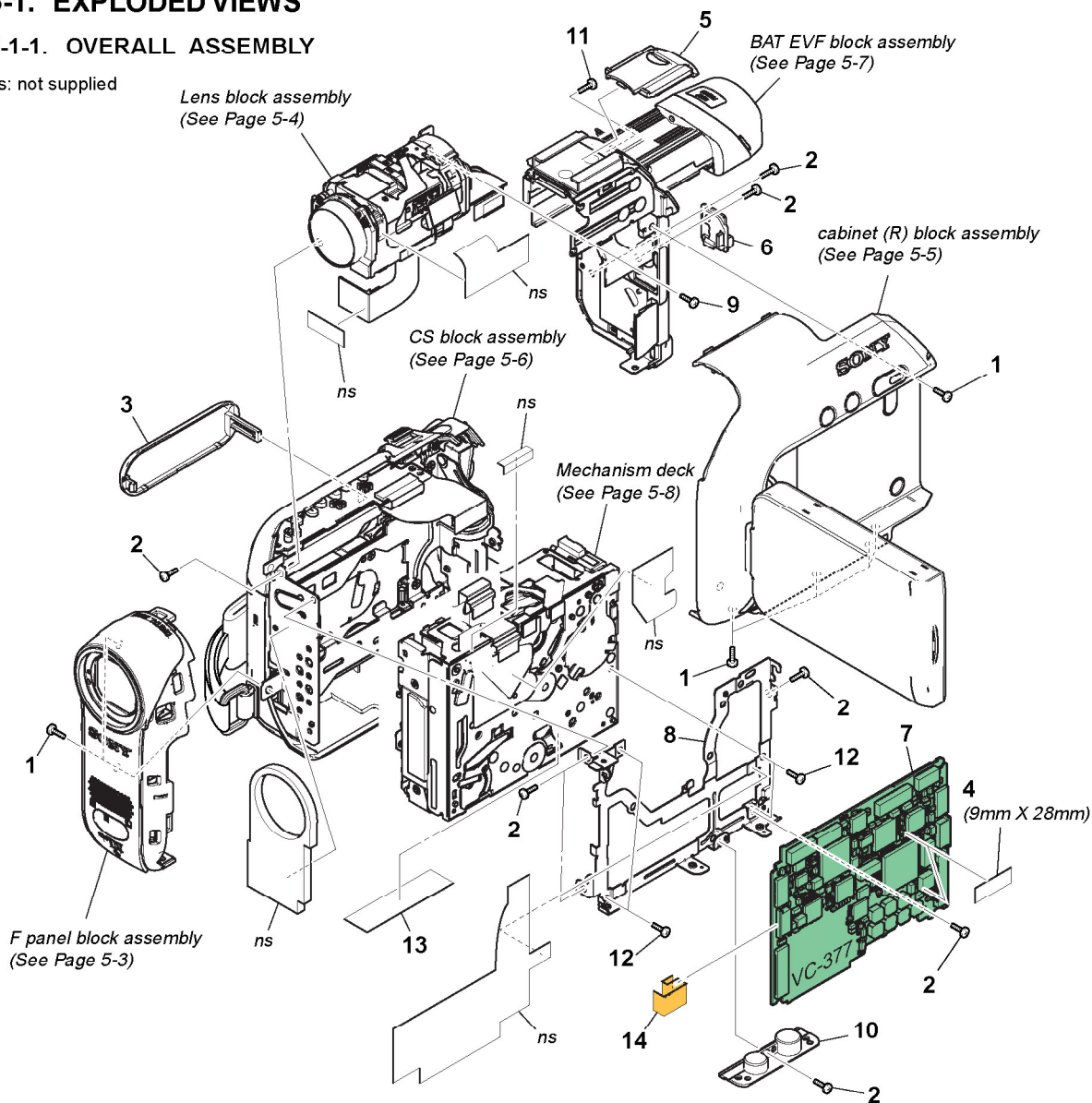


5. REPAIR PARTS LIST

5-1. EXPLODED VIEWS

5-1-1. OVERALL ASSEMBLY

ns: not supplied



CAUTION :

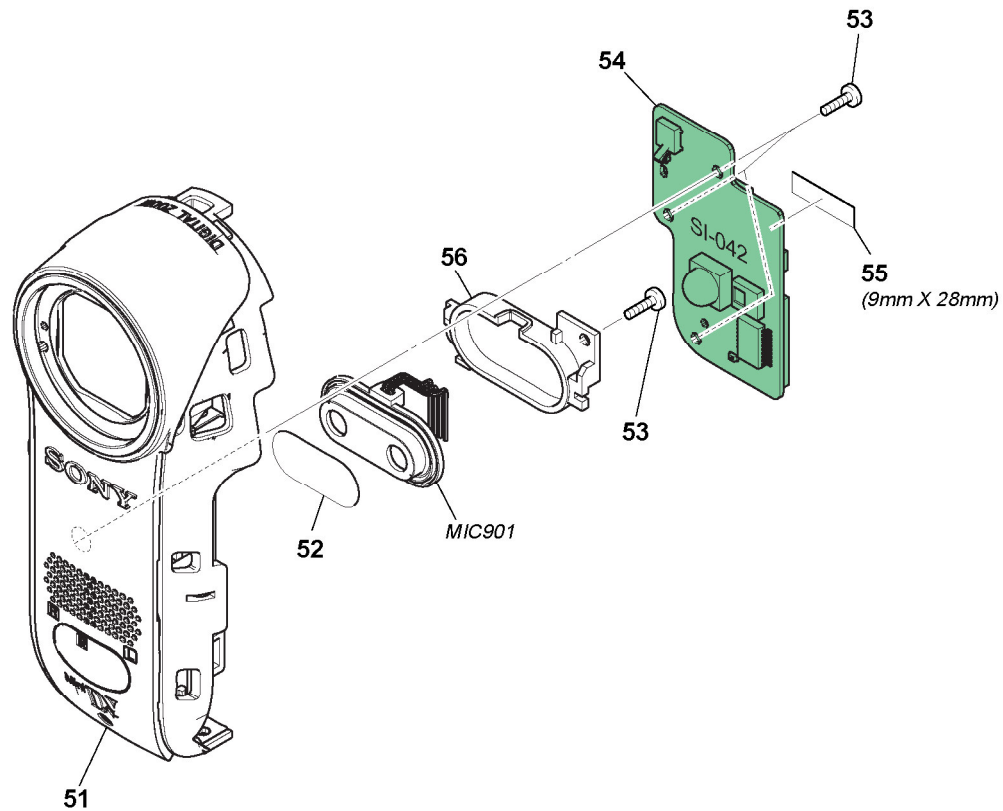
For the part of 4 : TAPE (A) (3-080-272-01), cut WOVEN (T0.25), FABRIC NON (3-941-343-21) into the desired length and use it.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
1	3-078-889-31	SCREW (M1.7)	7	A-1101-185-A	VC-377 BOARD, COMPLETE (SERVICE) (HC32: EXCEPT KR/HC33)
2	3-080-198-11	SCREW (M1.7), LOCK ACE, P2	7	A-1101-190-A	VC-377 BOARD, COMPLETE (SERVICE) (HC32E/HC33E)
3	2-188-477-01	COVER, JACK	7	A-1113-387-A	VC-377 BOARD, COMPLETE (SERVICE) (HC32: KR)
4	CAUTION	TAPE (A)			
5	2-188-481-01	COVER (103), SHOE	8	X-2023-772-1	FRAME ASSY, MD
6	2-188-478-01	LID, CPC	9	3-080-204-21	SCREW, TAPPING, P2
7	A-1101-182-A	VC-376 BOARD, COMPLETE (SERVICE) (HC17E/HC19E)	10	3-089-520-01	SCREW
7	A-1101-183-A	VC-376 BOARD, COMPLETE (SERVICE) (HC21/HC21E)	11	3-080-198-31	SCREW (M1.7), LOCK ACE, P2
7	A-1101-184-A	VC-376 BOARD, COMPLETE (SERVICE) (HC22E)	12	3-062-214-01	SCREW (M1.4X1.5)
			13	3-081-221-01	LABEL (Z), LS
			14	1-829-774-11	CABLE, FLEXIBLE FLAT (FFC-038)

5. REPAIR PARTS LIST

5-1-2. F PANEL BLOCK

ns: not supplied



CAUTION :

For the part of 55 : TAPE (A) (3-080-272-01), cut WOVEN (T0.25), FABRIC NON (3-941-343-21) into the desired length and use it.

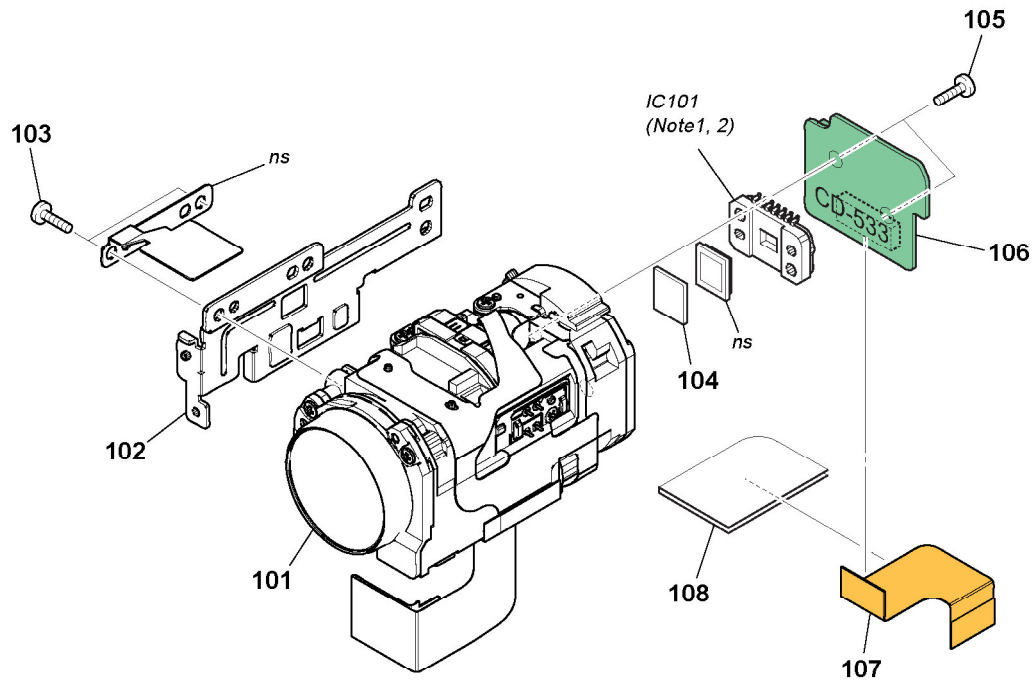
Ref. No.	Part No.	Description
51	X-2023-770-1	PANEL ASSY, FRONT (EXCEPT HC17E)
51	X-2048-777-1	PANEL ASSY, FRONT (HC17E)
52	3-089-771-01	CUSHION, MICROPHONE
53	3-078-890-11	SCREW, TAPPING
54	A-1081-844-A	SI-042 BOARD, COMPLETE (EXCEPT HC17E)

Ref. No.	Part No.	Description
54	A-1084-828-A	SI-042 BOARD, COMPLETEED) (HC17E)
55	CAUTION	TAPE (A)
56	2-188-425-01	RETAINER, IR
MIC901	1-542-513-21	MICROPHONE

5. REPAIR PARTS LIST

5-1-3. LENS BLOCK

ns: not supplied



Note 1: IC101 is not included in CD-533 complete board.

Note 2: Be sure to read "Precautions for Replacement of CCD Imager" on page 4-5 when changing the CCD imager.

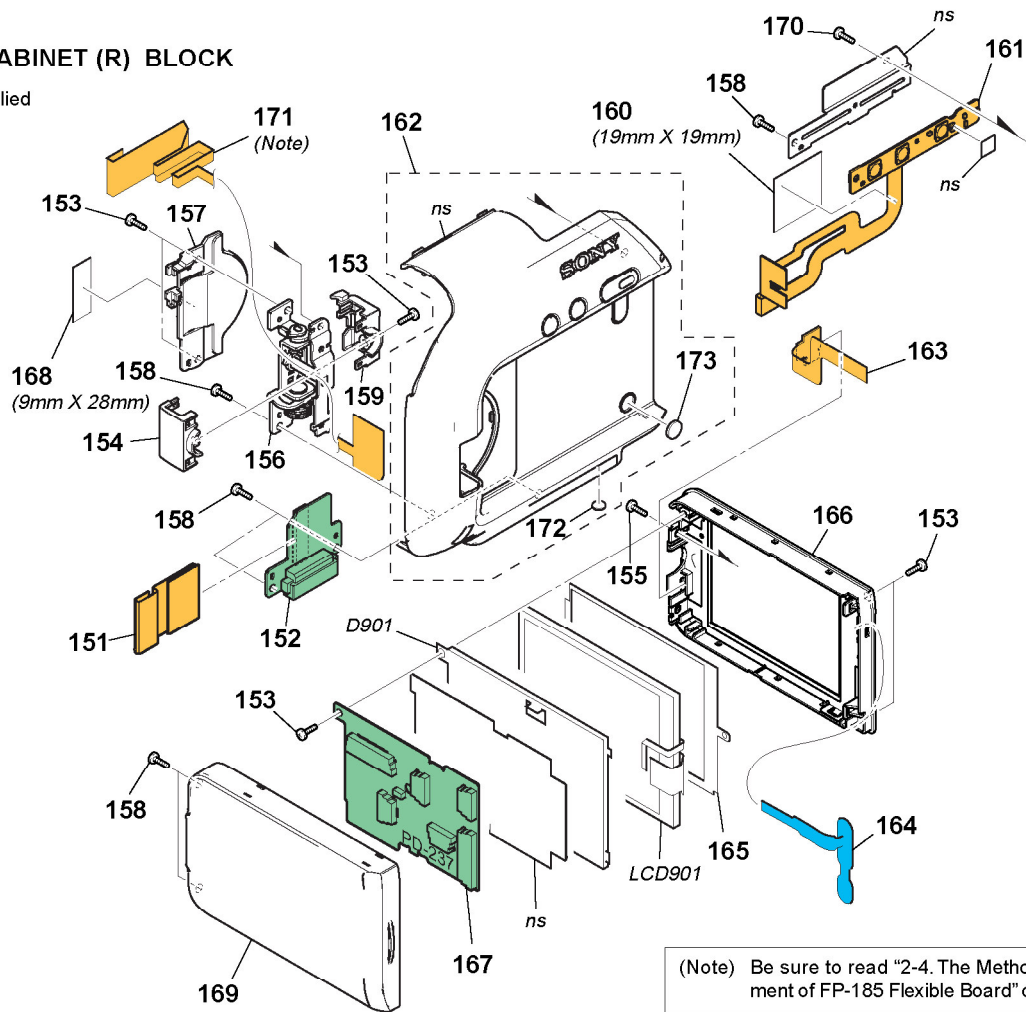
Ref. No.	Part No.	Description
101	1-788-210-11	OPTICAL UNIT (EG03)
102	2-188-472-01	FRAME LENS
103	3-080-204-01	SCREW, TAPPING, P2
104	1-788-242-11	OPTICAL FILTER BLOCK
105	3-080-204-21	SCREW, TAPPING, P2
106	A-1081-698-A	CD-533 BOARD, COMPLETE

Ref. No.	Part No.	Description
107	1-864-754-11	FP-178 FLEXIBLE BOARD
108	2-188-482-01	SHEET, CD SHIELD
IC101	8-753-215-47	ICX440NKF-13 (CCD IMAGER) (HC21/HC32/HC33) (Note1, 2)
IC101	8-753-215-49	ICX441NKF-13 (CCD IMAGER) (EXCEPT HC21/HC32/HC33) (Note1, 2)

5. REPAIR PARTS LIST

5-1-4. CABINET (R) BLOCK

ns: not supplied



(Note) Be sure to read "2-4. The Method of Attachment of FP-185 Flexible Board" on page 2-8.

CAUTION 1 :

For the part of 160 : TAPE (BT) (2-349-851-01), cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

CAUTION 2 :

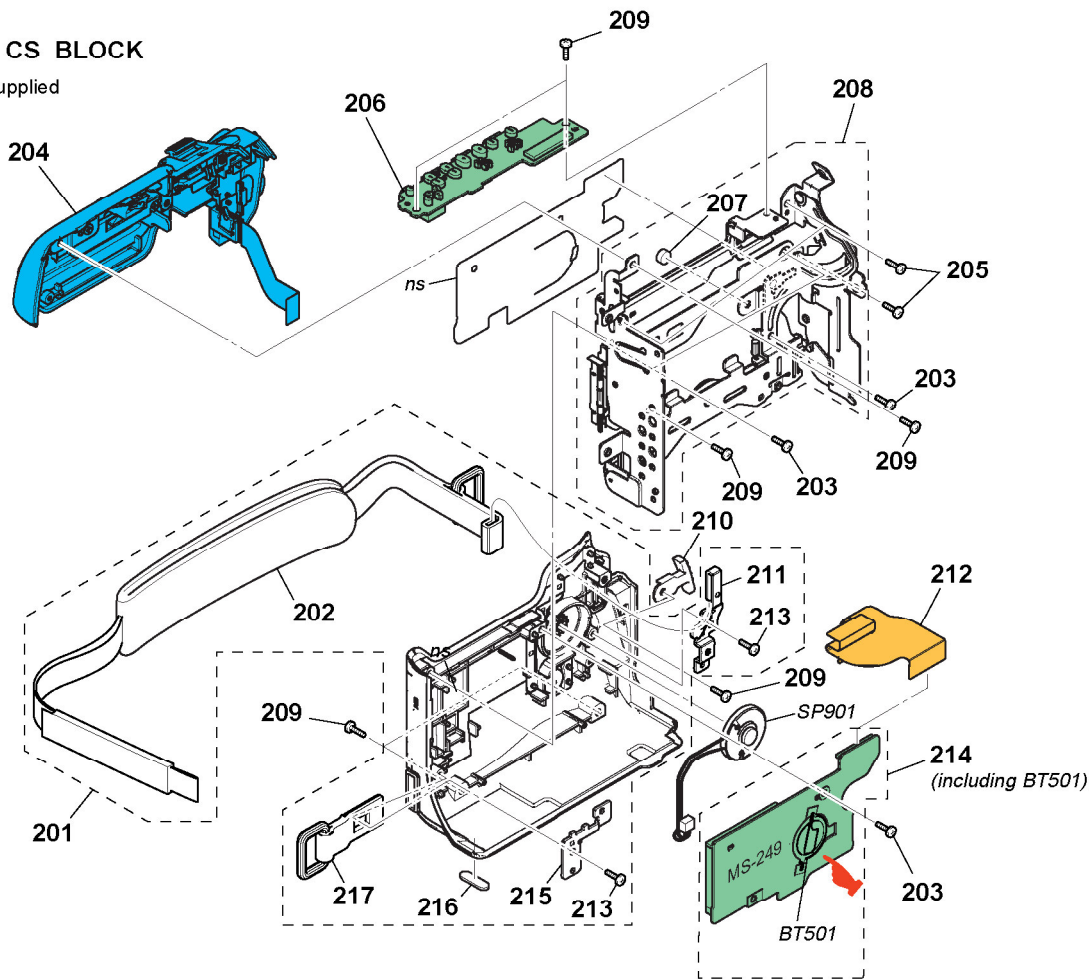
For the part of 168 : TAPE (A) (3-080-272-01), cut WOVEN (T0.25), FABRIC NON (3-941-343-21) into the desired length and use it.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
151	1-864-764-11	FP-190 FLEXIBLE BOARD (HC22E/HC32/HC32E/HC33/HC33E)	167	A-1081-848-A	PD-237 BOARD, COMPLETE
152	A-1081-704-A	CR-050 BOARD, COMPLETE (HC22E/HC32/HC32E/HC33/HC33E)	168	CAUTION 2	TAPE (A)
153	3-080-204-21	SCREW, TAPPING, P2	169	2-188-432-01	CABINET (C)103, P (HC21)
154	2-188-434-01	COVER (C), HINGE	169	2-188-432-11	CABINET (C)103, P (HC17E)
155	3-078-889-21	SCREW (M1.7)	169	2-188-432-21	CABINET (C)103, P (HC19E)
156	X-2023-771-1	HINGE (103) ASSY	169	2-188-432-31	CABINET (C)103, P (HC21E)
157	2-188-476-01	BLIND, HINGE	169	2-188-432-41	CABINET (C)103, P (HC32)
158	3-078-890-11	SCREW, TAPPING	169	2-188-432-51	CABINET (C)103, P (HC32E)
159	2-188-433-01	COVER (M), HINGE	169	2-188-432-61	CABINET (C)103, P (HC33)
160	CAUTION 1	TAPE (BT)	169	2-188-432-71	CABINET (C)103, P (HC33E)
161	A-1082-203-A	FP-187 FLEXIBLE BOARD	169	2-188-432-81	CABINET (C)103, P (HC22E)
162	X-2023-839-1	CABINET R ASSY (HC17E/HC19E/HC21E/HC21E)	170	3-085-397-01	SCREW
162	X-2024-694-1	CABINET R ASSY (HC22E/HC32/HC32E/HC33/HC33E)	171	1-864-761-11	FP-185 FLEXIBLE BOARD
163	A-1082-042-A	FP-186 FLEXIBLE BOARD	172	3-082-519-01	FOOT (R), RUBBER
164	1-479-063-21	KEY BLOCK, CONTROL (SB9000)	173	3-089-565-01	CUSHION (R), PANEL
165	2-188-436-01	CUSHION (103), PANEL	D901	1-479-067-11	BLOCK, LIGHT GUIDE PLATE (2.5)
166	X-2024-273-1	CABINET (M) (103) ASSY, P	LCD901	A-1090-678-A	(TP) BLOCK ASSY (2.5AUMG) (HC32)
			LCD901	A-1090-679-A	(TP) BLOCK ASSY (2.5STFU) (HC17E/HC19E/HC21E/HC22E)
			LCD901	A-1090-680-A	(TP) BLOCK ASSY (2.5STMG) (HC21/HC32/HC32E/HC33/HC33E)

5. REPAIR PARTS LIST

5-1-5. CS BLOCK

ns: not supplied



BT501(BATTERY, LITHIUM SECONDARY)
Board on the mount position (See page 4-96).

CAUTION

Danger of explosion if battery is incorrectly replaced.
Replace only with the same or equivalent type.

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

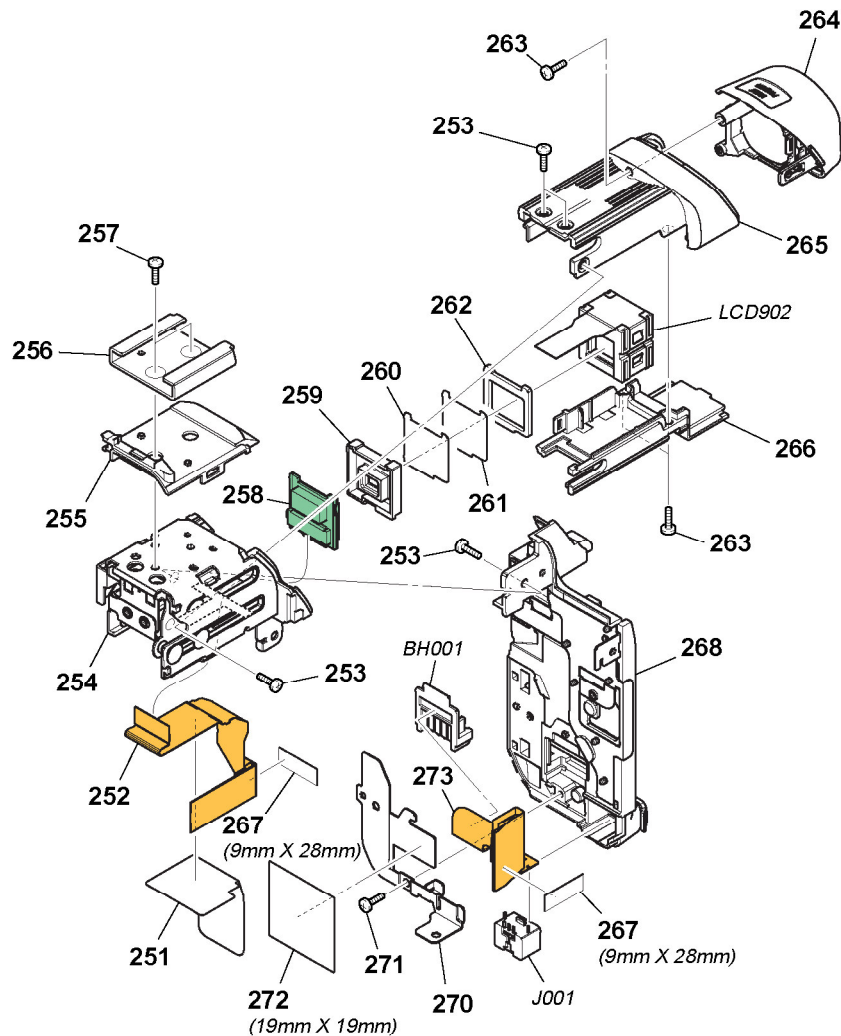
Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
201	X-2023-774-1	CABINET (G) ASSY (HC17E/HC19E/HC21/HC21E/HC22E)	207	3-959-978-02	CUSHION, PANEL
201	X-2024-840-1	CABINET (G) ASSY (HC32/HC32E/HC33/HC33E)	208	X-2023-773-1	FRAME ASSY, CS
202	2-583-631-01	BELT, GRIP	209	3-080-198-11	SCREW (M1.7), LOCK ACE, P2
203	3-078-890-11	SCREW, TAPPING	210	2-188-450-01	KNOB, EJECT
204	1-478-982-11	KEY BLOCK, CONTROL (SS10300) (HC17E/HC19E)	211	2-188-455-01	SHEET METAL (REAR), GRIP BELT
204	1-478-982-21	KEY BLOCK, CONTROL (SS10300) (HC21/HC21E)	212	1-864-758-11	FP-182 FLEXIBLE BOARD
204	1-478-982-31	KEY BLOCK, CONTROL (SS10300) (HC22E)	213	3-080-204-11	SCREW, TAPPING, P2
204	1-478-982-41	KEY BLOCK, CONTROL (SS10300) (HC32/HC32E/HC33/HC33E)	214	A-1081-842-A	MS-249 BOARD, COMPLETE (HC17E/HC19E/HC21/HC21E/HC22E)
205	3-080-204-01	SCREW, TAPPING, P2	214	A-1081-843-A	MS-249 BOARD, COMPLETE (HC32/HC32E/HC33/HC33E)
206	A-1081-840-A	JK-278 BOARD, COMPLETE (HC17E/HC19E/HC21/HC21E)	215	2-188-453-01	SHEET METAL (FRONT), GRIP BELT
206	A-1081-841-A	JK-278 BOARD, COMPLETE (HC22E/HC32/HC32E/HC33/HC33E)	216	2-188-514-01	FOOT (G), RUBBER
			217	2-583-616-01	BELT (FRONT), GRIP
			BT501	1-756-075-21	BATTERY, LITHIUM (SECONDARY)
			SP901	1-825-260-23	LOUD SPEAKER (1.6cm)

5. REPAIR PARTS LIST

5-1-6. BAT EVF BLOCK

ns: not supplied



CAUTION 1 :

For the part of 267 : TAPE (A) (3-080-272-01), cut WOVEN (T0.25), FABRIC NON (3-941-343-21) into the desired length and use it.

CAUTION 2 :

For the part of 272 : TAPE (BT) (2-349-851-01), cut WOVEN (T0.25), FABRIC NON (3-076-631-01) into the desired length and use it.

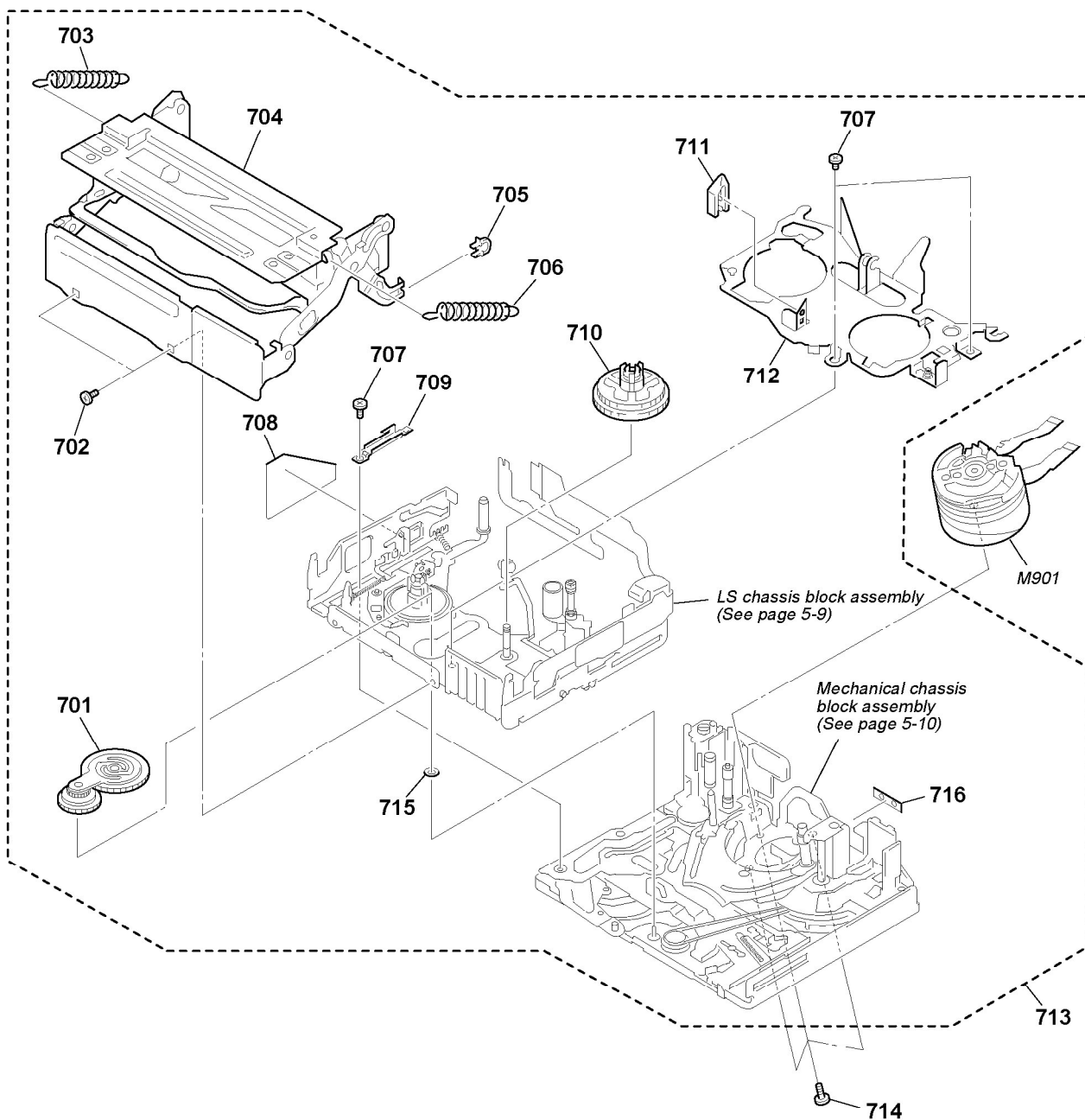
Ref. No.	Part No.	Description
251	2-188-512-01	SHEET, VF FLEXIBLE FIXED
252	1-864-757-11	FP-181 FLEXIBLE BOARD
253	3-078-889-21	SCREW (M1.7)
254	X-2023-650-1	VF SLIDE ASSY
255	3-067-469-11	SHOE, ACCESSORY
256	2-188-479-01	BASE (103), SHOE
257	2-188-485-01	O PLATE BIS M1.7
258	A-1081-845-A	LB-109 BOARD, COMPLETE
259	3-089-415-01	GUIDE, LAMP
260	3-089-417-01	ILLUMINATOR
261	3-089-416-01	SHEET, PRISM
262	3-089-419-01	CUSHION, LCD
263	3-080-204-21	SCREW, TAPPING, P2

Ref. No.	Part No.	Description
264	X-2023-648-1	EYE CUP ASSY
265	X-2023-647-1	CABINET UPPER ASSY VF
266	2-188-511-01	CABINET LOWER, VF
267	CAUTION 1	TAPE (A)
268	X-2048-504-1	BT PANEL ASSY
270	2-188-500-01	PLATE, BT TERMINAL RETAINER
271	3-080-204-01	SCREW, TAPPING, P2
272	CAUTION 2	TAPE (BT)
273	1-864-756-11	FP-180 FLEXIBLE BOARD
BH001	1-780-064-21	BATTERY TERMINAL BOARD
J001	1-815-792-11	CONNECTOR, DC-IN (7.2V)
LCD902	8-753-208-84	LCX059ALA-1 (EXCEPT HC33E)
LCD902	8-753-234-60	LCX059ZLA-1 (HC33E)

5. REPAIR PARTS LIST

5-1-7. MECHANISM DECK

ns: not supplied

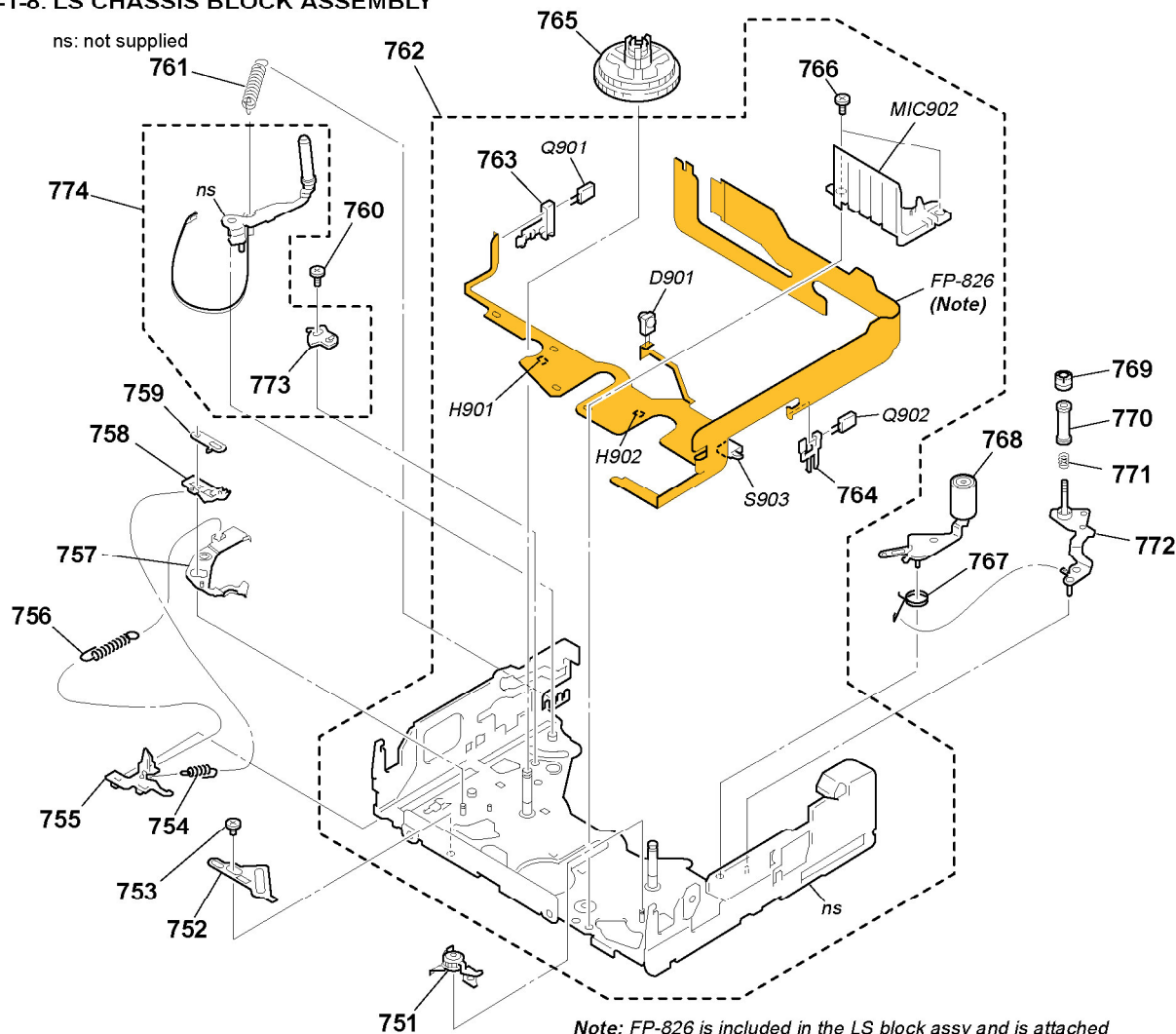


Ref. No.	Part No.	Description
701	X-3952-938-6	GEAR ASSY, GOOSENECK
702	3-075-097-11	SCREW (M1.4X1.4), SPECIAL HEAD
703	3-079-206-02	SPRING (POP UP S), TXTENSION
704	X-2024-802-1	COMPARTMENT ASSY, CASSETTE
705	3-079-367-01	DAMPER, CASSETTE COMPARTMENT
706	3-079-215-02	SPRING (POP UP T), EXTENSION
707	3-085-330-01	SCREW, SPECIAL
708	3-080-545-01	COVER, SENSOR S
709	3-079-364-01	RETAINER, LS GUIDE

Ref. No.	Part No.	Description
710	X-3952-937-1	TABLE ASSY, T REEL
711	3-079-366-01	RELEASE, REEL LOCK
712	X-3953-257-1	PLATE ASSY, RETAINER
713	A-1082-424-A	MD (Z210) SUB ASSY
714	3-079-741-02	SCREW, DRUM FIXING
715	3-748-682-01	WASHER, T
716	3-087-881-01	SHEET, ADHESIVE, FLEXIBLE
M901	A-7048-994-A	DRUM (DEH-30B-R) (SERVICE)

5. REPAIR PARTS LIST

5-1-8. LS CHASSIS BLOCK ASSEMBLY



Note: FP-826 is included in the LS block assy and is attached to chassis by hot-press.

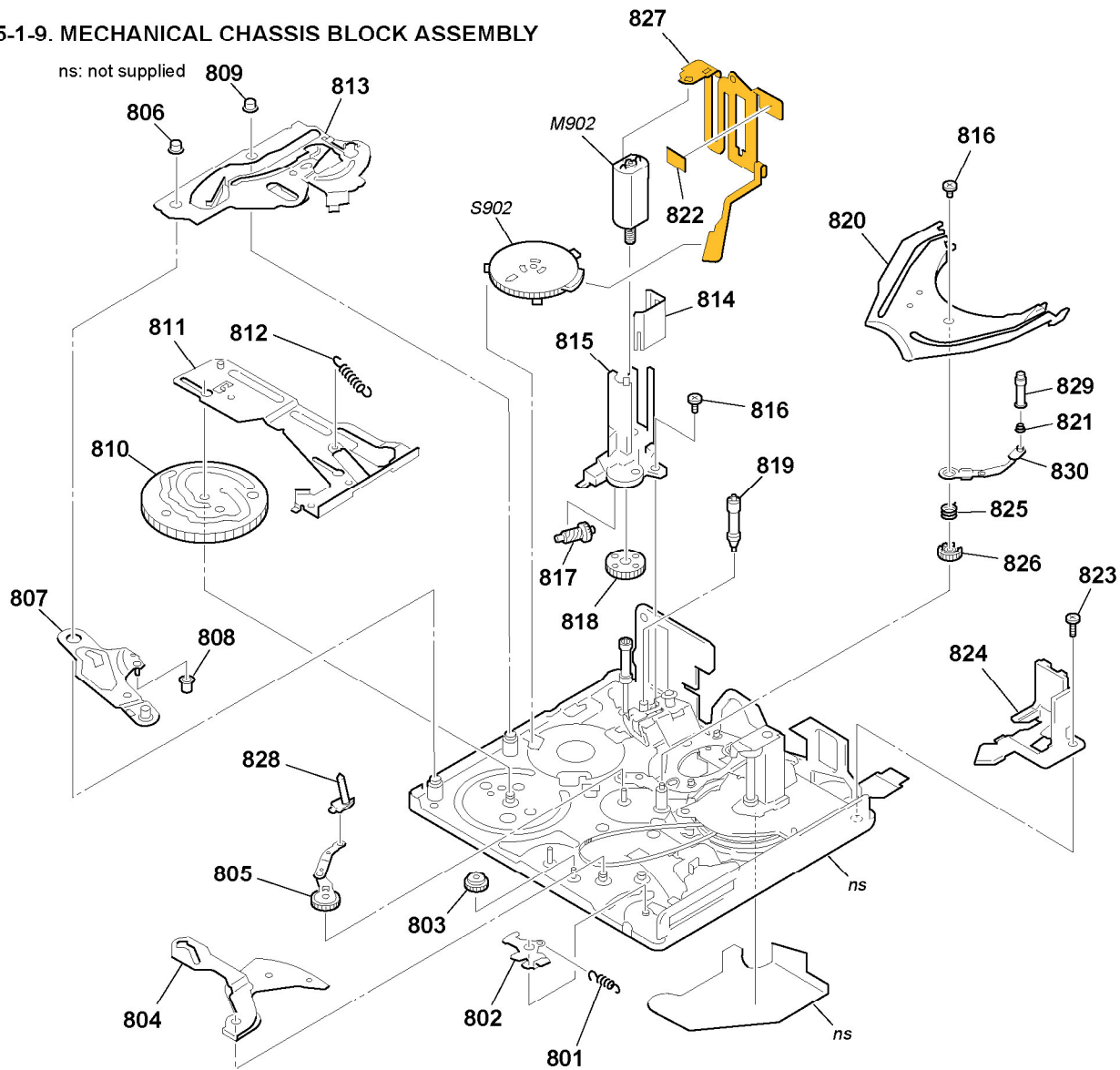
Because installation of FP-826 requires a very high accuracy, FP-826 is not supplied as an independent service parts.

Ref. No.	Part No.	Description
751	A-7095-402-B	BRAKE (T) BLOCK ASSY (S)
752	3-079-241-01	PLATE, LS CAM
753	3-075-097-11	SCREW (M1.4X1.4), SPECIAL HEAD
754	3-079-246-01	SPRING (RELEASE RACK), EXTENSION
755	3-079-248-01	POSITIONING (S), CASSETTE
756	3-079-244-01	SPRING (ULE), EXTENSION
757	X-3952-932-1	BRAKE ASSY, ULE
758	3-079-245-01	RACK (S), RELEASE
759	3-079-247-01	BRAKE (S)
760	3-059-090-11	SCREW (M1.4X2.5), SPECIAL HEAD
761	3-079-242-01	SPRING, TENSION
762	A-7095-951-A	LS BLOCK ASSY
763	3-079-267-01	HOLDER (S), SENSOR
764	3-079-268-01	HOLDER (T), SENSOR
765	X-3952-936-2	TABLE ASSY, S REEL
766	3-085-330-01	SCREW, SPECIAL

Ref. No.	Part No.	Description
767	3-079-243-02	SPRING (PINCH RETURN), TORSION
768	X-3952-934-1	ARM ASSY, PINCH
769	3-052-062-02	NUT, TG7
770	3-079-219-02	TG7
771	3-081-591-01	SPRING, COMPRESSION (TG7)
772	X-3952-935-3	ARM ASSY, TG7
773	3-079-237-01	ADJUSTOR, BAND
774	A-7095-403-B	TG2 ARM BLOCK ASSY
D901	6-500-652-01	DIODE GL453SE0000F (TAPE LED)
H901	8-719-067-74	ELEMENT, HOLE HW-105A-CDE-T (S REEL)
H902	8-719-067-74	ELEMENT, HOLE HW-105A-CDE-T (T REEL)
MIC902	1-817-175-12	PIN, CONNECTOR (WITH DETECTION SWITCH)
Q901	6-550-672-01	TRANSISTOR PT4850FJE00F (TAPE END)
Q902	6-550-672-01	TRANSISTOR PT4850FJE00F (TAPE TOP)
S903	1-529-566-51	SWITCH, PUSH (1 KEY) (C.C. DOWN)

5. REPAIR PARTS LIST

5-1-9. MECHANICAL CHASSIS BLOCK ASSEMBLY



Ref. No.	Part No.	Description
801	3-079-314-01	SPRING (EJ), EXTENSION
802	3-079-327-01	ARM, EJ
803	3-079-323-01	GEAR, CONVERSION
804	3-079-324-01	ARM, GL DRIVING
805	X-3952-928-1	GL (S) ASSY
806	3-079-315-01	ROLLER (S1), LS GUIDE
807	X-3952-925-1	ARM ASSY, LS
808	3-079-320-01	ROLLER, LS
809	3-079-316-01	ROLLER (S2), LS GUIDE
810	3-079-319-01	GEAR, CAM
811	X-3954-274-2	SLIDER ASSY (N), M
812	3-079-321-02	SPRING (PINCH), EXTENSION
813	X-3954-273-2	PLATE ASSY (N), TG2 CAM
814	3-079-312-01	SHIELD, MOTOR
815	3-079-307-02	HOLDER, MOTOR
816	3-085-330-01	SCREW, SPECIAL

Ref. No.	Part No.	Description
817	3-079-308-01	SHAFT, WORM
818	3-079-309-01	GEAR, DECELERATION
819	X-3952-942-2	ROLLER ASSY, TG3
820	3-079-325-01	RAIL, GUIDE
821	3-079-295-02	SPRING, TG5
822	1-677-049-11	FP-228 FLEXIBLE BOARD (DEW SENSOR)
823	3-079-328-01	SCREW (M1.4), SPECIAL HEAD
824	3-079-326-02	SUPPORT, TG7
825	3-079-301-01	SPRING (GLT), TORSION
826	3-079-298-01	GEAR (T), GL
827	1-686-798-11	FP-467 FLEXIBLE BOARD
828	X-3952-927-2	COASTER (S) ASSY
829	X-3952-930-3	ROLLER ASSY, TG5
830	X-3952-929-1	COASTER (T) ASSY
M902	A-7095-396-A	MOTOR BLOCK ASSY, L (LOADING)
S902	1-477-679-11	ROTARY, ENCODER (SWITCH) (MODE SWITCH)