

FIRST 36.7 MAST & BOOM

MADE BY

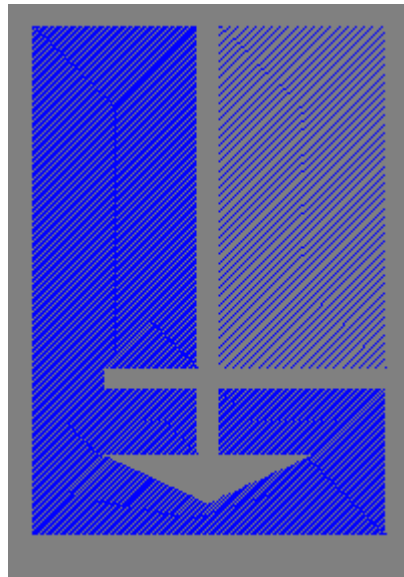
CHARLESTON SPAR

3901 PINE GROVE CIRCLE
CHARLOTTE, NC 28206

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E-MAIL Chssparsal@aol.com



CHARLESTON SPAR

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Charleston Spar manufactures the highest quality OEM, replacement and custom spars for the US market and abroad. Our current OEM customers include Catalina, Beneteau, Island Packet, Tartan Yachts, C&C, J Boats, Cabo Rico, Com-Pac, Seaward and Gold Coast just to name a few. Our ability to build custom spars and meet our OEM commitments keeps us strong and diversified. We also supply Sparcraft One Design masts for J-24's, Etchells, Sonars, Eleven Meters, and Ideal 18's. Our 80,000 square foot facility houses the longest anodizing tanks in the world and an electrostatic powder coating process that can be applied over the anodizing. These features allow us to build the tallest one-piece anodized and powder coated spars in the world. Shipping with our own semi tractor and spar trailer throughout the US on a regular basis helps us better serve our customers.

We offer technical assistance and engineering data from the files of OEM customers dating back to the early days of Kenyon, Isomat, and Sparcraft. These files contain mast drawings from over 150 boat builders in the Isomat section alone. This is a valuable resource for manufacturing replacement spars.

Charleston Spar offers a wide variety of extrusions that include most of our past and present OEMs as well as Sparcraft IMS sections. This variety of larger mast sections enables us to keep up with our multihull commitments in the Caribbean. We can manufacture custom maxi-cruiser masts, Sparcraft IOR and IMS replacement spars measuring over 100 feet. We can anodize, powder coat and ship these spars from our facility in Charlotte, NC.

Our company has room to grow, which we are doing in a balanced and controlled fashion with the help of our sister companies in France, RDM Sparcraft and Facnor. Our group is very strong and has worldwide capabilities and resources. Quality and commitment have made Charleston Spar the leading aluminum spar builder in the US and a valued supplier to boat builders and yards around the world. We can provide services utilizing the largest inventory of parts and extrusions, and the largest database of original manufacturers engineering drawings anywhere.



Charleston Spar mast manufacturing facility Charlotte, NC

SPARCRAFT MAST WARRANTY BY CHARLESTON SPAR INC.

I. WARRANTY, TERMS AND CONDITIONS –

Ocean & Performance Series& Sparcraft One Design Masts, Booms, and Mast Products.

CHARLESTON SPAR for SPARCRAFT MASTS warrants its products in normal usage to be free of defects in materials and workmanship for a period of one year from date of invoice to the original purchaser, subject to the conditions, limitations and exceptions listed below. Any part, which proves to be defective in normal usage during the warranty period, will be repaired or replaced by Charleston Spar.

A. CONDITIONS AND LIMITATIONS:

1. CHARLESTON SPAR for SPARCRAFT MAST LIABILITY SHALL BE LIMITED TO REPAIR OR REPLACEMENT OF THE GOODS OR PARTS DEFECTIVE IN MATERIALS OR WORKMANSHIP.

Please note that CHARLESTON SPAR for SPARCRAFT MASTS usually does not supply standing or running rigging with mast orders; consequently, defects in rigging not supplied or manufactured by CHARLESTON SPAR are not covered by this warranty.

2. CHARLESTON SPAR for SPARCRAFT MASTS shall not be liable in any way for:

- a. Failures due to use of products in applications for which they are not intended, or on a boat other than intended.
- b. Failure due to considerable difference in displacement or stability from original design basis, or for more extreme use conditions from original design basis.
- c. Failures due to improper handling or storage after delivery, or for damages during commissioning or installation by others, or due to improper installation or tuning.
- d. Abnormal use or accident, including but not limited to accidental jibes, running aground or in ungrounding operations, or due to lightning strikes.
- e. Loss of boat use; dockage or boatyard storage; or for crew/passenger expenses or reimbursement.
- f. Ultra violet degradation, chafe, corrosion, or wear and tear.
- g. Breakage, damage, or failure while racing, unless CHARLESTON SPAR has expressly authorized limited racing coverage by separate written agreement.

3. Requests for warranty claims shall be in writing and should include sketch, pictures or detailed description of defective part or reason for claim. Fax or letter is acceptable to initiate claim and to establish age of product. FINAL CLAIM TO BE ON CHARLESTON SPAR AUTHORIZED FORM. CHARLESTON SPAR may request that part(s) be returned to the FACTORY. Return Authorization required for large objects. For SPARCRAFT MASTS not directly purchased through CHARLESTON SPAR, initial requests for parts or repair should be through your dealer/boat manufacturer. Installation labor associated with any warranty claim shall be according to CHARLESTON SPAR repair policies.

B. EXCEPTIONS:

1. This warranty is limited to six (6) months for any product that is being rented or leased (chartered), or which is installed on any vessel that is being rented, leased, or charter, with the exception of items in 1BII.

2. Electrical or hydraulic motors or controls; hydraulic or pneumatic cylinders, valves or seals; and electrical equipment shall carry a one year warranty unless the part's manufacturer carries a longer warranty.
3. CHARLESTON SPAR for SPARCRAFT MASTS shall not be liable for consequential damages to yachts, equipment or other property or persons due to any failure of CHARLESTON SPAR for SPARCRAFT MAST equipment. Some countries and states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation exclusion may not apply to you.

II. This warranty gives you specific legal rights, and you may also have other legal rights, which vary from state to state. Some states or countries do not allow limitations on how long an implied warranty lasts, so the above may not apply to you.

III. Due to ongoing design development and materials/parts procurement, CHARLESTON SPAR reserves the right to alter design and specifications without prior notice. Such changes shall not be taken as retroactive for any existing mast or parts.

IV. Pre-commissioning inspection, installation and tuning of your CHARLESTON SPAR MAST should be performed by an experienced rigger or sailor under his sole responsibility. Adequate time should be allowed between mast inspection and mast stepping. Any discrepancies or missing parts not listed, as backordered should be faxed in to Charleston Spar's attention "Pre-installation Inspection". Due to trucking schedules, masts are sometimes sent incomplete. Missing and/or backordered parts are sent by regular UPS service. Overnight delivery of parts is available for a surcharge.

V. The plastic packaging that masts are wrapped in is for protection during shipping. Condensation can occur and be trapped inside the packaging and possibly cause corrosion. Please do not leave masts stored for long periods in plastic wrap.

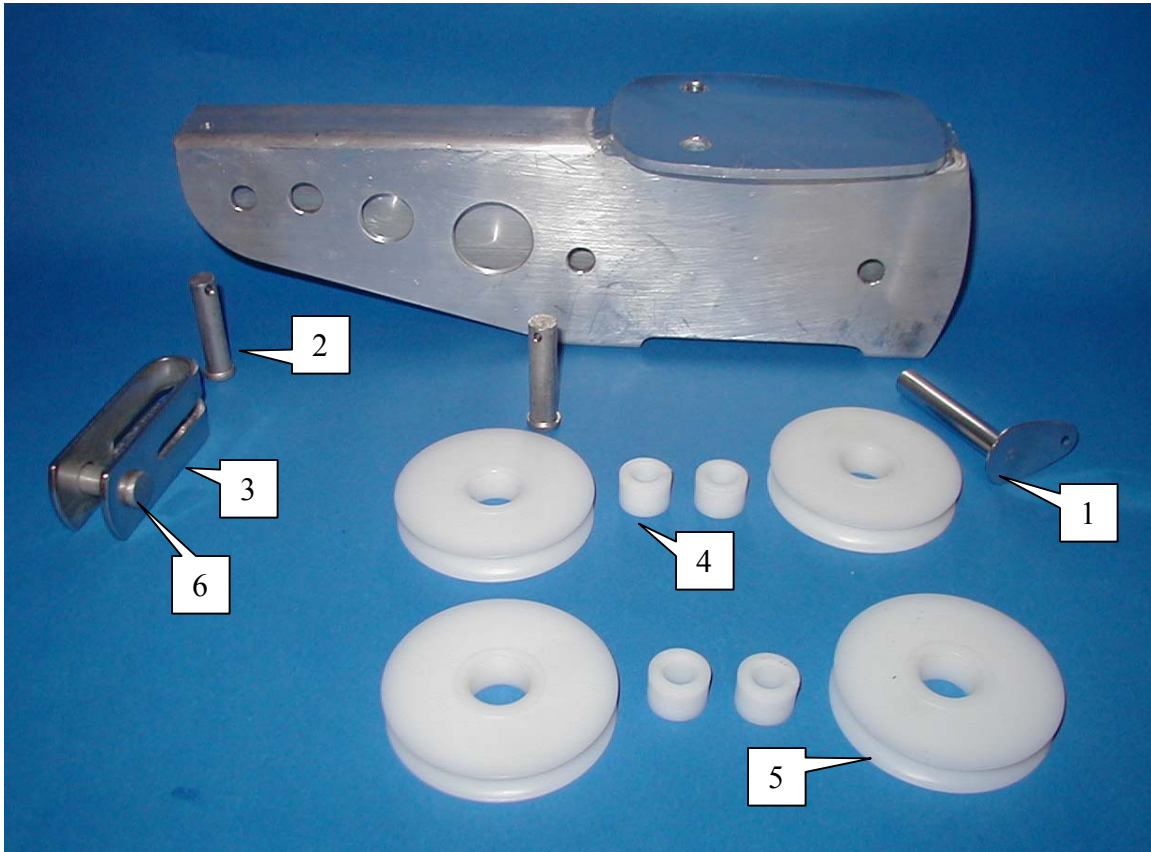
VI. Safety precautions should be taken when working on or up a mast. A second halyard or a safety line should be used when going aloft. Halyards, sheaves, bearings, external blocks, bails, lugs, shrouds and spreaders should be checked periodically AND REPLACED IF SHOWING SIGNS OF WEAR, CHAFE, OR AGE. Be aware of the dangers of masts coming into contact with power lines, particularly areas of boatyard/marinas.

VII. Masts and mast products are designed to be used in a sometimes harsh marine environment. It is common sense and prudent seamanship to inspect masts regularly and to practice good care and regular maintenance. Your CHARLESTON SPAR / SPARCRAFT MAST has most likely been either electrostaticly powder coat painted or anodized to produce a long lasting attractive finish. While these finishes are possibly the best available on the market, the sun and salt can eventually take a toll. Periodic cleaning, rinsing and lubricating can extend your use. Replacement sheaves and other mast parts are available for purchase through Customer Service after your warranty period has expired. CHARLESTON SPAR looks forward to servicing you.

MAST SECTION F385



110 X 202 mm

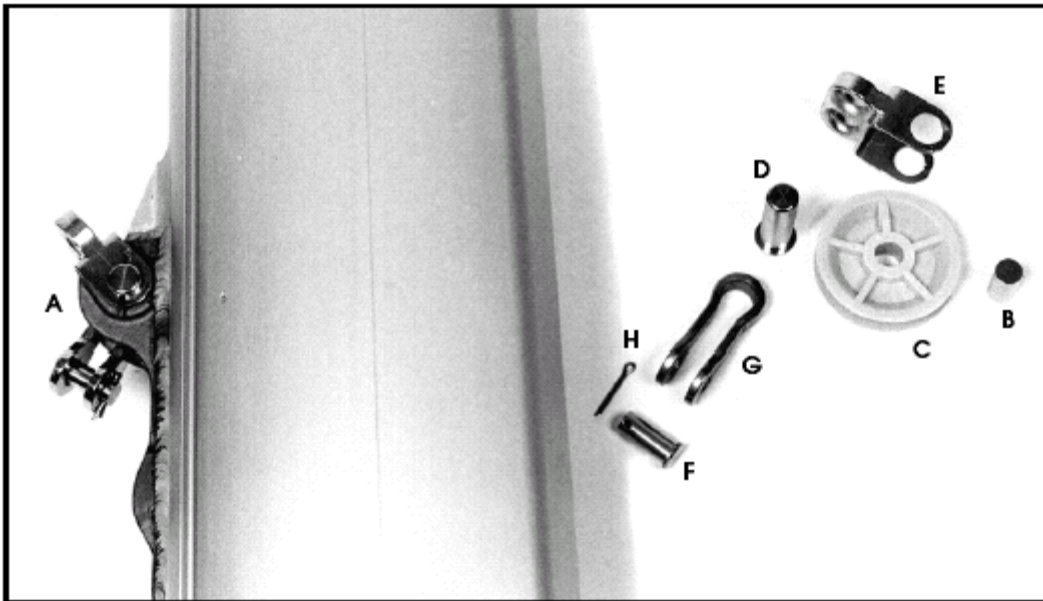


FIRST 36.7 MASTHEAD

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|------------------------------|-------------|----------|
| 1 | S/S TAB AXLE 1/2 X 3 | P208-97 | 1 |
| 2 | CLEVIS PIN 1/2 X 2" (15-095) | 40020312051 | 2 |
| 3 | TOGGLE 12mm | 41420101241 | 1 |
| 4 | ROLLER / BUSHING 12mm | 40502021012 | 4 |
| 5 | DELFIN SHEAVE 85 X 15 | 48510851521 | 4 |
| 6 | CLEVIS PIN 1/2 X 1- 1/4 " | P8-32 | 1 |



**ALUMINUM SHEAVE BOX
POLE TOPPING LIFT
48701000011**



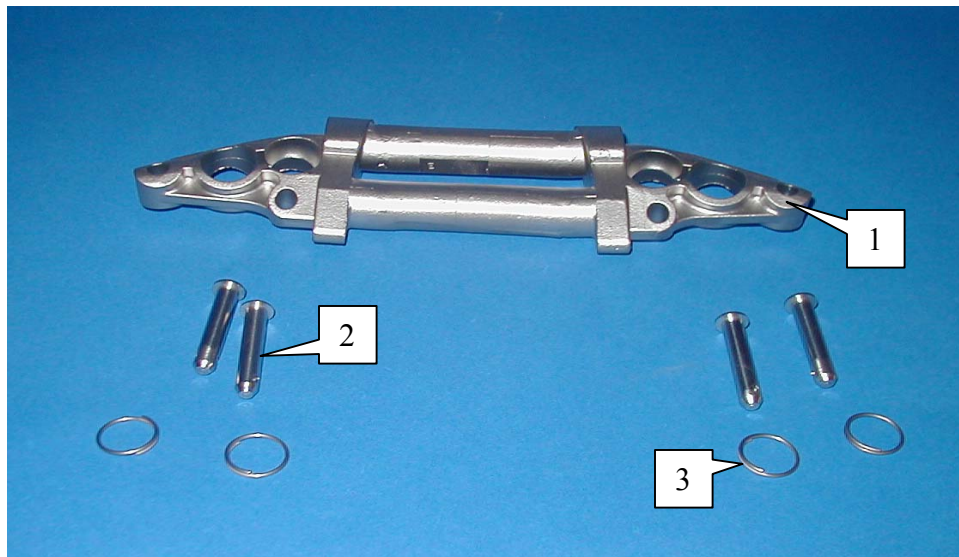
| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|------------------------|-------------|----------|
| A | CASTING BOX | 30502010003 | 1 |
| B | STRIGHT PIN16 X 29.5 | 40020116029 | 1 |
| C | ACETAL SHEAVE 85 X20 | 48518519525 | 1 |
| D | CLEVIS PIN 19 X 51.5 | 40020219051 | 1 |
| E | S/S SPINNAKER LEAD | 43210562109 | 1 |
| F | CLEVIS PIN 16 X 33 mm | 4020216033 | 1 |
| G | TOGGLE 16 mm SINGLE | 41410201661 | 1 |
| H | COTTER PIN 3.2 X 32 mm | 28803032320 | 2 |



HELLA COMBO LIGHT
43009031211

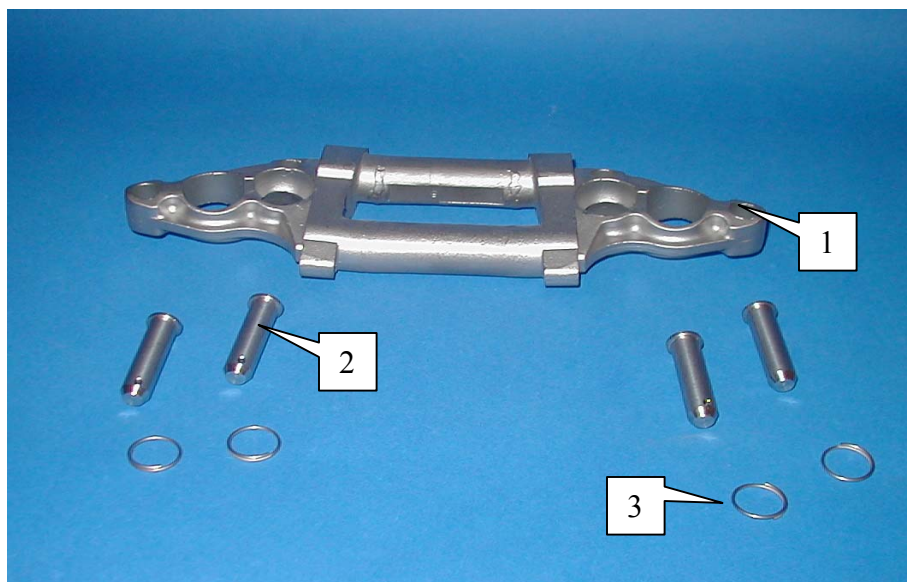


ANCHOR LIGHT
HELLA
43003031211



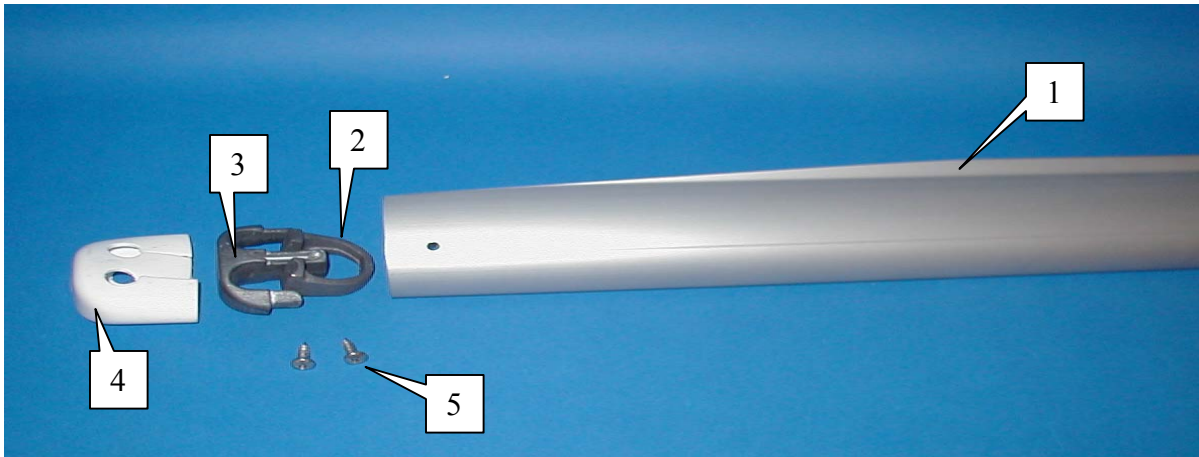
BF3 S/S SPREADER BAR

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|---------------------------|-------------|----------|
| 1 | BF3 S/S SPREADER BAR F460 | 32155030001 | 1 |
| 2 | BF3 SPREADER PIN 8 X 33.5 | 40020308034 | 4 |
| 3 | SPLIT RING 15 | 28809000015 | 4 |



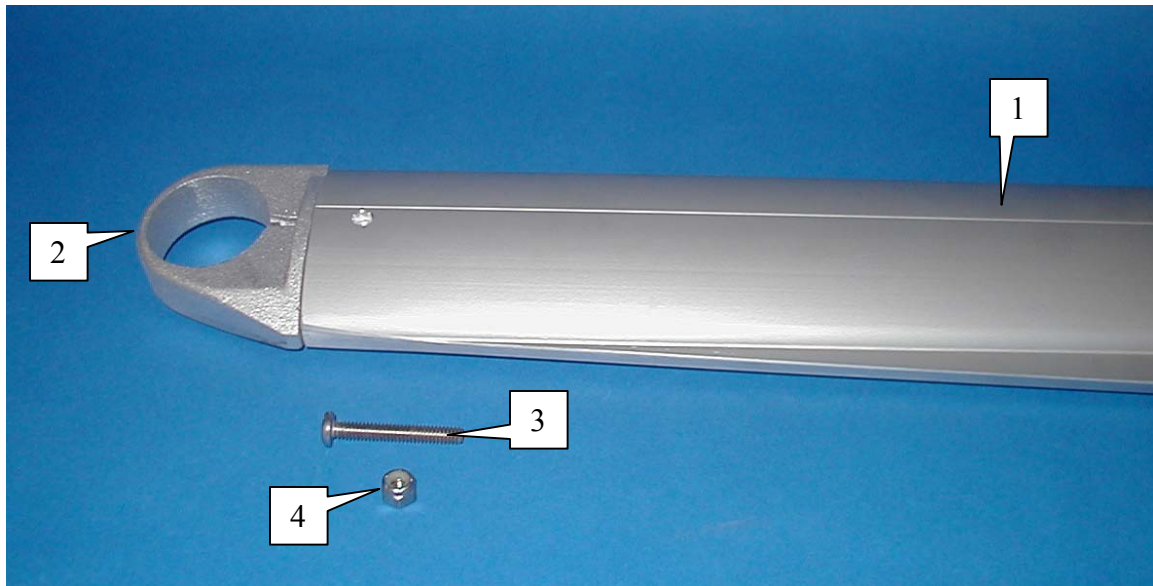
BF4 S/S SPREADER BAR

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|----------------------------|-------------|----------|
| 1 | BF4 S/S SPREADER BAR F460 | 32155040001 | 1 |
| 2 | BF4 SPREADER PIN 12 X 37.5 | 40020212037 | 4 |
| 3 | SPLIT RING 20 | 28809000020 | 4 |



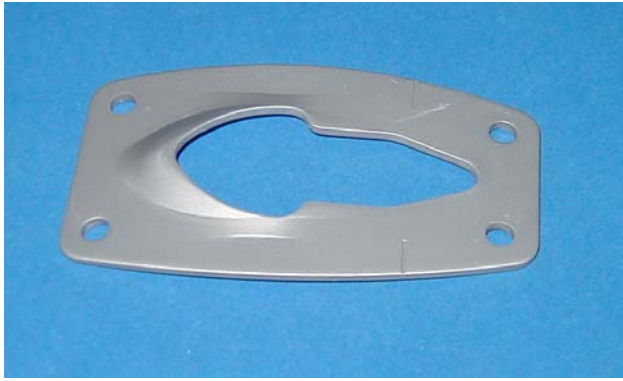
BF3 UPPER SPREADER

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|------------------------------------|-------------|----------|
| 1 | BF3 SPREADER UPPER 805 mm 23 SWEEP | NONE | 2 |
| 2 | BF 3 SPREADER INSERT | 32603040083 | 2 |
| 3 | BF 3 SPREADER TIP | 32603030083 | 2 |
| 4 | BF3 PLASTIC PROTECTOR | 32603050082 | 2 |
| 5 | SCREW | 28606408009 | 4 |



BF4 LOWER SPREADER

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|-------------------------------------|-------------|----------|
| 1 | BF4 SPREADER LOWER 1155 mm 23 SWEEP | NONE | 2 |
| 2 | BF4 DISCONTINUOUS SPREADER TIP | 32604072373 | 2 |
| 3 | 1/4 X 1-3/4" | NONE | 1 |
| 4 | 1/4 LOCK NUT | NONE | 1 |



BF3 SPREADER DOUBLER FOR S/S BAR
2 PER MAST
32231652893



BF4 SPREADER DOUBLER FOR S/S BAR
2 PER MAST
32231652903



SCHAEFER T-TRACK 1-1/4" 3 METERS
40-30
2 END STOPS K-11340



CLAMP DECK RING F385 ANO
36075103853



INJECTED WEDGE F385
36072000385



**7mm BACKING SHELL
2 PER MAST
31001000074**



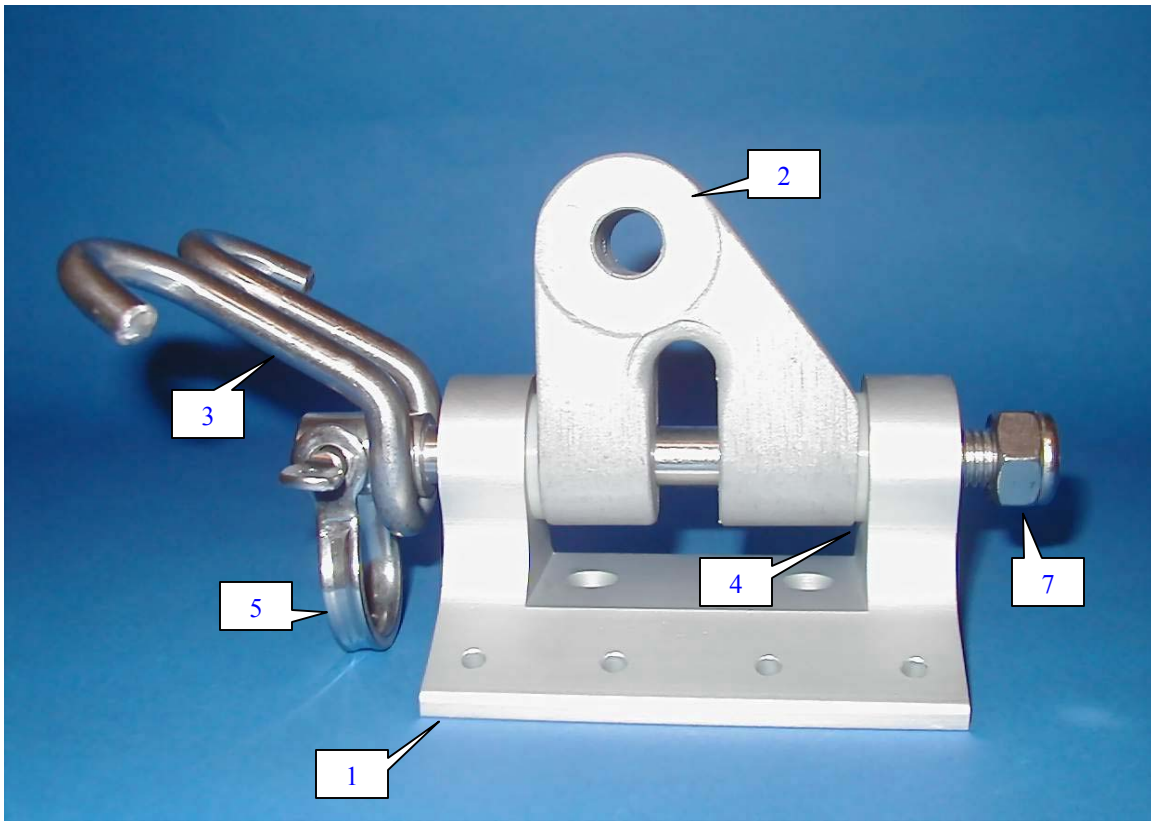
**NG I TIE DOWN OS M10 LG335
2PER MAST
44112116010**



**F385 INTERNAL WATER
PROOFING
35502000385**

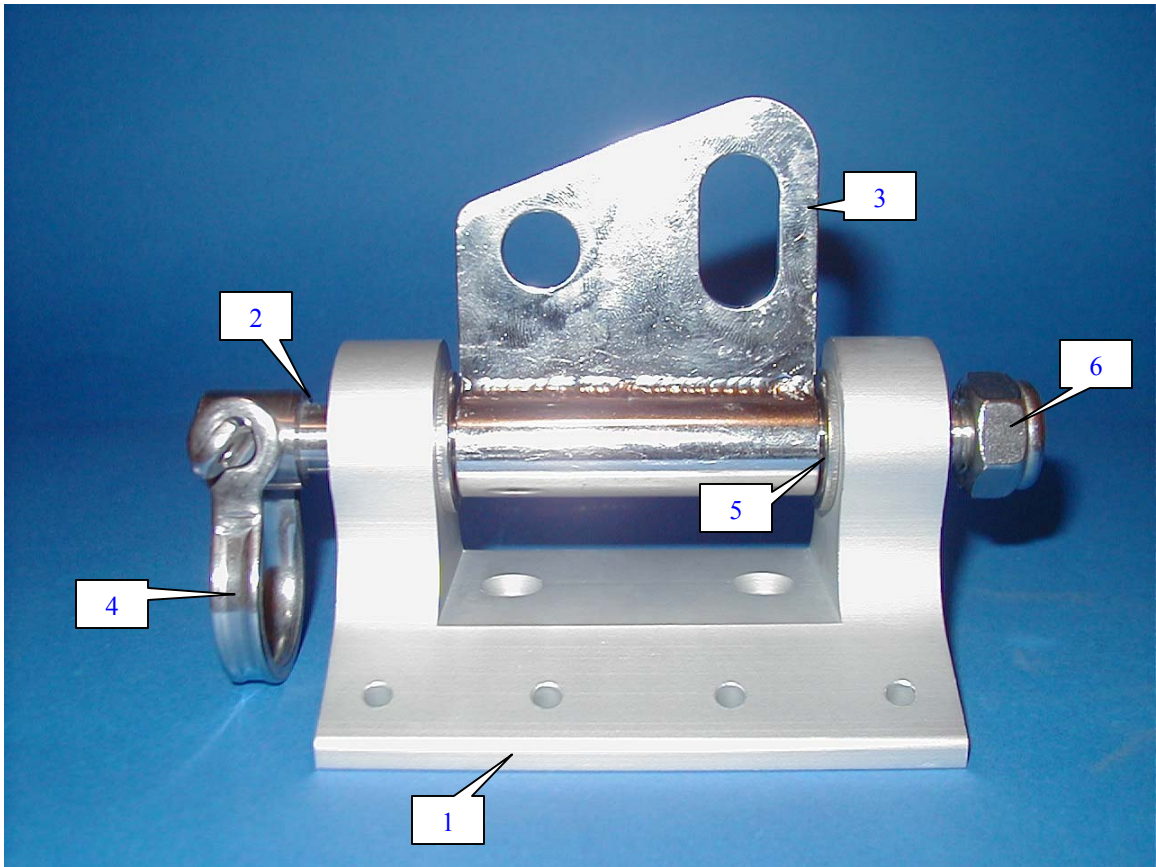


**5" CLEAT
40722D10325**



3451177PF15
F195-460 COMPLETE GOOSENECK BRACKET

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|------------------------------|-------------|----------|
| 1 | F195-460 GOSSENECK BRACKET | 34511774813 | 1 |
| 2 | TOGGLE 12mm HOLE | 34531792183 | 1 |
| 3 | D14 GOOSENECK PIN+10MM HOOK | 34561771464 | 1 |
| 4 | NYLON FLAT WASHER 14/2.5MM | 28602314025 | 2 |
| 5 | BOW SHACKLE | 46001151008 | 1 |
| 6 | A4 M6X35 ROUND MACHINE SCREW | 28601306035 | 2 |
| 7 | S/S LOCK NUT 14 mm | 28600514000 | 1 |
| 8 | S/S RIVET 4.8X25 | 29002248250 | 8 |



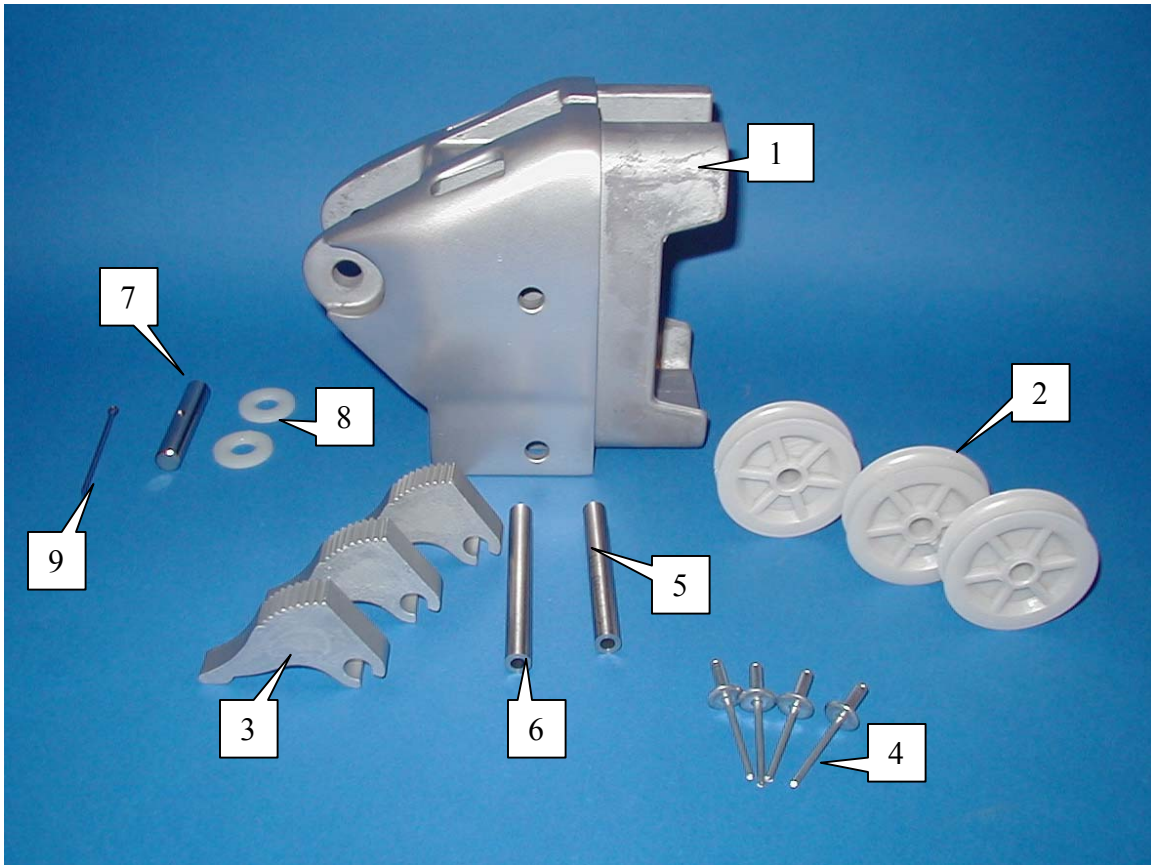
3521181PF15
F385-460 VANG BRACKET COMPLETE

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|-----------------------------|-------------|----------|
| 1 | F385-460 GOOSENECK BRACKET | 34511774813 | 1 |
| 2 | S/S THREADED PIN 14 X 138 | 40022014130 | 1 |
| 3 | D14/14 VANG TOGGLE POLISHED | 35231790104 | 1 |
| 4 | BOW SHACKLE D8 | 46001151008 | 1 |
| 5 | S/S WASHER D14 | 28601014000 | 2 |
| 6 | A4 M14 NUT | 28600514000 | 1 |
| 7 | S/S RIVET 4.8 X 25 | 29002248250 | 8 |

BOOM SECTION F550

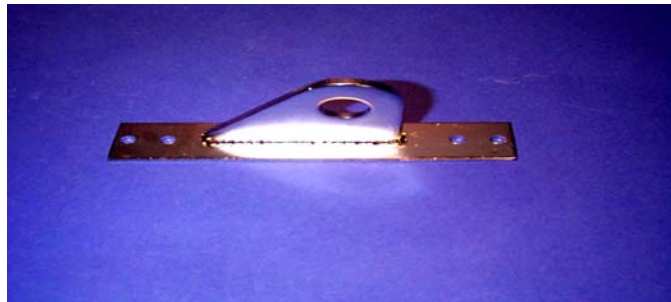


98 X 160 mm

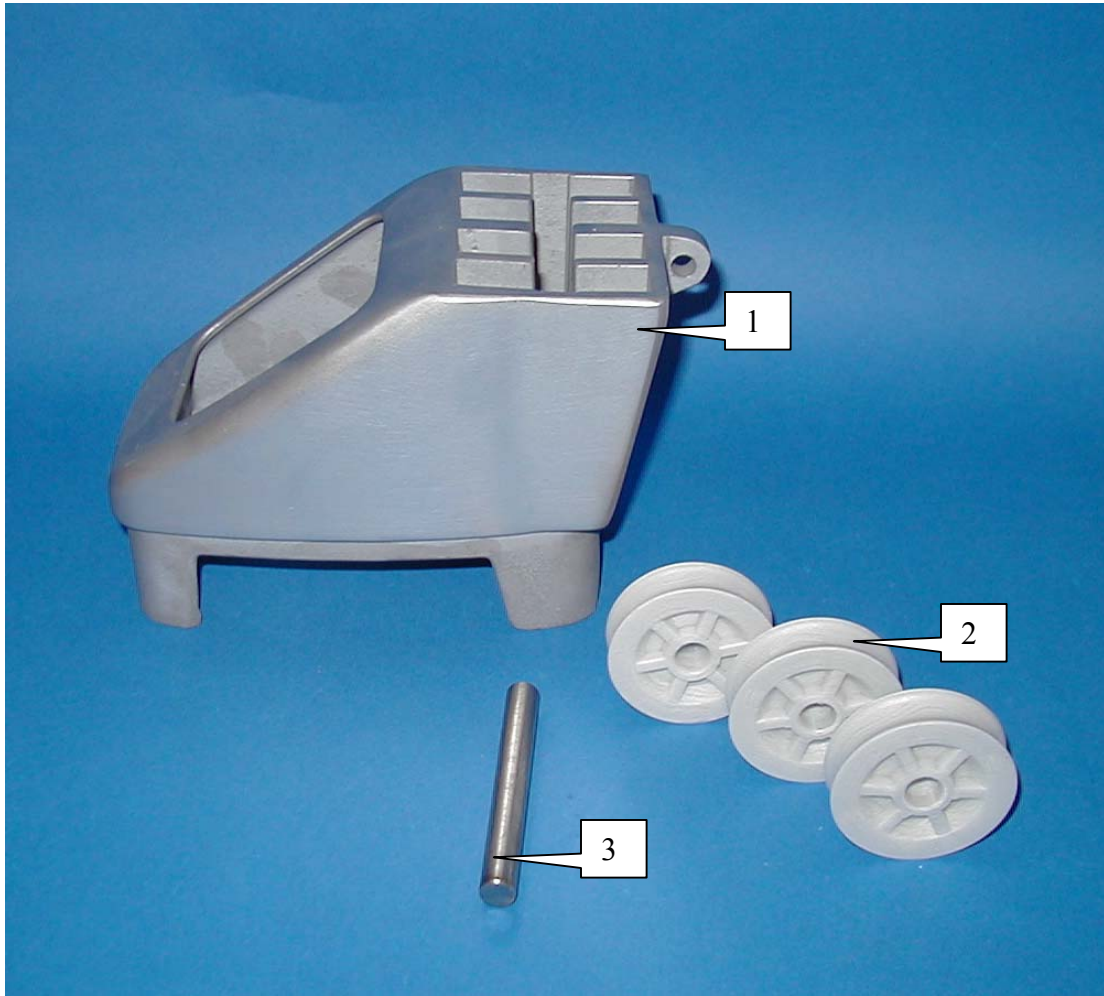


F550 INBOARD BOOM END

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|-------------------------------------|-------------|----------|
| 1 | F550 INBOARD BOOM END | 37010005503 | 1 |
| 2 | ACETAL SHEAVE 60 X 14 mm | 48530601415 | 3 |
| 3 | BOOM JAMMER F220-F550 | 40731206007 | 3 |
| 4 | ALUMINUM RIVET 8 X 14 | 29001248140 | 4 |
| 5 | HOLLOW PIN 10 X 90 FOR JAMMERS | 40020710090 | 1 |
| 6 | HOLLOW PIN 10 X 98 FOR SHEAVES F550 | 40020610098 | 1 |
| 7 | S/S CLEVIS PIN 12 X 62 mm | 40020312062 | 1 |
| 8 | FLAT NYLON WASHER D12 / 2.5 THICK | 28602312025 | 2 |
| 9 | S/S COTTER PIN 12 X 2 X 2 1/2 | 28803032630 | 1 |

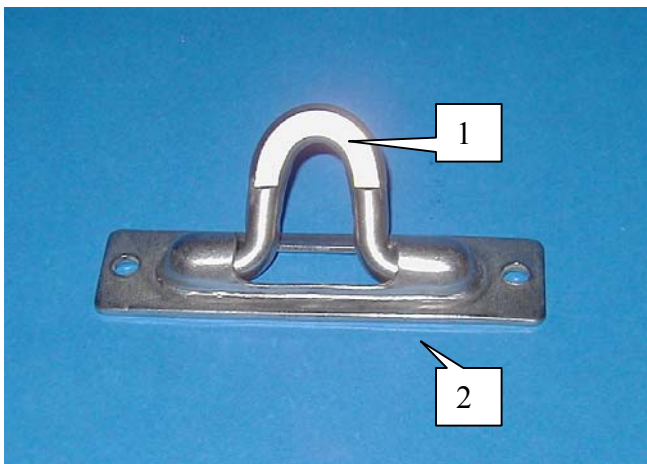


**BOOM VANG LUG
35243202734**



F550 OUTBOARD BOOM END

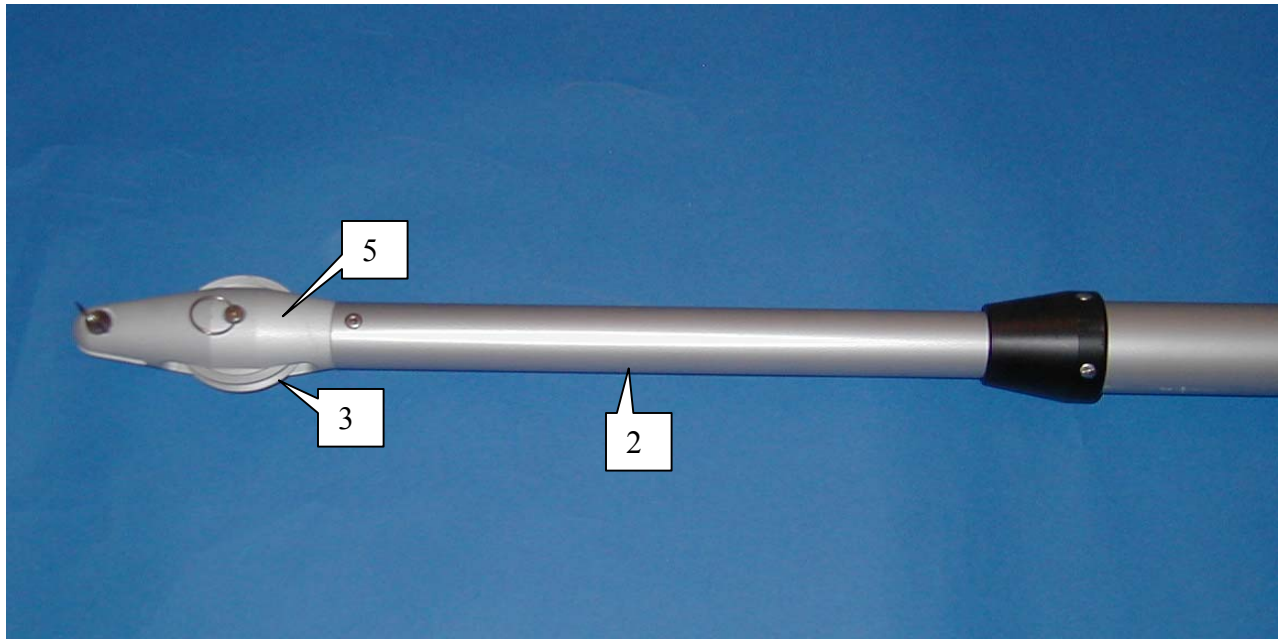
| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|--------------------------|-------------|----------|
| 1 | F550 OUTBOARD END | 37030005503 | 1 |
| 2 | ACETAL SHEAVE 50 X 14 mm | 48530501415 | 3 |
| 3 | S/S STRAIGHT PIN 10 X 83 | 40020110083 | 1 |



1) NGII BAIL 47505558124
2) NGII BAIL PLATE 47550553407



WICHARD SCHAKLE
1214
46001121214



N0 # 3 (1 CYLINDER PNEUVANG)
37560230105

| NUM | DESCRIPTION | PART NUMBER | QUANTITY |
|-----|--------------------------|-------------|----------|
| 1 | N0 1 LOW VANG FITTING | 37520200103 | 1 |
| 2 | D40 LG 860 ALU VANG TUBE | 37550400860 | 1 |
| 3 | ALU SHEAVE 70 X 14.5 mm | 48520701425 | 1 |
| 4 | D55 LG1210 ALU VANG TUBE | 37550551210 | 1 |
| 5 | N0 1 TOP VANG FITTING | 37510200103 | 1 |
| 6 | RAYFLEX GAS SHOCK 512424 | 37530512424 | 1 |

