

Power Products Service New Model

BF40DK4/50DK4



New Control Panel



Cleaning within engine
Water testing port
Change the drawing of the water

2017.02.22 P.36 [Cleaning within engine] : Change the drawing of the water testing port

Medium type outboard motor that can handle our long term professional users' troubles (corrosion protection, maintainability improvement etc.)

Product quality improvement

- > Matured powerful design, "Crouching shape"
- > Multifunction display (YOP)
- > New measure for multiple unit arrangement of switch panel (YOP)

Improved reliability / maintainability

- > Improved anode maintainability
- > Newly established external water washing hose
- > Improved ENG oil availability, with additional recommended grade (SL)
Viscosity changed 5W-30→10W-30
- > Improved external appearance of iron based parts within engine cover

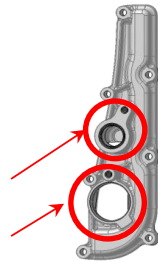
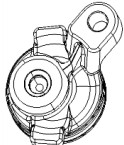
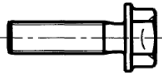
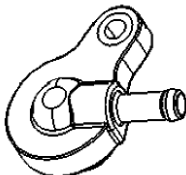
Cost reduction

- > ECU insulation structure was changed

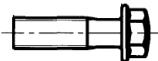
NEW BF50



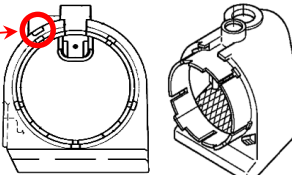
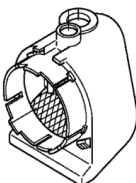
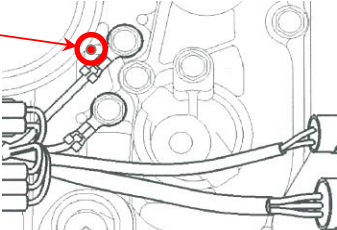
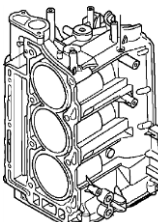
5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
COVER,WATER JACKET	19361-ZZ5-M000 Parts compatibility : NN ・Addition of boss and hole (2 positions) ・Facilitation of anode maintenance ・Facilitation of washing <u>Material change (Silafont36)</u> Flush valve mounting hole Anode metal maintenance 	19361-ZV5 -0007 Material: HS1orHS2+Alumite 
COVER,ANODE	19381-ZZ5-M000 Parts compatibility : NN ・Facilitation of anode maintenance <u>Material change (Silafont36)</u> 	No settings
O-RING,33X2.4	91302-ZZ5 -M010-M1 Parts compatibility : NN ・Facilitation of anode maintenance ・O-ring for anode cover 	No settings
BOLT,FLANGE 6X22	90030-ZZ5 -M001 Parts compatibility : NN ・Facilitation of anode maintenance ・Common use of mass production parts Material:S40C+HiM coat 	No settings
COVER,FLUSH VLV	19277-ZZ5 -M000 Parts compatibility : NN ・Facilitation of washing Material:PA6+GF30 	No settings

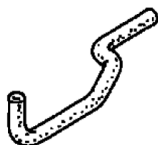
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 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
O-RING,16MM	91303-800 -0000 Parts compatibility :NN ・Facilitation of washing ・O-ring for flush valve cover ・Common use of mass production parts 	No settings
PKG,FLUSH VALVE	19297-ZW9-000 Parts compatibility :NN ・Facilitation of washing ・Packing for flush valve ・Common use of mass production parts 	No settings
VALVE,FLUSH	19291-ZW9 -0001 Parts compatibility NN ・Facilitation of washing ・Flush valve ・Common use of mass production parts 	No settings
SPRING,FLASH VALVE	19279-ZW9 -0100 Parts compatibility : NN ・Facilitation of washing ・Flush valve spring ・Common use of mass production parts 	No settings
BOLT,FLANGE 6X22	90030-ZZ5 -M001 Parts compatibility : NN ・Facilitation of washing ・Tightening bolt for flush valve cover ・Common use of mass production parts Material:S40C+HiM coat 	No settings

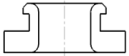
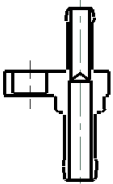
5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
GUIDE COMP,AIR INLET	17200-ZZ5 -M000 Parts compatibility : NY ・Position change of air flow band turn-locking protrusion 	17201-ZZ5 -0101 
BLOCK COMP,CYLN	12100-ZZ5 -M000 Parts compatibility : NY ・Position change of turn-locking boss for regulator GND earth 	12100-ZZ5 -0002 
NUT,WATER MOUTH (A)	19270-ZY3 -0002 Parts compatibility : NN ・Facilitation of washing ・Common use of mass production parts 	No settings
JOINT,WATER HOSE(A)	19271-ZY3 -0001 Parts compatibility : NN ・Facilitation of washing ・Common use of mass production parts 	No settings
SEAT,WATER MOUTH	19272-ZY3 -0001 Parts compatibility : NN ・Facilitation of washing ・Common use of mass production parts 	No settings

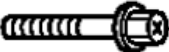
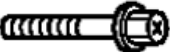
5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
CAP,WATER JOINT	19289-ZZ5 -M000 Parts compatibility : NN •Facilitation of washing 	No settings
NUT,HEX,16MM	90302-921 -0002 Parts compatibility : NN •Facilitation of washing •Common use of mass production parts 	No settings
CLIP B1 13,TUBE	90651-ZY6 -0001 Parts compatibility : NN •Facilitation of washing •Common use of mass production parts 	No settings
TUBE COMP A,WATER	19266-ZZ5 -M000 Material:TC+Coating (bonding) •Facilitation of washing 	No settings
TUBE COMP B,WATER	19259-ZZ5 -M000 Material:FT-B2 •Facilitation of washing 	No settings

5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
GROMMET,TUBE	19282-ZZ5 -M000 Material:BⅢ6010 ・Facilitation of washing 	No settings
JOINT,TUBE	19287-ZZ5 -M000 Material:PA6-GF30 ・Facilitation of washing 	No settings
BOLT,FLANGE 6X12(CT200)	90020-ZZ5 -M001 ・Facilitation of washing 	-
BOLT,FLANGE 8X94	11115-ZZ5 -M011-M1 ・HiM coat 	11115-ZV5 -0144 ・Iron based material+GEOMET 
COLLAR,HEAD COVER	12314-ZZ5 -M001 ・HiM coat 	12314-ZV5 -3004 ・Iron based material+GEOMET 

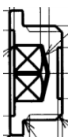
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 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
BOLT,SEALING,14MM	15236-ZZ5 -M001 •HiM coat 	15236-ZV5 -0103 •Iron based material+GEOMET 
BOLT,CLAMP M4X35	90001-ZZ5 -M001 •HiM coat 	90001-ZZ5 -0001 •Iron based material+GEOMET 
BOLT-WASH,6X27(CT200)	90003-ZZ5 -M001 •HiM coat 	90003-ZW2 -0003 •Iron based material+GEOMET 
BOLT,STUD,6X28	90006-ZZ5 -M001 •HiM coat 	90006-ZV5 -0104 •Iron based material+GEOMET 
BOLT,FLANGE,6X14 (CT200)	90011-ZZ5 -M001 •HiM coat 	90011-ZW9 -0003 •Iron based material+GEOMET 
BOLT,T/B ADJ SPG	90012-ZZ5 -M011-M1 •HiM coat 	90012-ZV5 -0133 •Iron based material+GEOMET 

5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
BOLT-WASH,6X25	90013-ZZ5 -M001 •HiM coat 	90013-ZW1 -0003 •Iron based material+GEOMET 
BOLT,FLANGE 6X25	90014-ZZ5 -M001 •HiM coat 	90016-ZW9 -0004 •Iron based material+GEOMET 
BOLT,FLANGE 6X20	90018-ZZ5 -M001 •HiM coat 	90018-ZW5 -0003 •Iron based material+GEOMET 
BOLT,FLANGE 6X35	90019-ZZ5 -M001 •HiM coat 	90019-ZW9 -0004 •Iron based material+GEOMET 
BOLT,FLANGE,6X14	90021-ZZ5 -M001 •HiM coat 	90021-ZY3 -0003 •Iron based material+GEOMET 
BOLT,FLANGE,6X22	90030-ZZ5 -M001 •HiM coat 	90030-ZY3 -0003 •Iron based material+GEOMET 

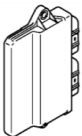
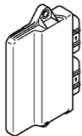
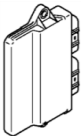
5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
BOLT,FLANGE,6X32	90032-ZZ5 -M001 •HiM coat 	90031-ZY3 -0003 •Iron based material+GEOMET 
BOLT,SEALING 22MM	90081-ZZ5 -M001 •HiM coat 	90081-ZV5 -0103 •Iron based material+GEOMET 
BOLT,FLANGE 6X30	90002-ZZ5 -M001 •HiM coat 	90102-ZW5 -0003 •Iron based material+GEOMET 
BOLT,FLANGE 6X40	90045-ZZ5 -M001 •HiM coat 	90145-ZW4 -0003 •Iron based material+GEOMET 
BOLT,FLANGE 6X50	90046-ZZ5 -M001 •HiM coat 	90146-ZW4 -0003 •Iron based material+GEOMET 
BOLT,FLANGE 6X55	90047-ZZ5 -M001 •HiM coat 	90147-ZW4 -0003 •Iron based material+GEOMET 

5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン部品 / Engine parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
BOLT,FLANGE 8X18	90051-ZZ5 -M001 •HiM coat 	90150-ZW4 -0004 •Iron based material+GEOMET 
BOLT,FLANGE 8X40	90055-ZZ5 -M001 •HiM coat 	90155-ZW4 -0004 •Iron based material+GEOMET 
BOLT,FLANGE SH 6X20	90068-ZZ5 -M001 •HiM coat 	90168-ZW4 -0003 •Iron based material+GEOMET 
SCREW,PAN 6X16	90084-ZZ5 -M001 •HiM coat 	90184-ZW4 -0003 •Iron based material+GEOMET 
NUT,FLANGE 6MM	90201-ZZ5 -M001 •HiM coat 	90301-ZW2 -F003 •Iron based material+GEOMET 
WASHER,PLAIN 8MM	90405-ZZ5 -M001 •HiM coat 	90405-ZV5 -0103 •Iron based material+GEOMET 

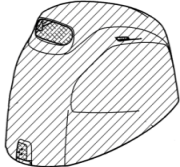
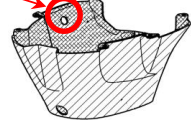
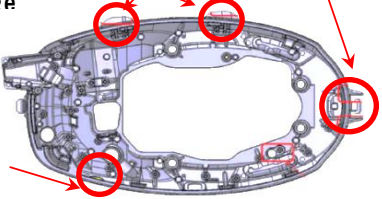
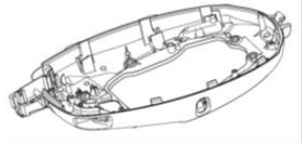
5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン電装部品 / Engine electrical parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
ECU ASSY	34750-ZZ4 -M011-M1 ECU for 40 Hp NMEA2000 insulation element is changed Driver for EACV driving is changed 	34750-ZZ4 -0530 ECU for 40 Hp 
ECU ASSY	34750-ZZ5 -M011-M1 ECU for 50 Hp NMEA2000 insulation element is changed Driver for EACV driving is changed 	34750-ZZ5 -0530 ECU for 50 Hp 
BOLT,WASH 6X25	90013-ZZ5 -M001 Surface treatment:HiM coat 	90013-ZW1 -0003 Surface treatment:GEOMET720-B type 
BOLT,FLANGE 6X28	90016-ZZ5 -M001 Surface treatment:HiM coat 	90016—ZY3 -0003 Surface treatment:GEOMET720-B type 
BOLT,FLANGE 6X16	90017-ZZ5 -M001 Surface treatment:HiM coat 	90017-ZY3 -0003 Surface treatment:GEOMET720-B type 
BOLT,WASH 5X18	90029-ZZ5 -M001 Surface treatment:HiM coat 	90029-ZY3 -0004 Surface treatment:GEOMET720-B type 

5)変更点(ポイントのみ記載) / Change parts (summary only)
 エンジン電装部品 / Engine electrical parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
BOLT,FLANGE 10X32	90031-ZZ5 -M001 Surface treatment:HiM coat 	90031-ZV5 -0104 Surface treatment:GEOMET720-B type 
BOLT,FLANGE SH 6X12	90050-ZZ5 -M001 Surface treatment:HiM coat 	90050-ZY3 -0003 Surface treatment:GEOMET720-B type 
BOLT,FLANGE 8X45	90026-ZZ5 -M001 Surface treatment:HiM coat 	90126-ZW4 -0004 Surface treatment:GEOMET720-B type 
WASHER,10X28X5	90435-ZZ5 -M001 Surface treatment:HiM coat 	90435-ZV5 -0104 Surface treatment:GEOMET720-B type 

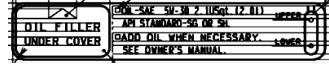
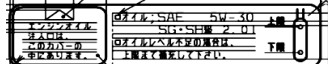
5)変更点(ポイントのみ記載) / Change parts (summary only)
 フレーム部品 / Frame parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
COVER,ENGINE	63100-ZZ5 -M000 Parts compatibility :NY Appearance design is changed Material: No change Coating: No change 	63101-ZZ5 -3002 
COVER,UNDER	63701-ZZ5 -M000 Parts compatibility :NY Appearance design is changed Material: No change Coating: No change Addition of outside washing water piping 	63701-ZV5 -0102 
CASE,ENG UNDER	40101-ZZ5 -M000 Addition of tool clearance Material: No change Partial external design change Outside washing water piping is added 	40101-ZZ5 -0004 
BOLT,FLANGE 6X12 (CT200)	90020-ZZ5 -M001 Surface treatment: HiM coat 	90013-ZV0 -0104 Surface treatment: GEOMET720-B type 
BOLT,FLANGE 6X30	90002-ZZ5 -M001 Surface treatment: HiM coat 	90102-ZW5 -0003 Surface treatment: GEOMET720-B type 

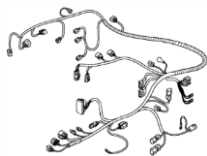
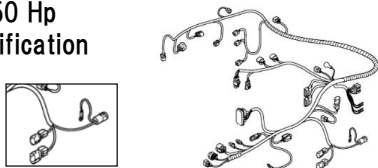
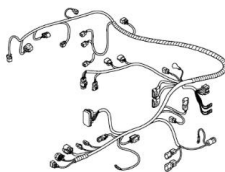
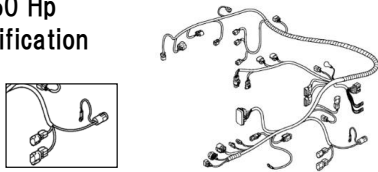
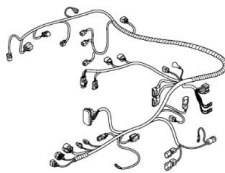
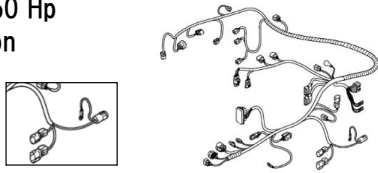
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 フレーム部品 / Frame parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
WASHER,PLAIN 6MM	90508-ZZ5 -M001 Surface treatment: HiM coat 	90508-ZY3 -0004 Surface treatment: GEOMET720-B type 
BOLT,FLANGE 6X14 (CT200)	90011-ZZ5 -M001 Surface treatment: HiM coat 	90011-ZW9 -0003 Surface treatment: GEOMET720-B type 
BOLT,FLANGE 6X28	90016-ZZ5 -M001 Surface treatment: HiM coat 	90016-ZY3 -0003 Surface treatment: GEOMET720-B type 
MARK,FRONT EMBLEM 40	87301-ZZ4 -M000 Design change 	87301-ZZ4 -0100 
MARK,FRONT EMBLEM 50	87301-ZZ5 -M000 Design change 	87301-ZZ5 -0100 
MARK,FOUR STROKE	87302-ZY3 -C001 	No settings

5)変更点(ポイントのみ記載) / Change parts (summary only)
 フレーム部品 / Frame parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
LABEL,CAUTION OIL(E)	87531-ZZ5 -M000 Parts compatibility :NN Oil: SAE 10W-30 SG・SH・SJ・SL Label material: MB2-V2D・C-11 	87531-ZW4 -7201 Oil: SAE 5W-30 SG・SH Label material: MB2-P1B 
LABEL,CAUTION OIL(J)	87531-ZZ5 -M600 Parts compatibility :NN Oil: SAE 10W-30 SG・SH・SJ・SL Label material: MB2-V2D・C-11 	87531-ZW4 -0001 Oil: SAE 5W-30 SG・SH Label material: MB2-P1B 
LABEL,CAUTION OIL(EF)	87531-ZZ5 -M900 Parts compatibility :NN Oil: SAE 10W-30 SG・SH・SJ・SL Label material: MB2-V2D・C-11 	87531-ZW4 -6111 Oil: SAE 5W-30 SG・SH Label material: MB2-P1B 

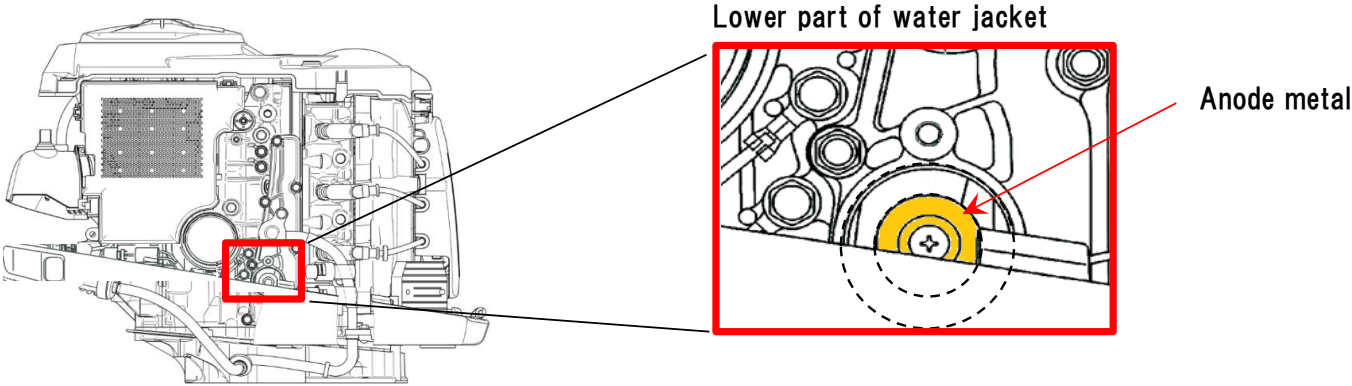
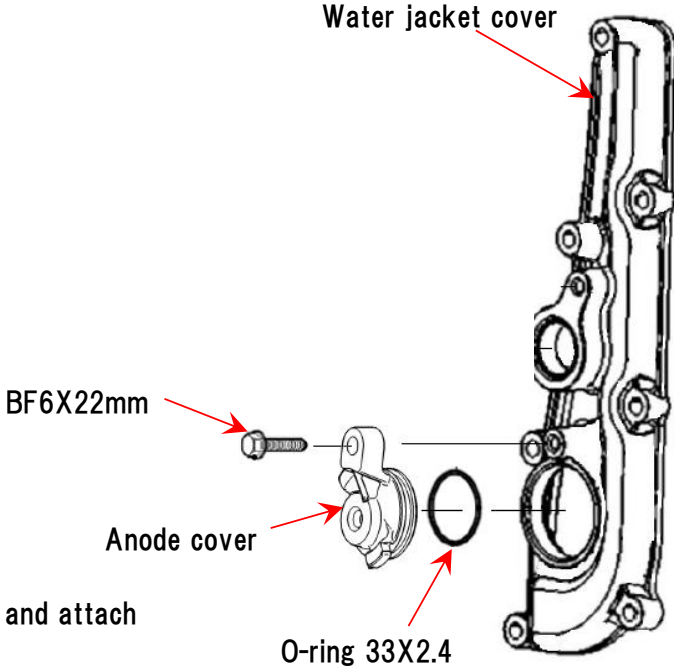
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フレーム部品 / Frame electrical parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
HARN ASSY,MAIN WIRE	32100-ZZ5 -M001 Change in branching position of REG earth portion (To deal with anode maintainability improvement) 	32100-ZZ5 -0300 Main harness for 40/50 Hp Power trim & tilt specification 
HARN ASSY,MAIN WIRE	32100-ZZ5 -S401 Change in branching position of REG earth portion (To deal with anode maintainability improvement) 	32100-ZZ5 -6220 Main harness for 40/50 Hp Power trim & tilt specification 
HARN ASSY,MAIN WIRE	32100-ZZ5 -S501 Change in branching position of REG earth portion (To deal with anode maintainability improvement) 	32100-ZZ5 -6530 Main harness for 40/50 Hp Gas assist specification 
NUT,FLANGE 5MM	90301-ZZ5 -M001 Surface treatment:HiM coat YOP 	18334-MT8 -7702 Surface treatment:HES D 2008-1 YOP 
BOLT,FLANGE 6X28(CT2000)	90103-ZZ5 -M001 Surface treatment:HiM coat 	90015-ZV0 -C104 Surface treatment:GEOMET720-B type 
BOLT,FLANGE 6X18(CT2000)	90104-ZZ5 -M001 Surface treatment:HiM coat 	90017-ZV0 -C104 Surface treatment:GEOMET720-B type 

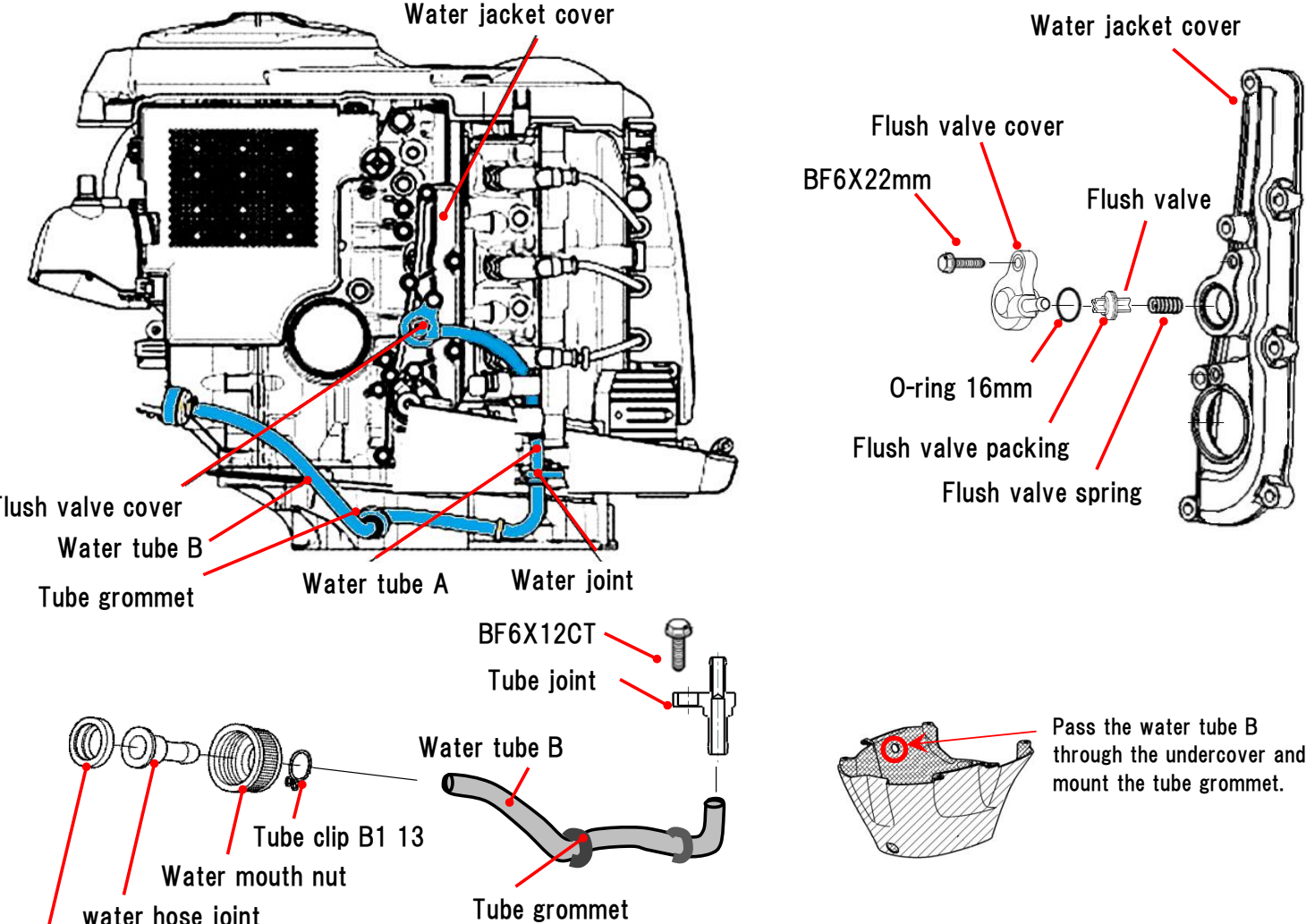
5)変更点(ポイントのみ記載) / Change parts (summary only)
 フレーム部品 / Frame electrical parts

変更部品 / Change parts	NEW BF40/50(ZZ4W/ZZ5W)	BF40/50(ZZ4/ZZ5)
WASHER,PLAIN 6MM	90503-ZZ5 -M001 Surface treatment: HiM coat 	90403-ZW1-0003 Surface treatment: GEOMET720-B type 
WASHER,PLAIN 5MM	90501-ZZ5 -M001 Surface treatment: HiM coat YOP 	94103-05400 Surface treatment: HES D 2008-1 YOP 
WASHER,SPG 4MM	90504-ZZ5 -M001 Surface treatment: HiM coat YOP 	94111-04500 Surface treatment: HES D 2008-2 YOP 
WASHER,SPG 5MM	90502-ZZ5 -M001 Surface treatment: HiM coat YOP 	94111-05400 Surface treatment: HES D 2008-1 YOP 

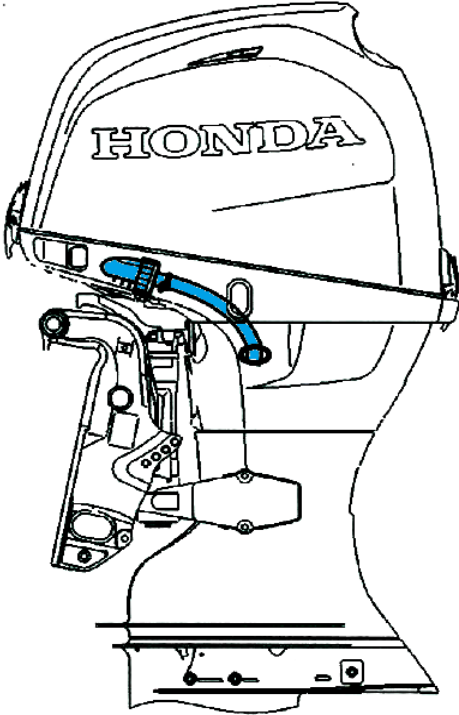
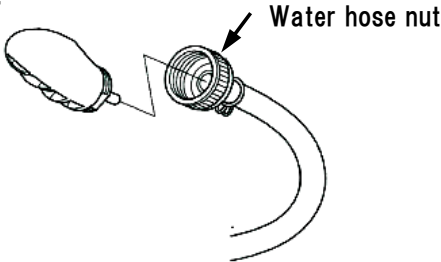
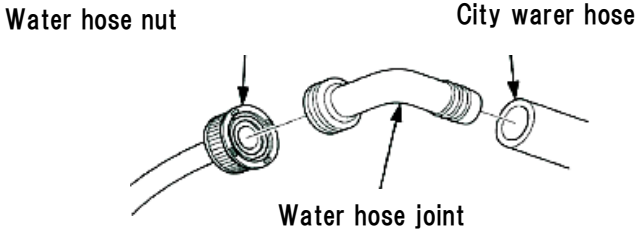
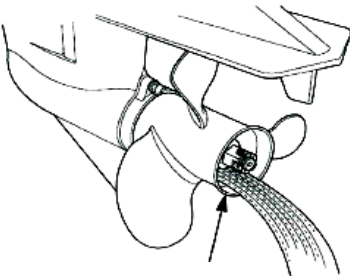
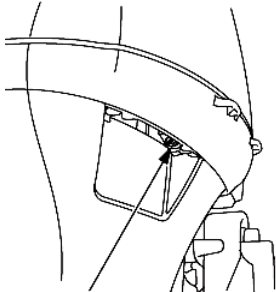
6) 新機構とサービス留意点 / New mechanism and precautions for servicing

No.	項目(機構) Item (mechanism)	構造と特徴 / Structure and features
	Improve anode metal maintainability	Anode cover was newly provided for water jacket covers to improve inspection and exchangeability of anode metal.  Lower part of water jacket Anode metal  Water jacket cover BF6X22mm Anode cover O-ring 33X2.4 ※ Use a new O-ring, apply engine oil, and attach the O-ring to the anode cover.

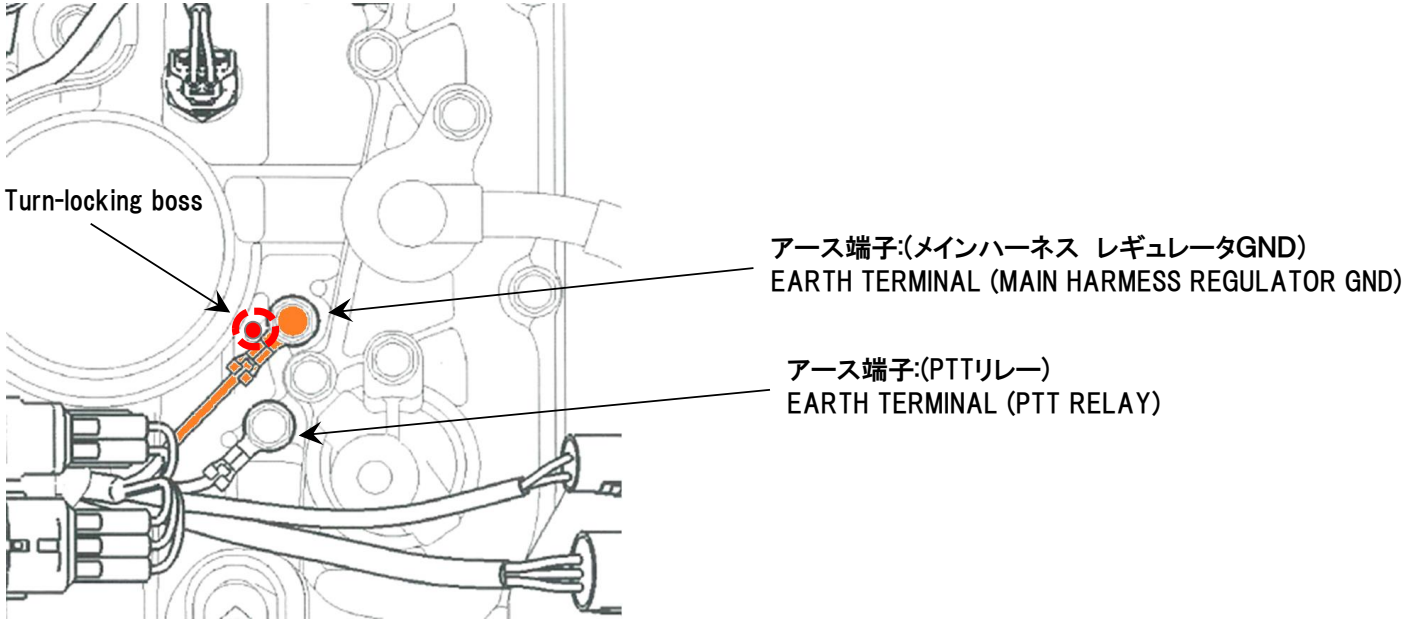
6) 新機構とサービス留意点 / New mechanism and precautions for servicing

No.	項目(機構) Item (mechanism)	構造と特徴 / Structure and features
	External water washing hose	External water washing hose mounting procedure  Apply water resistance molybdenum grease to the contact face between the water hose joint and the water hose seat.

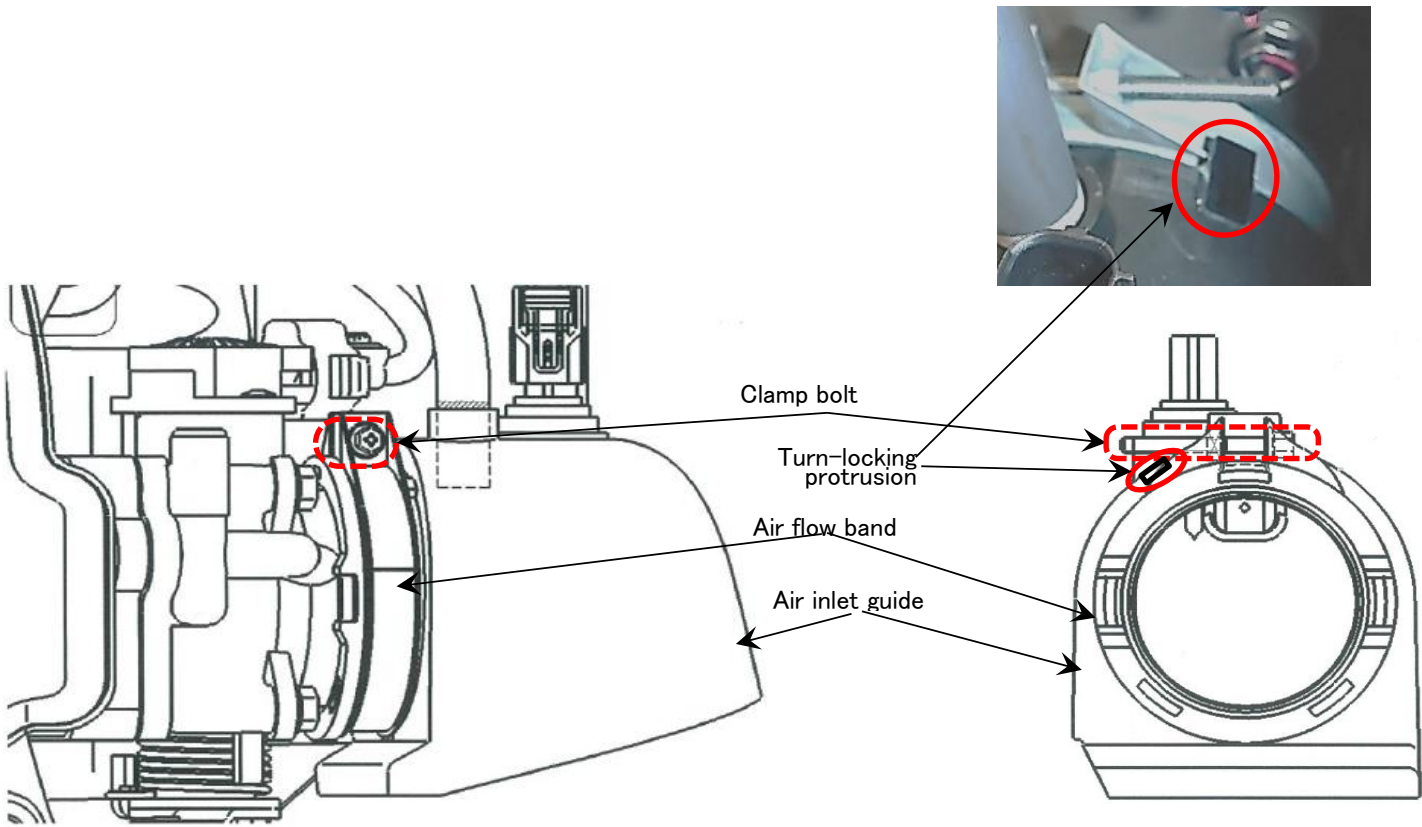
6) 新機構とサービス留意点 / New mechanism and precautions for servicing

No.	項目(機構) Item (mechanism)	構造と特徴 / Structure and features
	Cleaning within engine (Water jacket cover)	Washing with water by the following method was enabled in addition to the existing washing method. 1 Remove the water hose nut. 2 Install the water hose joint. 3 Connect the city water hose, and flow water through the hose. 4 Confirm water comes out from the water testing port and the drain port. 5 Stop water, and remove the city water hose. 6 Remove the water hose joint. 7 Attach the water hose nut.      Water hose nut City warer hose Water hose joint Drain port Water testing port

6) 新機構とサービス留意点 / New mechanism and precautions for servicing

No.	項目(機構) Item (mechanism)	構造と特徴 / Structure and features
	Assembly procedure of regulator grounding part	When tightening the regulator grounding, assemble it as shown below.  Turn-locking boss アース端子:(メインハーネス レギュレータGND) EARTH TERMINAL (MAIN HARNESS REGULATOR GND) アース端子:(PTTリレー) EARTH TERMINAL (PTT RELAY)
	Grade up engine oil recommendation and change its viscosity	オイルグレード SG,SH,SJ Addition of SL grade NEW BF40/50DK4 SG,SH,SJ,<u>SL</u> オイル年度 SAE 5W-30 Change of oil SAE <u>10W</u>-30

6) 新機構とサービス留意点 / New mechanism and precautions for servicing

No.	項目(機構) Item (mechanism)	構造と特徴 / Structure and features
	Change of air guide band mounting angle	When tightening the air guide with a band, assemble as shown below.  Clamp bolt Turn-locking protrusion Air flow band Air inlet guide