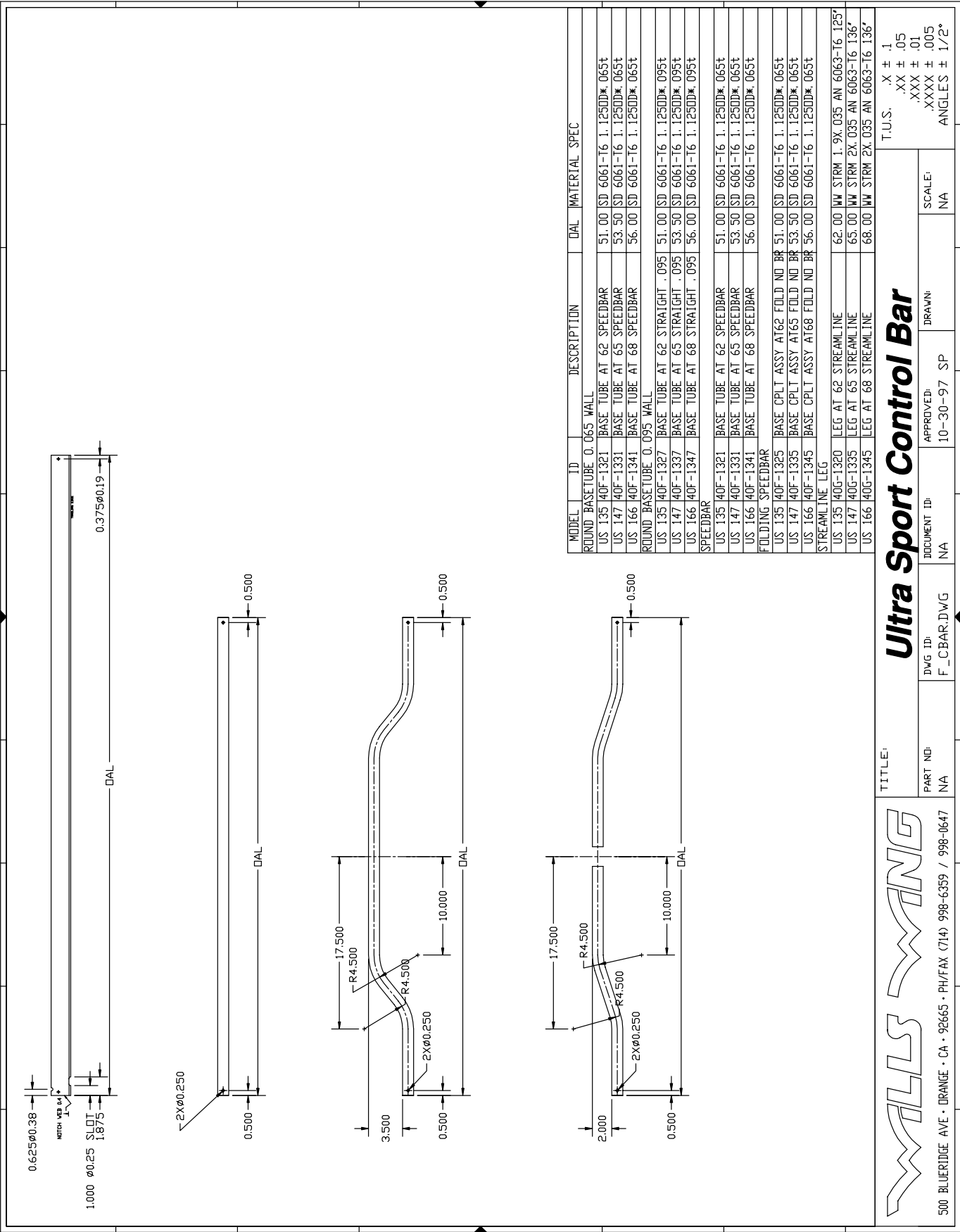
PART NO: NA

TITLE: Ultra Sport Rear Leading Edge

WALLS WING

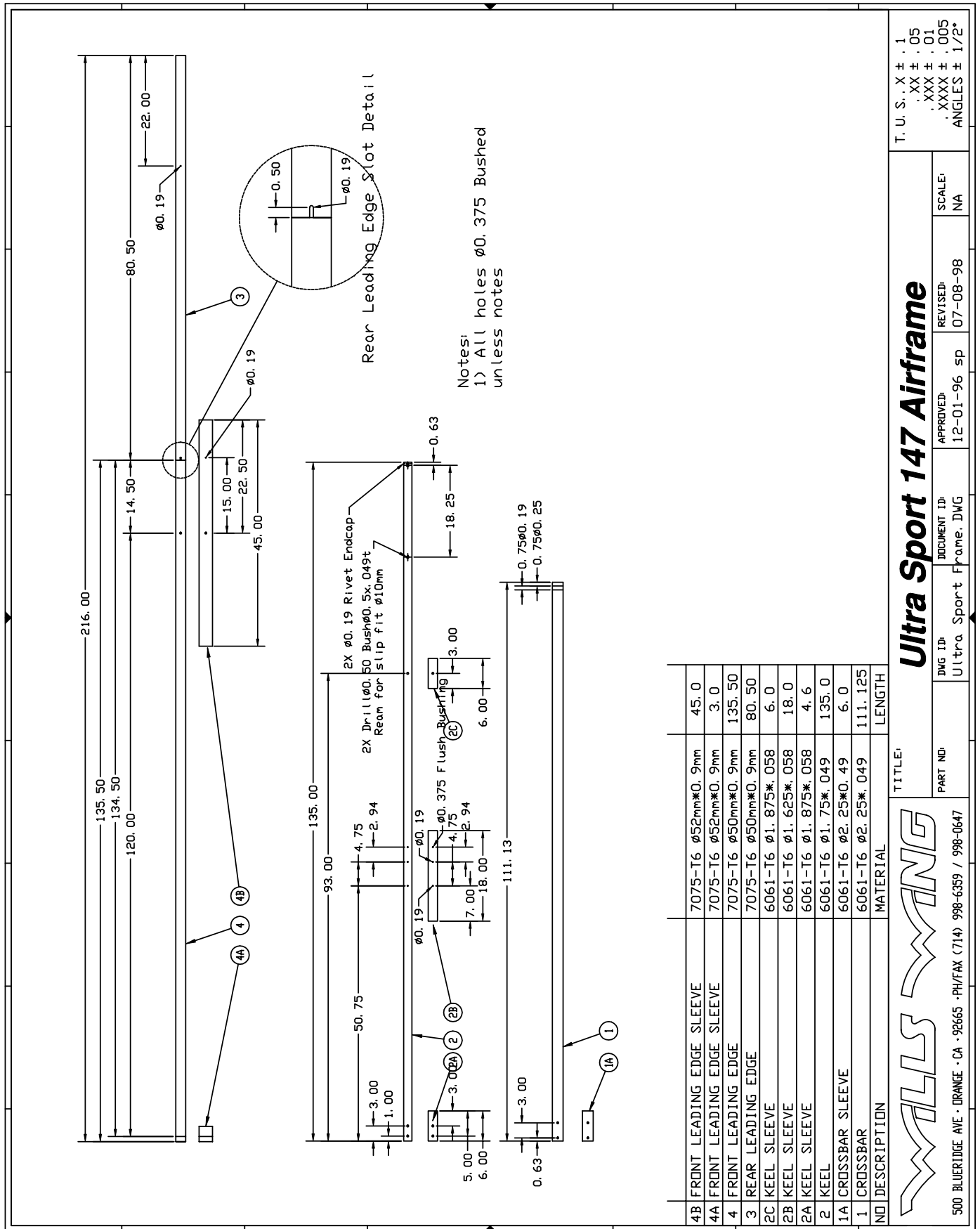
500 BLUERIDGE AVE. DRANCE · CA · 92665 · PH/FAX (714) 998-6359 / 998-0647

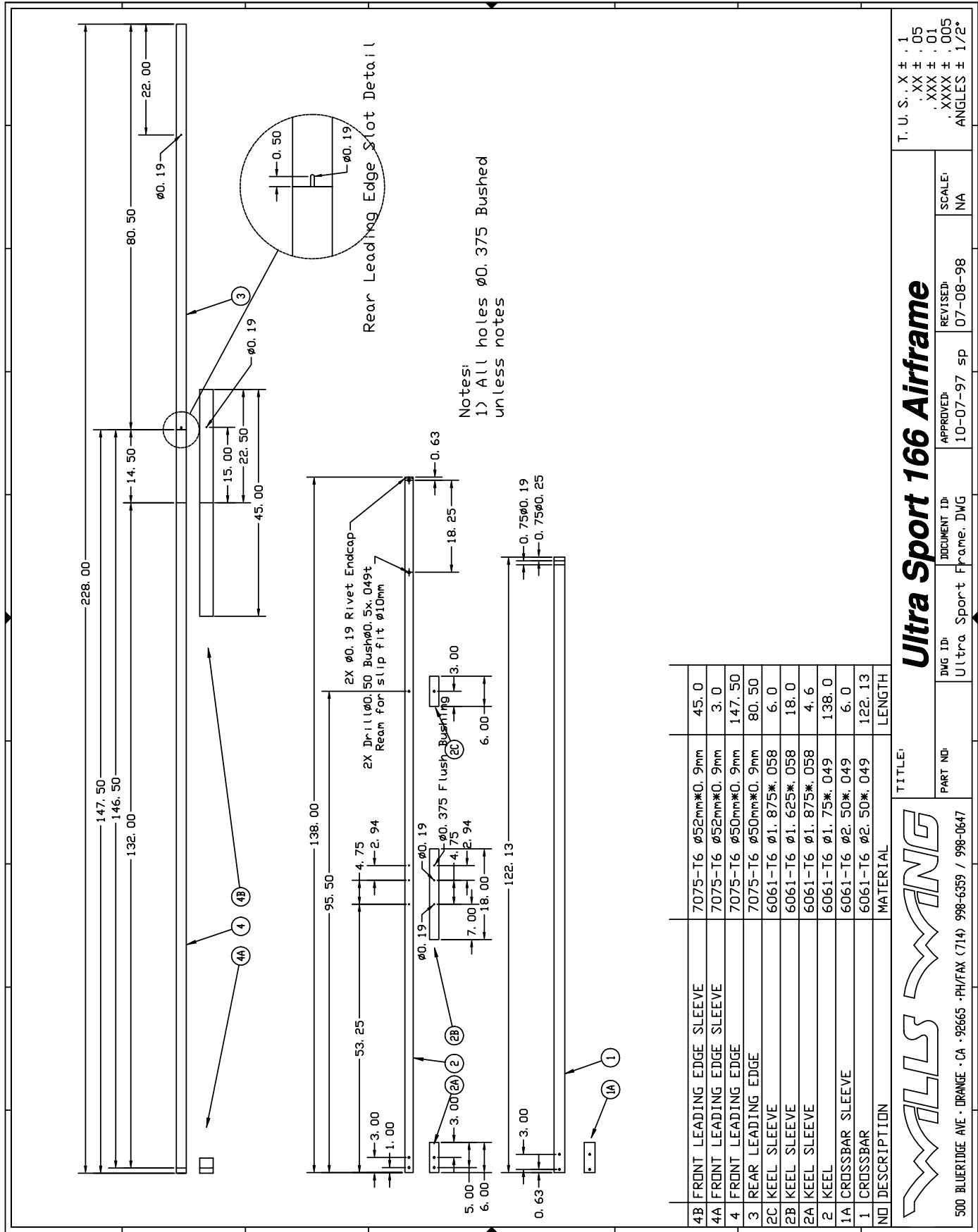
Ultra Sport Rear Leading Edge Assembly



Ultra Sport Control Bar Specifications

Ultra Sport 147 Airframe





NO	DESCRIPTION	MATERIAL	LENGTH
4B	FRONT LEADING EDGE SLEEVE	7075-T6 Ø52mmx0.9mm	45.0
4A	FRONT LEADING EDGE SLEEVE	7075-T6 Ø52mmx0.9mm	3.0
4	FRONT LEADING EDGE	7075-T6 Ø50mmx0.9mm	147.50
3	REAR LEADING EDGE	7075-T6 Ø50mmx0.9mm	80.50
2C	KEEL SLEEVE	6061-T6 Ø1.875x.058	6.0
2B	KEEL SLEEVE	6061-T6 Ø1.625x.058	18.0
2A	KEEL SLEEVE	6061-T6 Ø1.875x.058	4.6
2	KEEL	6061-T6 Ø1.75x.049	138.0
1A	CROSSBAR SLEEVE	6061-T6 Ø2.50x.049	6.0
1	CROSSBAR	6061-T6 Ø2.50x.049	122.13



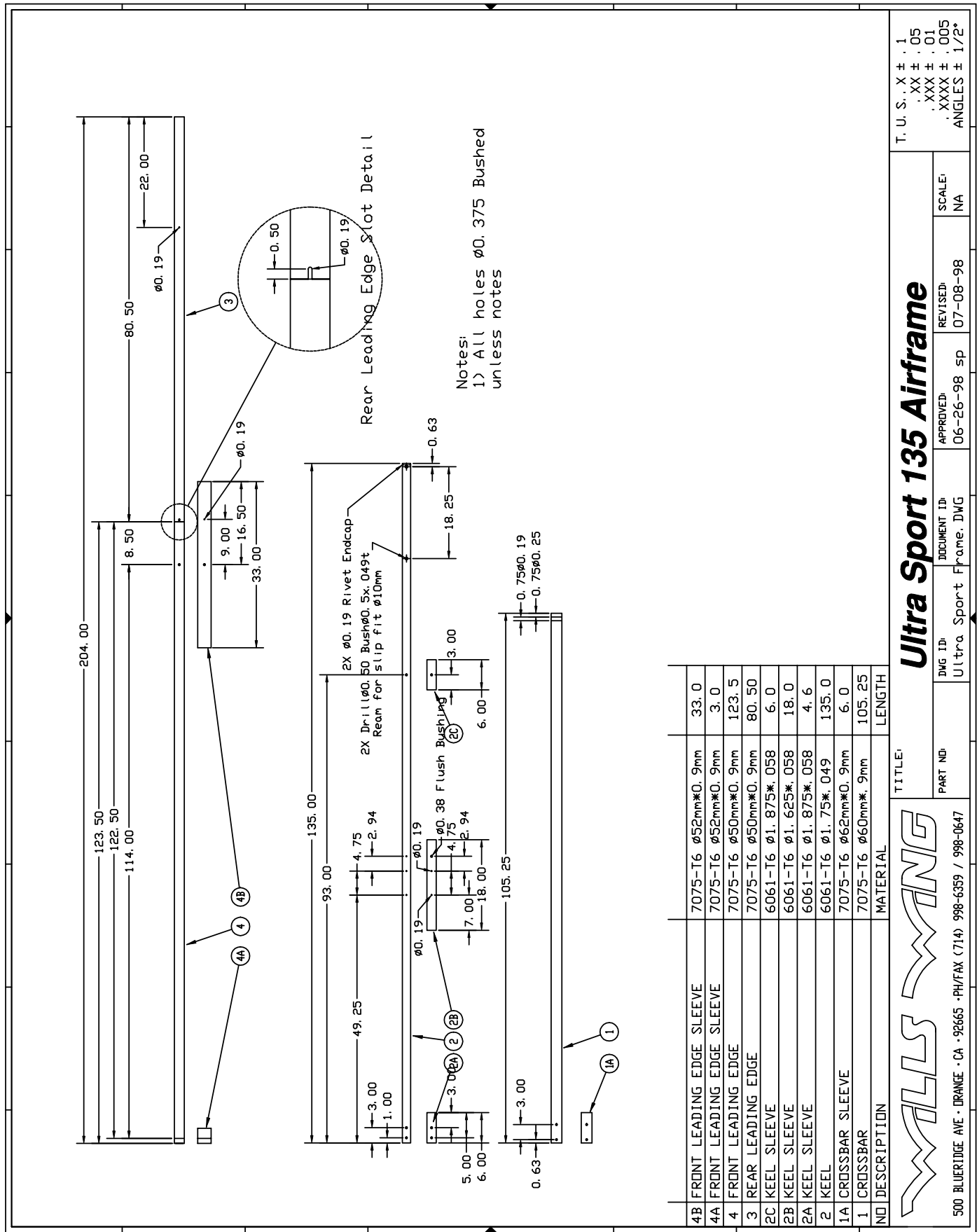
500 BLUERIDGE AVE • ORANGE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647

Ultra Sport 166 Airframe

PART NO.	DOCUMENT ID	APPROVED	REVISED	SCALE
Ultra Sport Frame	DWG	10-07-97 sp	07-08-98	NA

T. U. S. . X ± . 1
. XX ± . 05
. XXX ± . 01
. XXXX ± . 005
ANGLES ± 1/2°

Ultra Sport 166 Airframe



Ultra Sport 135 Airframe

WALLS WING

500 BLUERIDGE AVE • ORANGE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647

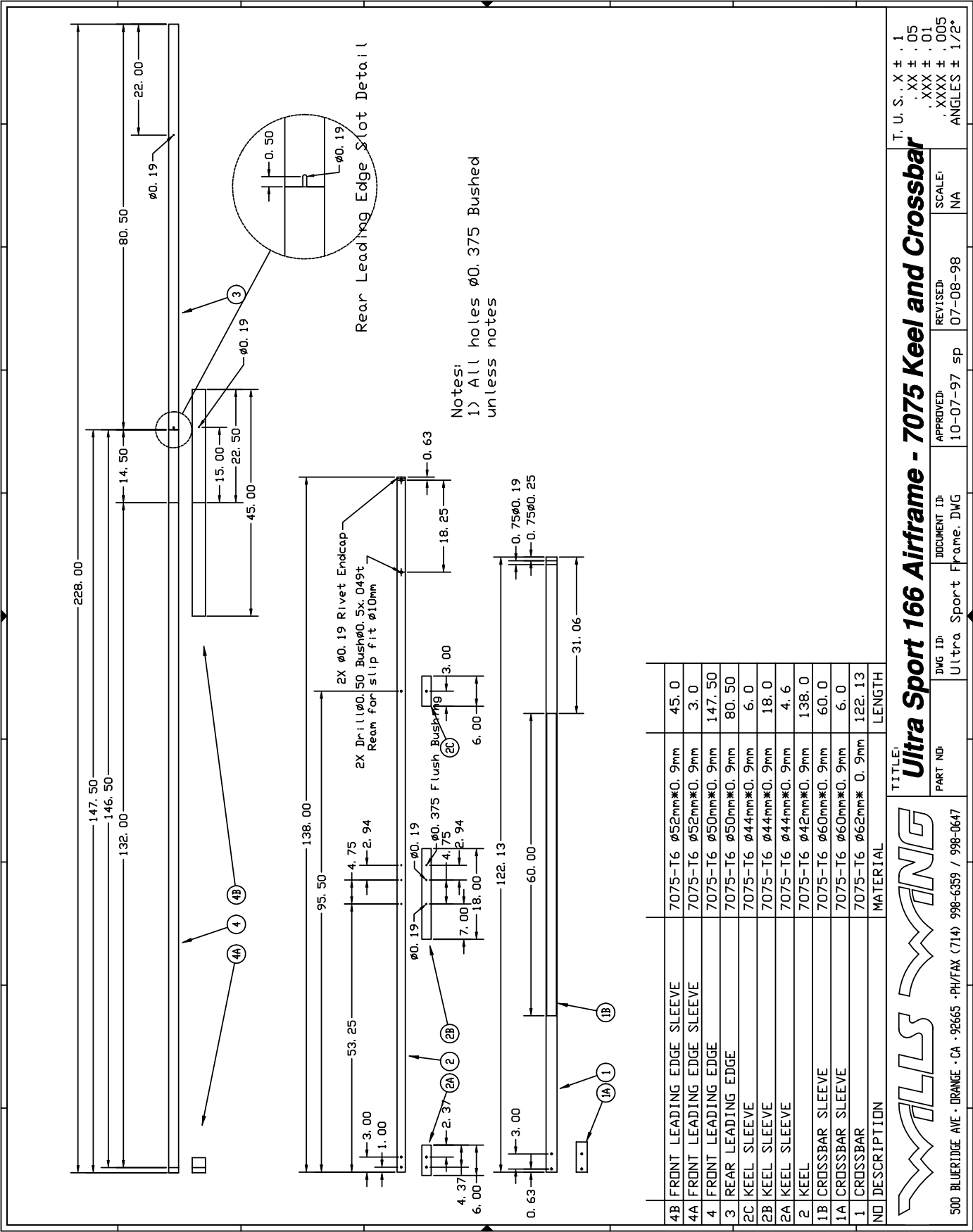
TITLE:

Ultra Sport 135 Airframe

T. U. S. . X $\pm .1$
. XX $\pm .05$
. XXX $\pm .01$
. XXXX $\pm .005$
ANGLES $\pm 1/2^\circ$

PART NO.	DWG ID#	DOCUMENT ID#	APPROVED	REVISED	SCALE
	Ultra Sport Frame, DWG	06-26-98 sp	07-08-98	NA	NA

Ultra Sport 166 Euro Airframe



T. U. S. . X $\pm$. 1
. XX $\pm$. 05
. XXX $\pm$. 01
. XXXX $\pm$. 005
ANGLES $\pm$ 1/2°

TITLE:
Ultra Sport 166 Airframe - 7075 Keel and Crossbar

WILLS WING

500 BLUERIDGE AVE • ORANGE • CA • 92665 • PH/FAX (714) 998-6359 / 998-0647

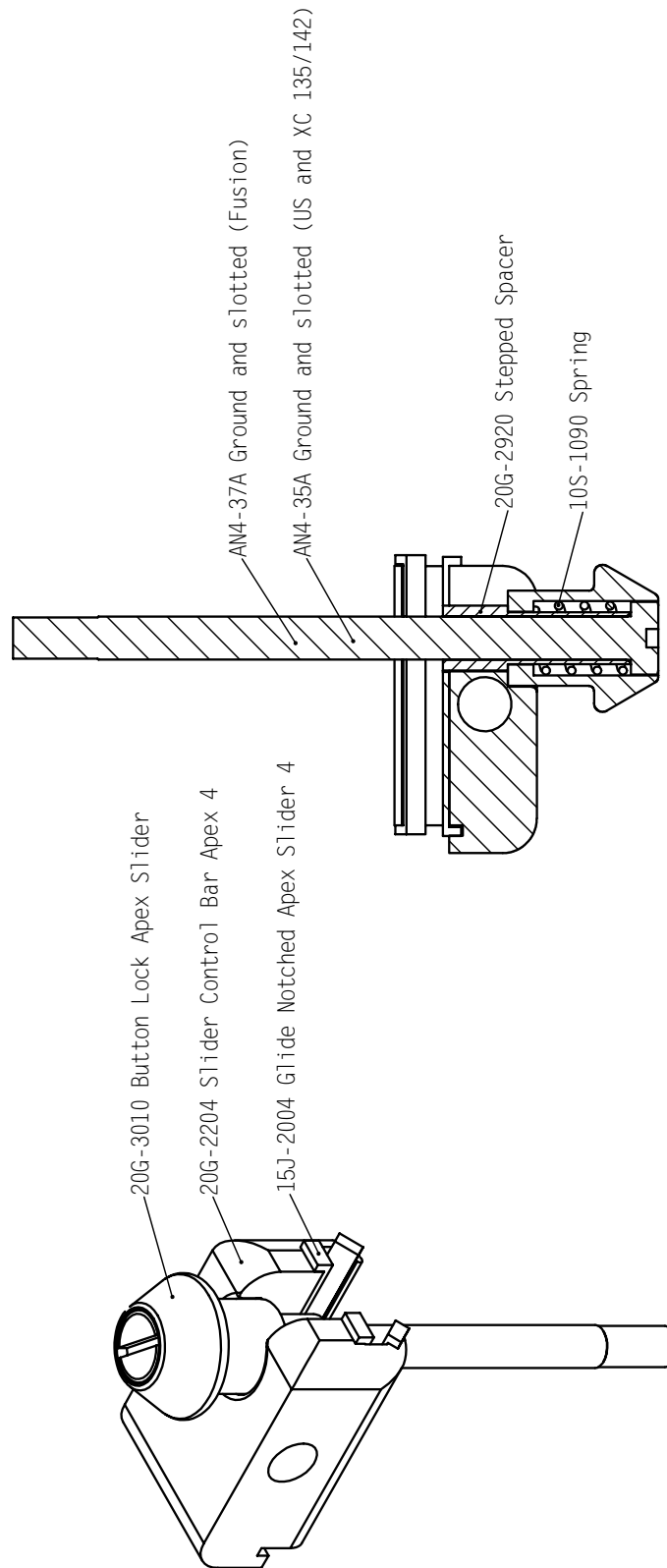
PART NO: DWG ID: Ultra Sport Frame, DWG

APPROVED: 10-07-97 sp

REVISOR: 07-08-98

SCALE: NA

Note:
Replaces Item 5 and Item 6 Drawings 82E01 and 84E02
and Items 15, 18 Drawing 80E06



A-A

WALLS WING

500 BLUERIDGE AVE • ORANGE, CA 92665 • PH/FAX (714) 998-6359/998-0647

TITLE:

Button Lock Apex Slider Assembly

Document ID:

na

DWG ID:

na

DATE:

06-29-98

REVISED:

-

BY:

Pearson

Control Bar Apex Button Lock