

NFB™ Rack outboard steering

The easy-to-sell, easy-to-install upgrade to the most popular Rack and Pinion steering system in boating. Teleflex has applied its patented No FeedBack technology to the incredible precision of a rack and pinion system, and engineered-in serious advances in steering comfort and control. The NFB Rack is the rack and pinion steering system of tomorrow, and it's available today in single cable configuration for outboards up to V-6.



Features:

- Patented No FeedBack™ Steering mechanism.
- Precise feel of 4 turns from lock-to-lock.
- Minimal clutch free play.
- Standard 3/4" tapered steering shaft.
- Stainless steel cable output ends.
- Fast, easy installation; back mount design allows quick placement in dash *PLUS* mounting hardware fits industry-standard Teleflex and Morse rack holes.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.

Applications:

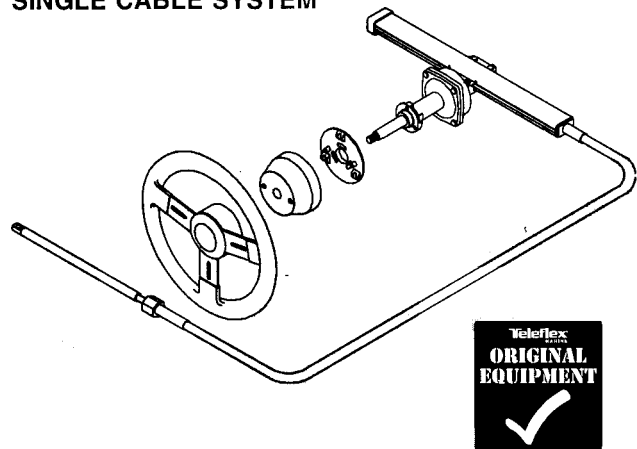
NFB Rack is suitable for most boats with single non-power assisted outboard engines up to V-6 and minimal engine flutter or steering instability.

New Back Mount design means easy installation; helm & cable are installed as a unit from behind dash and replace standard Teleflex rack steering without dash modifications.

For single station use only.

****Replaces most MORSE CONTROLS and older TELEFLEX rack and pinion steering systems for non-power-assist outboards & I/Os.**

NFB™ RACK
SINGLE CABLE SYSTEM



(4 turns lock-to-lock)

Tilt
STEERING
available!

Phone: 800-225-0004 ☎ Fax: 908-486-1056
e-mail: sales@sealandpower.com

NFB™ Rack outboard steering

Complete System:

NFB Rack Steering Kit
(Single Cable) SS151XX

Components:

NFB Rack Helm (single/dual) SH5230P

Rack Single Cable SSC134XX
(XX = cable length in feet. A 14' SSC134 would be SSC13414.)

Rack NFB Bezel (90°) SB39544P

Options:

NFB Rack Tilt Dash Module SH1535230
Includes tilt helm and mechanism. Easy way to upgrade to Tilt or replace older Tilt systems. Requires SSC134 cable.

NFB Rack Tilt Helm (single/dual) ... SH91630P*
** Requires SH91500/SH91700 tilt mechanism to complete Tilt Steering system installation.*

Performance Tilt Mechanism SH91500P
TFXtreme Tilt Mechanism SH91700P

Dash Wedge Kit (10°) SB27448P
Dash Wedge Kit (20°) SB27449P

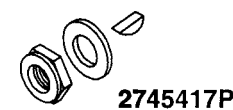
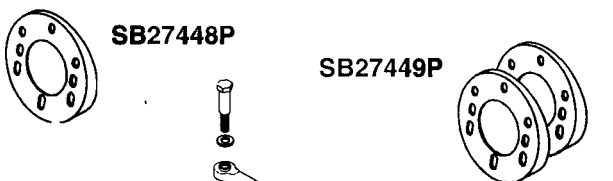
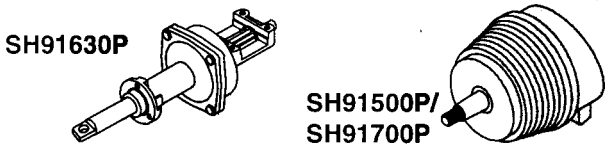
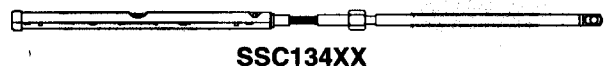
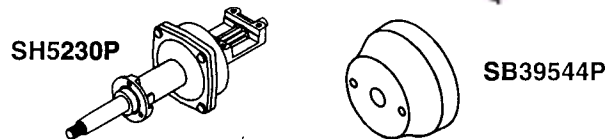
TFXTREME Rack Single Cable SSC154XX
Use this cable for minimal backlash & superior steering response. (XX = cable length in feet. A 14' SSC134 would be SSC15414.)

Universal Tie Bar SA27252P
(NOTE: Maximum tie bar length: 25-1/2")

Cable Gard (fits most tilt tubes) SA39329P

Service Items:

Steering Wheel Hardware Kit 2745417P



NOTE: Teleflex rack cables SSC134XX, SSC135XX and SSC154XX DO NOT replace the SSC124XX or any Morse Rack & Pinion cables and can only be used with current generation Teleflex Rack & Pinion helms.

The Rack sterndrive steering

Traditional Teleflex mechanical steering is still the choice for stern drives, inboards and other power assisted applications. It's just right for power steered boats in which No FeedBack™ systems are not required. Our new Rack features the precision and comfort of four turns lock-to-lock. In single cable configurations, this is the best 4-turn choice for power-steered boats.

Features:

- Precise, easy 4 turns lock-to-lock.
- Kits include: cable, helm, bezel and hardware.
- Standard 3/4" tapered steering shaft.
- Stainless steel cable output ends.
- Fast, easy installation: back mount design allows quick placement in dash PLUS mounting hardware fits industry-standard Teleflex and Morse rack holes.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.

Applications:

Virtually all power-assisted stern drive boats with wheels up to 16" diameter.

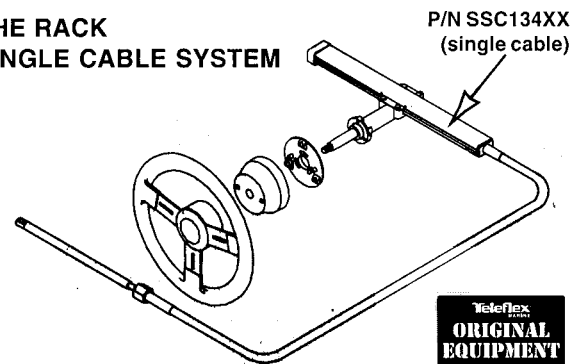
Back Mount Rack Replaces 1984-date Teleflex "The Rack" steering without dash modification. (Requires use of SSC134 Back Mount Rack cable.)

For single station use only.

**** Replaces most MORSE CONTROLS and older TELEFLEX rack and pinion steering systems for power-assist outboards, I/Os and small inboards.**

Teleflex
MARINE

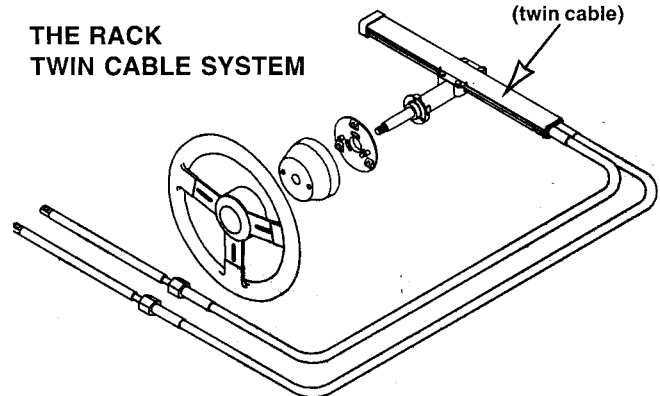
THE RACK SINGLE CABLE SYSTEM



P/N SSC134XX
(single cable)



THE RACK TWIN CABLE SYSTEM



P/N SSC135XX
(twin cable)

(4 turns lock-to-lock)

Tilt
STEERING
available!

The Rack sterndrive steering

Complete System:

BM Rack Steering Kit
(single cable) SS141XX

Components:

Back Mount Rack Helm (single/dual) SH5210P

Back Mount Rack Single Cable SSC134XX
(XX = cable length in feet. A 14' SSC134 would be SSC13414.)

Back Mount Bezel (90°) SB39526P

Options:

BM Rack Tilt Dash Module SH1535210
Includes tilt helm and mechanism. Easy way to upgrade to Tilt or replace older Tilt systems. Requires SSC134 or SSC135 cable.

BM Rack Tilt Helm (single/dual) SH91610P*
** Requires SH91500/SH91700 tilt mechanism to complete Tilt Steering system installation.*

Performance Tilt Mechanism SH91500P
TFXtreme Tilt Mechanism SH91700P

TFXTREME Rack Single Cable SSC154XX
Use this cable for minimal backlash & superior steering response. (XX = cable length in feet. A 14' SSC134 would be SSC15414.)

Back Mount Rack Dual Cable SSC135XX†
† For dual rack & pinion steered stern drives.

Dash Wedge Kit (10°) SB27448P
Dash Wedge Kit (20°) SB27449P

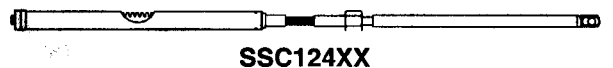
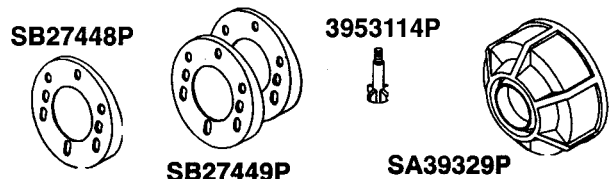
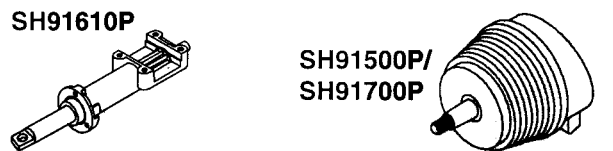
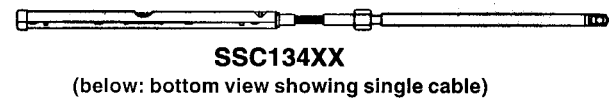
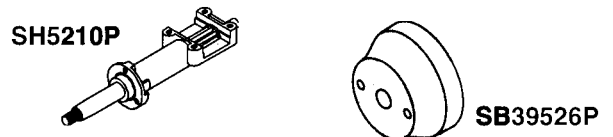
Back Mount Rack Friction Device 3953114P

Cable Gard (fits most tilt tubes) SA39329P

Service Items:

Old Style "The Rack" Cable
(1984-date) SSC124XX**

** For 1984-1996 "Old Style" The Rack rack & pinion systems. Does not fit "New Style" ("Back Mount") rack systems and is not interchangeable with SSC134.



NOTE: Teleflex rack cables SSC134XX, SSC135XX and SSC154XX DO NOT replace the SSC124XX or any Morse Rack & Pinion cables and can only be used with current generation Teleflex Rack & Pinion helms.

Morse Command 290

Morse®

Morse Controls mechanical steering systems are no longer being produced. Many items, such as the Command 290 components shown here, are still available. Contact us when replacing Morse steering components for current availability or a recommendation for an upgrade to a new Teleflex steering system.

**MORSE COMMAND 290
SINGLE CABLE
ROTARY SYSTEM**



**MORSE COMMAND 290
TWIN CABLE
ROTARY SYSTEM**

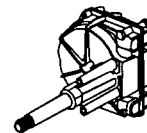
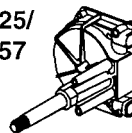


(3 turns lock-to-lock)

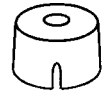
Components:

- Command 290 helm (no brake)292525
- Command 290 twin cable helm (with brake)305015
- 90° Black Bezel (replaces 292521)308559
- Command 290 Rotary Steering Cable (replaces 304411-000-XXX) **SSC61XX**

292525/
304857



305015



308559
(replaces
292521)



SSC61XX
(replaces 304411-000-XXX)

Options:

- Command 290 helm (with brake)304857
- 20° Black Bezel (replaces 293090)308561
- Adjustable Brake (Friction Device)292522

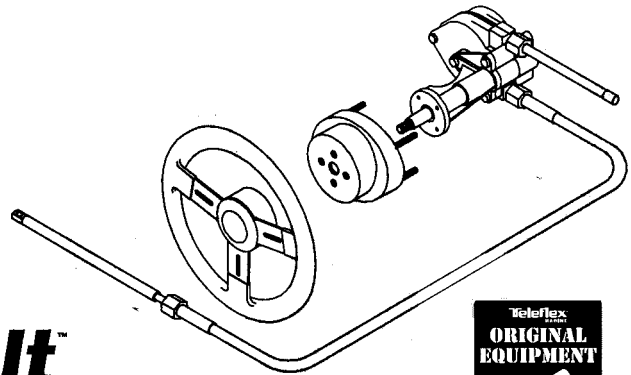
Service Items:

- Command 290 Helm Cable Take-up Tube (Spent Travel Tube)301098
- Command 290 Helm Hardware Kit.....305002

Big-T[®] inboard steering

The Original Teleflex Steering System!
For over 35 years, Big-T[®] has been the most durable, versatile mechanical steering system made, with both single and dual station capability. The heavy duty helm incorporates a strong steel pinion, dual diecast gears and meaty shaft bearing supports, all encased in a rugged gear housing. It's no wonder owners of small inboards have counted on the Teleflex Big-T since 1963!

**BIG-T[®]
SINGLE STATION SYSTEM**



Tilt
STEERING
available!

Features:

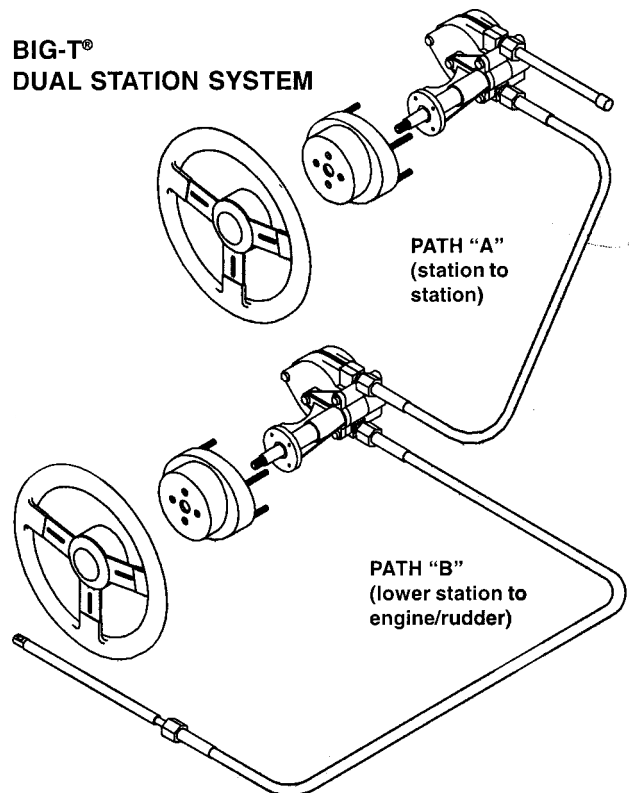
- Available in single or dual station versions.
- Responsive 3 turns from lock-to-lock.†
- Standard 3/4" tapered steering shaft.
- Stainless steel cable output ends.
- 2-piece bezel for 90° or 20° helm mount to dash.
- Optional 1-piece 90° bezel for compact mounting.
- Uses Teleflex SSC72 type cable.‡
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.

† 3.0 turns when all of standard steering cable travel is utilized.

‡ Tension and dual station require purchase of different cables.

(3 turns lock-to-lock)

**BIG-T[®]
DUAL STATION SYSTEM**



Applications:

Inboards to 34 feet with one or two engines. Also suitable for stern drive boats with power-assisted steering.

****Replaces most MORSE CONTROLS rotary steering systems.**

Big-T[®] inboard steering

Components:

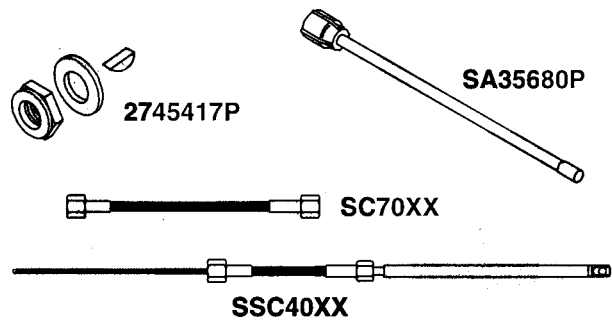
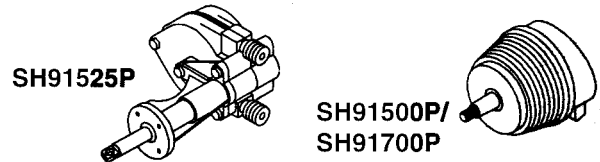
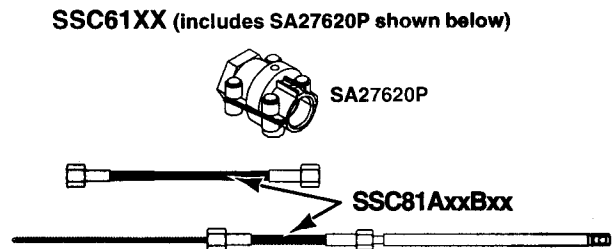
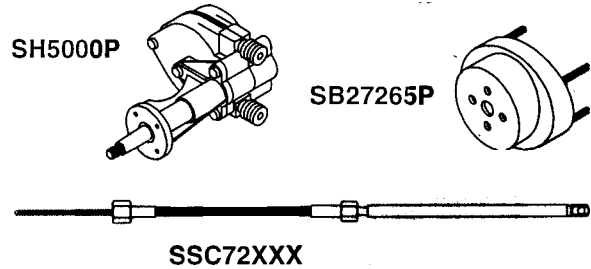
- Big-T Helm.....SH5000P
- Big-T Cable (single station push-pull)SSC72XX
(XX = cable length in feet. A 14' SSC72 would be SSC7214.)
- QC II Cable (single station push-pull)SSC61XX
- Big-T Cable (dual station)..... SSC81AxxBxx
(This is a special-order cable and is not returnable; xx = length in feet.)
- Bezel 2-pc. Black (90°/20° mount) .. SB27265P

Options:

- Big-T Tilt Helm SH91525P*
* Requires SH91500/SH91700 tilt mechanism to complete Tilt Steering system installation.
- Performance Tilt Mechanism SH91500P
- TFXtreme Tilt Mechanism SH91700P
- Bezel 2-pc. White (90°/20° mount).. SB27263P
- Bezel 1-pc. Chrome (90° mount)..... SB27268P
- Cable Gard (fits most tilt tubes) SA39329P

Service Items:

- Steering Wheel Hardware Kit 2745417P
- Spent Travel Tube (Big-T) SA35680P
- Dual Station Conduit (Path "A") SC70XX
- Dual Station Cable (Path "B") SSC40XX

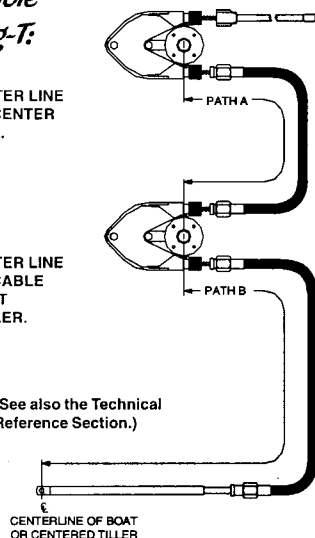


How To Measure Cable for Dual Station Big-T:

PATH "A": CENTER LINE OF WHEEL TO CENTER LINE OF WHEEL.

PATH "B": CENTER LINE OF WHEEL TO CABLE CONNECTION AT CENTERED TILLER.

(See also the Technical Reference Section.)



(For example, if the cable routing from engine to lower station is 18 feet and 10 feet from station to station, order part number SSC81A10B18 cable.)

Phone: 800-225-0004 Fax: 908-486-1056
e-mail: sales@sealandpower.com

NFB™ 4.2 outboard steering

Patented No FeedBack Steering Control for about the cost of an old-fashioned steering replacement. With the advantage of 4.2 turns lock-to-lock and our patented No FeedBack steering to lock out steering loads, Teleflex's 4.2 Rotary NFB Steering Systems are the most revolutionary advance in mechanical steering in many years. Available with a single cable configuration for most boats and dual cable for applications with engine flutter or steering instability.



Features:

- Patented No FeedBack™ Steering mechanism.
- Comfortable 4.2 turns from lock-to-lock.
- Minimal clutch free play.
- Standard 3/4" tapered steering shaft.
- Stainless steel cable output ends.
- Fast, easy installation: uses Teleflex Quick Connect (QC) steering cable and industry-standard Safe-T mounting hardware.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.

Applications:

Virtually all of today's outboard boats with wheels to 16" diameter.

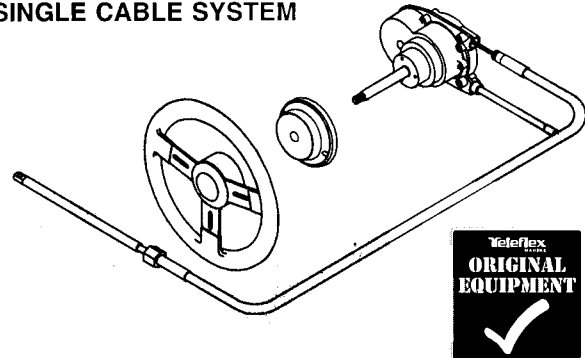
Single cable configuration for most boats. Dual cable for boats with engine flutter or steering instability.

Replaces Teleflex Safe-T® steering systems without dash modification.

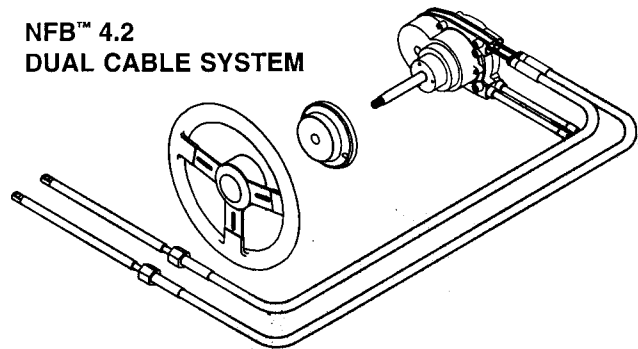
For single station use only.

****Replaces most MORSE CONTROLS and older TELEFLEX rotary steering systems for non-power-assist outboards & I/Os.**

NFB™ 4.2
SINGLE CABLE SYSTEM



NFB™ 4.2
DUAL CABLE SYSTEM



(4.2 turns lock-to-lock)

Tilt
STEERING
available!

Phone: 800-225-0004 ☎ Fax: 908-486-1056
e-mail: sales@sealandpower.com

NFB™ 4.2 outboard steering

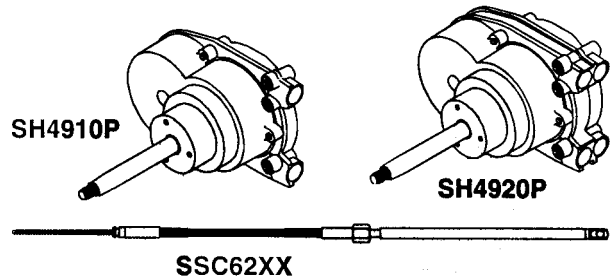
Complete Systems:

- NFB 4.2 Tilt Steering Kit
(Single Cable) SS157XX
- NFB 4.2 Steering Kit
(Single Cable) SS147XX
- NFB 4.2 Dual Steering Kit
(Dual Cable) SS148XX



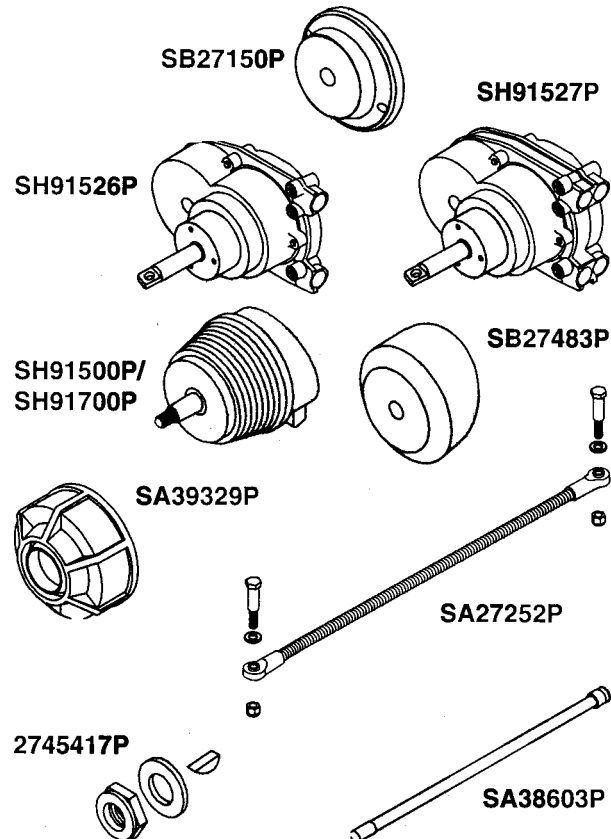
Components:

- NFB 4.2 Helm SH4910P
- NFB 4.2 Dual Helm SH4920P
- QC Cable SSC62XX
(XX = cable length in feet. A 14' SSC62 would be SSC6214.)
- Rotary NFB Bezel (90°) SB27150P



Options:

- NFB 4.2 Single Tilt Dash Module .. SH1534910
Includes tilt helm and mechanism. Easy way to upgrade to Tilt or replace older Tilt systems. Requires SSC61 or SSC62 cable.
- NFB 4.2 Single Tilt Helm SH91526P*
- NFB 4.2 Dual Tilt Helm SH91527P*
** Requires SH91500/SH91700 tilt mechanism to complete Tilt Steering system installation.*
- Performance Tilt Mechanism SH91500P
- TFXtreme Tilt Mechanism SH91700P
- Bezel (20°) SB27483P
- Universal Tie Bar SA27252P
(NOTE: Maximum tie bar length: 25-1/2")
- Cable Gard (fits most tilt tubes) SA39329P



Service Items:

- Steering Wheel Hardware Kit 2745417P
- Spent Travel Tube (Rotary NFB) SA38603P

Phone: 800-225-0004 Fax: 908-486-1056
e-mail: sales@sealandpower.com

Safe-T[®] QC sterndrive steering

Traditional Teleflex Marine mechanical steering is still the choice for stern drives, inboards and other power assisted applications. It's just right for power steered boats in which No FeedBack™ systems are not required. Safe-T[®] QC offers the quick response of three-turn steering, and easy installation with a patented, no-tools-required cable connection at the helm. In single cable configurations, this is a great 3-turn choice for power-steered boats.

Features:

- Quick-response of 3 turns lock-to-lock.
- Kits include: cable, helm, bezel and hardware.
- Standard 3/4" tapered steering shaft.
- Stainless steel cable output ends.
- Fast, easy installation: uses simple snap-in cable connection, Teleflex Quick Connect (QC) cable, and industry-standard Safe-T mounting hardware.
- Meets A.B.Y.C. standards.
- Meets N.M.M.A. certification requirements.

Applications:

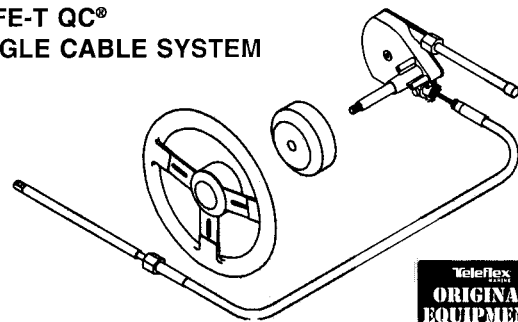
Virtually all power-assisted stern drive boats with wheels up to 16" diameter. Safe-T QC™ replaces all Teleflex Safe-T helms made since 1968 with little or no dash modifications. (Requires use of SSC62 QC steering cable.)

For single station use only.

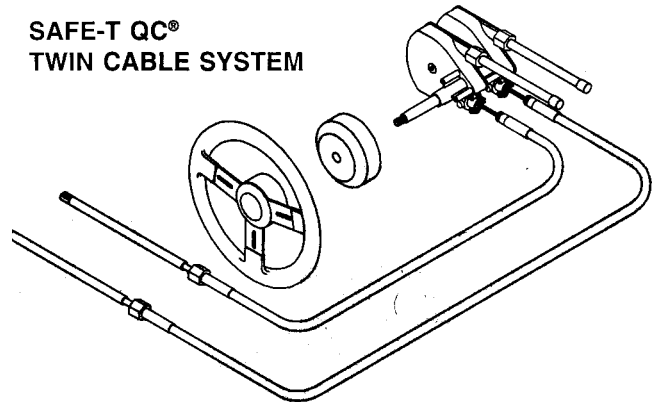
**** Replaces most MORSE CONTROLS and older TELEFLEX rotary steering systems for power-assist outboards, I/Os and small inboards.**

Teleflex[®]
MARINE

SAFE-T QC[®]
SINGLE CABLE SYSTEM



SAFE-T QC[®]
TWIN CABLE SYSTEM



(3 turns lock-to-lock)

Tilt
STEERING
available!

Phone: 800-225-0004 ☎ Fax: 908-486-1056
e-mail: sales@sealandpower.com

Safe-T[®] QC sterndrive steering

Complete System:

Safe-T QC Steering Kit (single cable) SS137XX

Components:

Safe-T QC Single Helm SH5094P

QC Cable SSC62XX
(XX = cable length in feet. A 14' SSC62 would be SSC6214.)

Safe-T QC Bezel (90°) SB27484P

Options:

Safe-T QC Sgl. Tilt Dash Module .. SH1535094
Includes tilt helm and mechanism. Easy way to upgrade to Tilt or replace older Tilt systems. Requires SSC61 or SSC62 cable.

Safe-T QC Single Tilt Helm SH91523P*
* Requires SH91500/SH91700 tilt mechanism to complete Tilt Steering system installation.

Safe-T QC Dual Tilt Helm SH91524P*†
* Requires SH91500/SH91700 tilt mechanism to complete Tilt Steering system installation.
† For dual cable steered stern drives.

Performance Tilt Mechanism SH91500P
TFXtreme Tilt Mechanism SH91700P

Safe-T QC Dual Helm SH5294P†

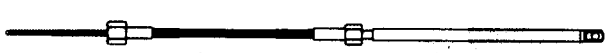
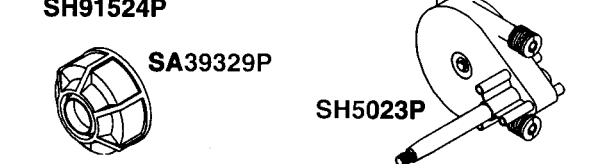
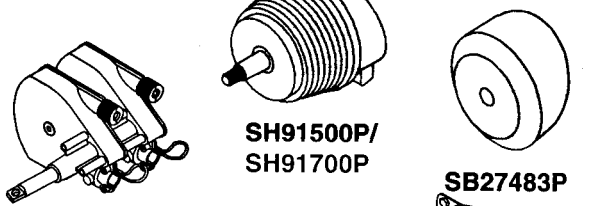
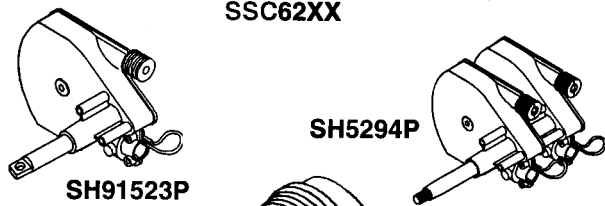
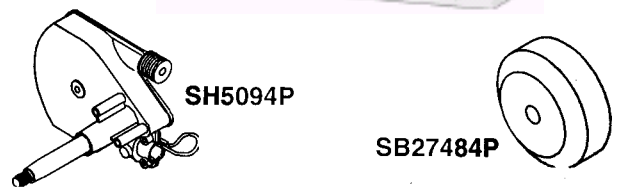
Safe-T QC Bezel (20°) SB27483P
Cable Gard (fits most tilt tubes) SA39329P

Service Items:

Safe-T "TS" helm SH5023P

Safe-T Cable (with helm nut) SSC72XX
QC II Cable (Safe-T QC or "TS") SSC61XX
QCII Threaded Helm Converter SA27620P

Steering Wheel Hardware Kit 2745417P
Spent Travel Tube SA35680P



Morse®

mechanical steering connection kits and parts

Connection Kits:

Support Tube (Aluminum) 64480

Front Hookup, Outboard Transom Mount
(Galvanized) 300610

Front Hookup, Outboard Transom Mount
(Stainless Steel) 300611

Adapter Bracket for Johnson/Evinrude
40 hp and under 300612
(See also Teleflex outboard clamp block kits on following pages.)

Front Hookup, Outboard
Splashwell Mount 300613
(See also Teleflex splashwell mount kits on following pages.)

Hookup, Inboard Transom Mount
for Volvo, 1977 and earlier 300614

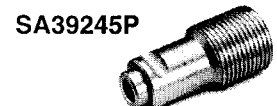
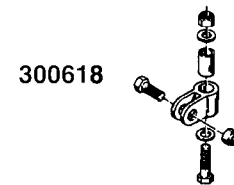
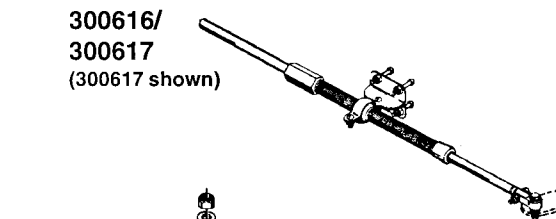
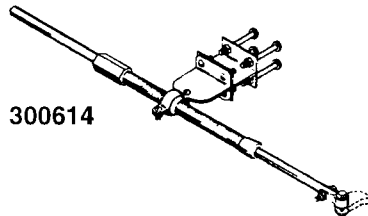
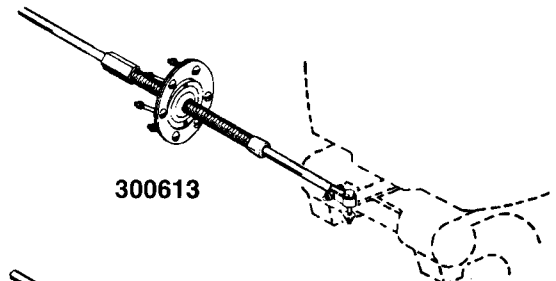
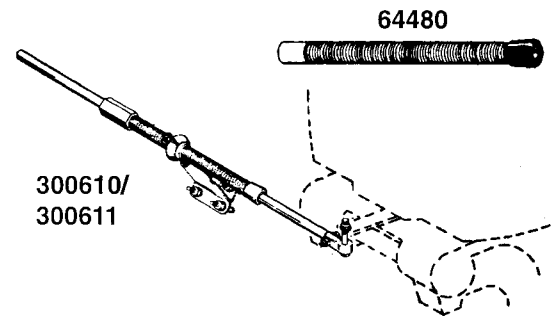
Hookup, Inboard Stand-off,
Tall Bracket 300616

Hookup, Inboard Stand-off,
Short Bracket, 2" 300617

Hookup Inboard Stand-off,
Short Bracket 2" (Stainless Steel) 307046
(See also Teleflex ski boat inboard clamp block kits on following pages.)

Swivel Assembly Only 300618
(See also Teleflex ski boat clevis kit on following pages.)

Command 290 Helm Converter
(replaces 300959) SA39245P
(Adapts Morse Command 290 single-cable helms for use with Teleflex SSC72 [threaded helm nut] or SSC61 [QC II] steering cables.)



Steering Connection Kits:

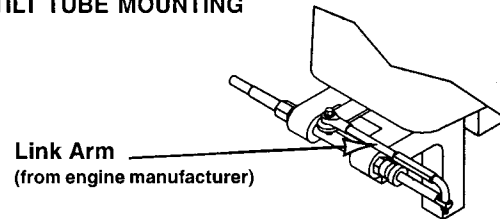
There are four basic types of connections for mechanical steering.

Tilt Tube Mount

This is the most popular steering cable-to-engine connection method for outboards with an ABYC standard tilt tube. This installation requires the use of a link arm which can be purchased from the engine manufacturer.

Parts Required: Engine Manufacturer's Link Arm

TILT TUBE MOUNTING

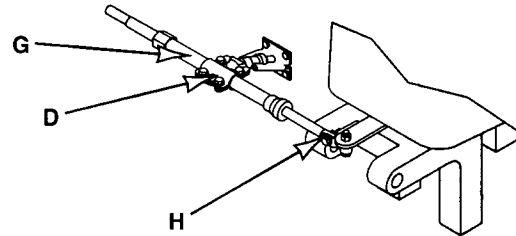


Transom Support Mount

This cable connection is used for older model outboards without tilt tubes, low HP outboards or applications where transom design interferes with standard tilt tube mounting.

Parts Required: D, G & H
Master Kits (Include D, G & H):
Stainless Steel Transom Mount Kit SA27255P or
Corrosion Resistant Transom Mount Kit SA27256P

TRANSOM SUPPORT MOUNTING

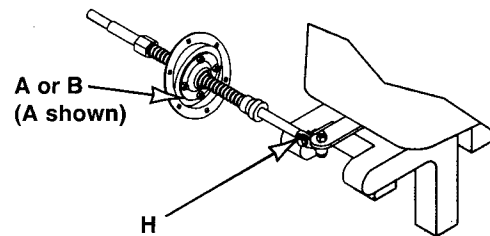


Splashwell Mount

This cable connection is used on boats where standard tilt tube or transom support mounting methods are precluded by a splashwell box or lack of engine tilt tube. The mounting surface is usually near perpendicular to the transom and between 12 and 16 inches from the center line of the boat and/or tiller (25-33" total splashwell width).

Parts Required: B, H (90°) or A, H (15°)
Master Kits (Include H & A/B):
90° Splashwell Mount Kit SA27254P or
15° Splashwell Mount Kit SA27253P

SPLASHWELL MOUNTING

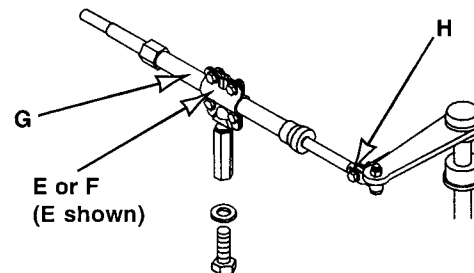


Inboard Stringer Support Mount

This connection is used on inboards and is attached to a stringer or suitable mounting bracket below deck. The cable is perpendicular to the centered tiller and in half stroke for proper operation. An additional bracket may be needed to support the ball post. Available in heavy duty "Ski Boat" versions, with either long (4.5") or short (2.25") post standoff.

Parts Required: E,G,H (long post) or F,G,H (short post)

INBOARD STRINGER SUPPORT MOUNTING

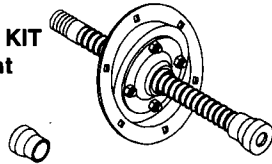


*See following page for part numbers of lettered component parts.

Steering Connection Kits:

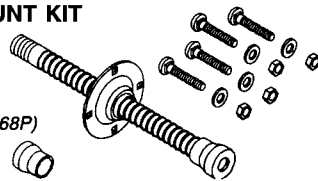
A

SPLASHWELL MOUNT KIT
15° Corrosion Resistant
SA27253P
(BOOT ONLY P/N: SA37868P)



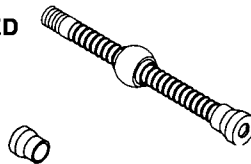
B

SPLASHWELL MOUNT KIT
90° Corrosion Resistant
SA27254P
(BOOT ONLY P/N: SA37868P)



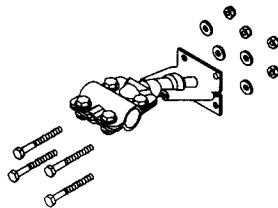
C

SPLASHWELL THREADED TUBE WITH BALL
Corrosion Resistant
SA36316P
(BOOT ONLY P/N: SA37868P)



D

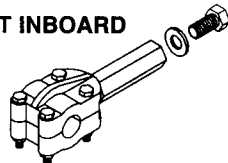
CLAMP BLOCK — OUTBOARD
Stainless Steel
SA27149P
Corrosion Resistant
SA27055P



NOTE: Parts shown on this page are available in kit form ONLY.

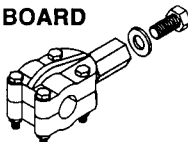
E

CLAMP BLOCK — SKI BOAT INBOARD
4-1/2" Stand-Off SA27579P
(Heavy Duty with Black Metal Flake Finish)



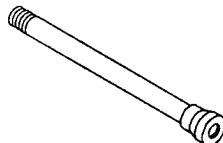
F

CLAMP BLOCK — SKI BOAT INBOARD
2-1/4" Stand-Off SA27578P
(Heavy Duty with Black Metal Flake Finish)



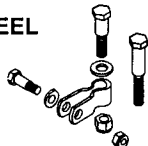
G

SUPPORT TUBE
Aluminum SA27274P
Stainless Steel SA27275P



H

CLEVIS KIT — STAINLESS STEEL
With Short Bolt SA27314P
With Long Bolt SA27329P
NOTE: SA27313P Bushing should be ordered with SA27329P.



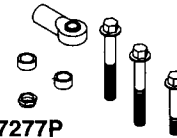
H (continued)

CLEVIS KIT — SKI BOAT
(STAINLESS STEEL)
With Short Bolt SA27576P
With Long Bolt SA27577P



I

ROD END KIT
(1/2-20 THD.)
Steel SA27276P
Stainless Steel SA27277P



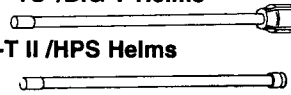
J

BUSHING KIT — INBOARD TILLER ARM
SA27313P



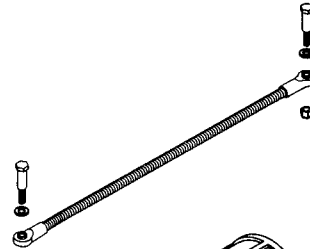
M

SPENT TRAVEL TUBES FOR ROTARY HELMS
SAFE-T QC/SAFE-T "TS"/BIG-T Helms
SA35680P
NFB 4.2 /NFB SAFE-T II /HPS Helms
SA38603P



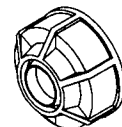
N

UNIVERSAL TIE BAR KIT
SA27252P
(Max. length: 25-1/2")



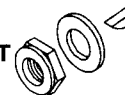
O

CABLE GARD
For Most Outboards with Tilt Tube
SA39329P
(Keeps tilt tube clean.)



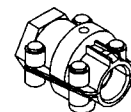
P

STEERING WHEEL HARDWARE KIT
2745417P
(For All Teleflex Mechanical Helms with 3/4" Tapered Shaft.)



Q

QC II HELM CONVERTER
For Helms w/Threaded Spigots
SA27620P
(Upgrades older Teleflex rotary helms to Quick-Connect cable interface, allowing use of SSC61/SSC62 QC cables.)



R

COMMAND 290 HELM CONVERTER
SA39245P (replaces 300959)
(Adapts Morse Command 290 single-cable helms for use with Teleflex SSC72 [threaded helm nut] steering cables.)

