

INDEX

A

acetone111, 121, 140, 163, 166, 169, 172, 186, 188
adhesives22, 122
5200124, 186, 197, 199
choices122
clean residue first 107, 140, 166
contact cement126
degrading in dampness164
for delicate jobs117, 188
grip30
hot glue126
outlasting fibers53
PSA55, 80
seamstick125
spray80, 126
UV blocking agents78
Adler145-147, 153
America's Cup16, 31, 35
Antal223
Aramid
UV deterioration76
ATN229
awl130, 136, 164, 178, 186, 200, 205,213

B

Band-Aid patch 125, 139, 168, 170,177, 179, 191
batten pockets59
check list207
inboard end replacement207
keys to cruising60
outboard end quick fix206
replacement recap214
steps to replace209
battens61
finishing check list215
full length61
hardware check list61
material comparison61
selecting61
splints218
bias18
blood, cleaning163
broad-seaming37

C

carbon21, 25, 32-33
battens61
snuffer cone229
strength under strain47
UV deterioration76
chafe54, 60
avoiding55

batten207
full batten pocket56
large areas121
minimizing spreader58
protection126
repair122, 135
seam coating protection84
cord supplies121
corner reinforcing146
cross-cut mainsail195

D

Dacron15-21, 25-28, 32-33, 36, 39, 41-44, 54-55, 59, 62, 68, 73, 80-81,100-101
laminate seaming145
window patch177
denier (yarn size)26, 77
Denmark223
do-it-yourself sail repair166
Band-Aid patch168, 170
big spinnaker blowouts 181, 184
spinnaker fabric window patches 171,173
working sail window patch . 177, 179
downwind sail systems228
free-flying furlers228
spinnaker socks229
Doyle Sailmakers224
Dutchman system224
Dyneema224
UV deterioration76

F

fiber21
compression47
fill18
film21
finish18
Fisher, Greg8
flex fatigue43, 47, 202, 207
food, cleaning163
Fredrickson batten car system ..223
free-flying furlers228
furling booms226

G

Gabler, Dolph6, 8, 44, 122-123, 147,186
Genesis31-32
gennakers21, 34, 35
nylon spinnaker fabric28
grease, cleaning163
grommets68, 103
chafe54
choosing68
cutting away195
failure71
local reinforcing41

pressed ring inspection72
spur68, 196

H

hand-sewing hardware reinforcements205
hand-sewn webbing slides69
hand-stitching techniques129
knotting the thread136
needle threading129
tools needed136
with a palm130
zig-zag stitch134
Harken223
Hathaway Sailmakers8, 89, 161
headfoil furlers227
headfoil tape repair219
check list221
headsail luff tapes100
Herreshoff Museum43
Hinckley SW 5179
Hood, Ted8
hot knife . 44, 85-86, 119, 122, 137, 165,201-202, 205, 220
Hutchinson, Terry8

I

in-mast furlers102
insignia cloth ..27, 55, 58, 88, 126, 127,139
batten splint218
vs. spinnaker cloth184
internal boom furlers102

J

jib hanks69
bronze69
check list197
lash-on71
repairs195, 200-201
stainless steel69
jib systems
hanks227
headfoil furlers227

K

Kevlar21, 23, 25, 31-33, 84, 122
mildew162
strength under strain47
UV deterioration76

L

laid fiber31-32
laminated sailcloth
carbon21, 25, 32-33
Dacron 33, 36, 39, 42-44, 54-55
fiber21
Kevlar21, 23, 25, 31-33
Mylar21, 22-23, 31-32
nylon29-30

- Pentex33
polyester25, 29-30, 33, 77
scrim21, 23, 31
Spectra ..21, 23-26, 32, 33, 56, 77
taffeta21, 23-24, 26
Technora25
Vectran21, 25, 32
yarn size26
- lazy jacks49, 56, 102, 224
proper tension103
source of chafe55
- leech battens59
Leisurefurl102
luff rope mainsails101
luff slides63-65
check list197
choosing63
repairs195, 200-201
slide attachment66
- M**
machine sewing techniques150
bobbin hook timing159
bobbin tension155
machine timing156
needle bar height157
needle condition152
thread guides152
thread selection160
top thread tension153
- mainsail77, 186
cover, lack of79
cross-cut33, 195
damage46
Dutchman system224
foot tape42
furling booms226
head slide66
lazy jacks224
luff curve37
luff tracks45, 63, 223
sailcloth type18
Stackpack224
stowmast system225
window patch177
- Marathon 3DL31-32, 41, 78
Maxi-web87
mildew89-91, 118, 227
avoiding80, 91
cleaning161
seam coating84
Mylar21-23, 31, 32, 81
Mystic Seaport Museum109
- N**
needle 45, 82-83, 85, 100, 117, 144, ...148, 150, 179, 180, 186, 188, 200, 205,207, 222
- maintaining164
threading129
- North Cloth8, 16
North NorLam91
North Sails6, 8, 16, 31, 89, 109, 229
nylon28, 29, 30, 35, 120
bleach91, 162
cutting110
patch139
spinnaker tape42
UV deterioration76
webbing56, 67, 84, 121, 203, 207
- O**
oil, cleaning163
old sails
reef area repair191
vertical rips192
- P**
palm ...118, 130, 132, 136, 165, 195
PBO
color25
UV deterioration76
Pentex33
radial-cut sails33
UV deterioration76
- pliers ...27, 115, 119, 133, 136, 196, 220
polyester 25, 29, 30, 33, 55, 68, 77,119, 140, 227
fiber compression48
tape42
UV deterioration76, 186
webbing67, 202, 207
- polypropylene webbing84
portable drill117
pressed rings68
PSA55, 80-81, 126
pushpin ...116, 128, 141, 165, 173, 182,186
- R**
racing tack procedure50
Raymond Sailmakers89
razor knife113, 164, 196
Read, Brad8
Read, Kenny8
reef intermediate tie-in points ...103
reefing46, 48, 215, 227
avoiding problems92
grommet chafe54
reefing rules49
slab224
- reinforcing of corner hardware 202
check list203
hand-sewing hardware reinforce-
ments205
- Reiser Sailmakers89
ripstop22, 28-29, 77, 127, 171
roller furling27, 50, 78, 226
mildew161
sun covers80
rust, cleaning163
Rutgerson SR3571
- S**
S&S49
sail cleaning161
sail construction
3DL or 3DL Marathon paneled ..
42
broad-seaming37
corner reinforcing41
cross-cut paneled32-34
edge shaping37
edge tabling42
film21
finishing style and hardware in-
stallation43
foot tapes42
gennakers34-35
hardware selection45
laid fiber31, 40-41
leech tapes42
local reinforcing41
luff tapes42
miter-cut panel layouts31
miter-cut paneled36
panel assembly38
panel layouts31
panel shaping37
plies and reinforcement39
plying mistakes40
radial-cut paneled32-34
reinforcement mistakes40
seam widths38
spinnakers28, 30, 33-35, 38
X yarn22
- sail damage46
chafe54
creatures88
delamination53
dousing sleeves96
fiber compression47
flex fatigue47
flogging49
flutter50
headsail flogging50
headsail luff tapes100
in-mast furlers102
internal boom furlers102
luff rope mainsails101
mildew89-91
natural causes76
operator error92
plastic88

INDEX

- prevent edge flutter51
 reef considerations48
 reef intermediate tie-in points
 103
 roller furling50
 seam coatings84
 single event causes46
 spinnaker overboard95
 spinnaker poles96
 spinnakers46, 92-94
 spreader ends/batten ends94
 stitching82
 sun covers78
 test for ultraviolet wear78
 ultraviolet76
 webbing wear and tear84-86
- sail deterioration
 chafe related15
 flogging42
- sail hardware failures59
 batten pockets59
 grommet and press ring71
 jib hanks69
 leech battens59
 luff slides63-65
 wire rings74-75
- sail loft
 dirt104
 floor space104
 franchise105
 independent105
 production105
 repair105
 selecting repair loft104
 staff106
 work list106-107
 working with106
- sail repair16
 avoiding stress creation167
 Band-Aid patch139, 168
 cleanliness166
 do-it-yourself166
 flattening out the sail141
 getting the sail under the sewing
 machine142
 gluing to correct side167
 kit supplies121
 luff slide and jib hank . 195, 200,
 201
 matching materials167
 onboard repair kit164
 reef area repair191
 selecting sailcloth139
 tapering loads167
 vertical rips192
 very old sails186, 188
 very used sails139-140
 when not to repair191
 window patch138
- working with sailcloth138
- sail thread82
- sailcloth15
 bias direction35
 fatigue20
 laminated scrim15
 laminated taffeta15
 nylon construction28
 spinnaker cloth15, 28
 stiffness19-20
 supplies121
 warp direction34
 weaving17
 weight19
 woven18
- Sailman 5562
 Sailrite8, 148, 152, 222
 Ultrafeed LSZ-1149
- Savage, John8, 161
- scrim23, 31, 77
- seam coatings84
 seam ripper 114, 165, 171, 196, 208
 seamstick38, 55, 112, 122, 125,
 165,167, 171, 173-174, 176-178,
 181,183-184, 188, 195, 197, 200,
 202-204,211-213, 219, 221
 sewing machine 26, 38, 45, 67, 85,
 100, .. 104, 118, 122, 126, 134, 142,
 150, .. 177, 184, 195, 202, 204, 207,
 219
 commercial144
 if unavailable176, 179
 mega-sewing147
 onboard148, 149
 setup checklist160
- shears110, 174, 178
- Shore, Bill8
 Shore, Doug8
- Singer 107109, 145
- Spectra ..21, 23-27, 32, 33, 56, 77,
 84- 86, 112, 122, 124, 126, 140, 224
 band-aid patch191
 cord164
 mainsail186
 mildew162
 UV deterioration76-77
 webbing121, 165, 203, 207
 window patch177
- spinnakers28, 33-35, 38, 92-94
 asymmetrical35, 41
 ATN229
- big blowouts181, 184
- damage94
 dousing sleeves96
 fabric window patches . 171, 173
 nylon30
 overboard95
 poles96
 polyester29-30
 rig check94
- seaming144
 sleeve problems100
 socks229
 symmetrical34
 spray glue80, 126
 squeegee189-190, 198
- St. Bart's79
- Stackpack224
- Stevens, Rod8, 49
- Stickyback55, 126, 172
- Stormy Weather49
- stowmast system225
- sun covers78, 105
 choices79-81
- Swan31
- T**
 taffeta 21, 23-24, 26, 32, 55, 78, 88
 Tape Drive31, 32
 Tartan 410032
 Technora25
 UV deterioration76
 Tides system223
 tools and techniques109
 torch119-120, 137, 165
 Tupperware120
- V**
 Vectran21, 25, 32
 UV deterioration76
 Velcro99
 Volvo Ocean Race31
- W**
 warp18, 77, 171, 181, 186, 195
 radial-cut33
 rip141, 169
 wax43, 117, 136
 webbing .15, 41, 43, 54, 58-59, 66,
 69,103, 129, 197, 202, 205-206,
 214,227
 hardware attachment146
 layered117
 seam rippers114
 supplies121, 165
 wear and tear84
- Whitbread/Volvo Around the World
 Race35
- window patch26, 112, 138, 164,
 171,177, 179
- wire rings74-75
- work list106
- Y**
 yarn31, 42, 67, 77, 92, 112, 125,
 140,171, 181, 186, 195
 secondary rot192
 size26
 spinnaker fabric92
 X yarn22, 25-26