

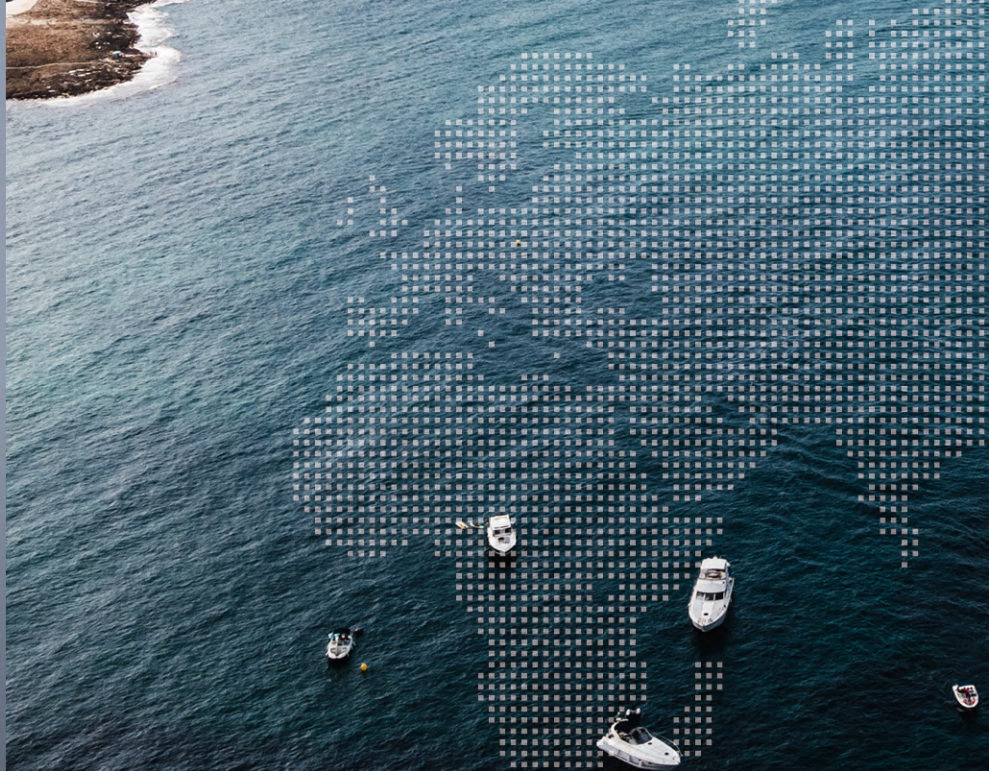
HYDRAULIC STEERING

FOR OUTBOARD
FOR STERN DRIVE

JACK PLATE



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PART 01

- /// Complete Package System : M0100H type
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- /// Complete Package System : M0350H type
- /// Complete Package System : M0350V type
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- /// Complete Package System : M0700H type
- /// Order Guide : M0700H Type
- /// Hydraulic Power Steering Kit : Maxteering
- /// Remote Steering Kit : RSK-212 /
- /// Dual Station Kit for Hydrdaulic Steering
- /// Dual Station Kit for Hydrdaulic Power Steering

PART 01

Hydraulic Steering for Outboard



Hydraulic Steering for Outboard

M0100H



- For engine under 95hp
- Standard wheel turns : 4.5 lock to lock

Standard Steering kit includes

Components	Description	Ref Page	Remark
CSH018 *	Front Mount Helm pump 18cc	P.32	Standard Package
SOC2512H	Cylinder for small engine under 95HP	P.33	
NH04-SS-07 **	Hydraulic Hose 1/4", 7 meter x 2 pcs	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 2 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger helm pump, Consult with your dealer

** Hose is able to be preassembled with Bulkhead Strain Relief Kit (BMK16, page 53).
Consult with your dealer

Related Parts ***

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20° to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

*** Related parts are sold & packaged separately

Application Guide

System Model	Applicable Outboard Motors	Cylinder Model	Ref Page
M0100H	Yamaha 4 stroke: From 20hp to 90hp Yamaha 2 stroke: From 30hp to 95hp Honda 4 stroke: From 20hp to 70hp Suzuki 4 stroke: From 20hp to 70hp Mercury: From 30hp to 90hp Tohatsu 4 stroke: 30hp to 90hp Tohatsu 2 stroke: 30hp to 90hp	SOC2512H	P.33

Caution : Cut the Wing Nut type transom mount clamping screw if any.
It could be interfaced with cylinder when fully trim

Hydraulic Steering for Outboard

M0150H



- For engine under 150hp
- Standard wheel turns : 5.6 lock to lock

Standard Steering kit includes

Components	Description	Ref Page	Remark
CSH018 *	Front Mount Helm pump 18cc	P.32	Standard Package
SOC3016H-R1	Front Mount Outboard cylinder.	P.34	
NH04-SS-07 **	Hydraulic Hose 1/4", 7 meter x 2 pcs	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 2 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger helm pump, Consult with your dealer

** Hose is able to be preassembled with Bulkhead Strain Relief Kit (BMK16, page 53). Consult with your dealer

Related Parts ***

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20° to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

*** Related parts are sold & packaged separately

Application Guide

System Model	Applicable Outboard Motors	Cylinder Model	Ref Page
M0150H-R1	Yamaha 4 stroke: From 75hp to 150hp Yamaha 2 stroke: 50hp, 60hp and From 100hp to 150hp Suzuki 4 stroke: From 70hp to 150hp Honda 4 stroke: From BF 50 to BF 150 except old BF 115A / old BF 130A Mercury: From 50hp to 150hp except old 4 stroke(1732cc) from 75hp and 115 hp Tohatsu 4 stroke : From BFT 70 to BFT150 except old BFT115A / old BFT 130A Tohatsu 2 stroke: Up to 140hp Evinrude: From 65hp to 150hp	SOC3016H-R1	P.34
M0150H-R4	Yamaha 4 stroke : From 30hp to 60hp / Yamaha 2 stroke : From 50hp to 95hp	SOC3016H-R4	
M0150H-R5	Honda old BF 115A / Old BF 130A	SOC3016H-R5	
M0150H-R6	Mercury old 4 stroke (1732cc) From 75hp to 115hp	SOC3016H-R6	

Caution : Mercury old 4 stroke (1732cc) From 75hp to 115hp must use M0150H-R6

Hydraulic Steering for Outboard

M0150V



• For narrow space boat

- For engine under 150hp
- For narrow space boat (Cylinder Length : 486mm, Ref page. 32)
- Standard wheel turns : 5 lock to lock
- Quick and Convenient installation

Standard Steering kit includes

Components	Description	Ref Page	Remark
CSH018 *	Front Mount Helm pump 18cc	P.32	Standard Package
SOC3016V-SY1	Front Mount Outboard cylinder.	P.35	
NH04-SS-07 **	Hydraulic Hose 1/4", 7 meter x 2 pcs	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 2 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger helm pump, Consult with your dealer

** Hose is able to be preassembled with Bulkhead Strain Relief Kit (BMK16, page 53), Consult with your dealer

Related Parts ***

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20" to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

*** Related parts are sold & packaged separately

Application Guide

System Model	Applicable Outboard Motors	Cylinder Model	Ref Page
M0150V-SY1	Yamaha 4stroke : from 70hp to 150hp Suzuki : from 70hp to 150hp	SOC3016V-SY1	P.35
M0150V-SY4	Yamaha 4stroke : From 30hp to 60hp, Yamaha 2stroke : From 50hp to 60hp	SOC3016V-SY4	

Hydraulic Steering for Outboard

M0350H



- For engine under 350hp
- Standard wheel turns : 5.3 lock to lock
- Universal cylinder

Standard Steering kit includes

Components	Description	Ref Page	Remark
NSH025 *	Front Mount Helm pump 25cc	P.32	Standard Package
SOC3520H-R1	Front Mount Outboard cylinder.	P.36	
NH06-SS-07 **	Hydraulic Hose 3/8", 7 meter x 2 pcs	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 2 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger or smaller helm pump, Consult with your dealer

** Hose is able to be preassembled with Bulkhead Strain Relief Kit (BMK16, page 53), Consult with your dealer

Related Parts ***

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20" to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

*** Related parts are sold & packaged separately

Application Guide

System Model	Applicable Outboard Motors	Cylinder Model	Ref Page
M0350H-R1	Yamaha 4stroke : From 75hp to 350hp Yamaha 2stroke : 50hp, 60hp and From 100hp to 250hp Suzuki 4stroke : From 70hp to 300hp Honda 4stroke : From BF 50 to BF 250 except old BF 115A / old BF 130A Mercury : From 50hp to 250hp except old 4stroke 75hp and 115hp Tohatsu 4 stroke : From BFT 70 to BFT 250 except old BFT 115A / old BFT 130A Tohatsu 2 stroke : Up to 140hp Evinrude : From 65hp to 300hp	SOC3520H-R1	P.36
M0350H-R4	Yamaha 4stroke : From 30hp to 60hp, Yamaha 2stroke : From 50hp to 95hp	SOC3520H-R4	
M0350H-R6	Mercury old 4 stroke (1732cc) From 75hp to 115hp	SOC3520H-R6	

Caution : Mercury old 4 stroke (1732cc) From 75hp to 115hp must use M0350H-R6

Hydraulic Steering for Outboard

M0350V



- For engine under 350hp
- Easy installation for limited space
- Standard wheel turns : 5.3 lock to lock
- Quick and Convenient installation

Standard Steering kit includes

Components	Description	Ref Page	Remark
NSH025 *	Front Mount Helm pump 25cc	P.32	Standard Package
SOC3520V-Y1	Front Mount Outboard cylinder.	P.37	
NH06-SS-07 **	Hydraulic Hose 3/8", 7 meter x 2 pcs	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 2 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger or smaller helm pump, Consult with your dealer

** Hose is able to be preassembled with Bulkhead Strain Relief Kit (BMK16, page 53), Consult with your dealer

Related Parts ***

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20° to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

*** Related parts are sold & packaged separately

Application Guide

System Model	Applicable Outboard Motors	Cylinder Model	Ref Page
M0350V-Y1	Yamaha 4 stroke : from 75hp to 350hp Yamaha 2 stroke : from 100hp to 250hp Suzuki : from 70hp to 300hp	SOC3520V-Y1	P.37
M0350V-H1	Honda 4stroke : from BF 70 to BF 250 Except old BF115A / old BF 130A	SOC3520V-H1	
M0350V-Y4	Yamaha 4stroke : From 30hp to 60hp, Yamaha 2stroke : From 50hp to 95hp	SOC3520V-Y4	
M0350V-H5	Honda old BF115A / old BF 130A	SOC3520V-H5	

ORDER GUIDE

M0350H(V) TYPE

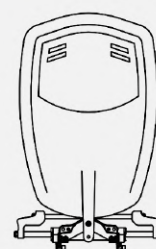
M0350H(M0350V)

● Single Engine, Single Cylinder

Application	Wheel Turn	Components	Model	Q'ty	Remark
Up to 350HP	5.3	Cylinder	SOC3520	1	MO 350V MO 350H Package kit
		Helm Pump	NSH025	1	
		Hydraulic Hose	NH06-SS-07	2	
		Hydraulic Oil	SF-OIL-15	2	
		Accessories kit	OAK-300	1	

For a second station, add below : Refer to Dual Station Kit. Page 17

System



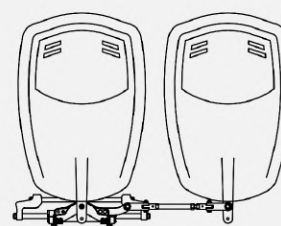
M0350HT1(M0350VT1)

● Twin Engine, Single Cylinder

Application	Wheel Turn	Components	Model	Q'ty	Remake
Up to 600HP (counter Rotating engine)	5.3	Cylinder	SOC3520	1	MO 350VT1 MO 350HT1 Package kit
		Helm Pump	NSH025	1	
		Hydraulic Hose	NH06-SS-07	2	
		Hydraulic Oil	SF-OIL-15	2	
		Accessories kit	OAK-300	1	
Up to 450HP (non-counter rotating engine)		Tie Bar	TBK800S	1	

For a second station, add below : Refer to Dual Station Kit. Page 17

System



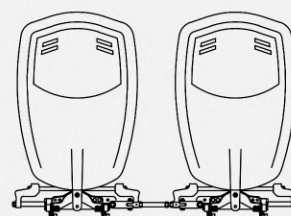
M0350HT2(M0350VT2)

● Twin Engine, Two Cylinder

Application	Wheel Turn	Components	Model	Q'ty	Remake
Up to 700HP (counter rotating engine)	10.6	Cylinder	SOC3520	2	MO 350VT2 MO 350HT2 Package kit
		Helm Pump	NSH025	1	
		Hydraulic Hose	NH06-SS-07	2	
		Hydraulic Hose	NH06-SS-01	2	
		T fitting	HT014NNS	2	
Up to 600HP (non-counter rotating engine)		Hydraulic Oil	SF-OIL-15	4	
		Accessories kit	OAK-300	1	
		Tie Bar	TBK 800T	1	

For a second station, add below : Refer to Dual Station Kit. Page 17

System



Hydraulic Steering for Outboard

M0700H



- Hydraulic Steering for high horsepower
- Standard wheel turns : 6.5 lock to lock

Standard Steering kit includes

Components	Description	Ref Page	Remark
NSH025 *	Front Mount Helm pump 25cc	P.32	Standard Package
SOC3822H-W7	Front Mount Outboard cylinder.	P.38	
NH06-SS-07 **	Hydraulic Hose 3/8", 7 meter x 2 pcs	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 2 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger or smaller helm pump, Consult with your dealer

** Hose is able to be preassembled with Bulkhead Strain Relief Kit (BMK16, page 53), Consult with your dealer

Related Parts ***

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20" to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

*** Related parts are sold & packaged separately

Application Guide

System Model	Applicable Outboard Motors	Cylinder Model	Ref Page
M0700H -W7	Any above 200HP of all brands	SOC3822H-W7	P.38

ORDER GUIDE

M0700H TYPE

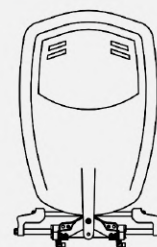
M0700H

● Single Engine, Single Cylinder

Application	Wheel Turn	Components	Model	Q'ty	Remark
Up to 400HP	6.5	Cylinder	SOC3822H	1	M0700H Package kit
		Helm Pump	NSH025	1	
		Hydraulic Hose	NH06-SS-07	2	
		Hydraulic Oil	SF-OIL-15	2	
		Accessories kit	OAK-300	1	

For a second station, add below : Refer to Dual Station Kit. Page 17

System



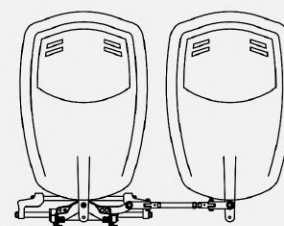
M0700HT1

● Single Engine, Two Cylinder

Application	Wheel Turn	Components	Model	Q'ty	Remark
Up to 700HP (counter Rotating engine)	6.5	Cylinder	SOC3822H	1	M0700HT1 Package kit
		Helm Pump	NSH025	1	
		Hydraulic Hose	NH06-SS-07	2	
		Hydraulic Oil	SF-OIL-15	2	
		Accessories kit	OAK-300	1	
Up to 520HP (non-counter rotating engine)		Tie Bar	3822-TBA-1-2	1	

For a second station, add below : Refer to Dual Station Kit. Page 17

System



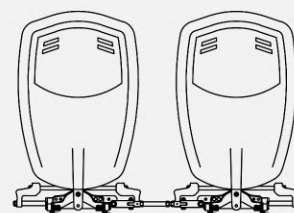
M0700HT2

● Twin Engine, Two Cylinder

Application	Wheel Turn	Components	Model	Q'ty	Remark
Up to 800HP (counter Rotating engine)	13	Cylinder	SOC3822H	2	M0700HT2 Package kit
		Helm Pump	NSH025	1	
		Hydraulic Hose	NH06-SS-07	2	
		Hydraulic Hose	NH06-SS-01	2	
		T fitting	HT014NNS	2	
Up to 700HP (non-counter rotating engine)		Hydraulic Oil	SF-OIL-15	4	
		Accessories kit	OAK-300	1	
		Tie Bar	3822-TBK-2-2	1	

For a second station, add below : Refer to Dual Station Kit. Page 17

System



Hydraulic steering
for outboard

Hydraulic Steering
for Stern Drive

JACK PLATE

Component

Hydraulic Power Steering Kit

MAXTEERING



- The "Maxteering" is a power steering for featherlight steering
- Maxteering is recommended in the following cases
 - For multiple engines
 - For high horsepower engine
 - To replace Manual hydraulic steering

Standard Steering Package

Components	Description	Ref Page	Remark
SMP-40	Power Helm, 40cc	P.43	Standard Package
BLP-1216-35	Power Pack, DC 12V	P.44	
PSP-300-12V	Switch Panel	P.46	
NH06-SS-07 NH06-SS-04	Hydraulic Hose 3/8", 7 meter x 2 pcs Hydraulic Hose 3/8", 4 meter x 2 pcs	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 6 bottles, ISO VG 15	P.55	
OAK-500	Oil Bleeding Kit	P.55	

Note

* Hose length can be adjusted on demand and be preassembled with Bulkhead Strain Relief Kit (BMK16, page 53), Consult with your dealer

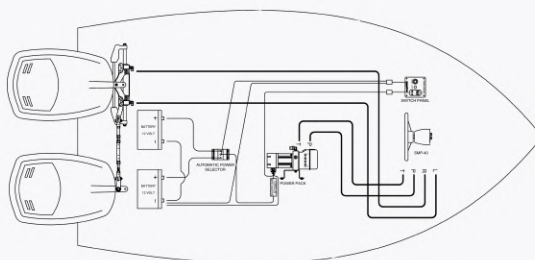
Related Parts **

Components	Description	Ref Page	Remark
Steering Wheel	From 300mm up to 400mm	P.57	Optional Parts
Dual station kit	To add an additional station of helm	P.18	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
Spare parts	To repair power pack	P.65	

Note

** Related parts are sold & packaged separately

Maxteering Application



Cylinder is not included in the supply scope of package

Remote Steering Kit

RSK-212

- Steering with Switch
- Prompt Steering Control
- Prevent unnecessary Battery Consume
- Applicable to any Hydraulic Steering
- Applicable to SEAFIRST Hydraulic Power Steering



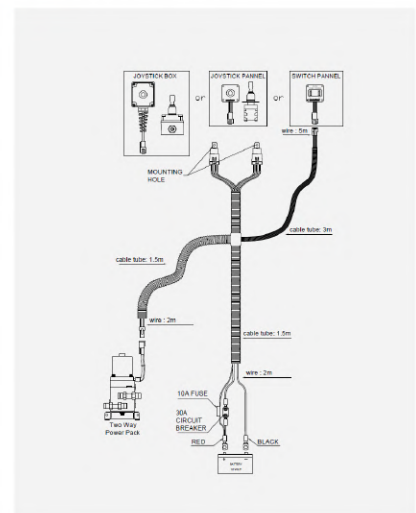
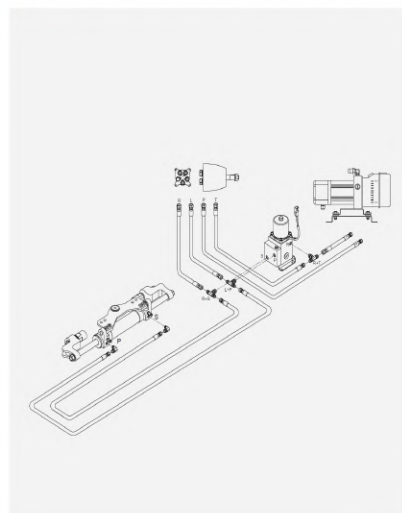
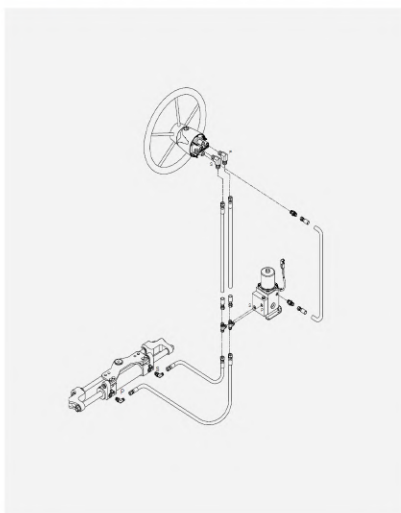
Pump Spec.

Voltage	DC 12V
Fitting	PF 1/4 (O-RING)
Oil Spec.	ISO VG 15
Flow Rate	2.2L/min

Max. Pressure	50kgf/cm ²
Max. Current	37A
Wire Length	2m
Weight	4kg

Application Guide

- Apply To Hydraulic Steering
- Apply To Hydraulic Power Steering
- Wiring Diagram



Set 01

RSK-212-14

MODEL	DESCRIPTION
TWP-212	Remote Steering Pump
JH0205	Wiring Harness
SF-OIL-15	ISO VG 15 Oil x 2 liter
OAK-400	Oil Bleeding, Purging Kit
TWS-200	Switch Control Panel
NH04-SS-01	Hydraulic Hose 1/4", 1 meter x 3 pcs
C1222801	1/4" Fitting Kit

Set 02

RSK-212-516

MODEL	DESCRIPTION
TWP-212	Remote Steering Pump
JH0205	Wiring Harness
SF-OIL-15	ISO VG 15 Oil x 2 liter
OAK-400	Oil Bleeding, Purging Kit
TWS-200	Switch Control Panel
NH05-SS-01	Hydraulic Hose 5/16", 1 meter x 3 pcs
C1222803	9/16" Fitting Kit

Set 03

RSK-212-38

MODEL	DESCRIPTION
TWP-212	Remote Steering Pump
JH0205	Wiring Harness
SF-OIL-15	ISO VG 15 Oil x 2 liter
OAK-400	Oil Bleeding, Purging Kit
TWS-200	Switch Control Panel
NH06-SS-01	Hydraulic Hose, 3/8", 1 meter x 3 pcs
C1222802	3/8" Fitting Kit

**Switch Option**

MODEL	DESCRIPTION	REMARK
TWJ-100	Joystic Remote Box	Additional cost will be charge in case of changing switch option.
TWJ-200	Joystic Panel	
L-1-PT10002P	Trim Switch	

● Standard Switch

**TWS-200**

● Optional Switch

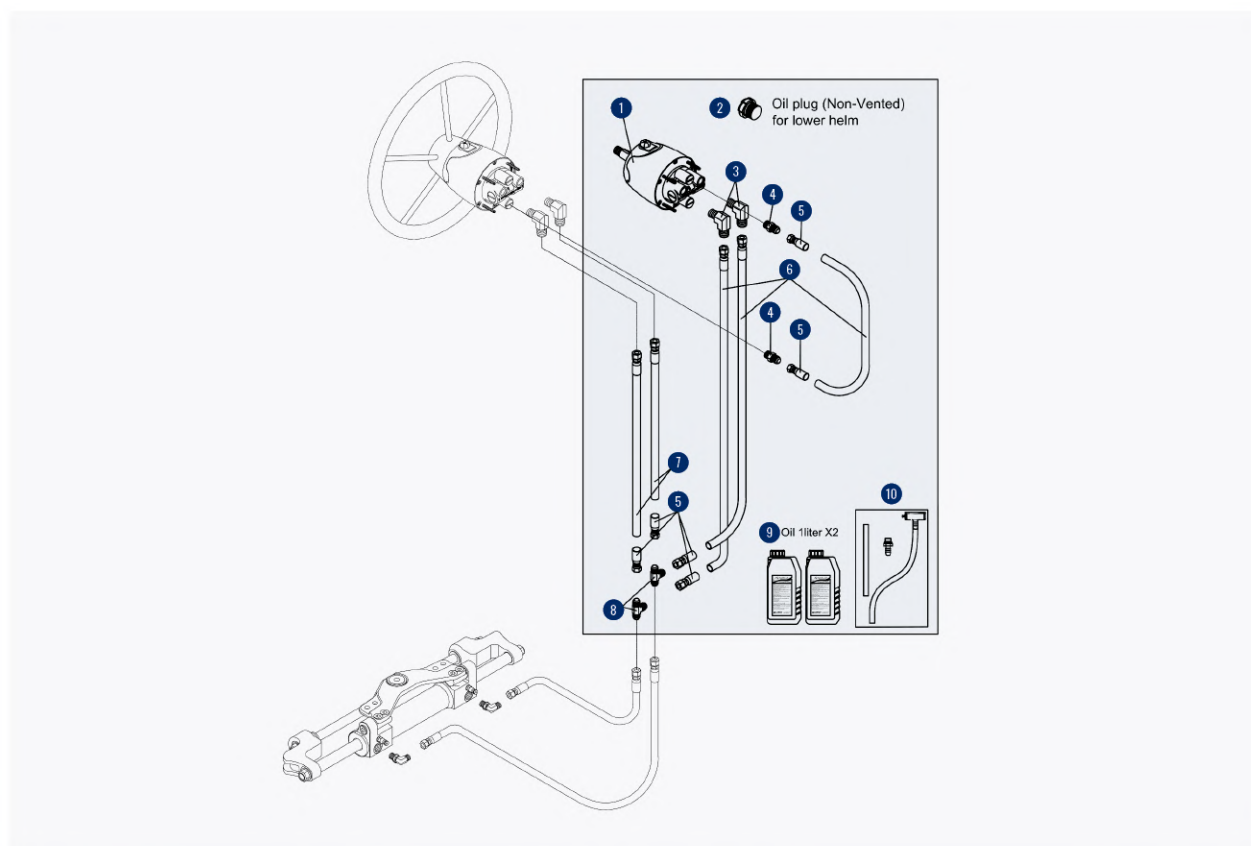
**TWJ-100****TWJ-200****L-1-PT10002P**

Dual Station Kit

FOR HYDRAULIC STEERING



* It is sold as a hydraulic steering package



NO.	COMPONENTS	Dual Station		QUNATITY
		DHK-14-C18(1/4" HOSE)	DHK-38-25(3/8" HOSE)	
1	*HELM PUMP	CSH018	NSH025	1
2	CAP	C1800803	C1800803	1
3	ELBOW FITTING (O-RING)	HLO14HOS	HLO14NOS	2
4	STRAIGHT FITTING	HSO14HO	HSO14NO	2
5	CAMPUKA / REUSABLE COUPLING	CPK0414	C3520149	6
6	HYDRAULIC HOSE 30 METER	NH04-SS-30	NH06-SS-30	1
7	HYDRAULIC HOSE 4 METER	NH04-SS-04	NH06-SS-04	1
8	T FITTING	HTH300	HTN300	2
9	ISO VG 15 OIL 1 LITTER	SF-OIL-15	SF-OIL-15	2
10	OIL ACCESSORIES KIT	OAK-300	OAK-300	1

* Name of kit will be determined by helm pump model

Hydraulic steering
for outboard

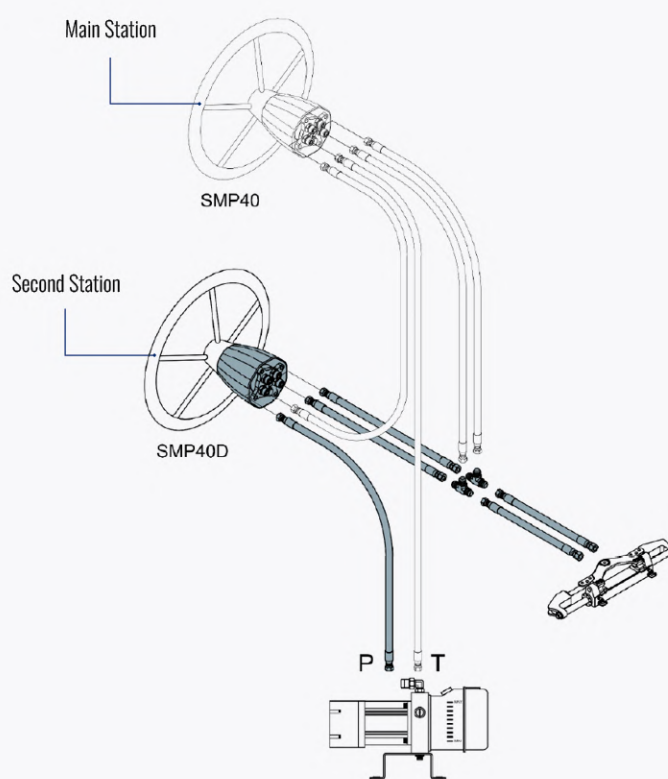
Hydraulic Steering
for Stern Drive

JACK PLATE

Component

Dual Station Kit

FOR HYDRAULIC POWER STEERING



•All products are sold at option & being packed separately

● Components needful for dual stations

NO.	Components	Model	Q'ty
1	Power Helm for dual station	SMP-40D	1
2	Tee fitting	HTN300	1
3	Hose	NH06-SS-XX *	5
4	ISO VG 15 OIL 1 LITTER	SF-OIL-15 **	-

* Hose length can be adjusted on demand

** Specify the quantity of oil before ordering

MEMO



PART

02

／ Complete Package System : MS250S-U1 type

／ Complete Package System : MS250S-B1 type

／ Complete Package System : MS250S-U2 type

／ Complete Package System : MS250S-UT1 type

PART 02

Hydraulic Steering for Stern Drive



Hydraulic Steering for Stern Drive



MS250S-U1



- Wheel turn 5.4 / 4.4
- Unbalanced Cylinder
- Suitable For Power Assist Sterndrive & Non-Power Assist Sterndrive
- Suitable For Outboard engine up to 150HP

Standard Steering kit includes

Components	Description	Ref Page	Remark
NSH030 *	Front Mount Helm pump 30cc	P.32	Standard Package
SSC3214U	Cylinder for Sterndrive	P.39	
NH06-SS-20	Hydraulic Hose 3/8", 20 meter x 1 pc, including two Reusable hose coupling	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 4 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger or smaller helm pump, Consult with your dealer

Related Parts **

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20" to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
SBK-250 Tube bracket ***	To mount sterndrive cylinder for Non Power Assist	P.56	
Spare parts	To repair the helm pump and cylinder	P.60-64	

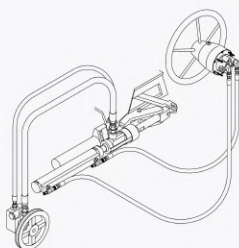
Note

** Related parts are sold & packaged separately

*** For Non Power Assist, Tube bracket is required

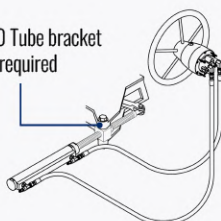
Application Guide

For Mercruiser Power Assist



For Mercruiser Non Power Assist

SBK-250 Tube bracket is required



For Outboard



Caution : No Rod ends on Rod of cylinder shaft for twin tie bar installation.

Hydraulic Steering for Stern Drive



MS250S-B1



- Wheel turn 4.4
- Balanced Cylinder
- Suitable For Power Assist Sterndrive & Non-Power Assist Sterndrive
- Suitable For Outboard engine up to 150HP

Standard Steering kit includes

Components	Description	Ref Page	Remark
NSH030 *	Front Mount Helm pump 30cc	P.32	Standard Package
SSC3214B	Cylinder for Sterndrive	P.40	
NH06-SS-20	Hydraulic Hose 3/8", 20 meter x 1 pc, including two Reusable hose coupling	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 4 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger or smaller helm pump, Consult with your dealer

Related Parts **

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20" to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
SBK-250 Tube bracket ***	To mount sterndrive cylinder for Non Power Assist	P.56	
Spare parts	To repair the helm pump and cylinder	P.60-64	

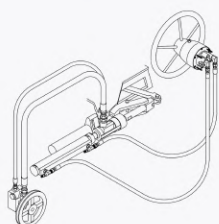
Note

** Related parts are sold & packaged separately

*** For Non Power Assist, Tube bracket is required

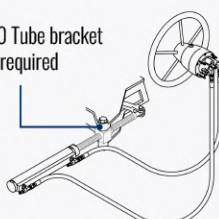
Application Guide

For Mercruiser Power Assist



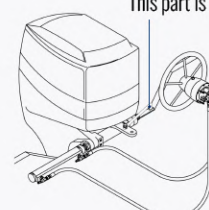
For Mercruiser Non Power Assist

SBK-250 Tube bracket is required



For Outboard

This part is not supplied



Caution : No Rod ends on Rod of cylinder shaft for twin tie bar installation.

Hydraulic steering for outboard

Hydraulic Steering for Stern Drive

JACK PLATE

Component

Hydraulic Steering for Stern Drive

MS250S-U2



• For Small engine room space

- Wheel turn 5.4 / 4.4
- Unbalanced Cylinder
- Suitable For Non-Power Assist Sterndrive
- Suitable For Single Sterndrive Engine

Standard Steering kit includes

Components	Description	Ref Page	Remark
NSH030 *	Front Mount Helm pump 30cc	P.32	Standard Package
SSC3214U2	Cylinder for Sterndrive	P.41	
NH06-SS-20	Hydraulic Hose 3/8", 20 meter x 1 pc, including two Reusable hose coupling	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 4 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger or smaller helm pump, Consult with your dealer

Related Parts **

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20" to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
SBK-92 Tube bracket ***	To mount sterndrive cylinder for Non Power Assist	P.56	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

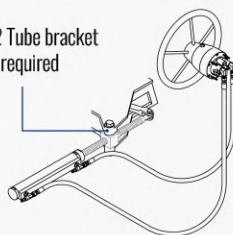
** Related parts are sold & packaged separately

*** For Non Power Assist, Tube bracket is required

Application Guide

For Mercruiser Non Power Assist

SBK-92 Tube bracket is required



Caution : No Rod ends on Rod of cylinder shaft for twin tie bar installation.

Hydraulic Steering for Stern Drive

MS250S-UT1



• For Twin engine

- Wheel turn 5.4 / 4.4
- Unbalanced Cylinder
- Suitable For Non-Power Assist Sterndrive
- Applicable for twin engine

Standard Steering kit includes

Components	Description	Ref Page	Remark
NSH030 *	Front Mount Helm pump 30cc	P.32	Standard Package
SSC3214UT1	Cylinder for Sterndrive	P.42	
NH06-SS-20	Hydraulic Hose 3/8", 20 meter x 1 pc, including two Reusable hose coupling	P.52	
SF-OIL-15	Hydraulic oil 1 liter x 4 bottles. ISO VG 15.	P.55	
OAK-300	Oil Bleeding Kit	P.55	

Note

* For bigger or smaller helm pump, Consult with your dealer

Related Parts **

Components	Description	Ref Page	Remark
Wedge kit	To mount pump at 20" to mounting surface	P.57	Optional Parts
Steering Wheel	From 300mm up to 400mm	P.57	
Dual station kit	To add an additional station of helm	P.17	
Bulkhead Mounting Kit	To help the hose to be tidied	P.53	
SBK-92 Tube bracket ***	To mount sterndrive cylinder for Non Power Assist	P.56	
Spare parts	To repair the helm pump and cylinder	P.60-64	

Note

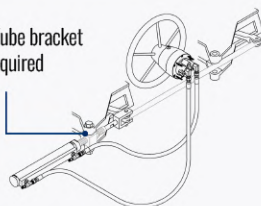
** Related parts are sold & packaged separately

*** For Non Power Assist, Tube bracket is required

Application Guide

For Mercruiser Non Power Assist

SBK-92 Tube bracket is required



*Suitable For Twin engine

Rod ends on Rod of cylinder shaft for twin tie bar installation.



PART

03

／ SJP-ST06-100

WAFFALO

PART 03

JACK PLATE



PATENTED

JACK PLATE

SJP-ST06-100

WAFFALO

PATENTED

NO.10-2470406

Application

- Boats running on shallow water & inland water & turbulent water
- Working, Fishing, Fishery management boat, Heavy loading boat, Leisure boat (Bass boat, Sport boat) Trolling boat
- Boats to replace the longer body engine than the boat transom



Benefits

● Performance

- Get on plane quickly
- Help maintain the steady engine output power
- Increase boat speed at lower effort
- To make better gas mileage
- Providing more stable boating
- Improving the steering efficiency
- No require to rebuild the boat transom for the different engine transom (body) height

● Outboard Engine Protection

- Extending the lifetime of propeller bushing
- Preventing the engine from overheating
- Making the smooth flow of cooling water
- Preventing the lower unit of engine (Propeller, Skeg) from the collision
- Ensuring water level guideline
- Securing the enough distance for exhaust hole
- Preventing cavitation

JACK PLATE

SJP-ST06-100

WAFFALO

PATENTED

NO. 10-2470406

Feature

- Mount up to 350 HP Motors
- Hydraulic power-lift in 8.5s
- Electric switch control
- 5.5 in vertical adjustment
- Ensure overall strength
- Use existing mounting hole
- Shallow water anchor mounting hole
- Dial gauge showing elevated position

Order Guide

Model	Description
SJP-ST06-100	SEAFIRST HYDRAULIC JACKPLATE STANDARD 6 [6 in] + JPH-100

SJP-ST06-100 has include accessories as a kit

- Switch and Harness kit (JPH-100)

Accessory Parts

• JPH-100

Description	Components		Remark
	Part No.	Product	
Switch and Harness kit	JH1224	Switch	Included in package as standard (MODEL : SJP-ST06-100)
	JH0205	Harness	

• JPS-100

Description	Components		Remark
	Part No.	Product	
Dial Guage Kit	JG0812	Guage	Optional Parts
	JS0512	Sensor	

JG0812



JS0512

JH1224



JH0205

Hydraulic steering
for outboard

Hydraulic Steering
for Stern Drive

JACK PLATE

Component



PART

04

- ✓ HELM PUMP
- ✓ CYLINDER
- ✓ POWER HELM
- ✓ POWER PACK
- ✓ AUTOMATIC POWER SELECTOR
- ✓ SWITCH
- ✓ TIE BAR
- ✓ HOSE & HOSE COUPLING
- ✓ BULKHEAD MOUNTING KIT
- ✓ HOSE PROTECTOR & PORT BLOCK
- ✓ OIL & OIL BLEEDING KIT & OIL PLUG
- ✓ LIQUID TIE BAR ALIGNMENT VALVE
& TUBE BRACKET FOR STERNDRIVE CYLINDER
- ✓ STEERING WHEEL & WEDGE KIT
- ✓ FITTING
- ✓ SPARE PARTS
- ✓ TOOL KIT

PART 04

Component



Component

HELM PUMP



* The actual product may be different than the above image

1. Three ball bearings supporting the rotor, which makes the helm pump be used for heavy duty use.
2. Two shaft seals
3. Vented oil plug has the function of releasing pressure generated from inside the pump
4. STS 304 shaft for NSH / Aluminium Shaft for CSH

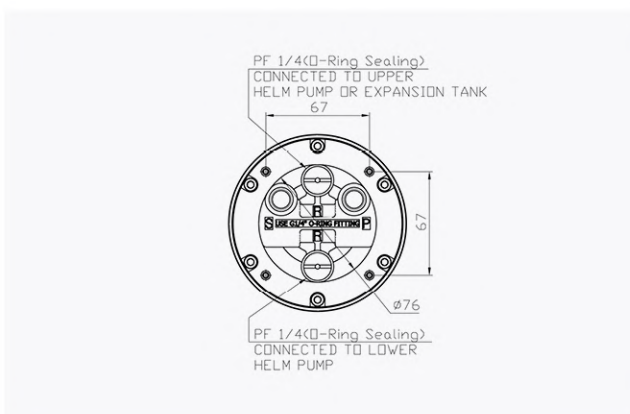
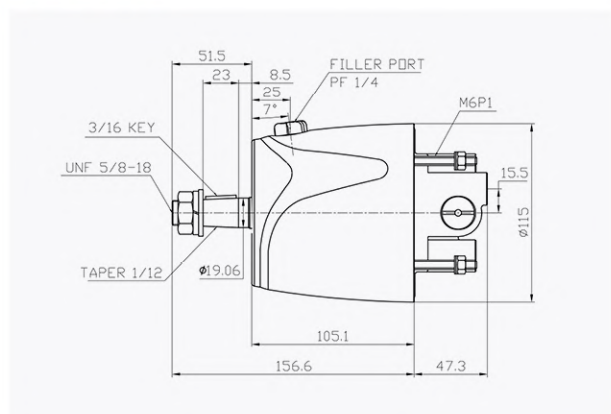
Model	Description	Displacement		Shaft	Key	Lock valve	Port Size
		cc / rev	cu.in / rev				
CSH018	Helm Pump	18	1.09	Taper on 3/4" Aluminum shaft	3/16" square	Built-in	PF1/4
NSH018		18	1.09	Taper on 3/4" STS 304 Shaft			
NSH022		22	1.34				
NSH025		25	1.52				
NSH030		30	1.83				
NSH037		37	2.25				
NSH044		44	2.68				

- Max steering wheel diameter for Helm pump : Diameter 400mm
- Use Seafirst hydraulic oil for the best performance (Ref to page.55)
- CSH helm pump includes PF1/4 * PF1/4 Elbow fitting as standard
- NSH helm pump includes PF1/4 * PF3/8 Elbow fitting as standard
- Helm pump always comes with Vented Plug (Parts Number : C1800802).
- Non-Vented Plug (Parts Number : C1800803) optionally available have to be used on an additional helm pump which is installed on higher place.

Related parts for helm pump

Model	Description	Ref Page	Remark
SHB-100	20 degree wedge, protruding type	P.57	Optional parts
SHB-200	20 degree wedge, embedded type	P.57	
C1800802	Vented Plug	P.55	
C1800803	Non-Vented Plug	P.55	
C1800804	Seal Kit	P.60	

Dimension



Component

SOC2512H

CYLINDER



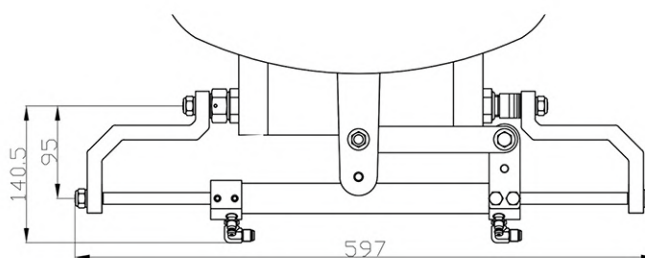
- Stainless steel shaft with hard chrome plate
- Aluminum tube with anodizing
- Aluminum arms with anodizing
- Stainless steel lock nuts
- Install for single engine
- Balanced cylinder

Volume	83cc
Stroke	220mm
Shaft Diameter	12mm
Bore Diameter	25mm
Output force	264kgs

Related parts for SOC2512H Cylinder

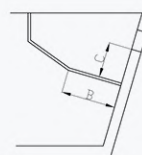
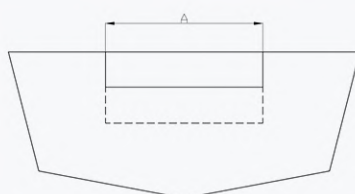
Model	Description	Ref Page	Remark
C2512802	Tube Cover Kit	P.61	Optional parts
C2512803	Rod Kit	P.62	
C2512805	Arm Kit	P.61	
C2512807	Conversion Kit	P.62	
C2512806	Space Ring Kit	P.63	

Dimension



Splashwell Dimension Requirement

No. of Cylinder	A	B	C	Min. Engine Center distance
1	600mm	174mm	150mm	N/A



Note
Maximum transom thickness 76mm

Component

SOC3016H-R1

CYLINDER

SOC3016H-R4
SOC3016H-R5
SOC3016H-R6



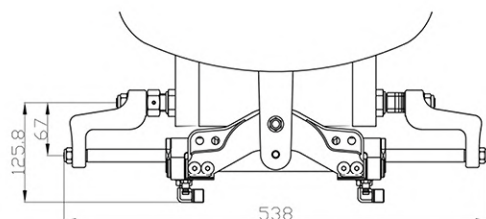
- 8T Thicker Aluminium Plate with Hard Anodizing
- Stainless steel shaft with hard chrome plate
- Aluminum tube with anodizing
- Aluminum arms with anodizing
- Stainless steel lock nuts
- Install for single engine
- Balanced cylinder :

Volume	101cc
Stroke	200mm
Shaft Diameter	16mm
Bore Diameter	30mm
Output force	354kgs

Related parts for SOC3016H Cylinder

Model	Description	Ref Page	Remark
C3016802	Tube Cover Kit	P.61	Optional parts
C3016803	Rod Kit	P.62	
C3016805	Arm Kit	P.61	
C3016806	Space Ring Kit	P.63	
C3520814	Conversion Kit (R1)	P.62	
C3520815	Conversion Kit (R4)	P.62	
C3520816	Conversion Kit (R5)	P.62	
C3520817	Conversion Kit (R6)	P.62	
C3520821	Hinge Pin Kit	P.63	

Dimension



Variation of SOC3016H

SOC3016H-R1
SOC3016H-R1 includes C3520814 as standard plate.

Install on SOC3016H-R1 to convert SOC3016H-R5



C3520814



C3520816

Install on SOC3016H-R1 to convert SOC3016H-R4



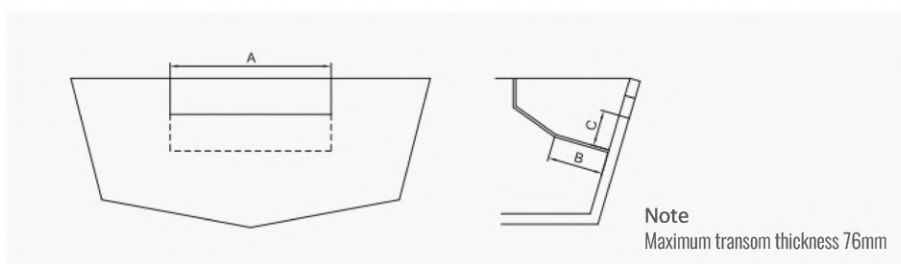
C3520815



C3520817

Splashwell Dimension Requirement

No. of Cylinder	A	B	C	Min. Engine Center distance
1	540mm	152mm	127mm	N/A



Component

SOC3016V-SY1

CYLINDER

SOC3016V-SY4

Compact Design
Quick & Convenient Installation



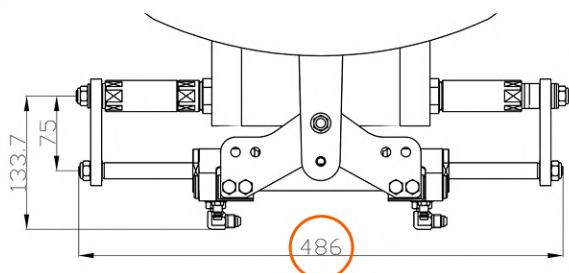
- Stainless steel shaft with hard chrome plate
- Aluminum tube with anodizing
- Aluminum arms with anodizing
- Stainless steel lock nuts
- Compact Design for less space installation
- Install for single engine
- Balanced cylinder :

Volume	90cc
Stroke	178mm
Shaft Diameter	16mm
Bore Diameter	30mm
Output Force	354kgs

Related parts for SOC3016V Cylinder

Model	Description	Ref Page	Remark
C3016802	Tube Cover Kit	P.61	Optional parts
C3016810	Rod Kit	P.62	
C3016809	Arm Kit	P.61	
C3016122	Arm NUT RL	P.64	
C3016123	Arm Nut YL	P.64	
C3016124	Arm Nut S	P.64	
C2512806	Space Ring Kit	P.63	
C3016811	Conversion Kit (SY1)	P.62	
C3016812	Conversion Kit (SY4)	P.62	
C3520821	Hinge Pin Kit	P.63	

Dimension



Variation of SOC3016V

SOC33016V-SY1
SOC3016V-SY1
includes C3016811 as
standard plate.

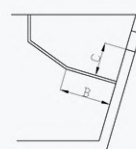
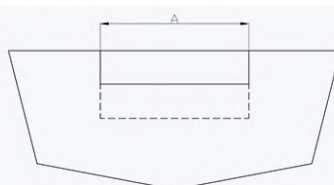


Install on
SOC3016V-SY1 to
convert
SOC3016V-SY4



Splashwell Dimension Requirement

No. of Cylinder	A	B	C	Min. Engine Center distance
1	490mm	150mm	140mm	N/A



Note
Maximum transom thickness 76mm

Component

SOC3520H-R1

CYLINDER

SOC3520H-R4
SOC3520H-R5
SOC3520H-R6



● Suitable for

- Hydraulic Steering system
- Hydraulic Power Steering System (Maxteering)

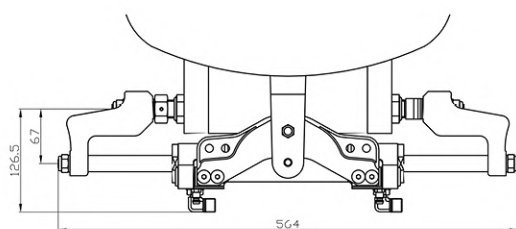
- 8T Thicker Aluminium Plate with Hard Anodizing
- Stainless steel shaft with hard chrome plate
- Aluminum tube with anodizing
- Aluminum arms with anodizing
- Stainless steel lock nuts
- Balanced cylinder :

Volume	132cc
Stroke	203mm
Shaft Diameter	20mm
Bore Diameter	35mm
Output Force	354kgs

Related parts for SOC3520H Cylinder

Model	Description	Ref Page	Remark
C3520802	Tube Cover Kit	P.61	Optional parts
C3520803	Rod Kit	P.62	
C3520807	Arm Kit R	P.61	
C3520808	Space Ring Kit	P.63	
C3520814	Conversion Kit (R1)	P.62	
C3520815	Conversion Kit (R4)	P.62	
C3520816	Conversion Kit (R5)	P.62	
C3520817	Conversion Kit (R6)	P.62	
C3520821	Hinge Pin Kit	P.63	

Dimension



Variation of SOC3520H

SOC3520H-R1
SOC3520H-R1 includes C3520814 as standard plate.

Install on SOC3520H-R1 to convert SOC3520H-R4



C3520814



C3520815

Install on SOC3520H-R1 to convert SOC3520H-R4



C3520816

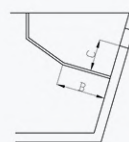
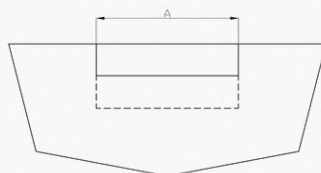
Install on SOC3520H-R1 to convert SOC3520H-R4



C3520817

Splashwell Dimension Requirement

No. of Cylinder	A	B	C	Min. Engine Center distance
1	570mm	152mm	127mm	N/A
2	1230mm	152mm	127mm	660mm



Note
Maximum transom thickness 76mm

Component

Compact Design
Quick & Convenient Installation



SOC3520V-Y1

CYLINDER

SOC3520V-H1
SOC3520V-Y4
SOC3520V-H5



• Suitable for

- Hydraulic Steering system
- Hydraulic Power Steering System(Maxteering)

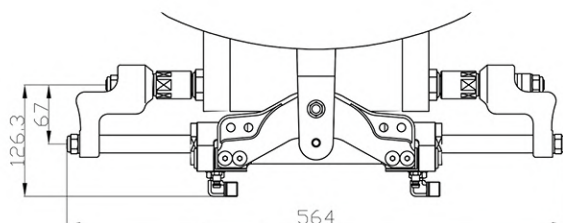
- 8T Thicker Aluminium Plate with Hard Anodizing
- Stainless steel shaft with hard chrome plate
- Aluminum tube with anodizing
- Aluminum arms with anodizing
- Stainless steel lock nuts
- Balanced cylinder

Volume	132cc
Stroke	203mm
Shaft Diameter	20mm
Bore Diameter	35mm
Output Force	454kgs

Related parts for SOC3520V Cylinder

Model	Description	Ref Page	Remark
C3520802	Tube Cover Kit	P.61	Optional parts
C3520803	Rod Kit	P.62	
C3520805	Arm Kit	P.61	
C3520116	Arm Nut Kit (R)	P.64	
C3520117	Arm Nut Kit (Y)	P.64	
C3520131	Arm Nut Kit (H)	P.64	
C2520806	Space Ring Kit	P.63	
C3520814	Conversion Kit (R1)	P.62	
C3520815	Conversion Kit (R4)	P.62	
C3520816	Conversion Kit (R5)	P.62	
C3520821	Hinge Pin Kit	P.63	

Dimension



Variation of SOC3520V

SOC3520V-Y1
SOC3520V-Y1 includes
C3520814 & C3520117
as standard parts



Install on SOC3520V-Y1
to convert SOC3520H-H1



Install on SOC3520V-Y1 to
convert SOC3520H-Y4

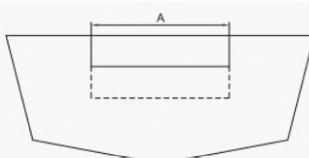


Install on SOC3520V-Y1 to
convert SOC3520H-H5



Splashwell Dimension Requirement

No. of Cylinder	A	B	C	Min. Engine Center distance
1	570mm	152mm	127mm	N/A
2	1230mm	152mm	127mm	660mm



Note
Maximum transom thickness 76mm

Component

SOC3822H-W7

CYLINDER



● Suitable for

- Hydraulic Steering system
- Hydraulic Power Steering System(Maxteering)

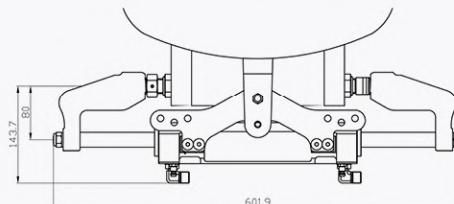
- Stainless steel shaft with hard chrome plate
- Aluminum tube with anodizing
- Aluminum arms with anodizing
- Stainless steel lock nuts
- Balanced cylinder

Volume	162cc
Stroke	215mm
Shaft Diameter	22mm
Bore Diameter	38mm
Output Force	528kgs

Related parts for SOC3822H Cylinder

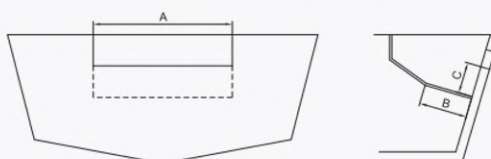
Model	Description	Ref Page	Remark
C3822802	Tube Cover Kit	P.61	Optional parts
C3822803	Rod Kit	P.62	
C3822805	Arm Kit	P.61	
C3520808	Space Ring Kit	P.63	
C3822807	Conversion Kit (W7)	P.62	
C3822809	Hinge Pin Kit	P.63	

Dimension



Splashwell Dimension Requirement

No. of Cylinder	A	B	C	Min. Engine Center distance
1	608mm	165mm	140mm	N/A
2	1265mm	165mm	140mm	660mm



Note
Maximum transom thickness 76mm

Component

SSC3214U

CYLINDER



Unbalanced

• Suitable for

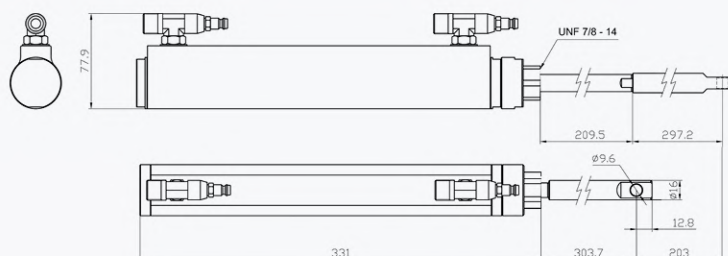
- Hydraulic Steering System for Power Assist, Non Power Assist Sterndrive
- Hydraulic Power Steering System (Maxteering) for Non Power Assist Sterndrive
- Hydraulic Steering System for outboard engine up to 150hp

Volume	163/132cc
Stroke	203mm
Shaft Diameter	14mm
Bore Diameter	32mm
Output Force	454kgs

Related parts for SSC3214U Cylinder

Model	Description	Ref Page	Remark
C3214802	Tube Cover Kit	P.61	Optional parts
C3214803	Rod Kit	P.62	
SBK-250	Tube Bracket	P.56	

Dimension

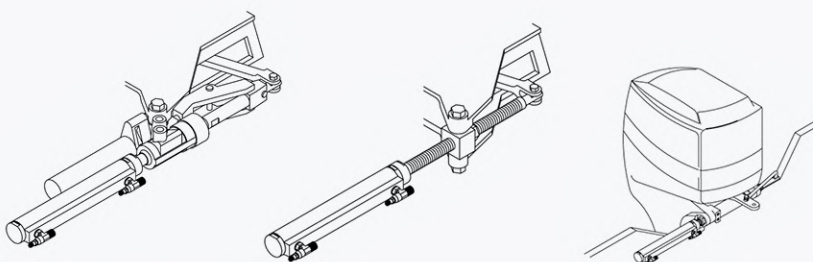


Application

Power Assist Sterndrive

Non Power Assist Sterndrive

Outboard



Component

SSC3214B

CYLINDER



Balanced

• Suitable for

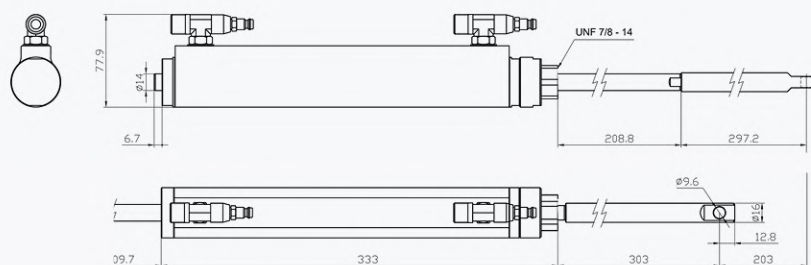
- Hydraulic Steering system for Power Assist, Non Power Assist
- Hydraulic Power Steering System (Maxteering) for Non Power Assist
- Hydraulic Steering System for outboard engine up to 150hp

Volume	132cc
Stroke	203mm
Shaft Diameter	14mm
Bore Diameter	32mm
Output Force	455kgs

Related parts for SSC3214B Cylinder

Model	Description	Ref Page	Remark
C3215802	Tube Cover Kit	P.61	Optional parts
C3215803	Rod Kit	P.62	
SBK-250	Tube Bracket	P.56	

Dimension

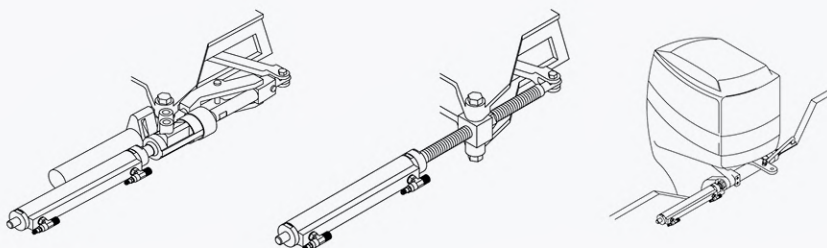


Application

Power Assist Sterndrive

Non Power Assist Sterndrive

Outboard



Component

SSC3214U2

CYLINDER

For small engine room



• Suitable for

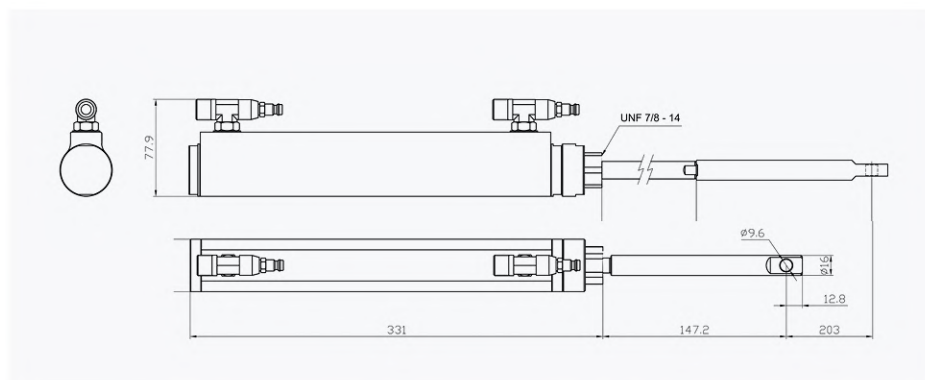
- Hydraulic Steering system for Power Assist, Non Power Assist
- Hydraulic Power Steering System (Maxteering) for Non Power Assist

Volume	163/132cc
Stroke	203mm
Shaft Diameter	14mm
Bore Diameter	32mm
Output Force	455/563kgs

Related parts for SSC3214U2 Cylinder

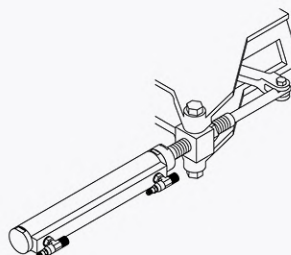
Model	Description	Ref Page	Remark
C3214802	Tube Cover Kit	P.61	Optional parts
C3214803	Rod Kit	P.62	
SBK-92	Tube Bracket	P.56	

Dimension



Application

Non Power Assist Sterndrive



Component

SSC3214UT1

CYLINDER

For Twin engine



Unbalanced

• Suitable for

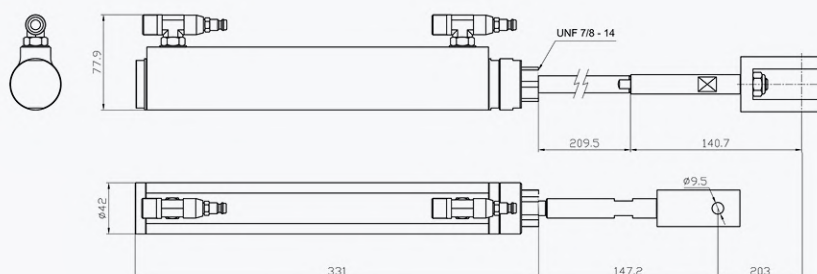
- Small engine room space
- Single & Twin Sterndrive Engine
- Hydraulic Steering system for Non Power Assist
- Hydraulic Power Steering System (Maxteering) for Non Power Assist

Volume	163/132cc
Stroke	203mm
Shaft Diameter	14mm
Bore Diameter	32mm
Output Force	455/563kgs

Related parts for SSC3214UT1 Cylinder

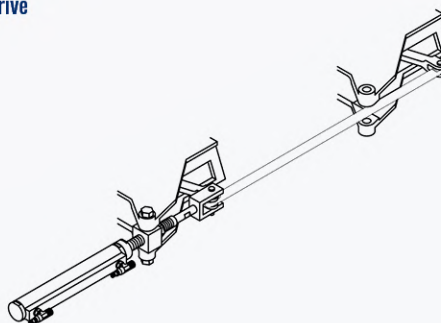
Model	Description	Ref Page	Remark
C3214802	Tube Cover Kit	P.61	Optional parts
C3214803	Rod Kit	P.62	
SBK-92	Tube Bracket	P.56	

Dimension



Application

Non Power Assist Sterndrive



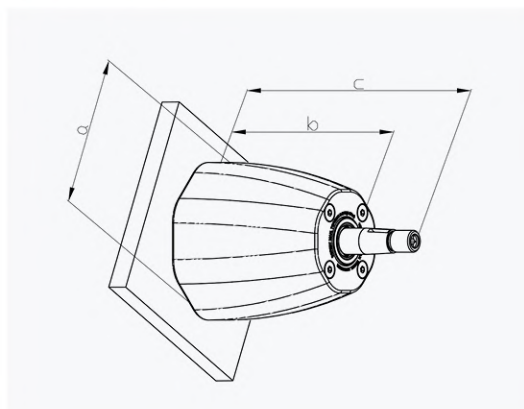
POWER HELM



- Provides instant manual back-up in case of power failure
- Taper on 3/4" diameter shaft with woodruff key
- Max steering wheel diameter for SMP power pump : Diameter 400mm
- Fixed displacement
- Mounting Hardware and steering wheel mounting hardware supplied as standard
- Trim Switch is mountable

Model	Description	Displacement		Shaft	Key
		cc / rev	cu.in / rev		
SMP40	Standard Power Helm	40	2.44	Taper on 3/4" shaft	19.8x4.75
SMP40D	Dual Station Power Helm				

Dimension

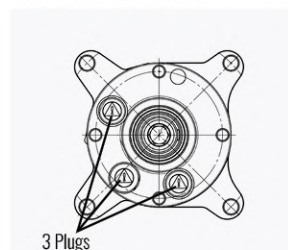


Model	A	B	C
SMP40	114.5	111	171
SMP40D			

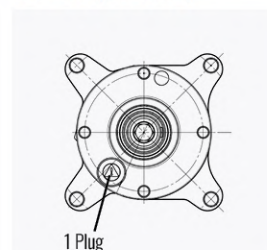
Identification

The number of plug for SMP-40 standard helm and SMP-40D dual helm are different.

SMP-40 (Front view)



SMP-40D (Front view)



- SMP-40D dual station power helm must be the first power helm in-line from power pack.

Component



POWER PACK

BLP-1216-35

- DC12V
- High Efficiency, Low Noise
- Low Amp draw
- Mount on floor
- Semitransparent 1 liter oil tank
- Black galvanized motor housing
- 5meter harness included
- Waterproof

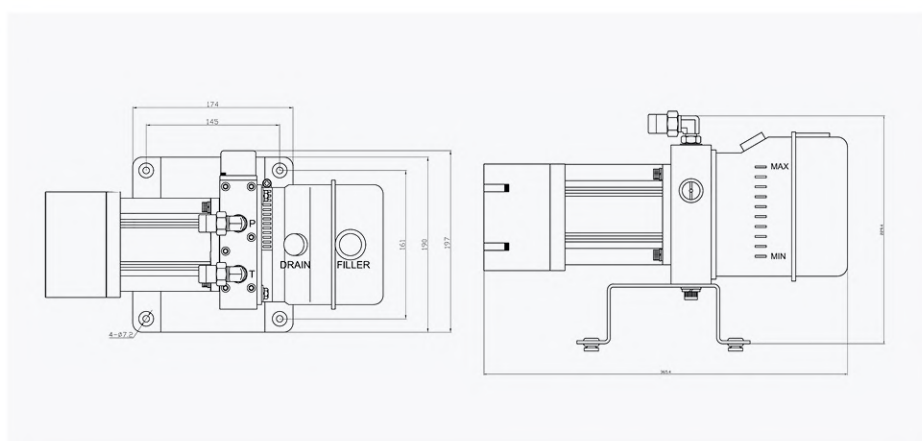


Model	Description	Voltage	Displacement	
			cc / min.	cu.in / min.
BLP-1216-35	Power Pack	DC12V	4000	244.1

Related parts for BLP Power Pack

Model	Description	Ref Page
E100041	BLP Motor extension cable 1meter Kit	P.65
E100042	BLP Motor extension cable 2meter Kit	P.65
E100043	BLP Motor extension cable 3meter Kit	P.65
BLP1216MOTORASSY	BLP 1216 MOTOR	P.65
BLP1216PCBBOARD	BLP 1216 PCB BOARD (DRIVE)	P.65
W1224560	CIRCUIT BRAKERS (30A)	P.65

Dimension



AUTOMATIC POWER SELECTOR

BCD802

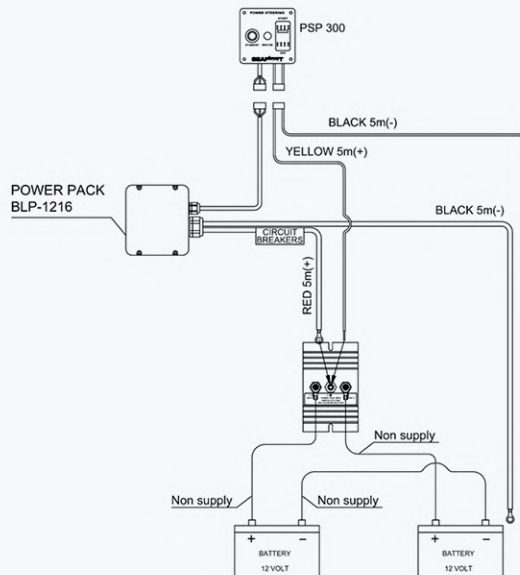
BCD802 makes the automatic draw from the battery with the higher voltage to continue to power BLP power pack, even if one battery ran down.

Automatic power selector will not allow the higher- charged battery to waste the current for the lower charged or failed battery.

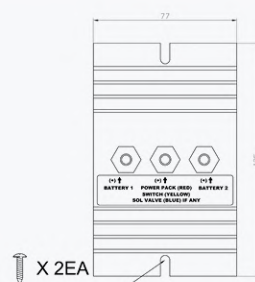


Model	Description	Voltage	Maximum Current	No. of Battery	Connector
BCD802	Automatic Power Selector	12/24V	80A	2	Dia 10mm Terminal

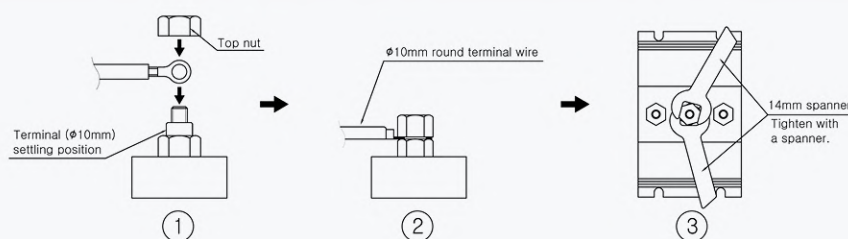
Wiring



Dimension



How to connect



Component

SWITCH

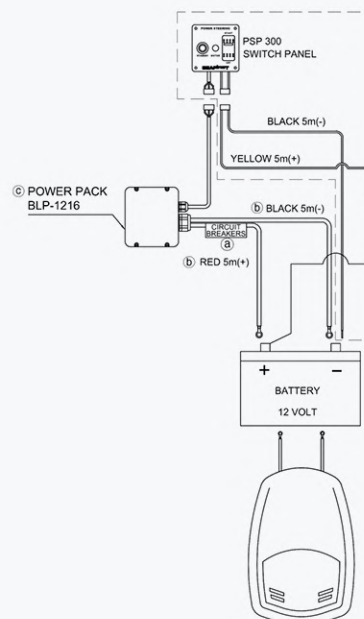


PSP-300-12V

Switch panel for Single station



Model	Description	Voltage
PSP-300-12V	On-Off Switch Panel with Lamp	12V

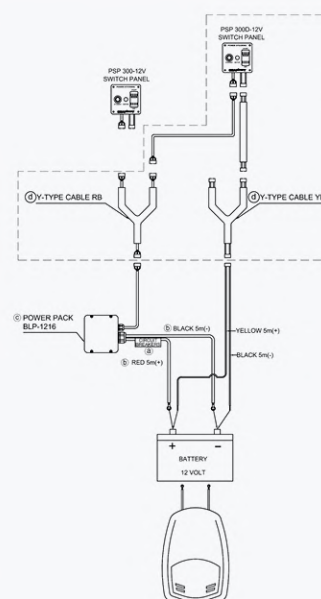


PSP-300D-12V

Switch panel for Dual station



Model	Description	Voltage
PSP-300D-12V	On-Off Switch Panel with Lamp	12V



Component

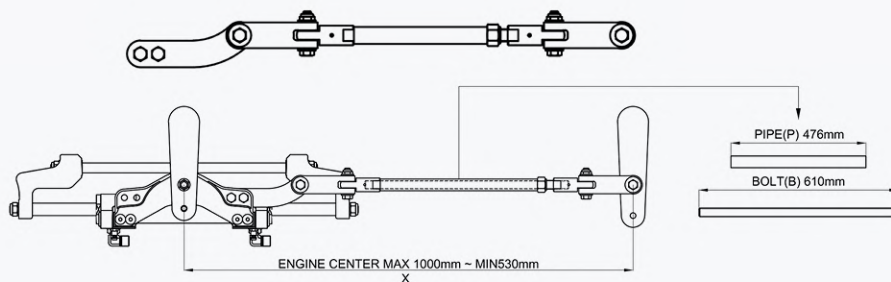
TIE BAR

FOR SOC3520H, V

TBK 800S



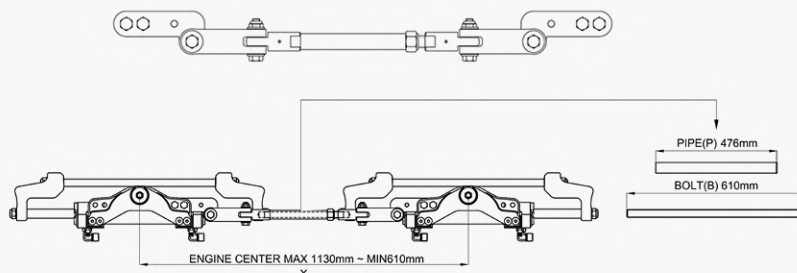
Tie Bar Length Adjustment	Cutting type
Applicable Cylinder	SOC3520H, SOC3520V
Number of Engine	2
Number of Cylinder	1
Mounting	Cylinder to Engine
Minimum Distance of "X"	530mm
Maximum Distance of "X"	1000mm



TBK 800T



Tie Bar Length Adjustment	Cutting type
Applicable Cylinder	SOC3520H, SOC3520V
Number of Engine	2
Number of Cylinder	2
Mounting	Cylinder to Cylinder
Minimum Distance of "X"	610mm
Maximum Distance of "X"	1130mm



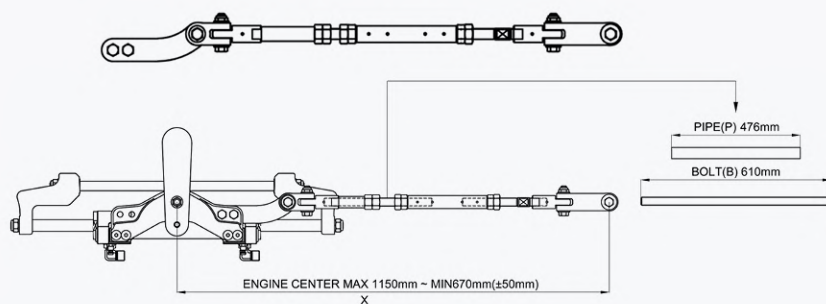
Component

TIE BAR

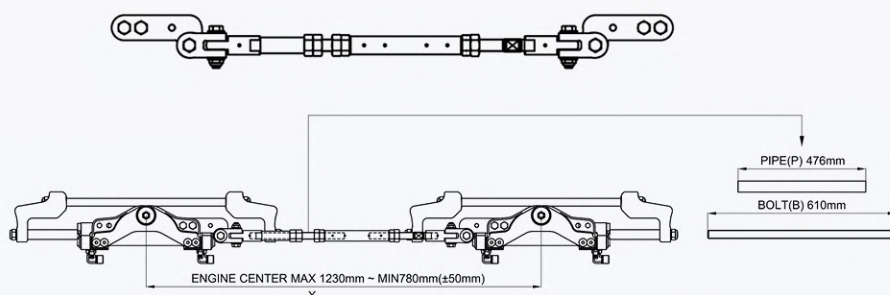
FOR SOC3520H,V

TBA 900S

Tie Bar Length Adjustment	Cutting & Adjust type
Applicable Cylinder	SOC3520H, SOC3520V
Number of Engine	2
Number of Cylinder	1
Mounting	Cylinder to Engine
Minimum Distance of "X"	670mm (±50mm)
Maximum Distance of "X"	1150mm (±50mm)

**TBA 900T**

Tie Bar Length Adjustment	Cutting & Adjust type
Applicable Cylinder Model	SOC3520H, SOC3520V
Number of Engine	2
Number of Cylinder	2
Mounting	Cylinder to Cylinder
Minimum Distance of "X"	780mm (±50mm)
Maximum Distance of "X"	1230mm (±50mm)



Component

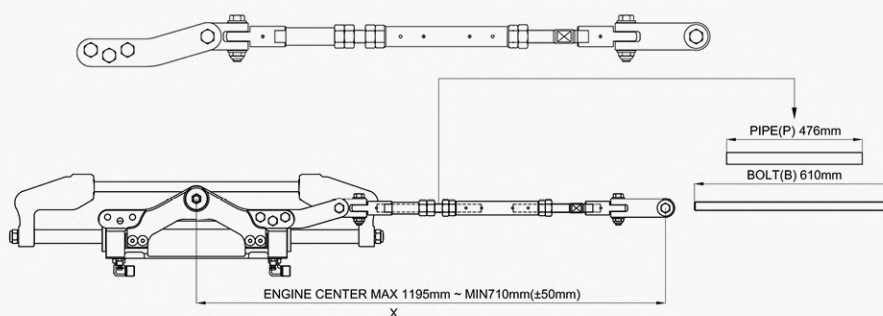
TIE BAR

FOR SOC3822H

3822-TBA-1-2



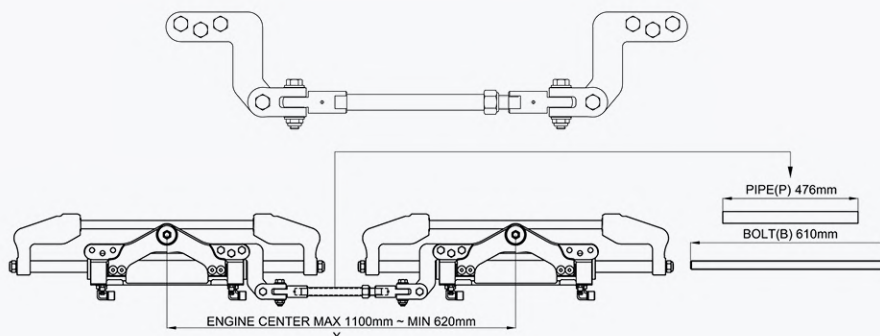
Tie Bar Length Adjustment	Cutting & Adjust type
Applicable Cylinder	SOC3822H
Number of Engine	2
Number of Cylinder	1
Mounting	Cylinder to Engine
Minimum Distance of "X"	710(±50)mm
Maximum Distance of "X"	1195(±50)mm



3822-TBK-2-2



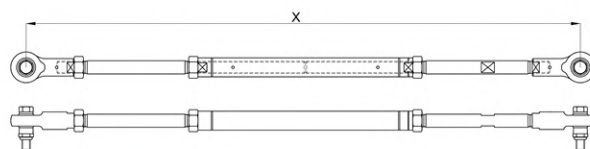
Tie Bar Length Adjustment	Cutting type
Applicable Cylinder	SOC3822H
Number of Engine	2
Number of Cylinder	2
Mounting	Cylinder to Cylinder
Minimum Distance of "X"	620mm
Maximum Distance of "X"	1100mm



Component

TIE BAR

FOR UNIVERSAL CYLINDER



TBE-6380

Tie Bar Length Adjustment	Adjust Type
Applicable Cylinder	For Universal Cylinder
Mounting	Engine to Engine
Minimum Distance of "X"	635mm
Maximum Distance of "X"	801mm

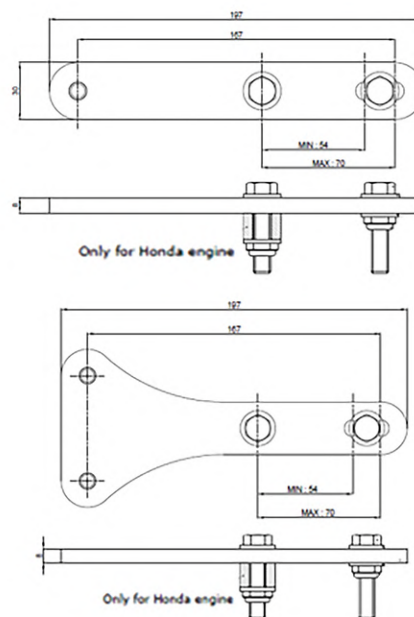
TBE-8096

Tie Bar Length Adjustment	Adjust Type
Applicable Cylinder	For Universal Cylinder
Mounting	Engine to Engine
Minimum Distance of "X"	800mm
Maximum Distance of "X"	966mm

TBE-100

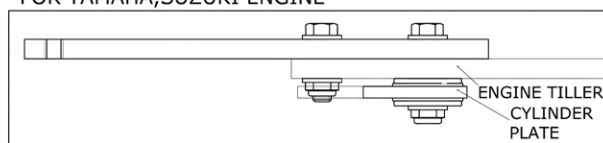


TBE-200

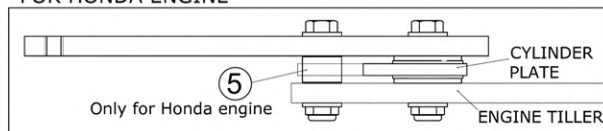


Application

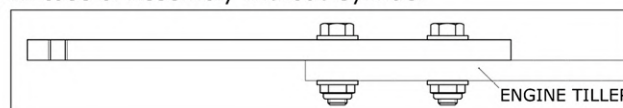
- 1) In case of Assembly with Cylinder
- FOR YAMAHA,SUZUKI ENGINE



- FOR HONDA ENGINE



- 2) In case of Assembly without Cylinder



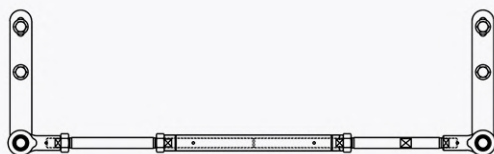
Component

TIE BAR

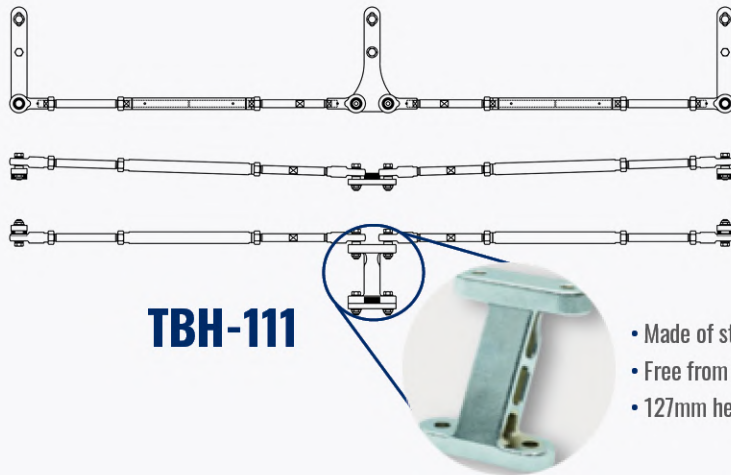
FOR UNIVERSAL CYLINDER

Installation Example

● Twin Engine



● Triple Engine



TBH-111

- Made of stainless steel
- Free from interference with engine
- 127mm height

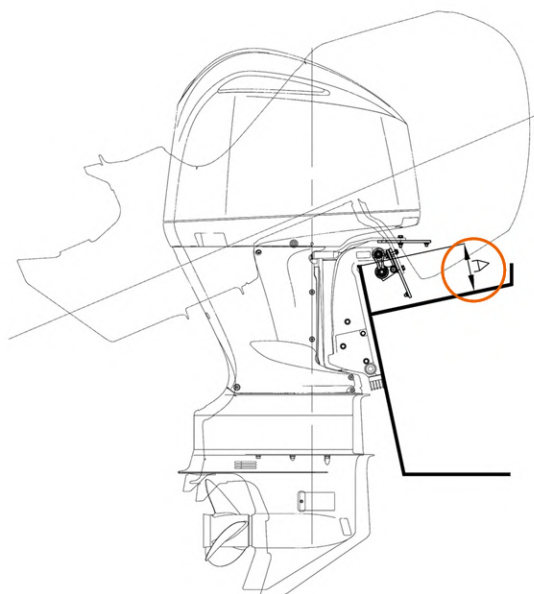
*When the middle engine(s) is (are) dropped than side engines, TBH111 can make tie bar horizontal.

*For more than quad engine application, please consult with your dealer.

⚠ NOTICE

For Using TBE Tie Bar

1. Above 200HP outboard engine of all brand, excepting Mercury engine
2. For engine full trim-up, "A" of drawing should be more than 185mm



Component

HOSE & HOSE COUPLING

HOSE



Part Number	Description	Hose Coupling	Hose Size	Recommend
NH04-SS-01	100R-04 1M	G(PF)1/4	1/4"	M0100H M0150V M0150H RSK-212
NH04-SS-02	100R-04 2M	G(PF)1/4	1/4"	
NH04-SS-03	100R-04 3M	G(PF)1/4	1/4"	
NH04-SS-04	100R-04 4M	G(PF)1/4	1/4"	
NH04-SS-05	100R-04 5M	G(PF)1/4	1/4"	
NH04-SS-06	100R-04 6M	G(PF)1/4	1/4"	
NH04-SS-07	100R-04 7M	G(PF)1/4	1/4"	
NH04-SS-08	100R-04 8M	G(PF)1/4	1/4"	
NH04-SS-09	100R-04 9M	G(PF)1/4	1/4"	
NH04-SS-10	100R-04 10M	G(PF)1/4	1/4"	
NH04-SS-15	100R-04 15M	G(PF)1/4	1/4"	
NH04-SS-20	100R-04 20M	G(PF)1/4	1/4"	

Part Number	Description	Hose Coupling	Hose Size	Recommend
NH05-SS-01	100R-05 1M	UNF 9/16	5/16"	
NH05-SS-02	100R-05 2M	UNF 9/16	5/16"	
NH05-SS-03	100R-05 3M	UNF 9/16	5/16"	
NH05-SS-04	100R-05 4M	UNF 9/16	5/16"	
NH05-SS-05	100R-05 5M	UNF 9/16	5/16"	
NH05-SS-06	100R-05 6M	UNF 9/16	5/16"	
NH05-SS-07	100R-05 7M	UNF 9/16	5/16"	
NH05-SS-08	100R-05 8M	UNF 9/16	5/16"	
NH05-SS-09	100R-05 9M	UNF 9/16	5/16"	
NH05-SS-10	100R-05 10M	UNF 9/16	5/16"	
NH05-SS-15	100R-05 15M	UNF 9/16	5/16"	
NH05-SS-20	100R-05 20M	UNF 9/16	5/16"	

Part Number	Description	Hose Coupling	Hose Size	Recommend
NH06-SS-01	100R-06 1M	G(PF)3/8	3/8"	M0350H M0350V M0700H MS250S MAXTEERING RSK-212
NH06-SS-02	100R-06 2M	G(PF)3/8	3/8"	
NH06-SS-03	100R-06 3M	G(PF)3/8	3/8"	
NH06-SS-04	100R-06 4M	G(PF)3/8	3/8"	
NH06-SS-05	100R-06 5M	G(PF)3/8	3/8"	
NH06-SS-06	100R-06 6M	G(PF)3/8	3/8"	
NH06-SS-07	100R-06 7M	G(PF)3/8	3/8"	
NH06-SS-08	100R-06 8M	G(PF)3/8	3/8"	
NH06-SS-09	100R-06 9M	G(PF)3/8	3/8"	
NH06-SS-10	100R-06 10M	G(PF)3/8	3/8"	
NH06-SS-15	100R-06 15M	G(PF)3/8	3/8"	
NH06-SS-20	100R-06 20M	G(PF)3/8	3/8"	

- Specify hose length required
- Pre-assembled hose connectors on both ends Swaged type



Part Number	Description	Hose Coupling
NH04	100R-04 200M x 1Roll	1/4"
NH05	100R-05 100M x 1Roll	5/16"
NH06	100R-06 100M x 1Roll	3/8"

HOSE COUPLING



SE-PF-04-14-S
SF-UN-05-14-S
SF-PF-06-14-S



CPK0414

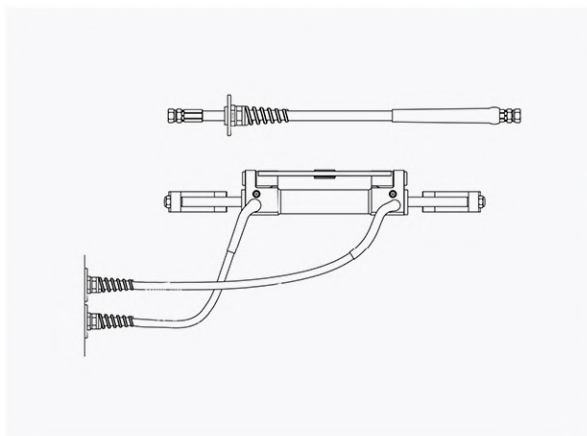


C3520149

Part Number	Spec	Material	Suitable Hose	Remark
SE-PF-04-14-S	G(PF) 1/4	Stainless Steel	100R-04 1/4" (NH04)	Swaging Type
SF-UN-05-14-S	UNF 9/16	Stainless Steel	100R-05 5/16" (NH05)	Swaging Type
SF-PF-06-14-S	G(PF) 3/8	Stainless Steel	100R-06 3/8" (NH06)	Swaging Type
CPK0414	G(PF) 1/4	Steel	100R-04 1/4" (NH04)	Push in Type 1/4" (NH04)
C3520149	G(PF) 3/8	Brass	100R-06 3/8" (NH06)	Reusable (Screw in) Type

BULKHEAD MOUNTING KIT

BULKHEAD STRAIN RELIEF KIT

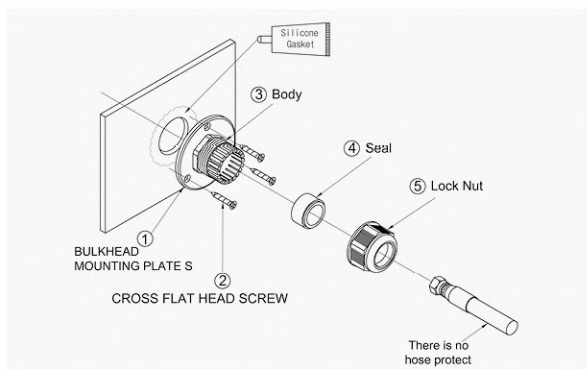


Part Number	Description	Suitable Hose
BMK16	BULKHEAD STRAIN RELIEF KIT	NH04, 100R-04 (1/4")
		NH05, 100R-05 (5/16")
		NH06, 100R-06 (3/8")

Caution :
Hose should be pre-assembled with Bulkhead Mounting Plate.
For part number, add "B" on part number of hose kit.
For example, NH06-SS-06B : 6meter hose kit with Bulkhead Mounting Plate

BULKHEAD THRU-HULL KIT

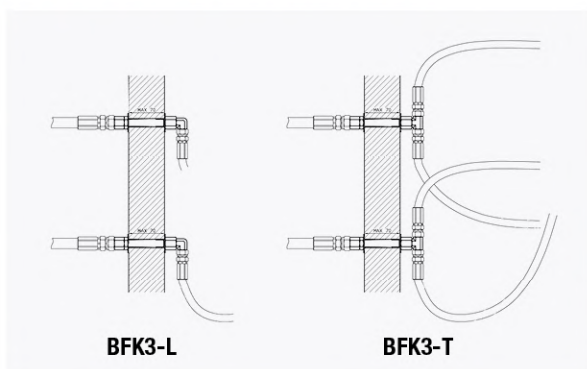
for presassembled hose couplings



Part Number	Description	Suitable Hose
BMK100	BULKHEAD THRU-HULL KIT	NH04, 100R-04 (1/4")
BMK200		NH05, 100R-05 (5/16")
		NH06, 100R-06 (3/8")

Benefit :
Hose can be assembled with Bulkhead Mounting kit at field.

BULKHEAD FITTING KIT



Part Number	Description	Suitable Hose
BFK3-L	Bulkhead Fitting(Elbow fitting)	NH06, 100R-06 (3/8")
BFK3-T	Bulkhead Fitting (T fitting)	

Component

HOSE PROTECTOR PORT BLOCK

HOSE PROTECTOR



C3520174



C3520168

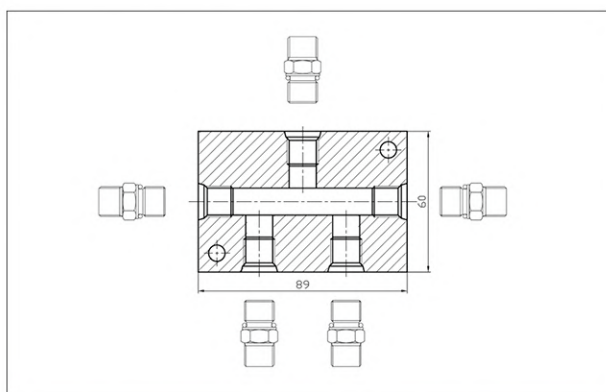


RHHP02

Part Number	Description	Application
C3520174	Hose Protector	NH04 100R-04 Hose
C3520168	Hose Protector	NH05 100R-05, NH06 100R-06 Hose
RHHP02	Hose Sleeve	NH04 100R-04, NH05 100R-05, NH06 100R-06 Hose

PORT BLOCK

In case of the hydraulic steering system with more than triple cylinder, W1224529 port block could help the hose connection



Part Number	Description	Port	Suitable Hose
W1224529	Port Block	PF 1/4	NH04, 100R-04 NH05, 100R-05 NH06, 100R-06

Component

OIL OIL BLEEDING KIT OIL PLUG

OIL

Hydraulic steering require a good quality of hydraulic fluid, especially in case of manual hydraulic steering like outboard hydraulic steering. We highly recommend to use ISO VG 15 oil. Substitution of non-recommended fluid may result in heavy steering.

Part Number	Description	Material
SF-OIL-15	1 liter bottle	ISO VG 15

- 2 bottle are packed in a box as standard
- In case of bulk, 24 bottle are packed in a box



Box for 2 bottles of oil



Box for 24 bottles of oil



OIL BLEEDING KIT

Part Number	Description	Application
OAK-300	Oil Fill & Puring kit	Hydraulic Steering Kit
OAK-500		Hydraulic Power Steering Kit
OAK-400		Remote Steering Kit



OIL PLUG ON HELM PUMP



C1800802



C1800803

Part Number	Description	Application
C1800802	Oil Plug, vented	Hydraulic steering kit for Single station
C1800803	Oil Plug, non-vented	Hydraulic steering kit for Dual station

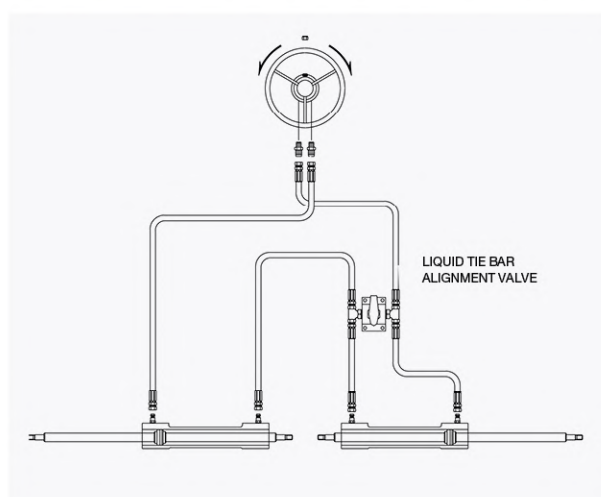
Component

LIQUID TIE BAR ALIGNMENT VALVE TUBE BRACKET

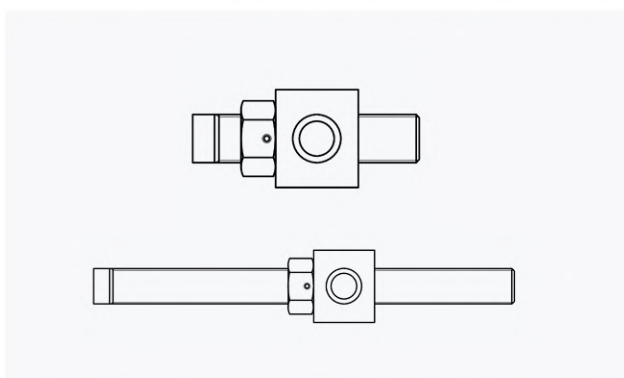
LIQUID TIE BAR ALIGNMENT VALVE

In case that the mechanical tie bar can not be used because of boat situation, the Liquid Tie Bar Alignment Valve can be used to allow for realignment of two outboard motors or two rudders. The use of mechanical tie bar is best. There is no substitute for mechanical tie bar.

Part Number	Description	Application
LTB-14	G (PF) 1/4	NH04, 100R-04
LTB-916	UNF 9/16	NH05, 100R-05
LTB-38	G (PF) 3/8	NH06, 100R-06



TUBE BRACKET FOR STERN DRIVE CYLINDER



Part Number	Application	Description	Application
SBK-92	TUBE BRACKET for Sterndrive	92mm	SSC3214U2, SSC3214UT1
SBK-250	TUBE BRACKET for Sterndrive	250mm	SSC3214U, SSC3214B

STEERING WHEEL WEDGE KIT

STEERING WHEEL



SH-300 Type



S01 Type

Model	Specificaion	Size	Material
SH-300	Taper 3/4"	Φ300	Aluminium
S01-350		Φ350	Stainless Steel
S01-395		Φ395	Stainless Steel

WEDGE KIT

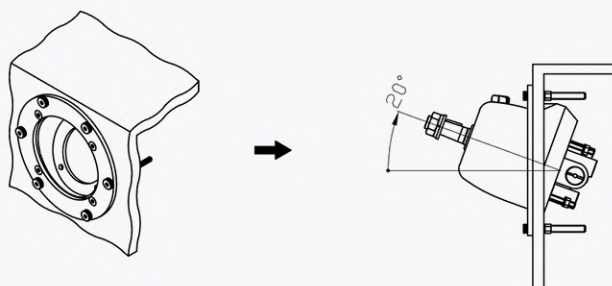
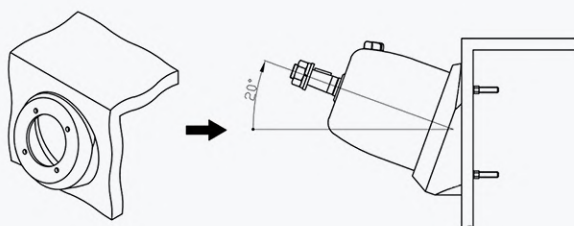
Wedge could help helm pump to be installed at angle of 20 degree to the mounting surface.



SHB 100 (Protruding type)



SHB 200 (Embedded type)



Component

FITTING

● Straight Fitting



PART NUMBER	HSO14HS
DESCRIPTION	STRAIGHT FITTING
APPLICATION	PF1/4 X PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HSO14BS
DESCRIPTION	STRAIGHT FITTING
APPLICATION	UNF9/16-24 X PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HSO14NS
DESCRIPTION	STRAIGHT FITTING
APPLICATION	PF3/8 X PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HS38CS-F
DESCRIPTION	STRAIGHT FITTING FOR VERADO HOSE
APPLICATION	PT 3/8 X UNF 9/16-18(O-RING)
REMARK	Minimum Order Quantity : 10EA

● Elbow Fitting



PART NUMBER	HLO14HOS
DESCRIPTION	ELBOW FITTING
APPLICATION	PF1/4 X PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HLO14BOS
DESCRIPTION	ELBOW FITTING
APPLICATION	UNF9/16-24 X PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HLO14NOS
DESCRIPTION	ELBOW FITTING
APPLICATION	PF3/8 X PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HLO14COS-F
DESCRIPTION	ELBOW FITTING FOR VERADO HOSE
APPLICATION	UNF9/16-18(O-RING) X PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA

● T Fitting



PART NUMBER	HT014HHS
DESCRIPTION	T FITTING
APPLICATION	PF1/4, X 2, PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HT014BBS
DESCRIPTION	T FITTING
APPLICATION	UNF9/16-24 X 2, PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HT014NNS
DESCRIPTION	T FITTING
APPLICATION	PF3/8 X 2, PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HT014COS-F
DESCRIPTION	T FITTING FOR VERADO HOSE
APPLICATION	UNF 9/16-18(O-RING) X 2, PF1/4(O-RING)
REMARK	Minimum Order Quantity : 10EA

Component

FITTING

● Straight Connector



PART NUMBER	HSHH
DESCRIPTION	HOSE COUPLING CONNECTOR
APPLICATION	PF1/4 X 2
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HSBB
DESCRIPTION	HOSE COUPLING CONNECTOR
APPLICATION	UNF-9/16-24 X 2
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HSNN
DESCRIPTION	HOSE COUPLING CONNECTOR
APPLICATION	PF3/8 X 2
REMARK	Minimum Order Quantity : 10EA

● T Connector



PART NUMBER	HTH300
DESCRIPTION	EQAUL T FITTING
APPLICATION	PF1/4 X 3
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HTC300
DESCRIPTION	EQAUL T FITTING
APPLICATION	UNF9/16-18
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HTN300
DESCRIPTION	EQAUL T FITTING
APPLICATION	PF3/8 X 3
REMARK	Minimum Order Quantity : 10EA

● Bleeder



PART NUMBER	C32141118
DESCRIPTION	T FITTING WITH BLEEDER
APPLICATION	PF3/8 X PF1/4(O-RING)X BLEEDER
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	C3520122
DESCRIPTION	BLEED FITTING
APPLICATION	ALL OF SEAFIRST CYLINDER
REMARK	Minimum Order Quantity : 10EA

● Adaptor



PART NUMBER	RDB38
DESCRIPTION	CONNECTOR
APPLICATION	UNF 9/16-24 X PF3/8
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	RD91638S
DESCRIPTION	STRAIGHT ADAPTOR
APPLICATION	UNF9/16-24 X PF3/8
REMARK	Minimum Order Quantity : 10EA

● Plug



PART NUMBER	HP38
DESCRIPTION	HOSE COUPLING PLUG
APPLICATION	PF3/8 HOSE COUPLING
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	HP14
DESCRIPTION	HOSE COUPLING PLUG
APPLICATION	PF1/4 HOSE COUPLING
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	NP38
DESCRIPTION	FITTING PLUG
APPLICATION	PF3/8 FITTING
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	NP14
DESCRIPTION	FITTING PLUG
APPLICATION	PF1/4 FITTING
REMARK	Minimum Order Quantity : 10EA

Component

SPARE PARTS

● Helm Pump Seal Kit



PART NUMBER	C1800804
DESCRIPTION	SEAL KIT
APPLICATION	CSH, NSH HELM PUMP
REMARK	Minimum Order Quantity : 10EA

● Helm Pump Mounting Kit



PART NUMBER	SHP-M
DESCRIPTION	HELM PUMP MOUNTING HARD PLATE
APPLICATION	CSH, NSH HELM PUMP
REMARK	Minimum Order Quantity : 5EA

SPARE PARTS

● Tube Cover Kit



PART NUMBER	C2512802
DESCRIPTION	TUBE COVER KIT
APPLICATION	SOC2512H SERIES CYLINDER
REMARK	



PART NUMBER	C3016802
DESCRIPTION	TUBE COVER KIT
APPLICATION	SOC3016H SERIES, SOC3016V SERIES CYLINDER
REMARK	



PART NUMBER	C3520802
DESCRIPTION	TUBE COVER KIT
APPLICATION	SOC3520H SERIES, SOC3520V SERIES CYLINDER
REMARK	



PART NUMBER	C3822802
DESCRIPTION	TUBE COVER KIT
APPLICATION	SOC3822H SERIES CYLINDER
REMARK	



PART NUMBER	C3215802
DESCRIPTION	TUBE COVER KIT
APPLICATION	SSC3214B SERIES CYLINDER
REMARK	



PART NUMBER	C3214802
DESCRIPTION	TUBE COVER KIT
APPLICATION	SSC3214U SERIES CYLINDER
REMARK	

● Arm Kit



PART NUMBER	C2512805
DESCRIPTION	ARM KIT
APPLICATION	SOC2512H SERIES CYLINDER
REMARK	



PART NUMBER	C3016805
DESCRIPTION	ARM KIT
APPLICATION	SOC3016H SERIES CYLINDER
REMARK	



PART NUMBER	C3016809
DESCRIPTION	ARM S KIT
APPLICATION	SOC3016V SERIES CYLINDER
REMARK	



PART NUMBER	C3520805
DESCRIPTION	ARM KIT
APPLICATION	SOC3520V SERIES CYLINDER
REMARK	



PART NUMBER	C3520807
DESCRIPTION	ARM KIT R
APPLICATION	SOC3520H SERIES CYLINDER
REMARK	



PART NUMBER	C3822805
DESCRIPTION	ARM KIT
APPLICATION	SOC3822 SERIES CYLINDER
REMARK	

Component

SPARE PARTS

● Rod Kit



PART NUMBER	C2512803
DESCRIPTION	ROD KIT
APPLICATION	SOC2512H SERIES CYLINDER
REMARK	



PART NUMBER	C3016803
DESCRIPTION	ROD KIT
APPLICATION	SOC3016H SERIES CYLINDER
REMARK	



PART NUMBER	C3016810
DESCRIPTION	ROD KIT
APPLICATION	SOC3016V SERIES CYLINDER
REMARK	



PART NUMBER	C3520803
DESCRIPTION	ROD KIT
APPLICATION	SOC3520H SERIES, SOC3520V SERIES CYLINDER
REMARK	



PART NUMBER	C3822803
DESCRIPTION	ROD KIT
APPLICATION	SOC3822H SERIES CYLINDER
REMARK	



PART NUMBER	C3215803
DESCRIPTION	ROD KIT
APPLICATION	SSC3214B SERIES CYLINDER
REMARK	



PART NUMBER	C3214803
DESCRIPTION	ROD KIT
APPLICATION	SSC3214U SERIES CYLINDER
REMARK	

● Conversion Kit



PART NUMBER	C3016811
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC3016V-SY1 SERIES CYLINDER
REMARK	



PART NUMBER	C3016812
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC3016V-SY4 SERIES CYLINDER
REMARK	



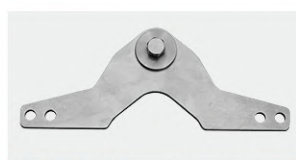
PART NUMBER	C3520814
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC3520H(V)-R(Y)1, SOC3016H-R1 CYLINDER
REMARK	



PART NUMBER	C3520815
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC3520H(V)-R(Y)4, SOC3016H-R4 CYLINDER
REMARK	



PART NUMBER	C3520816
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC3520H-R5, SOC3016H-R5 CYLINDER
REMARK	



PART NUMBER	C3520817
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC3520H-R6, SOC3016H-R6 CYLINDER
REMARK	



PART NUMBER	C2512807
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC2512H SERIES CYLINDER
REMARK	



PART NUMBER	C3822807
DESCRIPTION	CONVERSION KIT
APPLICATION	SOC3822H SERIES CYLINDER
REMARK	

SPARE PARTS

● Space Ring Kit



PART NUMBER	C3520806
DESCRIPTION	SPACE RING KIT
APPLICATION	ALL OF SEAFIRST CYLINDER
REMARK	



PART NUMBER	C2512806
DESCRIPTION	SPACE RING KIT
APPLICATION	SOC2512H SERIES
REMARK	



PART NUMBER	C3016806
DESCRIPTION	SPACE RING KIT
APPLICATION	SOC3016H SERIES CYLINDER
REMARK	



PART NUMBER	C3520808
DESCRIPTION	SPACE RING KIT R
APPLICATION	SOC3520H SERIES SOC3822H SERIES CYLINDER
REMARK	

● Hinge Pin Kit



PART NUMBER	C3520821
DESCRIPTION	HINGE PIN KIT
APPLICATION	SOC3520H(V) SERIES, SOC3016H(V) SERIES CYLINDER
REMARK	



PART NUMBER	C3822809
DESCRIPTION	HINGE PIN KIT
APPLICATION	SOC3822H SERIES CYLINDER
REMARK	

Component

SPARE PARTS

● Bolt



PART NUMBER	B030824022S
DESCRIPTION	BOLT
APPLICATION	LENGTH : 22mm
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	B030824038S
DESCRIPTION	BOLT
APPLICATION	LENGTH : 38mm
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	B030824044S
DESCRIPTION	BOLT
APPLICATION	LENGTH : 44mm
REMARK	Minimum Order Quantity : 10EA



PART NUMBER	B030824050S
DESCRIPTION	BOLT
APPLICATION	LENGTH : 50mm
REMARK	Minimum Order Quantity : 10EA

● Nut



PART NUMBER	NY030824014SS
DESCRIPTION	NYLOCK NUT
APPLICATION	FOR UNF3/8-24 BOLT
REMARK	Minimum Order Quantity : 10EA

● Cylinder Arm Nut



PART NUMBER	C3016122
DESCRIPTION	NUT RL
APPLICATION	SOC3016V-SY SERIES CYLINDER
REMARK	



PART NUMBER	C3016123
DESCRIPTION	NUT YL
APPLICATION	SOC3016V-SY SERIES CYLINDER
REMARK	



PART NUMBER	C3016124
DESCRIPTION	NUT S
APPLICATION	SOC3016V-SY, SH SERIES CYLINDER
REMARK	



PART NUMBER	C3520116
DESCRIPTION	NUT R
APPLICATION	SOC3520V-Y,H,M SERIES CYLINDER
REMARK	



PART NUMBER	C3520117
DESCRIPTION	NUT Y
APPLICATION	SOC3520V-Y SERIES CYLINDER
REMARK	



PART NUMBER	C3520131
DESCRIPTION	NUT H
APPLICATION	SOC3520V-H SERIES CYLINDER
REMARK	

SPARE PARTS



● BLP Motor



PART NUMBER	DESCRIPTION
BLP1216MOTORASSY	BLP 1216 MOTOR, 12V 600W1

● BLP Drive



PART NUMBER	DESCRIPTION
BLP1216PCBBOARD	BLP 1216 PCB BOARD, DRIVE

● Extension Cable



PART NUMBER	DESCRIPTION
E100041	BLP Motor extension cable 1meter Kit
E100042	BLP Motor extension cable 2meter Kit
E100043	BLP Motor extension cable 3meter Kit

● Circuit Breaker



PART NUMBER	DESCRIPTION
W1224560	CIRCUIT BRAKERS, 30A

Component STK-100 TOOL KIT



● Cylinder Rod Insert Guide



Part No.	Application
J2512016-4	SOC2512
J3016009-4	SOC3016
J3520013-6	SOC3520
J3822009-4	SOC3822

● Tube Cover Assembly Tool



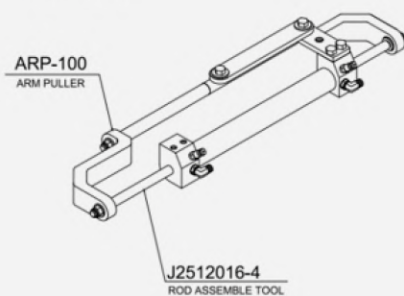
Part No.	Application
J3016002	SOC3016
J3016009-4	SOC3016
J3520009-6	SOC3822

● Cylinder Arm Puller

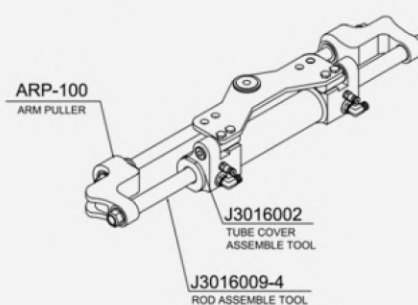


Part No.	Application
ARP-100	ALL CYLINDER

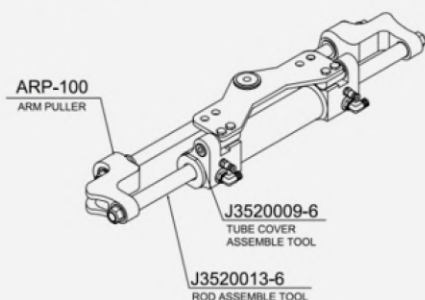
SOC2512



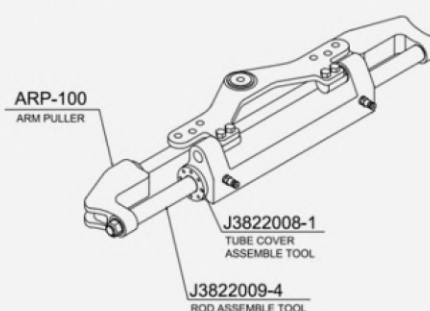
SOC3016



SOC3520



SOC3822



Component

STK-100

TOOL KIT

● Valve Plug Assembly Tool



Part No.	Application
J1800040	ALL HELM PUMP

● 1/4 Plug Assembly Tool

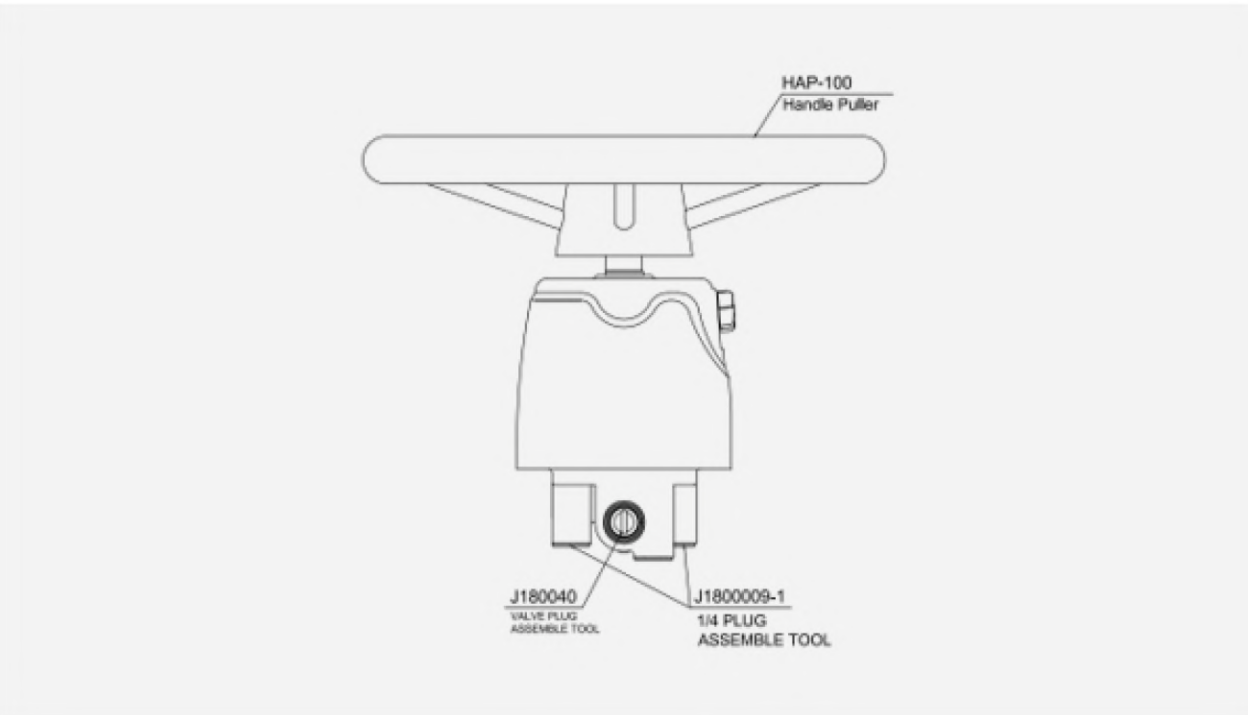


Part No.	Application
J1800009-1	ALL HELM PUMP

● Steering Wheel Puller



Part No.	Application
HAP-100	ALL WHEEL



**HYDRAULIC
STEERING
FOR OUTBOARD
FOR STERN DRIVE
JACK PLATE**



Catalog No. : CAT 2302-H [2023.02]

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Homepage



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