

CCD-TR311/TR311E/TR411E/TR412E/TR511E/TR512E/ TR640E/TR730E/TR840E/TR845E

SECTION 6 REPAIR PARTS LIST

6-1. EXPLODED VIEWS

NOTE:

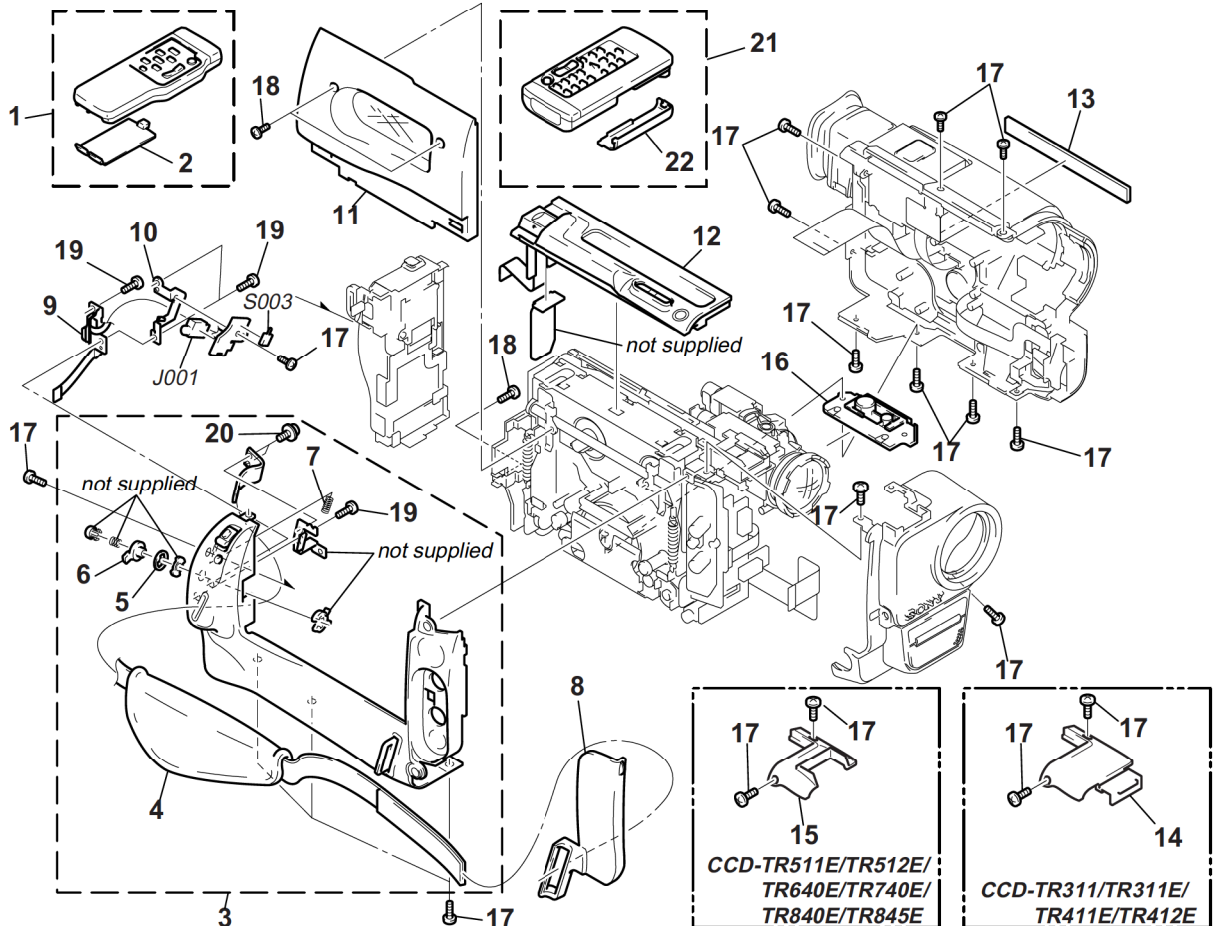
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.

• Abbreviation

EE : East European Model
NE : North European Model
RU : Russian Model
HK : Hong Kong Model
AUS : Australian Model
CN : Chinese Model

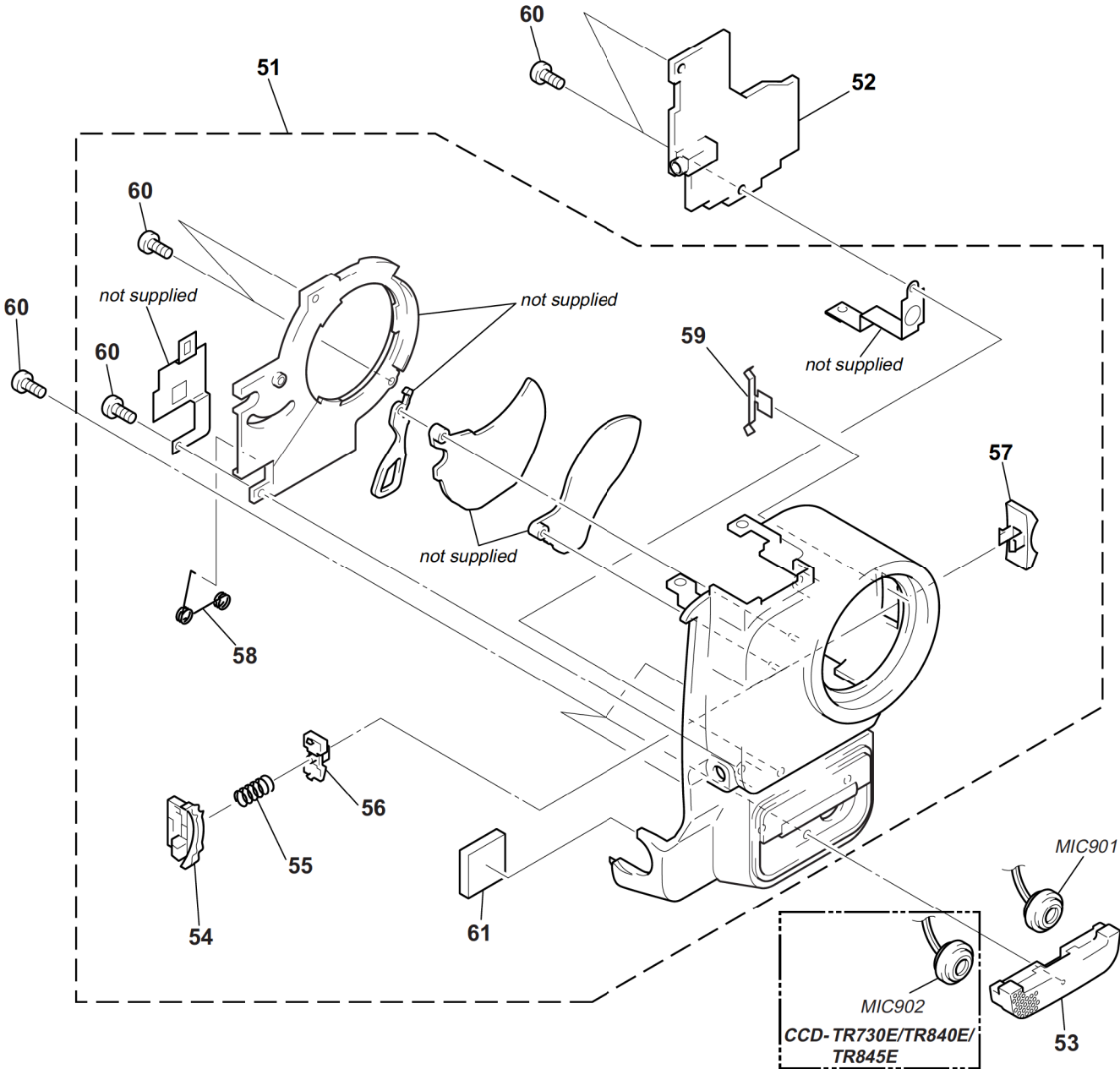
The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

6-1-1. CABINET (L) BLOCK ASSEMBLY



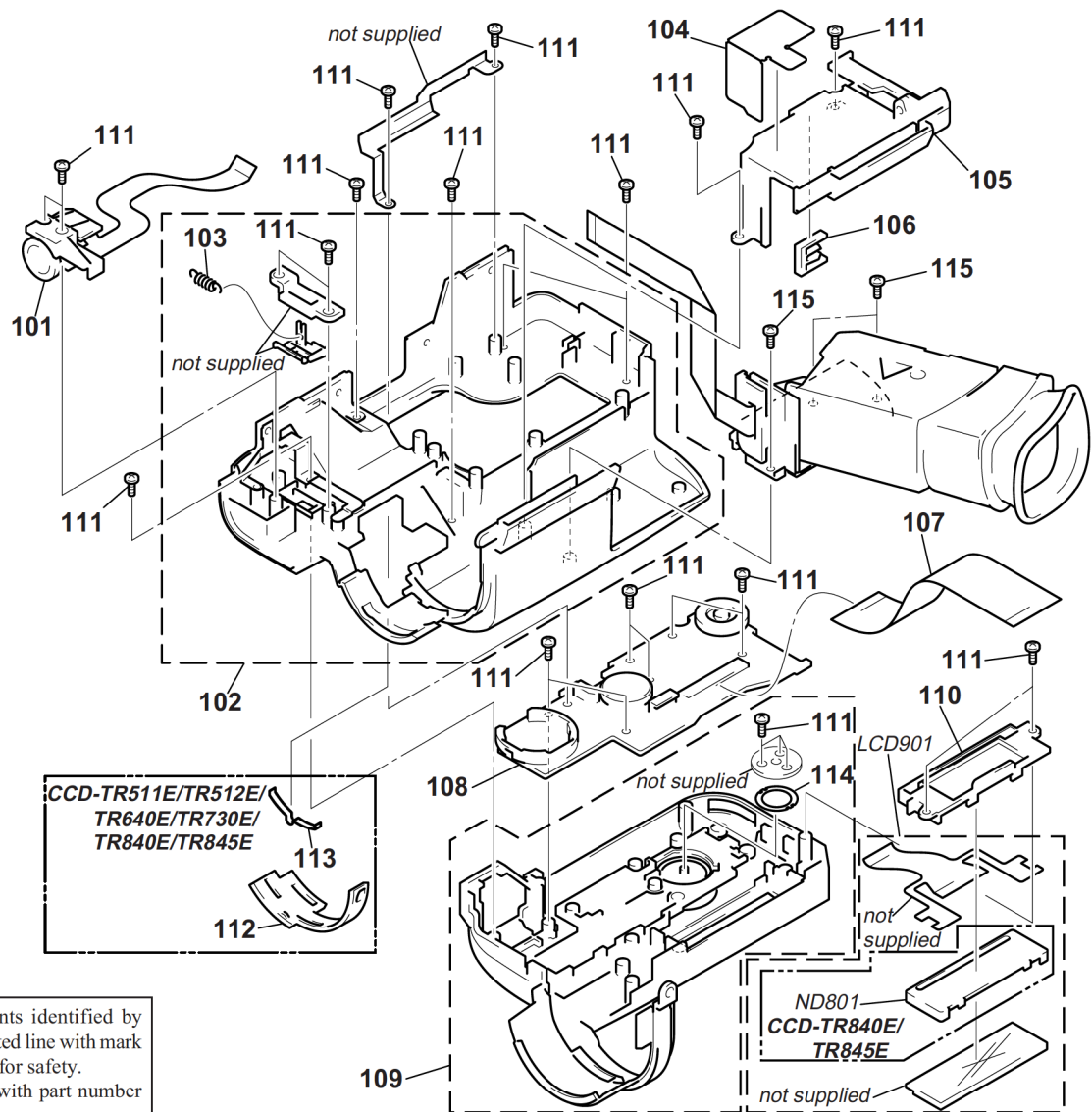
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	1-467-574-21	REMOTE COMMANDER (RMT-708) (EXCEPT TR311/TR311E/TR411E/TR845E)		13	3-987-748-21	PLATE (860), ORNAMENTAL (TR840E)	
2	3-958-131-01	LID-BATTERY CASE (FOR RMT-708) (EXCEPT TR311/TR311E/TR411E/TR845E)		13	3-987-748-51	PLATE (860), ORNAMENTAL (TR640E)	
3	X-3948-205-1	CABINET (L) ASSY (TR840E/TR845E)		13	3-987-748-61	PLATE (860), ORNAMENTAL (TR511E)	
3	X-3948-208-1	CABINET (L) ASSY (EXCEPT TR730E/TR840E/TR845E)		13	3-987-748-71	PLATE (860), ORNAMENTAL (TR845E)	
3	X-3948-213-1	CABINET (L) ASSY (TR730E)		13	3-987-748-81	PLATE (860), ORNAMENTAL (TR411E)	
				13	3-987-749-01	PLATE (860), ORNAMENTAL (TR730E)	
				13	3-987-749-11	PLATE (860), ORNAMENTAL (TR412E)	
4	3-969-339-31	BELT, GRIP		13	3-987-749-31	PLATE (860), ORNAMENTAL (TR311)	
5	3-970-854-01	SPRING, STAND-BY		13	3-987-749-41	PLATE (860), ORNAMENTAL (TR512E)	
6	3-969-081-01	KNOB, STAND-BY		13	3-987-749-91	PLATE (860), ORNAMENTAL (TR311E)	
7	3-302-492-00	SPRING, COMPRESSION		14	3-987-645-01	CABINET (N) (TR311/TR311E/TR411E/TR412E)	
8	3-975-522-01	COVER, JACK		15	3-987-639-01	CABINET (S(870)) (EXCEPT TR311/TR311E/TR411E/TR412E)	
9	1-475-619-11	SWITCH BLOCK, CONTROL (SS-8500) (EXCEPT TR730E)		16	3-987-717-01	SCREW, TRIPOD	
9	1-475-619-21	SWITCH BLOCK, CONTROL (SS-8500) (TR730E)		17	3-962-826-01	SCREW (2X4)	
* 10	3-975-532-01	HOLDER, EL		18	3-713-786-21	SCREW (M2X3)	
11	X-3948-222-1	LID ASSY, CASSETTE (TR840E/TR845E)		19	3-948-339-61	TAPPING	
11	X-3948-223-1	LID ASSY, CASSETTE (EXCEPT TR840E/TR845E)		20	3-679-362-11	SCREW	
12	1-475-617-11	SWITCH BLOCK, CONTROL (FK8500) (TR311/TR311E/TR411E/TR412E)		21	8-917-593-90	COMMANDER, REMOTE (RMT-717) (TR845E)	
12	1-475-617-31	SWITCH BLOCK, CONTROL (FK-8500) (EXCEPT TR311/TR311E/TR411E/TR412E/TR840E:AUS)		22	3-742-854-01	LID-BATTERY CASE (FOR RMT-717) (TR845E)	
12	1-475-617-61	SWITCH BLOCK, CONTROL (FK-8500) (TR840E:AUS)		J001	1-565-276-31	JACK, ULTRA SMALL 1P (LANC)	
				S003	1-572-688-11	SWITCH, PUSH (EJECT)	

6-1-2. FRONT PANEL BLOCK ASSEMBLY



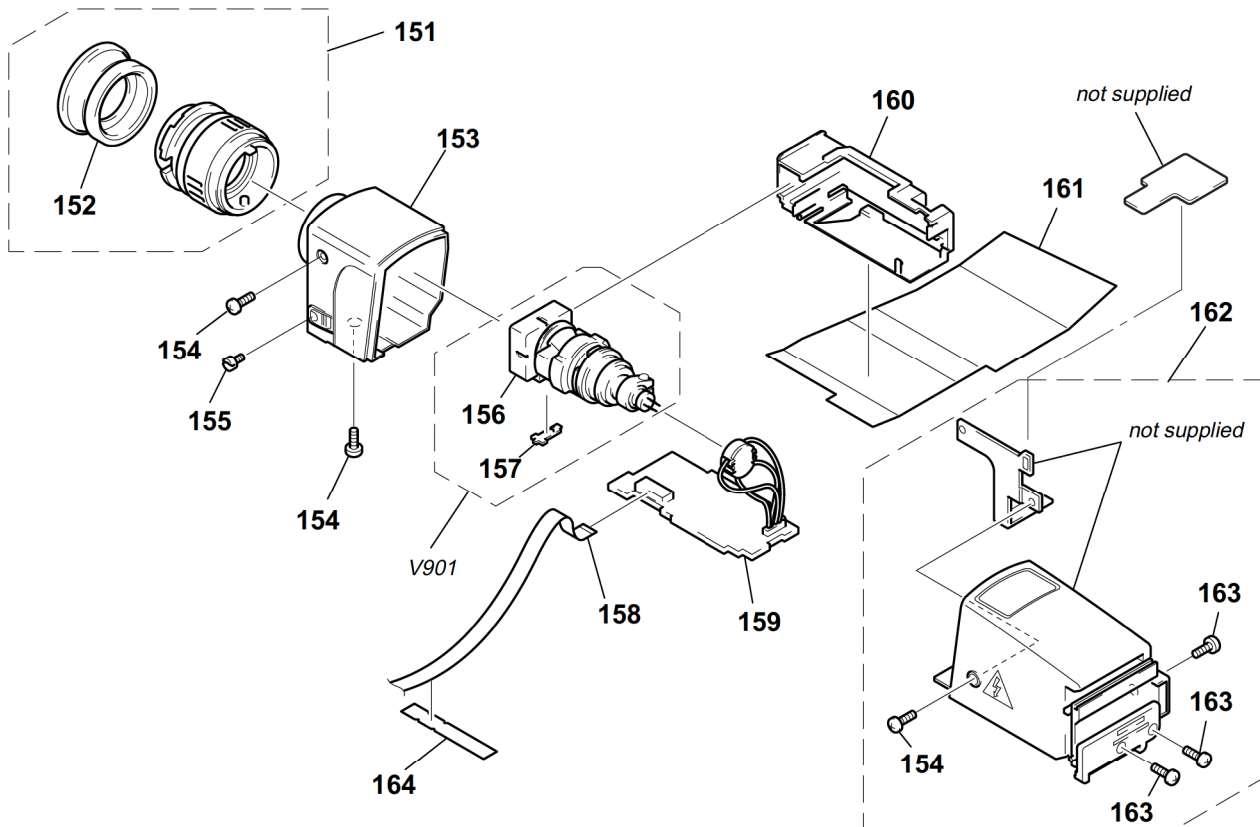
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-3948-184-1	PANEL (870) ASSY, FRONT (TR840E:AEP,EE,NE,RU,UK/TR845E)		52	A-7073-504-A	MA-311(7Z) BOARD, COMPLETE (TR412E)	
51	X-3948-187-1	PANEL (870) ASSY, FRONT (TR640E)		53	X-3948-170-1	GRILLE (870) ASSY, MICROPHONE	
51	X-3948-188-1	PANEL (870) ASSY, FRONT (TR511E/TR512E)		54	3-987-632-01	HOLDER, P KNOB	
51	X-3948-189-1	PANEL (870) ASSY, FRONT (TR311/TR311E/TR411E)		55	3-973-619-01	SPRING, COMPRESSION	
51	X-3948-190-1	PANEL (870) ASSY, FRONT (TR730E)		56	3-987-633-01	BUTTON, LOCK	
51	X-3948-191-1	PANEL (870) ASSY, FRONT (TR840:AUS)		57	3-987-631-01	KNOB, P (TR-511E:AEP,EE,NE,RU,UK/TR640E/TR840E:AEP,EE,NE,RU,UK/TR845E)	
51	X-3948-192-1	PANEL (870) ASSY, FRONT (TR412E)		57	3-987-631-02	KNOB, P (EXCEPT TR-511E:AEP,EE,NE,RU,UK/TR640E/TR840E:AEP,EE,NE,RU,UK/TR845E)	
52	A-7073-449-A	MA-311(H0) BOARD, COMPLETE (TR730E/TR840E/TR845E)		58	3-987-882-01	SPRING, TORSION	
52	A-7073-463-A	MA-311(7ZL) BOARD, COMPLETE (TR311/TR311E/TR411E)		59	3-987-642-01	SPRING, CLICK	
52	A-7073-493-A	MA-311(MM0) BOARD, COMPLETE (TR511E/TR512E/TR640E)		60	3-948-339-61	TAPPING	
				* 61	3-989-247-01	MA CUSHION	
				MIC901	1-542-312-11	MICROPHONE (L-CH)	
				MIC902	1-542-312-11	MOCROPHONE (R-CH)(TR730E/TR840E/TR845E)	

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



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	1-475-620-11	SWITCH BLOCK, CONTROL(MF-8500) (TR511E/TR512E/TR640E/TR730E/TR840E/TR845E)		109	X-3948-248-1	COVER (860) ASSY, TR (TR511E/TR512E/TR640E)	
102	X-3948-254-1	CABINET (R) (860) ASSY (TR511E:AEP,UK/TR640E:AEP,UK)		109	X-3948-249-1	COVER (864C) ASSY, TR (TR840E)	
102	X-3948-255-1	CABINET (R) (864) ASSY (TR840E:AEP/TR845E)		109	X-3948-251-1	COVER (843) ASSY, TR (TR311/TR311E/TR411E/TR412E)	
102	X-3948-256-1	CABINET (R) (843) ASSY (TR412E:AEP)		109	X-3948-265-1	COVER (861) ASSY, TR (TR730E)	
102	X-3948-257-1	CABINET (R) (842) ASSY (TR411E:AEP,UK)		109	X-3948-393-1	COVER (864D) ASSY, TR (TR845E)	
102	X-3948-258-1	CABINET (R) (852) ASSY (TR511E:E,HK,AUS,CN/TR512E/TR730E)		* 110	3-987-755-01	HOLDER (864), LCD (TR730E/TR840E/TR845E)	
102	X-3948-259-1	CABINET (R) (863) ASSY (TR840E:EE,NE,RU,AUS,UK)		* 110	3-987-755-11	HOLDER (864), LCD (EXCEPT TR730E/TR840E/TR845E)	
102	X-3948-261-1	CABINET (R) (840) ASSY (TR311/TR311E)		111	3-948-339-61	TAPPING	
102	X-3948-262-1	CABINET (R) (843-2) ASSY (TR412E:EE,NE,RU)		112	3-987-744-01	KNOB, IR (TR511E/TR512E/TR640E/TR730E/TR840E/TR845E)	
102	X-3948-462-1	CABINET (R) (8401-2) ASSY (TR411E:EE,NE,RU)		113	3-987-739-01	SPRING, LINK PLATE (TR511E/TR512E/TR640E/TR730E/TR840E/TR845E)	
103	3-472-222-99	SPRING, TENSION					
* 104	3-987-842-01	SHEET, VF FLEXIBLE RETAINER (EXCEPT TR730E)		114	3-969-465-01	SPRING, AE	
105	3-987-786-01	BASE (878), VF		115	3-948-339-01	SCREW,TAPPING	
106	3-987-783-01	LOCK, TILT		LCD901	A-7093-473-A	INDICATION LCD BLOCK ASSY (TR311/TR311E/TR411E/TR412E)	
107	1-783-240-11	CABLE, FLEXIBLE FLAT (FFC-236)		LCD901	A-7093-486-A	INDICATION LCD BLOCK ASSY (TR840E/TR845E)	
108	A-7073-425-A	CF-49(C) BOARD, COMPLETE (TR512E)		LCD901	A-7093-509-A	INDICATION LCD BLOCK ASSY (TR511E/TR640E/TR840E/TR845E)	
108	A-7073-450-A	CF-49(MM) BOARD, COMPLETE (TR511E/TR640E/TR840E/TR845E)					
108	A-7073-475-A	CF-49(7L) BOARD, COMPLETE (TR311/TR311E/TR411E/TR412E)		△ ND801	1-517-759-11	LIGHT, BACK (TR840E/TR845E)	
108	A-7073-545-A	CF-49(CR) BOARD, COMPLETE (TR730E)					

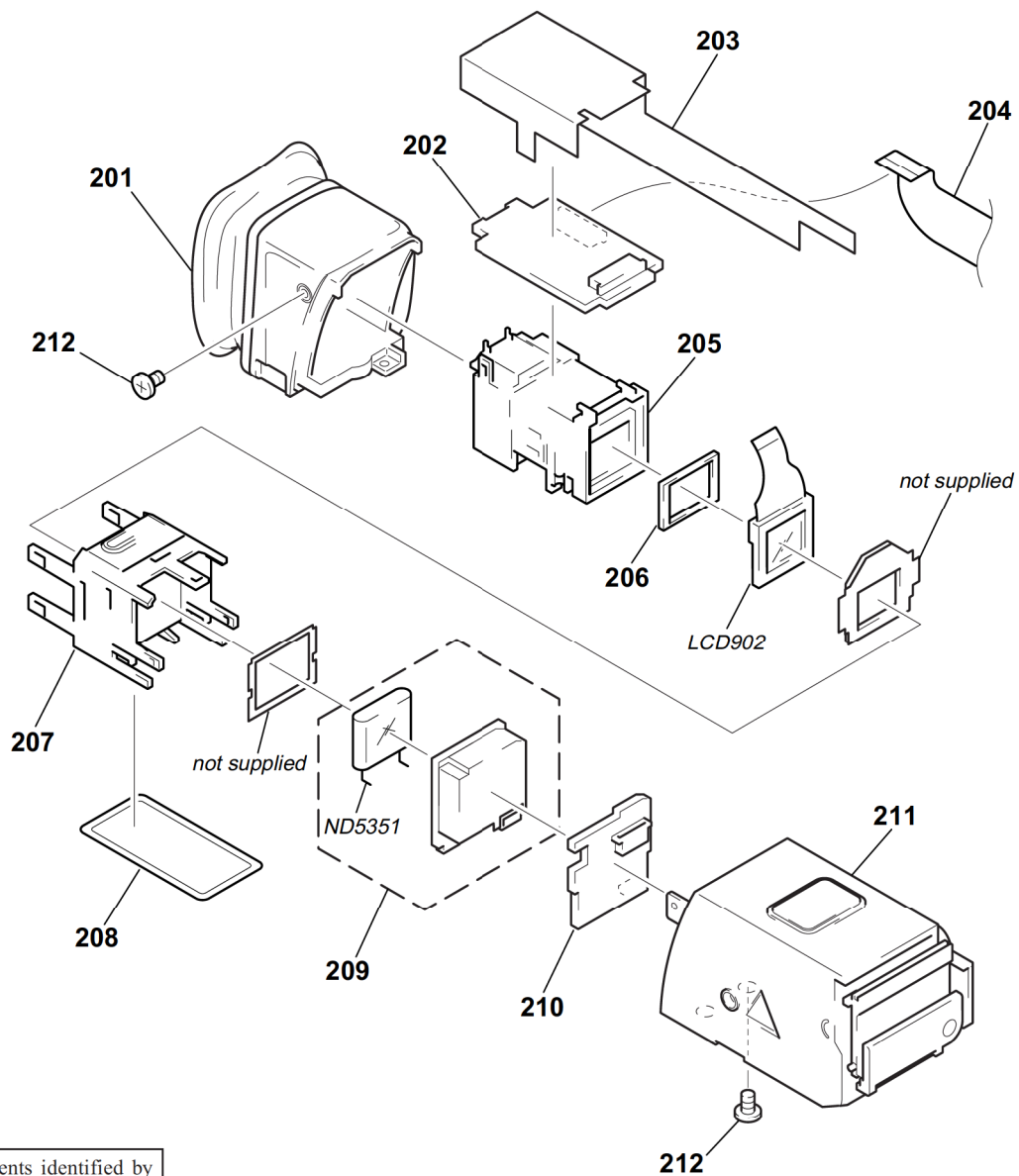
6-1-4. EVF BLOCK ASSEMBLY (B/W EVF) (EXCEPT TR512E/TR730E)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-3944-966-1	FINDER ASSY		160	X-3948-279-1	HOLDER (878) ASSY, CRT	
152	3-963-391-01	EYE CUP		* 161	3-987-844-01	SHEET, VF (B/W) ELECTRSTATIC	
153	X-3948-278-1	CABINET (REAR) (878) B ASSY		162	X-3948-277-1	CABINET (FRONT) (878) B ASSY	
154	3-968-729-61	SCREW (M2X3), LOCK ACE, P2				(TR840E/TR845E)	
155	3-975-898-01	SCREW (T), F LOCK		162	X-3948-363-1	CABINET (FRONT) (872) B ASSY	
						(TR511E/TR640E)	
156	3-977-292-01	MASK, CRT		162	X-3948-364-1	CABINET (FRONT) (887D) B ASSY	
157	3-725-130-01	COVER, HINGE VOLTAGE				(TR311/TR311E/TR411E/TR412E)	
158	1-783-241-11	CABLE, FLEXIBLE FLAT (FFC-235)		163	3-948-339-61	TAPPING	
159	A-7066-774-A	VF-99(HP) BOARD, COMPLETE(EXCEPT TR311)		* 164	3-987-843-01	SHEET, VF FLEXIBLE LOCK	
159	A-7066-792-A	VF-99(VHL4) BOARD, COMPLETE (TR311)		 V901	1-452-673-31	CRT ASSY (M01KXX90WB)	

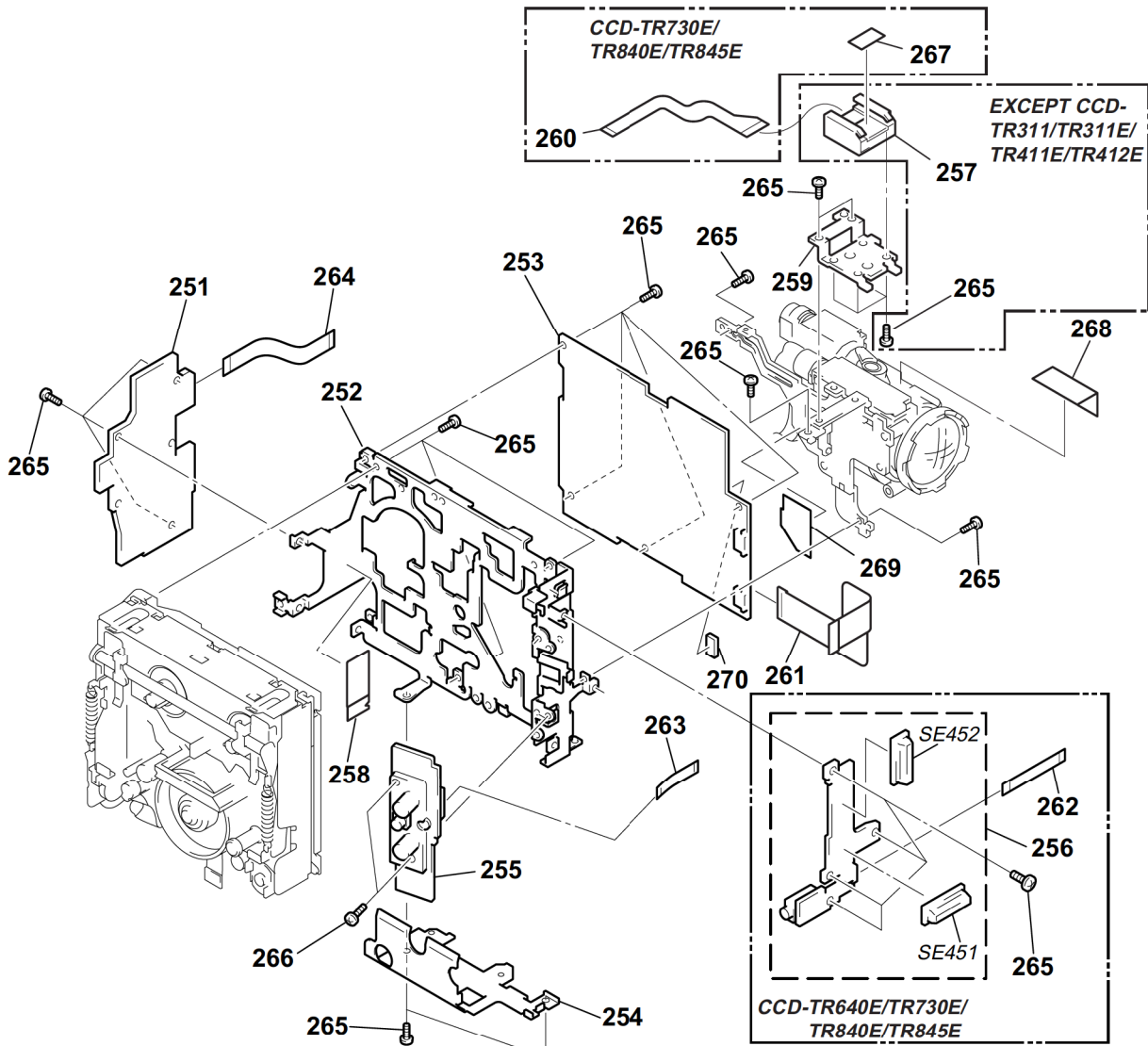
6-1-5. EVF BLOCK ASSEMBLY (COLOR EVF) (TR512E/TR730E)



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

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
201	X-3948-237-1	CABINET (REAR)(SC)(N) ASSY, EVF		* 208	3-987-667-01	SHEET, VF LIGHT INTERCEPTION	
202	A-7073-437-A	VF-119 BOARD, COMPLETE		209	A-7073-439-A	LB-54 BOARD, COMPLETE	
* 203	3-987-666-01	SHEET (860), INSULATING, VF		210	A-7073-438-A	VF-120 BOARD, COMPLETE	
204	1-668-962-11	FP-638 FLEXIBLE BOARD					
205	X-3948-229-1	LENS ASSY (860), VF		211	X-3948-233-1	CABINET (FRONT)(864) ASSY, EVF	
* 206	3-960-302-11	CUSHION (1), LCD		212	3-968-729-61	SCREW (M2X3), LOCK ACE, P2	
207	X-3946-886-1	HOLDER ASSY, PRISM		LCD902	8-753-023-36	LCX024AK-5	
				$\triangle$ ND5351	1-517-414-51	FLUORESCENT TUBE (0.55 INCH)	

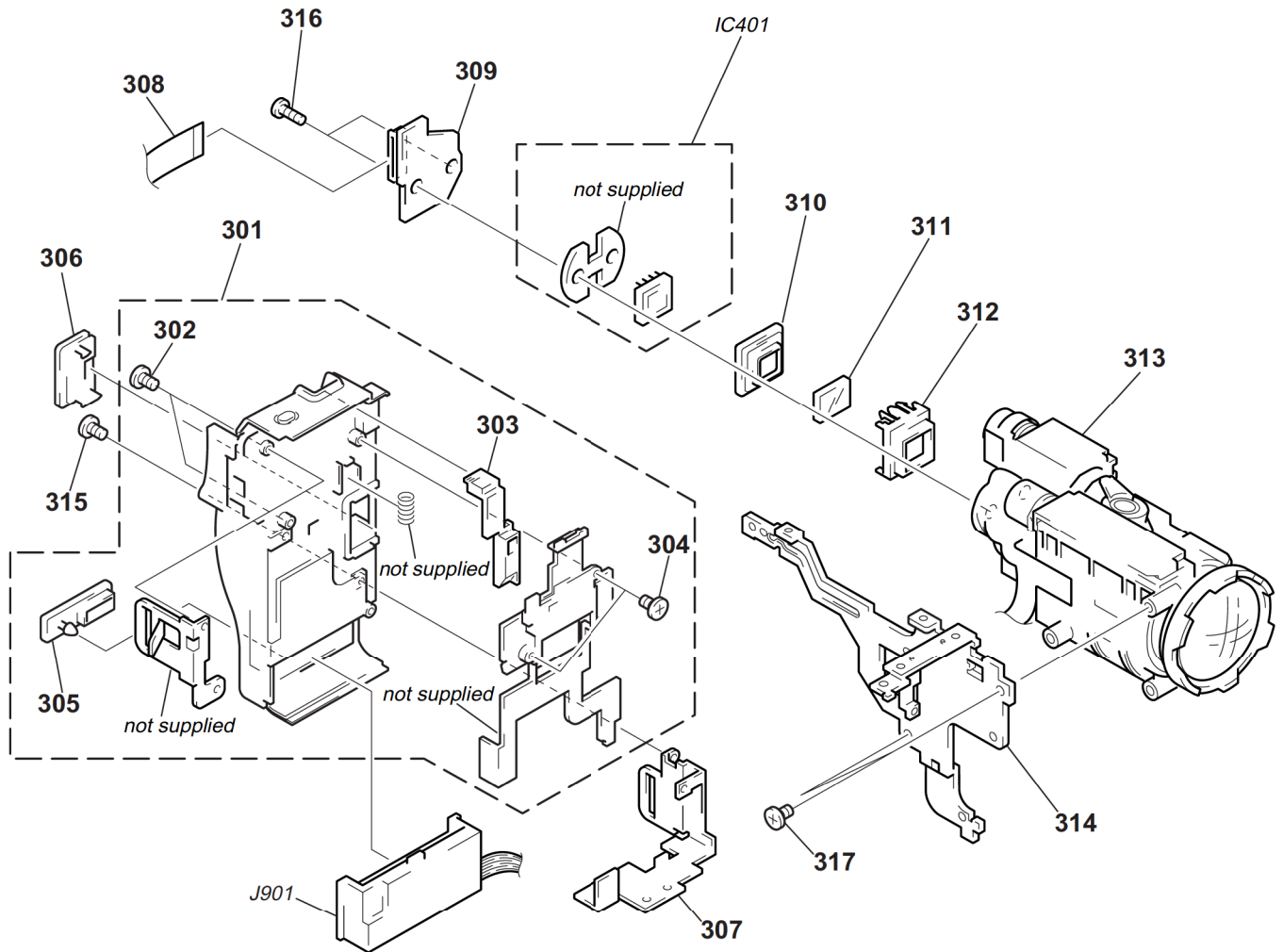
6-1-6. MAIN BOARDS BLOCK ASSEMBLY



Ref. No.	Part No.	Description	Remark
251	A-7073-448-A	DD-105(H) BOARD, COM PLETE (TR840E/TR845E)	
251	A-7073-544-A	DD-105(MCR) BOARD, COMPLETE (TR730E)	
251	A-7073-474-A	DD-105(MM) BOARD, COMPLETE (TR311/TR311E/TR411E/TR412E/TR511E/TR640E)	
251	A-7073-506-A	DD-105(C) BOARD, COMPLETE (TR512E)	
252	3-987-711-01	FRAME (A), MD	
253	A-7093-440-A	VC-195(7ZCBU) BOARD, COMPLETE (TR311)	
253	A-7093-442-A	VC-195(HOGP) BOARD, COMPLETE (TR840E:AUS)	
253	A-7093-443-A	VC-195(MCROP) BOARD, COMPLETE (TR730E)	
253	A-7093-444-A	VC-195(ZCOP) BOARD, COM PLETE (TR512E)	
253	A-7093-445-A	VC-195(HODE) BOARD, COM PLETE (TR845E)	
253	A-7093-446-A	VC-195(HOE) BOARD, COM PLETE (TR840E:AEP,EE,NE,RU,UK)	
253	A-7093-447-A	VC-195(MMOE) BOARD, COM PLETE (TR640E)	
253	A-7093-448-A	VC-195(ZOE) BOARD, COM PLETE (TR311E/TR411E/TR412E/TR511E)	
254	3-987-675-01	FRAME (B), MD	
255	A-7073-422-A	PJ-81(M) BOARD, COMPLETE (EXCEPT TR730E/TR840E/TR845E)	
255	A-7073-426-A	PJ-81(H) BOARD, COMPLETE (TR840E/TR845E)	
255	A-7073-543-A	PJ-81(S) BOARD, COMPLETE (TR730E)	
256	A-7073-423-A	SE-65(MM) BOARD, COMPLETE (TR640E)	

Ref. No.	Part No.	Description	Remark
256	A-7073-427-A	SE-65(H) BOARD, COMPLETE (TR730E/TR840E/TR845E)	
257	1-774-867-31	CONNECTOR, EXTERNAL (HOT SHOE) 8P (TR730E/TR840E/TR845E)	
257	X-3946-197-1	SHOE ASSY (TR511E/TR512E/TR640E)	
* 258	3-987-716-01	PROTECTOR, LS FLEXIBLE	
259	3-987-719-01	BRACKET, SHOE	
260	1-668-978-11	FP-633 FLEXIBLE BOARD (TR511E/TR512E/TR640E)	
261	1-668-960-11	FP-629 FLEXIBLE BOARD	
262	1-668-956-11	FP-620 FLEXIBLE BOARD (TR640E/TR730E/TR840E/TR845E)	
263	1-668-957-11	FP-621 FLEXIBLE BOARD	
264	1-668-958-11	FP-622 FLEXIBLE BOARD	
265	3-713-786-21	SCREW (M2X3)	
266	3-962-826-01	SCREW (2X4)	
267	2-532-810-00	CUSHION (TR730E/TR840E/TR845E)	
* 268	3-989-122-01	SHEET, LENS INSULATING	
* 269	3-987-718-01	PROTECTOR, HS FLEXIBLE (TR730E/TR840E/TR845E)	
* 270	3-989-470-01	CUSHION, LENS	
SE451	1-803-041-11	SENSOR, ANGULAR VELOCITY (YAW)	
SE452	1-803-041-21	SENSOR, ANGULAR VELOCITY (PITCH)	

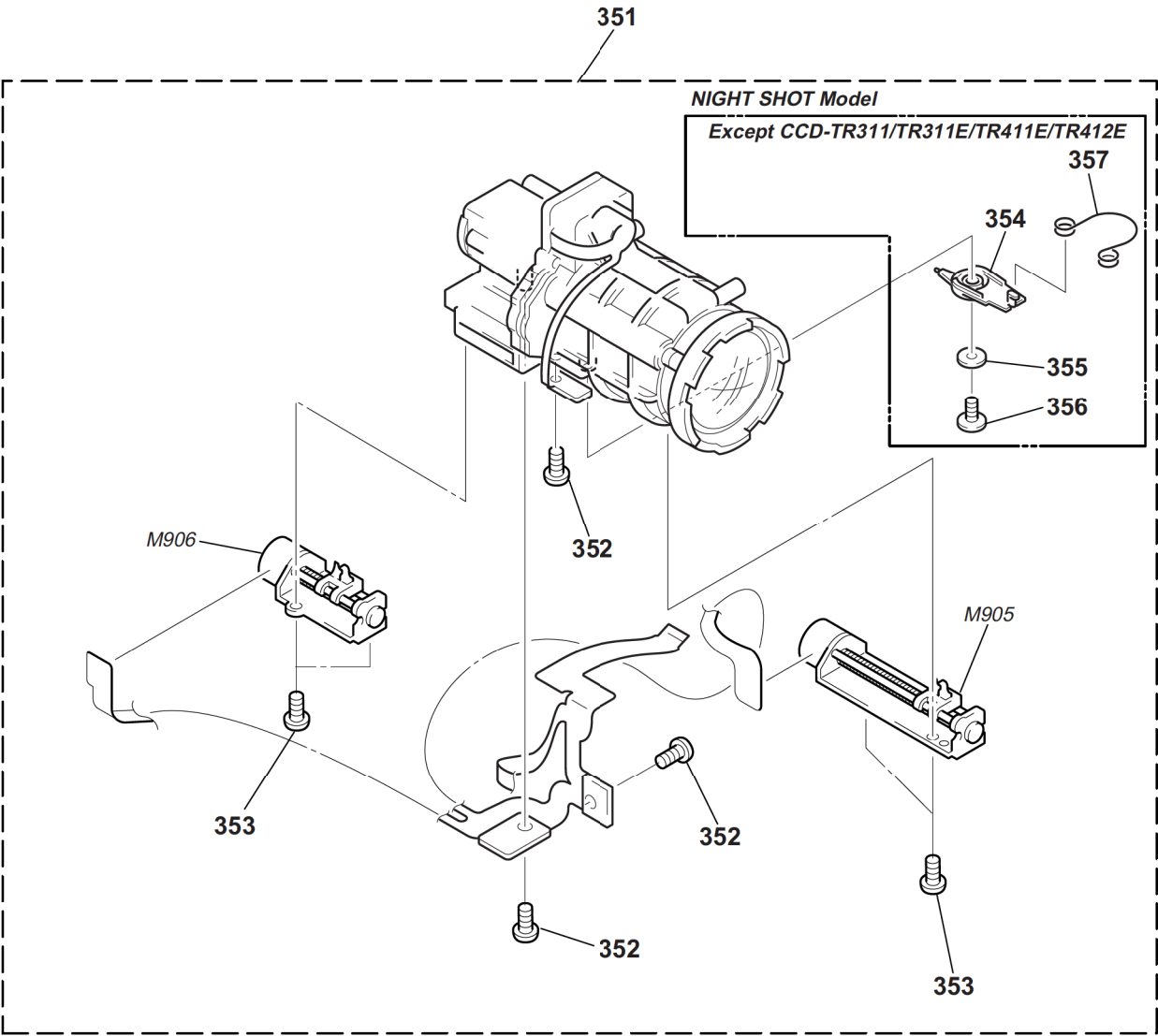
6-1-7. BATTERY PANEL AND LENS BLOCK ASSEMBLY



Be sure to read "Note on the CCD Imager replacement" on page 4-8 when changing the CCD imager.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
301	X-3948-171-1	PANEL ASSY, BATTERY (EXCEPT TR730E)		311	1-758-133-21	FILTER BLOCK, OPTICAL (TR311/TR311E/TR411E/TR412E/TR511E/TR512E)	
301	X-3948-174-1	PANEL ASSY, BATTERY (TR730E)		312	3-978-981-11	ADAPTOR (FK), CCD FITTING	
302	3-968-729-11	SCREW (M2X3), LOCK ACE, P2		313	8-848-724-01	DEVICE, LENS, LSV-601A (SOC) (TR311/TR311E/TR411E/TR412E)	
303	3-987-656-01	LID, JACK		313	8-848-722-01	DEVICE, LENS LSV-600A(SOC) (EXCEPT TR311/TR311E/TR411E/TR412E)	
304	3-713-791-51	SCREW (M1.7X3.5), TAPPING, P2		314	3-987-712-01	FRAME, LENS	
* 305	3-987-683-01	LID, BATTERY		315	3-962-826-01	SCREW (2X4)	
306	3-975-752-01	LID (BT), CPC		316	3-318-203-11	SCREW (B1.7X6), TAPPING	
307	3-987-679-01	SHEET METAL (LOWER), STRAP		317	3-948-339-61	TAPPING	
308	1-668-959-11	FP-623 FLEXIBLE BOARD		IC401	A-7030-862-A	CCD BLOCK ASSY (206 SERVICE) (TR311)	
309	A-7073-420-A	CD-181 BOARD, COMPLETE		IC401	A-7030-871-A	CCD BLOCK ASSY (211 SERVICE) (TR640E/TR730E/TR840E/TR845E)	
310	3-953-817-01	RUBBER (F), SEAL (TR311/TR311E/TR411E/TR412E/TR511E/TR512E)		IC401	A-7030-874-A	CCD BLOCK ASSY (207 SERVICE) (TR311E/TR411E/TR412E/TR511E/TR512E)	
310	3-968-054-11	RUBBER (FM), SHIELD (TR640E/TR730E/TR840E/TR845E)		J901	1-694-384-11	TERMINAL BOARD, BATTERY	
311	1-758-084-21	FILTER BLOCK, OPTICAL (TR640E/TR730E/TR840E/TR845E)					

6-1-8. ZOOM LENS BLOCK ASSEMBLY



Ref. No.	Part No.	Description	Remark
351	8-848-722-01	DEVICE, LENS LSV-600A (SOC) (EXCEPT TR311/TR311E/TR411E/TR412E)	
351	8-848-724-01	DEVICE, LENS LSV-601A (SOC) (TR311/TR311E/TR411E/TR412E)	
352	3-713-791-51	SCREW (M1.7X3.5), TAPPING, P2	
353	3-713-791-41	SCREW (M1.7X5), TAPPING PS	
354	3-979-029-01	LEVER, IR (EXCEPT TR311/TR311E/TR411E/TR412E)	

Ref. No.	Part No.	Description	Remark
355	2-327-405-01	WASHER (EXCEPT TR311/TR311E/TR411E/TR412E)	
356	2-623-756-21	SCREW (B1.7X5), P (EXCEPT TR311/TR311E/TR411E/TR412E)	
357	3-979-037-11	SPRING, RETURN (EXCEPT TR311/TR311E/TR411E/TR412E)	
M905	1-763-047-11	MOTOR, FOCUS STEPPING	
M906	1-763-046-11	MOTOR, ZOOM STEPPING	