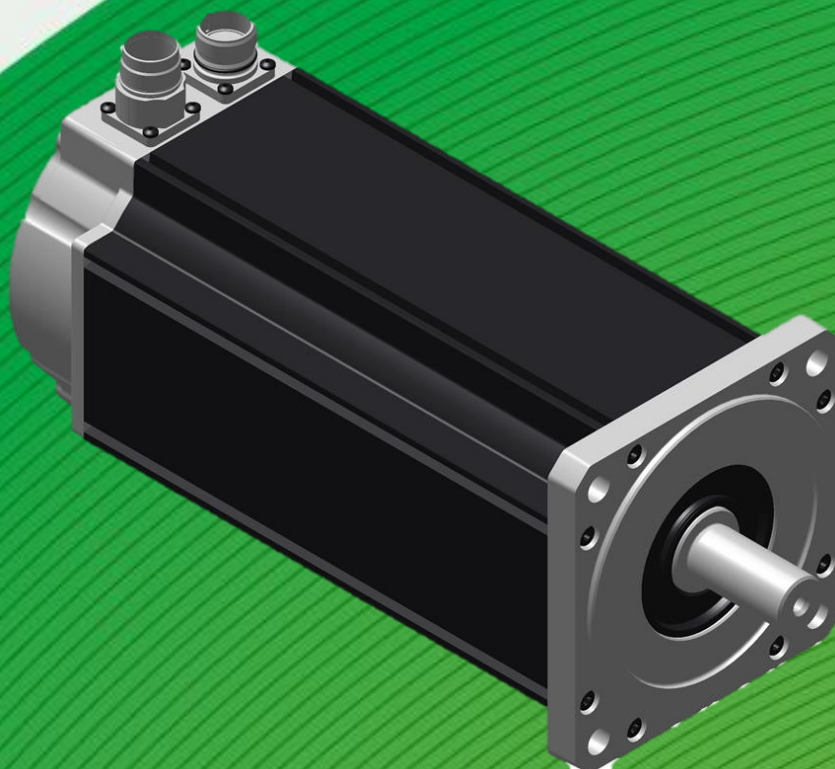


**CONTROL TECHNIQUES  
DYNAMICS**



ARCoE – Aftersales Sheet

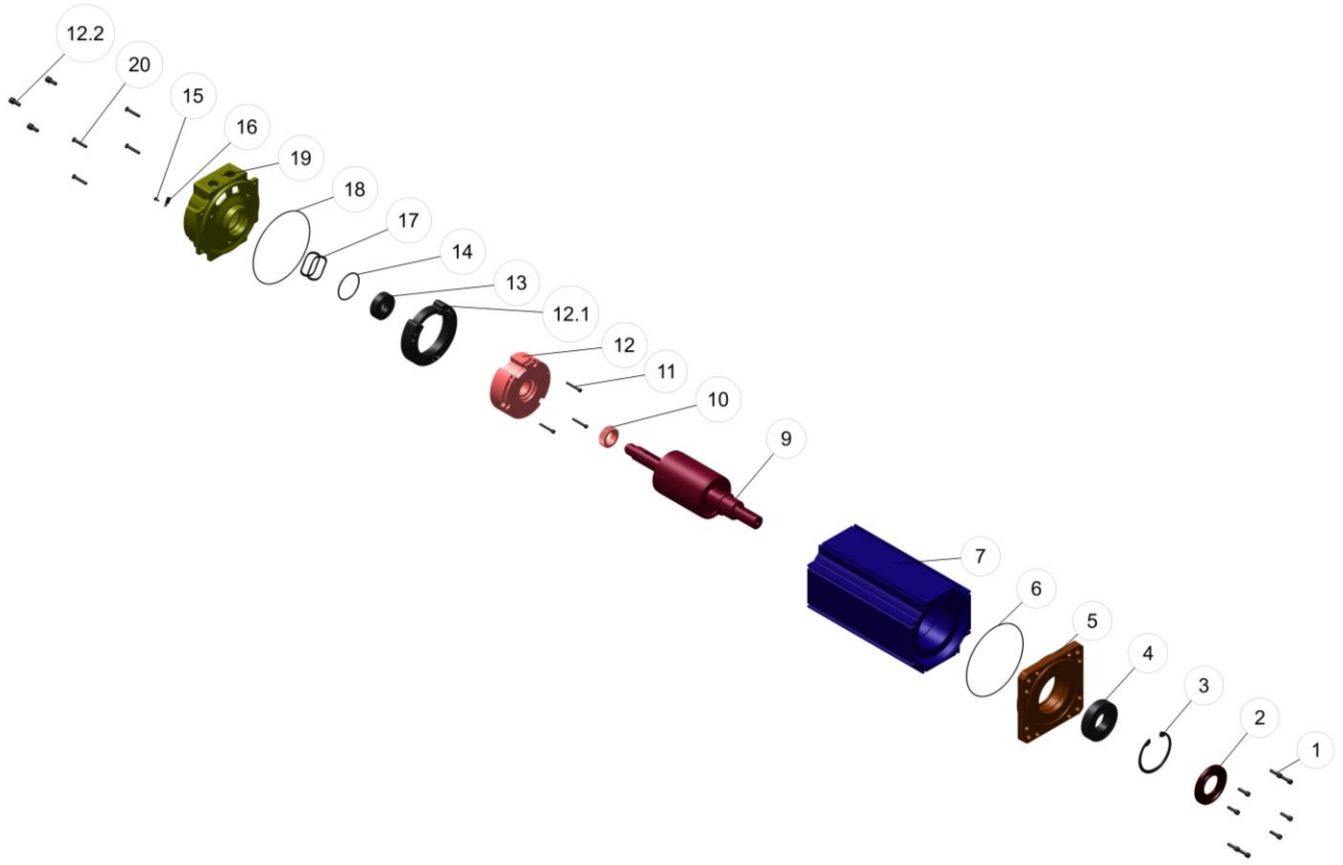
142fm





# SERVO MOTOR - 142fm

# 1

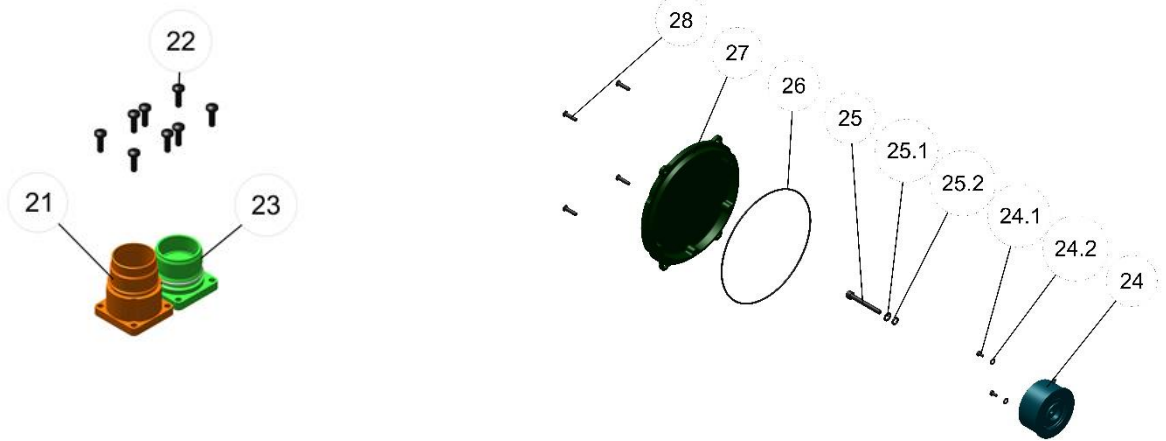


## Components

Tag	Torque	Item	Description	Qty	Tool
1		1000026493	6554164 > WASHER SPR SQ SECT S/COIL M5	8	
	5.7 Nm	1000314194	6169198 > SCREW M5X30 CAP TORX TT	8	TD193
2		1000027132	6620604 > LIPSEAL 35X72X7 VITON+SPRING	1	
3		1000026322	6542506 > CIRCLIP BEVELLED N1302-0281A	1	
4		4211119	SINGLE ROW DEEP GROOVE CAPPED BALL-BEARING 6207ZZ-M.SH-C3-LUG23	1	
5		1000322199	IM/0520/MC/01 > FEF 142-T 165PCD NO BRACKET	1	
6		1000313995	6623808 > O RING 133X2.0 N70 (142U2)	1	
8		1000001874	IM/0045/MC/04 > KEY OUTPUT 8X7X40	1	
10		1000004333	IM/0256/M/13 > BRAKE HUB 115 / 142 HD (24 H7 BORE) - type 6	1	
10		1000001188	IM/0329/M/03 > BRAKE HUB 115 & 142 U3 - type 5	1	
11	2.5 Nm	1000308522	6110029 > SCREW M4X30 PAN TORX TT	3	TD181
12		1000004323	6461581 > BRAKE 16 Nm 24V 96 PCD - type 6	1	
12		1000001187	6461921 > BRAKE 20.0 Nm - type 5	1	
12.1		1000004518	IM/0644/MC > BRAKE PLATE SPACER REF 142 - SLMK - type 6	1	
12.1		1000321442	IM/0523/MC > BRAKE PLATE SPACER REF 142 HD - type 5	1	
12.2	8.9 Nm	1000004536	6172687 > SCREW M6 x 16 PAN TORX TT BZP	3	TD157
13		40009914	BEARING 47X20X14 SINGLE ROW DEEP GROOVE CAPPED BALL-BEARING 6204ZZ-M.SH-C3-LUG23	1	T731-3
14		1000311500	6623859 > O RING 46.5X2.5	1	
15	1 Nm	1000024035	6161529 > SCREW M3X8 PAN TORX TT	1	T10
		1000026472	6553567 > WASHER M3 HELICAL SPRING LOCK	1	
16		1000001405	IM/0004/EL/01 > LEAD EARTH TAG ASSY COMPLETE 150mm 16 AWG	1	
17		1000026541	6555357 > WASHER PRELOAD 46.5X38.5X5.0	2	
18		1000313995	6623808 > O RING 133X2.0 N70 (142U2)	1	
19		1000322197	IM/0521/MC/01 > REF 142-T RES-ENC NO BRACKET	1	
20	5.7 Nm	1000000340	6167608 > SCREW M5X30 CSK TORX TT BZP	4	TD193

## SERVO MOTOR - 142fm

2

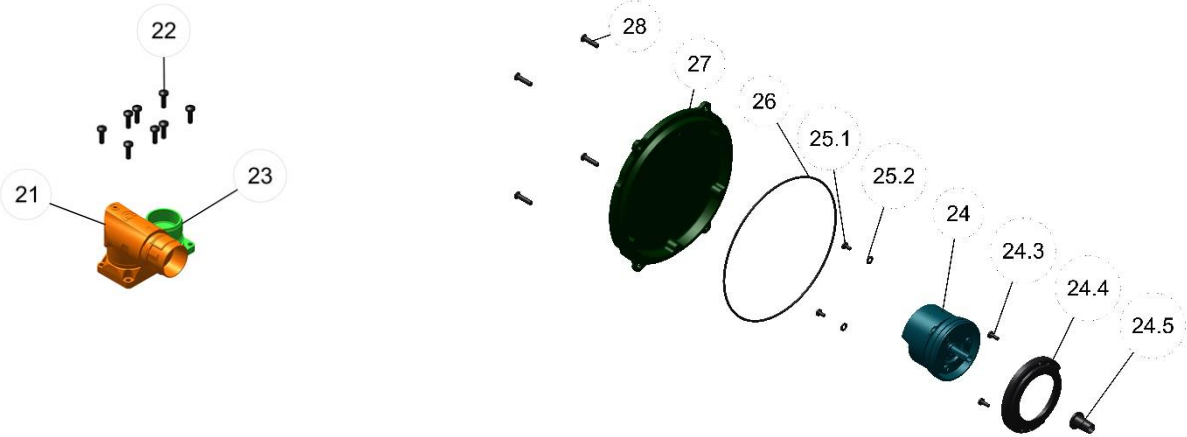


### Components - Resolver Feedback AE

Tag	Torque	Item	Description	Qty	Tool
21		1000318063	7584040 > CONNECTOR HOUSING PWR STRAIGHT	1	
22	1.2 Nm	1000024035	6161529 > SCREW M3X8 PAN TORX TT	8	T10
23		1000318067	7584067 > CONNECTOR HOUSING SIG VERT	1	
24		1000317451	IM/0083/EL > RESOLVER HD & U3 CBORE + RECESS	1	
24.1	1.2 Nm	1000024036	6161537 > SCREW M3X6 PAN TORX TT	2	T10
24.2		1000005230	6162924 > WASHER FLAT M3 TYPE M BZP	2	
25	5 Nm	1000318868	6167500 > SCREW M5X40 SOCKET CAP CARBON STEEL GRADE 12.9 BZP	1	TD183
25.1		1000026491	6554148 > WASHER PLAIN M5 FORM C 12.5x5.3x1.0 BZP	1	
25.2		1000026493	6554164 > WASHER SPR SQ SECT S/COIL M5	1	
26		1000315430	6623743 > O RING 110X2.0 N70	1	
27		1000005350	IM/0116/CA > REAR COVER CAST 142 HD/U3 NO LOGO	1	
28	2.7 Nm	1000310664	6110118 > SCREW M4X16 CSK TORX TT	4	T20

## SERVO MOTOR - 142fm

3

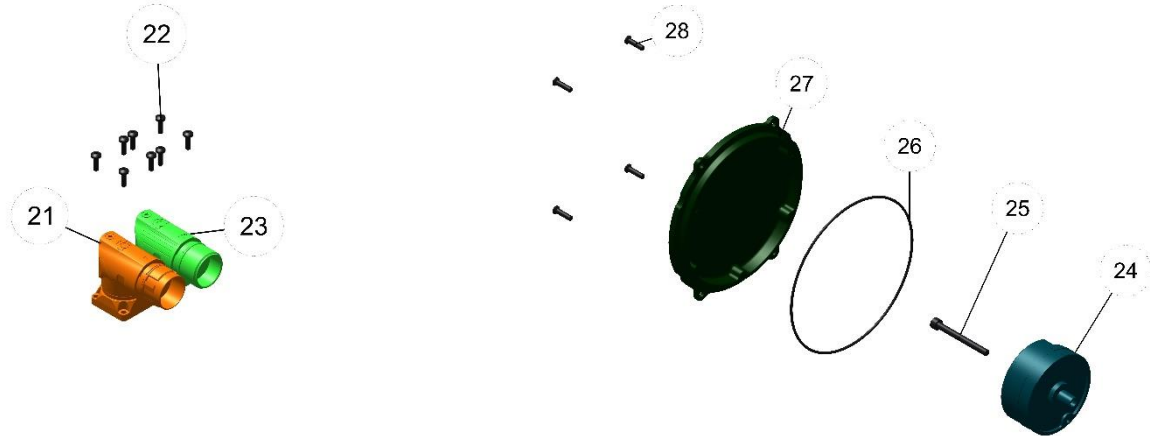


### Components - Incremental Encoder Feedback CA - resolver mount

Tag	Torque	Item	Description	Qty	Tool
21		1000318062	7584032 > CONNECTOR HOUSING PWR RA ROT	1	
22	1.2 Nm	1000024035	6161529 > SCREW M3X8 PAN TORX TT	4	T10
22	1.2 Nm	1000307714	6161677 > SCREW M3X10 PAN TORX TT	4	T10
23		1000318067	7584067 > CONNECTOR HOUSING SIG VERT	1	
24		1000004349	8901694 > ENCODER SICK CFS50 4096 3PP RESOLVER MOUNT PLUG IN SHAFT	1	
24.3	1.2 Nm	1000024035	6161529 > SCREW M3X8 PAN TORX TT	2	T10
24.4		1000004337	IM/0640/MC > ADAPTER ENCODER MOUNT RES SICK CFS50 HD/U3	1	
24.5		1000001041	IM/0323/MI > SHAFT INSERT TAPERED PPS RESIN	1	
25.1	0.8 Nm	1000024036	6161537 > SCREW M3X6 PAN TORX TT	2	T10
25.2		1000005230	6162924 > WASHER FLAT M3 TYPE M BZP	2	
26		1000315430	6623743 > O RING 110X2.0 N70	1	
27		1000005350	IM/0116/CA > REAR COVER CAST 142 HD/U3 NO LOGO	1	
28	2.7 Nm	1000310664	6110118 > SCREW M4X16 CSK TORX TT	4	T20

# 4

## SERVO MOTOR - 142fm

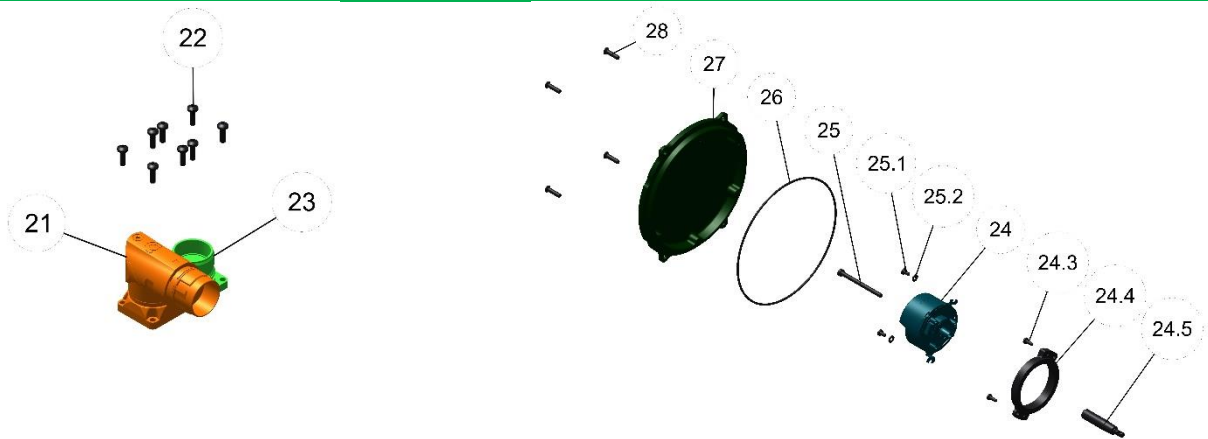


### Components - Inductive EndDat SinCos Multi-turn Feedback EC

Tag	Torque	Item	Description	Qty	Tool
21		1000318062	7584032 > CONNECTOR HOUSING PWR RA ROT	1	
22	1.2 Nm	1000307714	6161677 > SCREW M3X10 PAN TORX TT	8	T10
23		1000318066	7584059 > CONNECTOR HOUSING SIG RA ROT	1	
24		100000835	8901511 > ENCODER EQI 1331 GEN 2.5 MULTI TAPER WITH INCREMENTAL CHANNELS	1	
25	5 Nm 0.3 Nm/2 Nm 0.4 Nm	1000320998	6167489 > SCREW M5x50 CAP HEX HD ExI1300 Cam Cover	1	TD239 TD 146 / TD099 TD 242
26		1000315430	6623743 > O RING 110X2.0 N70	1	
27		1000005350	IM/0116/CA > REAR COVER CAST 142 HD/U3 NO LOGO	1	
28	2.7 Nm	1000310664	6110118 > SCREW M4X16 CSK TORX TT	4	T20

# 5

## SERVO MOTOR - 142fm



### Components - Optical Hiperface SinCos Multi-turn Feedback RA - taper

Tag	Torque	Item	Description	Qty	Tool
21		1000318062	7584032 > CONNECTOR HOUSING PWR RA ROT	1	
22	1.2 Nm	1000024035	6161529 > SCREW M3X8 PAN TORX TT	4	T10
22	1.2 Nm	1000307714	6161677 > SCREW M3X10 PAN TORX TT	4	T10
23		1000318067	7584067 > CONNECTOR HOUSING SIG VERT	1	
24		1000319341	8901309 > ENCODER SRM50 TAPER SPR MOUNT	1	
24.3	1.2 Nm	1000024035	6161529 > SCREW M3X8 PAN TORX TT	2	T10
24.4		1000317936	IM/0229/MI > ADAPTER ENCODER CFS50 MOUNT	1	
24.5	5 Nm	1000317937	IM/0460/MC > STUB SHAFT CFS50 TAPER ADAPTER	1	TD235
25	3.1 Nm		SINCOS screw with encoder	1	TD064
25.1	0.75 Nm	1000317945	6110223 > SCREW M3X6 PAN TORX PLAS-FIX	2	T10 - TD240
25.2		1000005230	6162924 > WASHER FLAT M3 TYPE M BZP	2	
26		1000315430	6623743 > O RING 110X2.0 N70	1	
27		1000005350	IM/0116/CA > REAR COVER CAST 142 HD/U3 NO LOGO	1	
28	2.7 Nm	1000310664	6110118 > SCREW M4X16 CSK TORX TT	4	T20

Parts not on the exploded view

Item	Description	Comment
1000021969	5313031 > BAG POLY' 6" x 3" 500G - 1000021969	BAG POLY' 6" x 3" 500G
1000311800	7582951 > BANDOLIER PINS - 1000311800	BANDOLIER PINS
1000022003	5317142 > BOX CARTON 495L x 195W x 250H 24 KILO 0201 - 1000022003	BOX CARTON 495L x 195W x 250H
1000033282	7585284 > CAP CONNECTOR SIZE 1 BLACK - 1000033282	CAP CONNECTOR SIZE 1 BLACK
1000022037	5320097 > CAP SHAFT 24mm YELLOW - 1000022037	CAP SHAFT 24mm YELLOW
1000311140	IM/0153/MI > CERTIFICATE TEST IND. MOTOR (QUANTITY PER BOX) - 1000311140	CERTIFICATE TEST IND. MOTOR (Q
1000318064	7584148 > CONTACT PIN PWR WRE 0.35-2.0MM - 1000318064	CONTACT PIN PWR WRE 0.35-2.0MM
1000315289	7587392 > CONTACT PIN SIGNAL - 1000315289	CONTACT PIN SIGNAL
1000302179	7571828 > CONTACT SOCKET SIGNAL 1mm - 1000302179	CONTACT SOCKET SIGNAL 1mm
1000321272	5270200 > GREASE (LIPSEAL) ANDEROL 783 - 1000321272	GREASE (LIPSEAL) ANDEROL 783
1000004058	5270219 > GREASE AEROSHELL 22 (3kg) - 1000004058	GREASE AEROSHELL 22 (3kg)
1000311798	7582943 > INSERT CONN 12W POL 20 - 1000311798	INSERT CONN 12W POL 20
1000311799	7582978 > INSERT CONN 17W POL 0 - 1000311799	INSERT CONN 17W POL 0
1000314623	IM/0186/MI > LABEL ADDITIONAL INFO WHITE - 1000314623	LABEL ADDITIONAL INFO WHITE
1000003497	IM/0347/MI > LABEL FM MOTOR AND MULTI-SYMBOL SAFETY (U3) - 1000003497	LABEL FM MOTOR AND MULTI-SYMBO
1000002189	IM/0071/MI > LABEL RATING BLANK U3 & HD - 1000002189	LABEL RATING BLANK U3 & HD
1000305906	7519893 > LABEL READYPRINT YELLOW - 1000305906	LABEL READYPRINT YELLOW
1000306051	5330262 > LABEL SHAFT WARNING MULTILINGUAL - 1000306051	LABEL SHAFT WARNING MULTILINGU
1000309831	5589967 > LEAD ENCODER ECI1317/EQ11329 - 1000309831	LEAD ENCODER ECI1317/EQ11329
1000319348	5589886 > LEAD ENCODER SICK SRS/M50 - 1000319348	LEAD ENCODER SICK SRS/M50
1000317834	5589932 > LEAD FOR SICK CFS50 ENCODER - 1000317834	LEAD FOR SICK CFS50 ENCODER
1000317051	IM/0212/MI > MANUAL INSTALLTN UM/FM/HD/ATEX - 1000317051	MANUAL INSTALLTN UM/FM/HD/ATEX
1000032820	7517866 > SLEEVE INS' H/S KYNAR 1.6MM - 1000032820	SLEEVE INS' H/S KYNAR 1.6MM
1000032856	7519869 > SLEEVE INS. H/S VIDAFLEX 7MM - 1000032856	SLEEVE INS. H/S VIDAFLEX 7MM
1000000064	7519850 > SLEEVE INSULATION VIDAFLEX 4MM - 1000000064	SLEEVE INSULATION VIDAFLEX 4MM
1000315683	IM/0021/EL/19 > SLEEVING VIDAFLEX 4x180mm - 1000315683	SLEEVING VIDAFLEX 4x180mm
1000315684	IM/0021/EL/20 > SLEEVING VIDAFLEX 4x70mm - 1000315684	SLEEVING VIDAFLEX 4x70mm
1000322549	IM/0021/EL/25 > SLEEVING VIDAFLEX 7x160mm - 1000322549	SLEEVING VIDAFLEX 7x160mm
1000315018	IM/0021/EL/06 > SLEEVING VIDAFLEX 7x70mm - 1000315018	SLEEVING VIDAFLEX 7x70mm
1000302074	IM/0021/EL/01 > SLEEVING VIDAFLEX 7x90mm - 1000302074	SLEEVING VIDAFLEX 7x90mm
1000317395	5259363 > SOLDER LEAD FREE 0.7MM - 1000317395	SOLDER LEAD FREE 0.7MM

## Repair kits

075-142U35B/PCON, 075-142U3V/PCON, 075-190U3D/SCON, 075-190U3V/SCON  
142U3/GA, 142U3165/FEF, 142U3/REF, 142U35/BK, 142U36/BK

142U3C300K/HSA, 142U3C300P/HSA, 142U3C306K/HSA, 142U3C306P/HSA  
142U3D300K/HSA, 142U3D300P/HSA, 142U3D306K/HSA, 142U3D306P/HSA  
142U3E300K/HSA, 142U3E300P/HSA, 142U3E306K/HSA, 142U3E306P/HSA

075-190U3AE/FB, 075-190U3EC/FB, 075-190U3FC/FB, 115-142U3CA/FB, 115-190U3RA/FB  
142-190U3JEC/SCON, 142-190U3JCA/SCON, 142-190U3JRA/SCON

## Connectors components

	Assembly	Shell PN	Screw PN	Black Insert PN	White Insert PN	Brown Insert PN
Power	1000318062	1000000952	1000320816 (1)	1000000939	1000000946	X
	1000318063	1000000953	X	1000000940	1000000947	X
	1000000848	1000000954	1000320816 (1)	1000000939	1000000946	X
	1000000849	1000000955	1000320816 (1)	1000000939	1000000946	X
	1000000850	1000000956	X	1000000940	1000000947	X
	1000320277	1000000957	1000320816 (1)	1000000942	1000000948	X
	1000320182	1000000958	1000320816 (1)	1000000943	1000000949	X
	1000000851	1000000959	1000320816 (1)	1000000942	1000000948	X
	1000000852	1000000960	X	1000000943	1000000949	X
	1000000853	1000000961	1000000398 (X3)	1000000944	1000000950	X
	1000315751	1000000962	X	1000000944	1000000950	X
1000000854	1000000963	X	1000000944	1000000950	X	
Signal	1000318066	1000000964	1000320816 (1)	X	X	1000000945
	1000318067	1000000965	X	X	X	X
	1000000855	1000000966	1000320816 (1)	X	X	1000000945
	1000000856	1000000967	X	X	X	X



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[ctdsales@mail.nidec.com](mailto:ctdsales@mail.nidec.com)

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**CONTROL  
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