

FAA28151 FAA28351 FAA28551

REPAIR MANUAL

Nikon CORPORATION
Tokyo, Japan

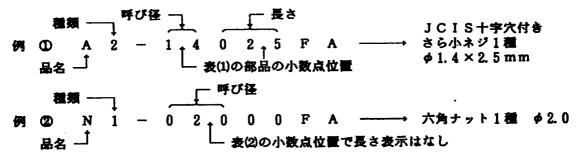
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Exploded Drawings & Parts List	
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TAPES AND FILMS WITH PREFIX ALPHABETS TA K 3	
LBAD WIRE LIST K 4	
THERMAL CONSTRUCTION TUBE LIST K 5	
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[1] Exploded Drawings	
BODY DIECASTING, SHUTTER UNIT, DB-DX CONTACT BASE PLATE UNIT	F 1
POWER SWITCH FPC, FILM ADVANCE BASE PLATE UNIT	F 2
REWIND BASE PLATE, CAMERA BACK OPEN/CLOSE KEY, FILM DETECTION SW	
SEQUENCE BASE PLATE UNIT	F 4
FRONT BODY, AF BASE PLATE UNIT	F 5
PROMT BODY, MIRROR BOX	F 6
FROMT BODY, APRON, MANUAL APERTURE BASE PLATE	F 7
PRISM	
MAIN FPC, AF SENSOR	F 9
EXTERNAL PARTS, INTERNAL LCD	F 1 0
TOP COVER	
TOP COVER, TOP COVER FPC, EXTERNAL LCD	
BOTTOM COVER, BATTERY HOLDER	
CAMBRA BACK	F 1 4
[2] Parts List	
PARTS LIST	P 1
ASSEMBLY LIST	

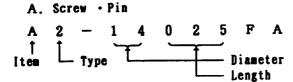
記号說明 MARKS IN THE PARTS LIST

(1) 機械標準品

下の表に示す機械標準品の部品番号は品名、種類、呼び径、長さを示しています。



(1) Standard mechanical parts
Reference Number in the Parts List



B. Nut · Masher · Snap ring

N 1 - 0 2 0 0 0 F A

表 1									
品名 Item		稚類	Туре	品名 I	t e m			種 類 Typ) е
JCIS 十字穴付き小ねじ1種		なべ Pan	1	すりわり付き止め	ا ماد			丸先 Round point	1
Cross-point screw 1	A	さら Counters	sunk 2	Splitted set sci			ĸ	とがり先 Cone point	2
0.000 po.m. coso 1		丸さら Oval	3					くぼみ先 Half point	3
JCIS 十字穴付き小ねじ3種		なべ・ Pan	1		. 1•			とがり先 Cone point	2
Cross-point screw 3	В	さら Counter:	sunk 2	六角穴付き止める Hexagon socket			L.	くぼみ先 Half point	3
		丸さら Oval	3	screw				平先 Normal	4
十字穴付き小ねじ		なべ Pan	1	六角穴付きポルト Hexagon socket			M	N2. N2. 6	2
Cross-point screw	С	さら Counter	sunk 2	平行ピン Straight pin			-	テンレス	5
		丸さら Oval	3	<u> </u>		P	Sta	inless steel	2
		トラス Trus	4	Taper pin		•		设用	3
十字穴付きタップタイ タイトねじB型	F	なべ Pan	1	スプリングピン Spring cotter		-	軽	mal 肯重用	4
Cross-point tapped	F	さら Counter	sunk 2				Lig	ht	1 3
十字穴付きタップタイ タイトねじB型1種		なべ Pan	1	表 2 品 名	Item			種類 Ty	<u> </u>
Cross-point tapped	G	さら Counter	sunk 2	六角ナット	1 (6 11	<u>-</u>	ĸ	1種 Type 1 1種 Type 3	1
screw B1		丸さら Oval	3	Hexagon nut 平座金			R	小形丸	1
十字穴付きタップタイ タイトねじB型3種		75.ペ Pan	1	Washer ばね座金			<u>π</u>	みがき丸	5
Cross-point tapped	н	* 5	sunk 2	•				E型 Type B	1
screw B3		丸さら Oval	3	- E型止め環 B-snap ring			S	G型 Type 6 GS型 Type GS	2

-K1-

(2) 販売区分欄 The term of sale colum

記号 Mark	说 明 Exp	lanation
0	Can be Supplied individually	: 単独部品として販売するもの
Δ	Not supplied individually but only as subassembly.	部組品でなければ販売しないもの
ΟΔ	Supplied either as part or subassembly	単独部品でも部組品でも販売するもの
×	Not considered as repair part	修理部品と考えないもの
*	Should be sent to the factory if the repair needed.	単体では交換できないので、組む場合 に工場での加工が必要なもの
Ø	Delivered as a product from the sales department (i.e., not supplied as repair part)	商品として販売店で販売しているもの

(3) 備考欄 The remarks colum

F-601M	Part number used in common	共通部品番号
(Blue × 125mm)	Lead wire (color × length)	コードの色と長さ
53F-2013 (FM-780028)	Technical information ref. number (number in parenthesis; English edition)	製品技術資料No. ()内は英文
$(2.1\times3.8\times0.07)$	Washer (internal diameter × external diameter×thickness)	フッシャー (内径×外径×厚さ)
(Black)	Black-finished parts	黑部品
(d=0, 2)	Diameter of wire	■ 練型 = 0. 2
(t = 1)	Thickness	厚さ=1
Rev.	Revision	訂正
Add.	Addition	:追加
Dis.	Discontinuation	廃止
OLD		旧部品
♦		RP限定出庫部品
RP-9001	Repair part information No.	RP情報No.
R1 D1 W1 C1 Q1 P1	Abbreviation for electronic part	電気部品記号
TA-0003	Number (TA-***) are order numbers of	接着テープ要求部署
	adhesive tape. (For the order of	(1K***-*** では部品要求でき
	adhesive tape, the number 1K***-*** is not use).	
W-0056BB	Number (W-0056BE) are order numbers of	リードワイア要求部署
	Lead wire. (For the order of Lead wire,	(18***-*** では部品要求でき
	the number 1K***-*** is not use).	ません。)

* VERSATILE PART

* 既出部品

Apart maked with this pentagonal symblo is used commonly in the arcitecture of other products. That is called "VBRSATILE PART". Note that every part, bearing new part number of eleven places, will turn into a VERSATILE PART when it is used in the design of future product.

テープ類TA設定部品一覧表

TAPES AND FILMS WITH PREFIX ALPHABETS TA Dec. 17, 1991

部品 No.	名 称	色	厚さ	幅	長さ	要求単位 Q'ty for
Part No.	Name of part	Color	Thickness (t= nn)	Widhs (nn)	Length (m)	a unit for crdering
TA-0001	ポリエステルフィルム Tape	透明 Transparent	0. 025	10	30	1 卷 1 roll
TA-0002	ポリエステルフィルム Tape	透明 Transparent	0. 025	20	30	1 卷 1 roll
TA-0003	両面接着テープ Both sided adhesive tape	白 White	0. 16	10	2	1卷 1 roll
TA-0004	両面接着テープ Both sided adhesive tape	黑 Black	0. 14	12	50	1巻 1 roll
TA-0005	ポリエステルフィルム Tape	黄 Yellow	0. 06	19	66	1 卷 1 roll
TA-0006S	アセテートクロス (シート) Tape (200x120/sheet)	黑 Black	0. 23	6	200	1set (20pcs)
TA-0007	銅泊導電性 Tape, copper foil	鋼泊 Copper foil	0. 11	4	6	1 卷 1 roll
TA-0008	ポリエステルフィルム Tape	透明 Transparent	0, 055	30	30	1卷 1 roll
TA-0009	カプトンフィルム Tape	琥珀 Amber	0. 07	6	30	1 卷 1 roll
TA-0010	両面接着テープ Both sided adhesive tape	乳白色 Opal	0. 16	15	36	1 卷 1 roll
TA-0011	ポリエステルフィルム Tape	黒 Black	0. 06	10	30	1 卷 1 roll
TA-0012	ポリエステルフィルム Tape	透明 Transparent	0. 025	6	30	1 巻 1 roll
TA-0013	アセテートクロス (シート) Tape (200x120/sheet)	黑 Black	0. 23	20	200 (mm)	1set (20pcs)

リードワイヤー一覧表

LEAD WIRE LIST

DEC. 17. 1991

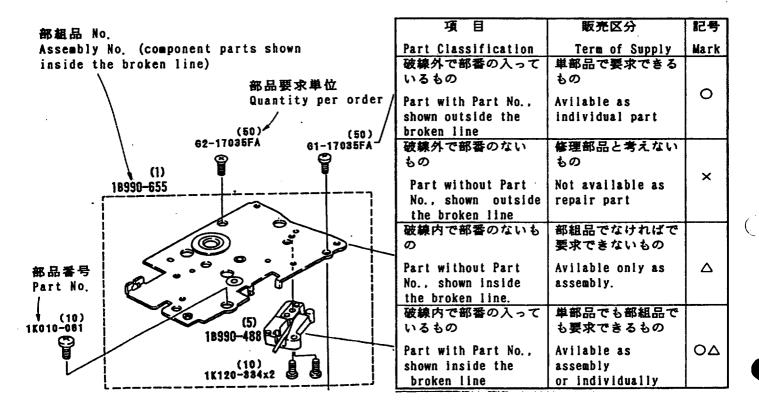
							
部品No. Part No.	色 Color	外 形 Diameter (outer	導体サイズ Pcs./ Diameter	部品 No. Part No.	色 Color	外 形 Diameter (outer	導体サイズ Pcs. / Diameter
		tube)	(lead wire)			tube)	(lead wire)
W-0045BN	Brown	0. 45mm	7×0.05mm	W-0108BK	Black	1. 08mm	7×0.16mm
W-0045RE	Red	-ditto-	-ditto-	W-0108BN	Brown	-ditto-	-ditto-
W-0045OR	Orange	-ditto-	-ditto-	W-0108RE	Red	-ditto-	-ditto-
W-0045GN	Green	-ditto-	-ditto-	W-01080R	Orange	-ditto-	-ditto-
W-0045BE	Blue	-ditto-	-ditto-	W-0108YE	Yellow	-ditto-	-ditto-
W-0045PU	Purple	-ditto-	-ditto-	W-0108GN	Green	-ditto-	-ditto-
				W-0108BE	Blue	-ditto-	-ditto-
W-0056BK	Black	0. 56mm	7×0.08mm	W-0108PU	Purple	-ditto-	-ditto-
W-0056BN	Brown	-ditto-	-ditto-	W-0108GY	Gray	-ditto-	-ditto-
W-0056RE	Red	-ditto-	-ditto-	W-0108WH	White	-ditto-	-ditto-
W-0056OR	Orange	-ditto-	-ditto-				
W-0056YE	Yellow	-ditto-	-ditto-	W-0120BK	Black	1. 2 mm	7×0.18mm
W-0056GN	Green	-ditto-	-ditto-	W-0120BN	Brown	-ditto-	-ditto-
W-0056BE	Blue	-ditto-	-ditto-	W-0120RE	Red	-ditto-	-ditto-
W-0056PU	Purple	-ditto-	-ditto-	W-01200R	Orange	-ditto-	-ditto-
W-0056GY	Gray	-ditto-	-ditto-	W-0120YE	Yellow	-ditto-	-ditto-
W-0056WH	White	-ditto-	-ditto-	W-0120GN	Green	-ditto-	-ditto-
W-0056PK	Pink	-ditto-	-ditto-	W-0120BE	Blue	-ditto-	-ditto-
				W-0120PU	Purple	-ditto-	-ditto-
				W-0120GY	Gray	-ditto-	-ditto-
				W-0120WH	White	-ditto-	-ditto-
W-0080BK	Black	0. 80mm	7×0.12mm				
W-0080BN	Brown	-ditto-	-ditto-	W-0150BK	Black	1.5 mm	40×0.08mm
W-0080RE	Red	-ditto-	-ditto-	W-0150BN	Brown	-ditto-	-ditto-
W-0080OR	Orange	-ditto-	-ditto-	W-0150RE	Red	-ditto-	-ditto-
W-0080YE	Yellow	-ditto-	-ditto-	W-0150OR	Orange	-ditto-	-ditto-
W-0080GN	Green	-ditto-	-ditto-	W-0150YE	Yellow	-ditto-	-ditto-
W-0080BE	Blue	-ditto-	-ditto-	W-0150GN	Green	-ditto-	-ditto-
W-0080PU	Purple	-ditto-	-ditto-	W-0150BE	Blue	-ditto-	-ditto-
W-0080GY	Gray	-ditto-	-ditto-	W-0150PU	Purple	-ditto-	-ditto-
W-0080WH	White	-ditto-	-ditto-	W-0150GY	Gray	-ditto-	-ditto-
W-0080LB	Light blue	-ditto-	-ditto-	W-0150WH	White	-ditto-	-ditto-
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収縮チューブ一覧表

Thermal construction tube list Dec. 17, 1991

	rmai construct.			bec. 17, 1991
部品 No.	名 称	直径	長さ	備 考
Part No.	Name of part	Diameter (ゆ)	Length (m)	Remaks
TU-0001	収縮チューブ Thermal construction tube	1. 0 mm	1	RP-8925
TU-0002	収縮チューブ Thermal construction tube	2. 0 mm	1	RP-8925
TU-0003	収縮チューブ Thermal construction tube	3. 0 mm	1	RP-8925
TU-0004	収縮チューブ Thermal construction tube	4. 0 mm	1	RP-8925
			,	
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展開図の見方 How to use explosion drawings



作成承認印	配布許可印
ラスシャンス部 サービス部 GM	

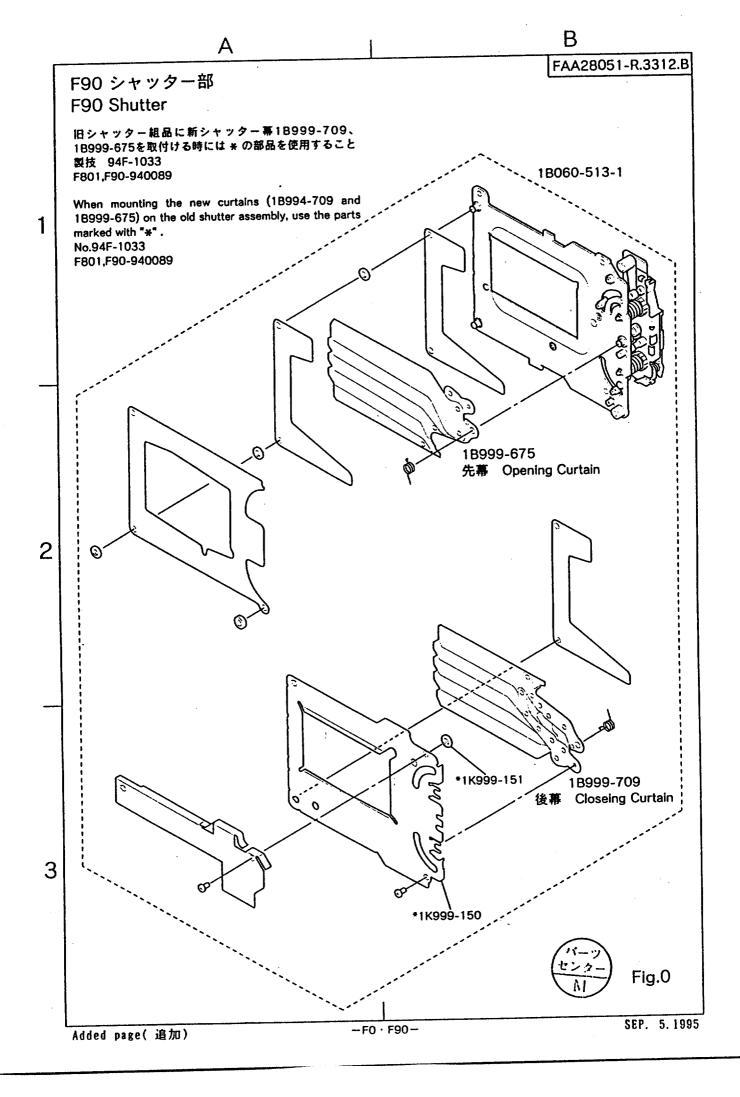
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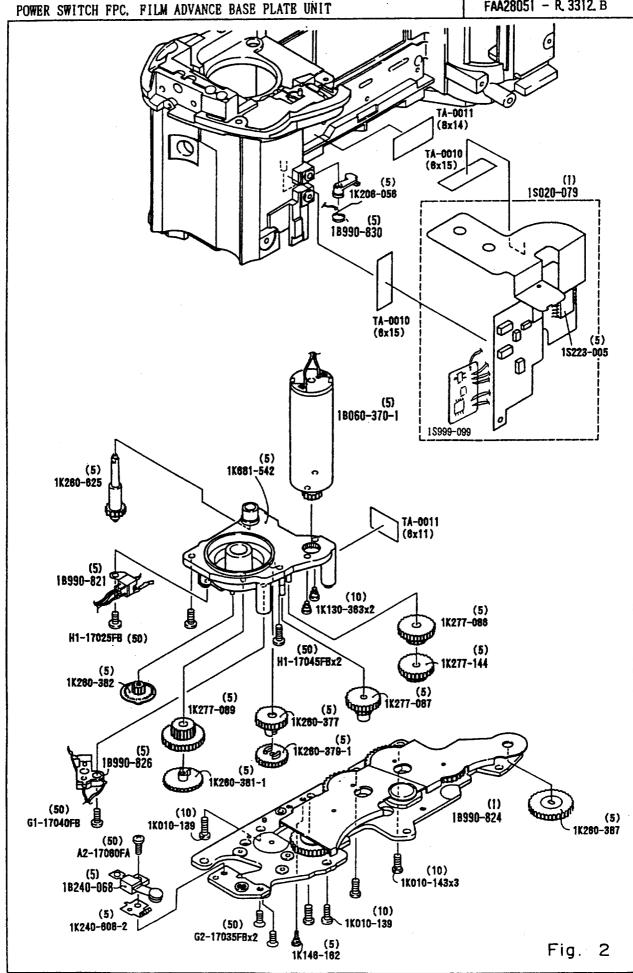
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PARTS LIST (REVISED-1) 訂-1) 修理部品表(改

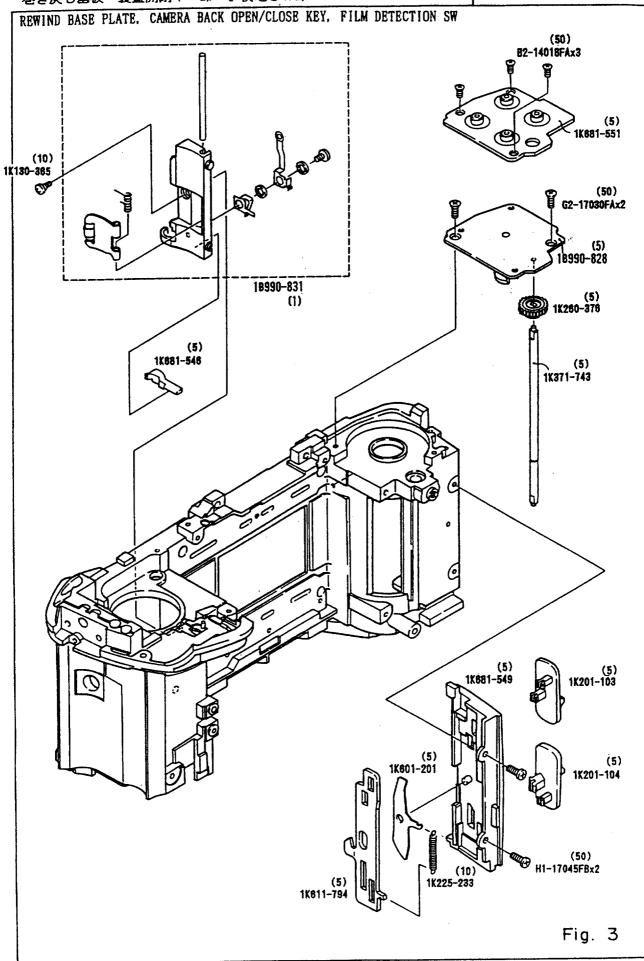


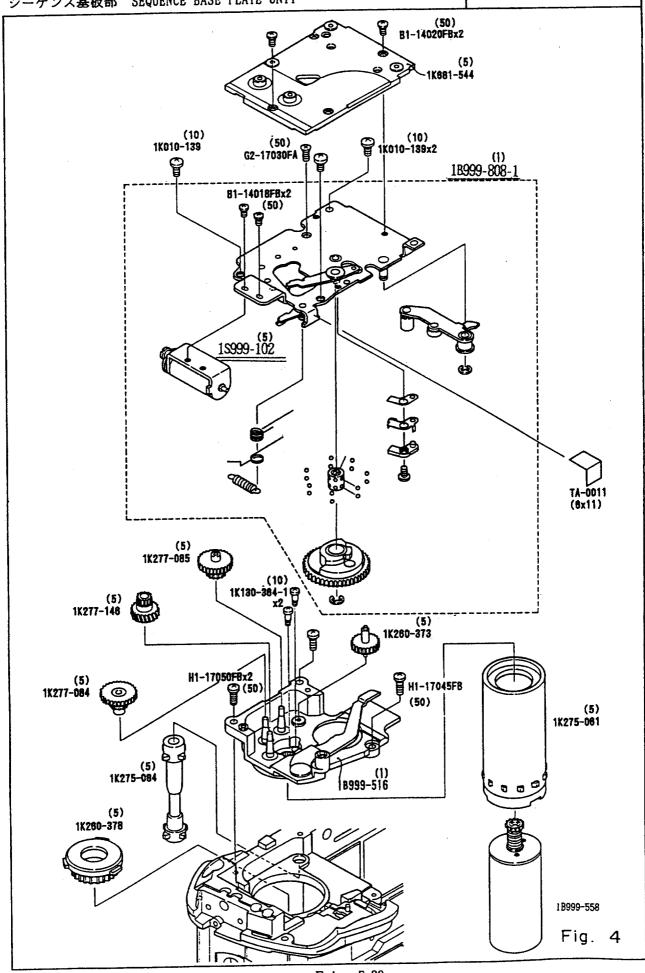
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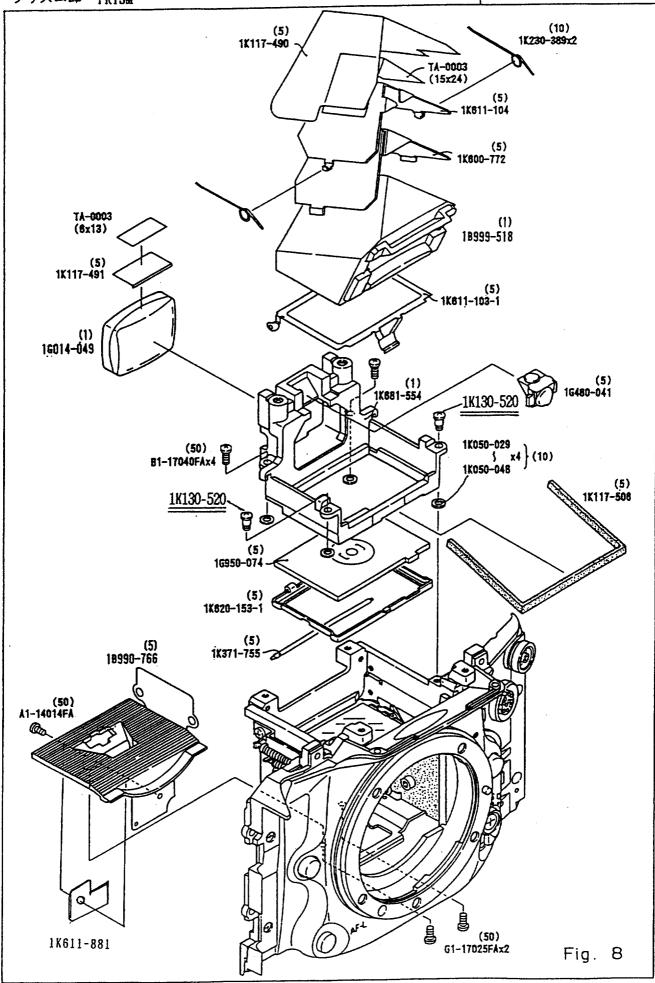
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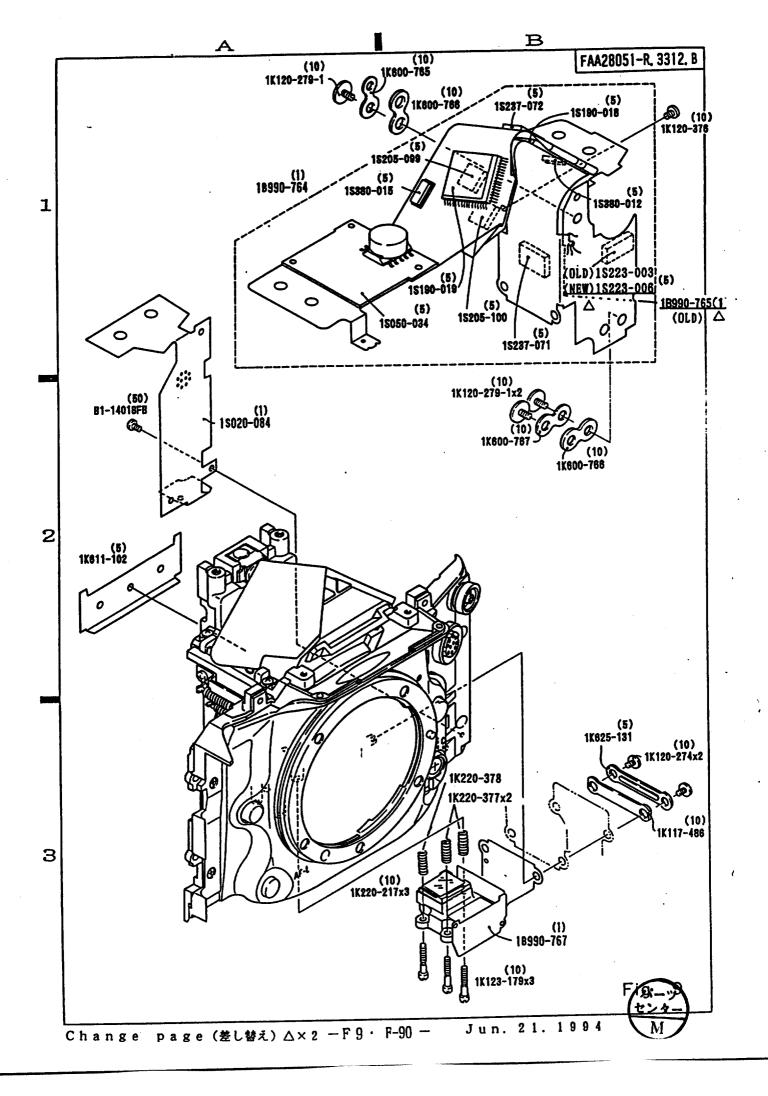


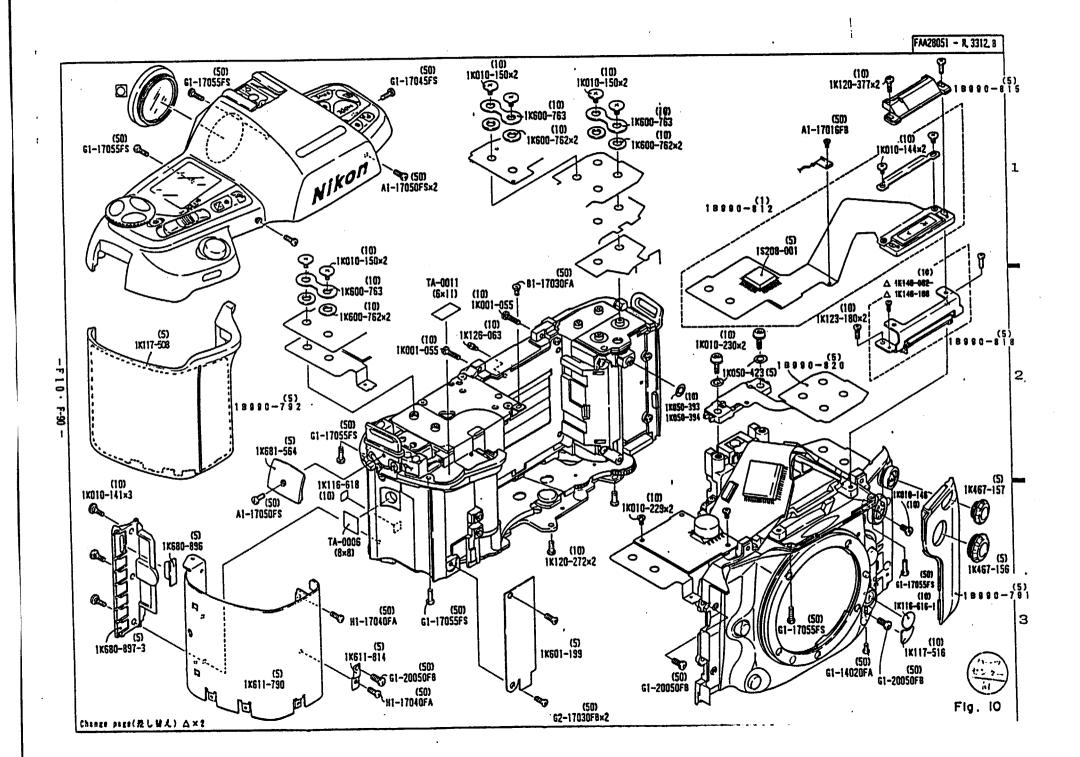


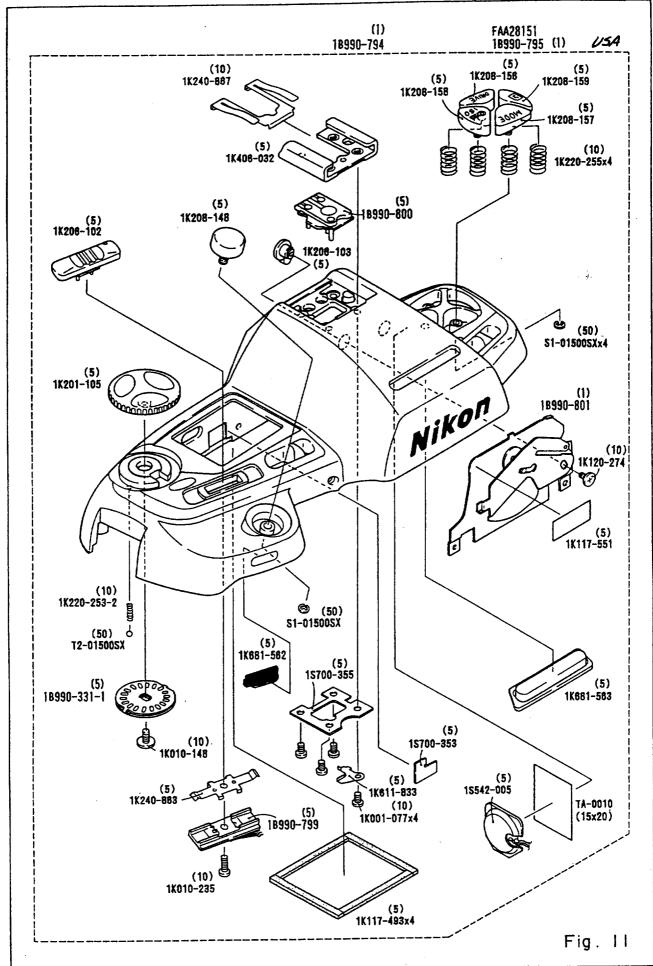
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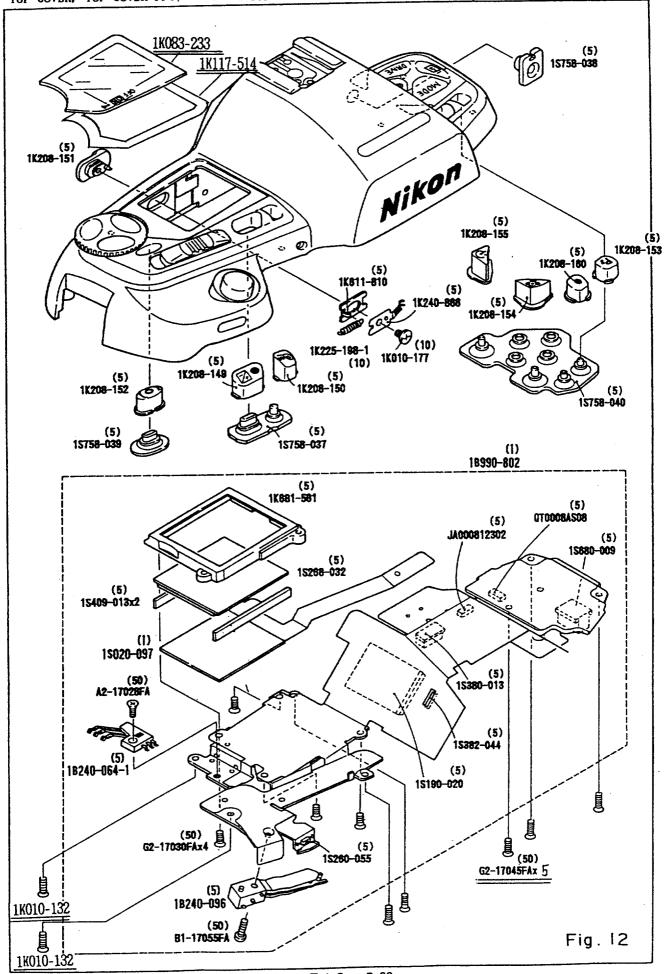
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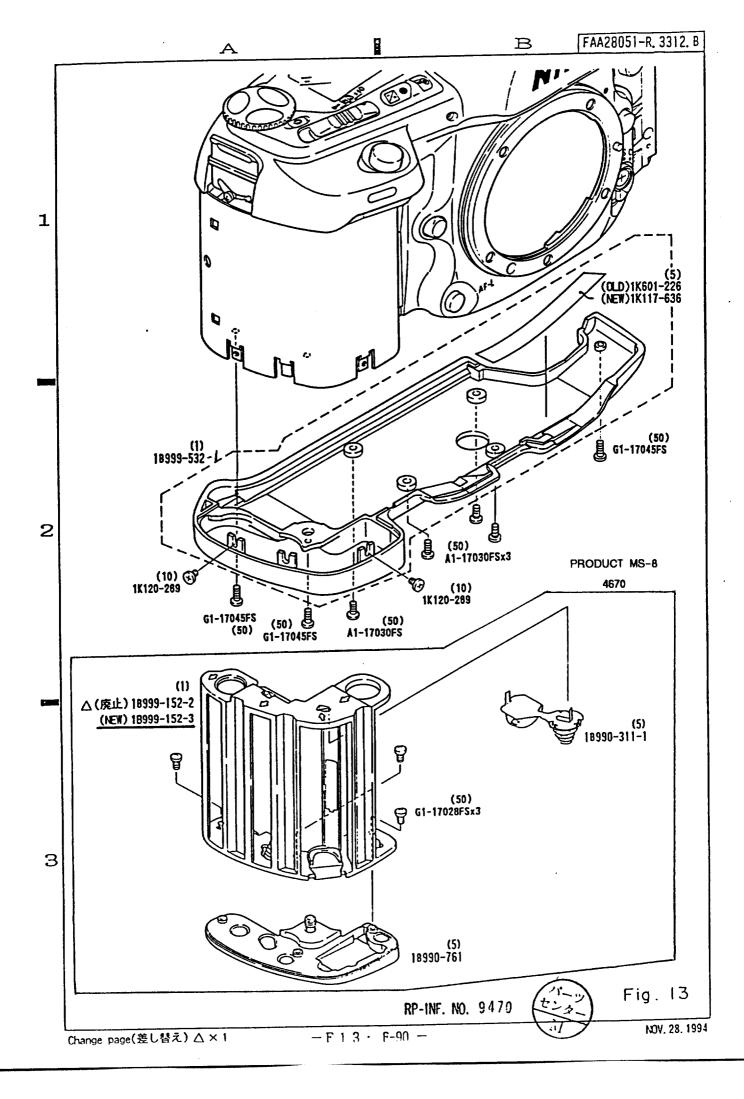


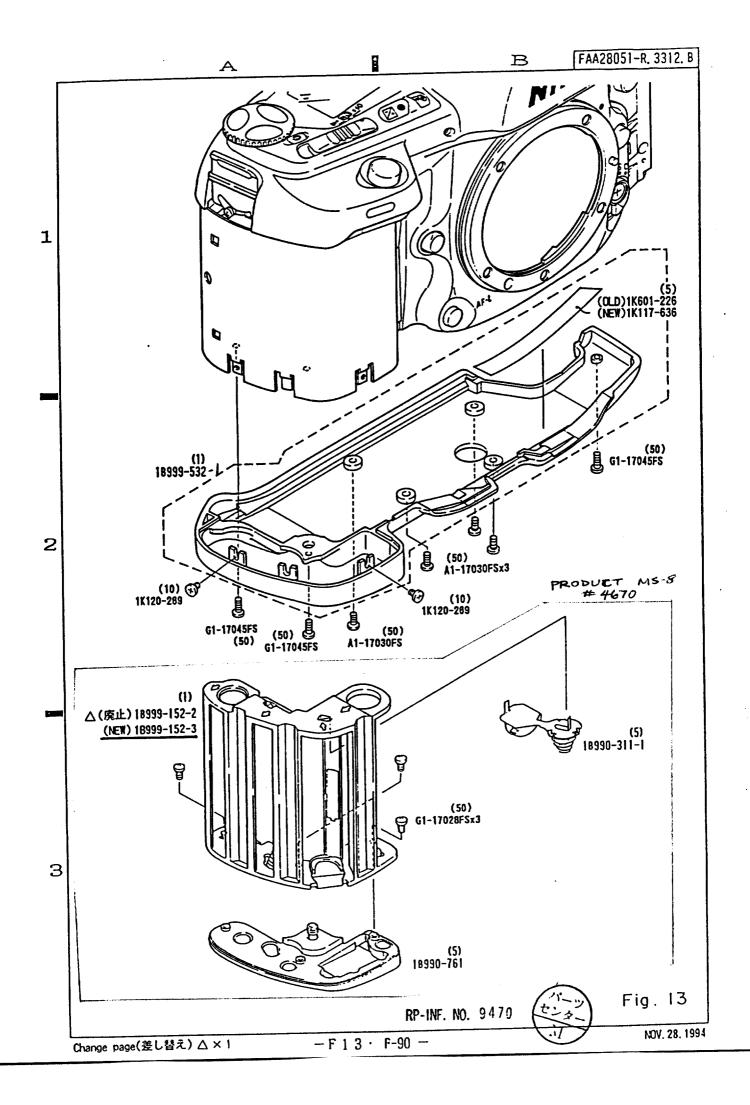


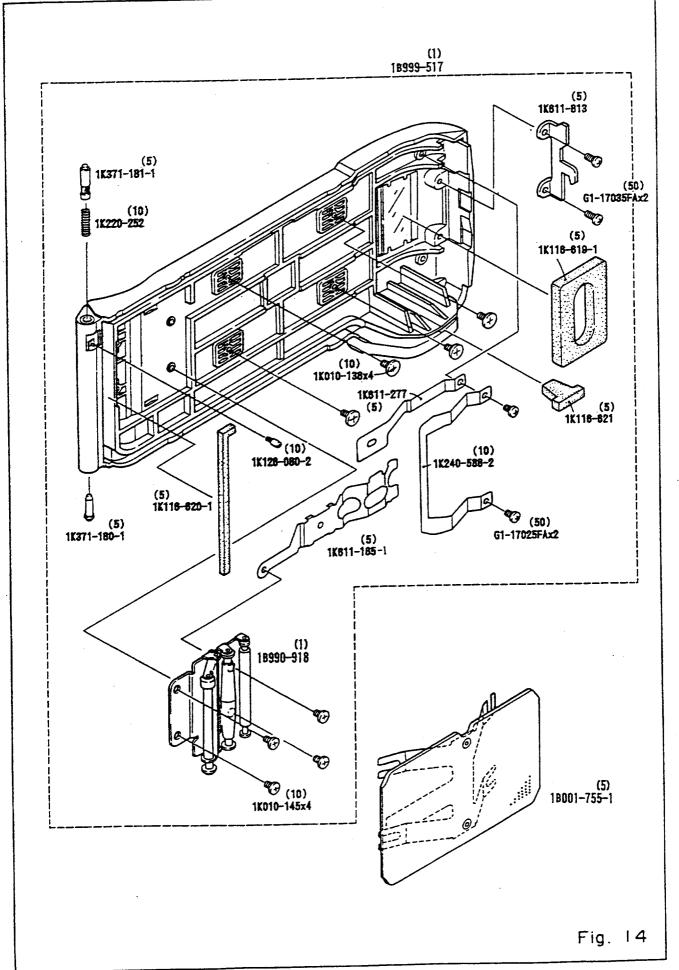




 $-F12 \cdot F-90 -$







部。品类	raits	LIST					128001-K: 30	
部品番号 Park No.	補助番号 Ckt No.	名 称 Name	1台分 個数 Q'ty Per Unit	部組品番号 Assembly	参照 図香 Fig. No.	販売区分 Class.of Salabil- ity	備 考 Remarks	要求単位 Order Unit Q'ty
Part No. *1K001-055	724	Screw (M1.7)	2	Naocaio1)	10	0	F-801S	10
(B1-17070FB) 1K001-077	577	Screw (M1.7)	4	1B990-794	11	ОД		10
1K001-078	850	Screw (M1.7)	2	1B990-763	7	ΟΔ		10
1K010-132		Screw	2		12	0	F-601 RP-9355 製技92F-206 参照	5 10
*1K010-138	624	Screw (B1.7)	4	1B999-517	14	ОД	F-801S	10
*1K010-139	841	Screw (B1.7)	5		2.4	0	F-801S	10
*1K010-141	844	Screw (B1.7)	3		10	0	F-801S	10
*1K010-143	846	Screw (B2)	3		2	0	F-801S	10
*1K010-144	847	Screw (B1.7)	2	1B990-812	10	ОД	F-801S	10
*1K010-145	848	Screw (Bl. 7)	4	1B999-517	14	ΟΔ	F-801S	10
*1K010-146	849	Screw (M2)	1		7	0	F-801S	10
*IK010-148	517	Screw (B1.7)	1	1B990-794	11	ОД	F-801S	10
*1K010~150	284	Screw	6		10	0	F-801S	10
*1K010~177	556	Screw (B1.7)	1		12	0	F-601	10
1K010-229	773	Screw (PS1.4)	2		10	0		10
1K010-230	775	Screw (B1.7)	2		10	0		10
								,
							:	
	<u></u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>	

部品番号	補助番号	名 称	1台分 個 数	部組品番号	参照図番	販売区分 Class. of Salabil-	備考	要求単位 Order Unit
Part No.	Ckt No.	Name	Q'ty Per Unit	Assembly	Fig. Na	ity	Remarks	Q'ty
1K010-235	739	Screw (PSI.7)	1	18990-794	11	ОΔ		10
*1K050-022	801	Washer(T=0.2)	1	18990-763	6	ОΔ	F-801S	10
*1K050-029	811	Washer (T=0.05)	0-4		8	0	F-801S	10
*1K050-030	811	Washer(T=0.06)	0-4		8	0	F-801S	10
*1K050-031	811	Washer (T=0.07)	0-4		8	0	F-801S	10
*1K050-032	811	Washer(T=0.08)	0-4		8	0	F-801S	10
*1K050-033	811	Washer(T=0.09)	0-4		8	0	F-801S	10
*1K050-034	811	Washer(T=0.1)	0-4		8	0	F-801S	10
*1K050-035	811	Washer(T=0.11)	0-4		8	0	F-801S	10
*1K050-036	811	Washer(T=0.12)	0-4		8	0	F-801S	10
*1K050-037	811	Washer(T=0.2)	0-4		8	0	F-801S	10
*1K050-038	811	Washer(T=0.3)	0-4		8	0	F-801S	10
*1K050-039	811	Washer(T=0.4)	0-4		8	0	F-801S	10
*1K050-040-1 (1K050-040)	811	Washer (T=0.5)	0-4		8	0	F-801S	10
*1K050-041	811	Washer(T=0.6)	0-4		8	0	F-801S	10
*1K050-042-1 (1K050-042)	811	Washer(T=0.7)	0-4		8	0	F-801S	10

都品香号	補助番号	名称	1台分 個数 Q'ty Per	都組品香号	参照 図書 Fig.	販売区分 Class. of Salabil-	備考	要求単位 Order Unit
Part No.	Ckt No.	Name	Unit	Assembly	No.	ity	Remarks	Q' ty
*1K050-043-1 (1K050-043)	811	Washer (T=0.8)	0-4		8	0	F-801S	10
*1K050-044	811	Washer(T=0.9)	0-4		8	0	F-801S	10
*1K050-045-1 (1K050-045)	811	Washer(T=1.0)	0-4		8	0	P-801S	10
*1K050-046-1 (1K050-046)	811	Washer(T=1.1)	0-4		8	0	P-801S	10
*1K050-047-1 (1K050-047)	811	Washer(T=1.2)	0-4		8	0	P-801S	10
*1K050-048	811	Washer(T=0.03)	0-4		8	0	F-801S	10
*1K050-112	801	Washer(T=0.3)	0-1	1B990-763	6	ОΔ	P-801S	10
*1K050-144	801	Washer(T=0.1)	0-1	1B990-763	6	ΟΔ	F-801S	10
1K050-393	835	前板取付け基準 穴用ワッシャー (T=0.1) Washer	0		10	0		10
1K050-394	836	前板取付け基準穴用ワッシャー (T=0.2) Washer	0		10	0		10
1K050-423	776	Washer	2	-	10	0	RP-9434	5
*1K060-047-1 (1K060-047)	824	E-ring	6	1B990-763 1B990-818	6	ΟΔ	F-801S	10
*1K060-048	825	E-ring	4	18060-510 18990-763 18990-808	5	ОΔ	F-801S	10
1K083-233	566	LCD &	1		12	0	RP-9355	5
*1K115-660-1	668	アセテートテープ 6×13 Cloth tape	1	18990-763	6	ΟΔ	F-801S	10
1K116-124	675	両面テープ 15×24 Double-sided adhesive tape	1		8	×	TA-0003	1 roll
	-							

Change page (差し替え) △×1

パーツセンター

部品番号	補助番号	名 称	1台分 個 数	部組品番号	参照図香		備考	要求単位 Order Unit
Part No.	Ckt No.	Name	Q'ty Per Unit	Assembly	Fig. No.	ity	Remarks	Q ty
*1K116-245-1	416	ミラー受けモルトA Mirror holder SPONGE A	i	18990-763	5	ОΔ	F-801S	5
*1K116-249-1	417	ミラー受けモルトB Mirror holder sponge B	1	18990-763	5	ОΔ	F-801S	5
*1K116-616-1 (1K116-616)	953	AFモードSWノブカバー Cover. focus mode SW knob	1		10	0	F-801S	10
*1K116-618	170	フィルム位置マーク Film leader index mark	1		10	0	F-801S	10
*1K116-619	607	裏査窓モルト Sponge, camera back window	1	1B999-517	14	ΟΔ	F-801S	5
*1K116-620-1 (1K116-620)	628	裏蓋軸部遮光モルト Light-tight sponge. camera back shaft	1	1B999-517	14	ΟΔ	F-801S	5
*1K116-621	629	裏薗底部遮光モルト Light-tight sponge, camera back bottom	1	1B999-517	14	ОД	F-801S	5
IKH16-632-1	680	両面テープ 15×20 Double-sided adhesive tape	1	1B990-794	11	×	TA-0010	l roll
*1K116-649-1	593	上カバー防滴シール Drip-proof seal, top cover	1		1	0	F-801S	5
*1K116-650	236	耳環B防滴シール Drip-proof seal. eyelet B	1		1	0	F-801S RP-9331 『要求単位 変更の件』	1
IKI16-651	241	電池室遮光テープ 8×8 Light-tight tape, battery chamber	1		10	×	TA-0006	l roll
*1K116-665	346	植毛紙 Flocked sheet	1	1B990-763	6	ΟΔ	F-801S	5
*1K116-678	328	振動防止モルト Vibration-proof sponge	2	18990-763	6	ΟΔ	F-801S	10
1K116-684	697	ポリエステルテープ 8×14 Tape	1		2	×	TA-0011	1 roll
1K116-855-1	646	コード 整理用 テープ 6×11 Tape	3		2. 4 10	×	TA-0011	1 roll
1K117-174	653	両面テープ 6×15 Double-sided adhesive tape	2		2	×	TA-0010	l roll
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FAA28051-R. 3312. B

部品番号	補助番号	名 称	1台分 個 数	部組品番号	参照	販売区分 Class. of	備考	要求単位 Order
Part No.	Ckt No.	Name	Q'ty Per Unit	Assembly	Fig.	Salabil- ity	Remarks	Unit Q'ty
*1K117-287	937	防音ゴム Rubber	2	1B990-763 1B999-157-4	5	ΟΔ	F-801S	10
*1K117-288	939	押さえゴム Rubber	1	1B990-763	5	ОΔ	F-801S	10
1K117-347	645	植毛紙 Flocked sheet	1		1	0	F-801S RP-9355 「製品に使 用されてない」	10
1K117-486	292	APセンサー圧接ゴム Press-contact rubber. AF	1		9	0		10
1K117-489	418	L基板植毛紙 Flocked sheet, base plate L	1	18990-763	6	ΟΔ		5
1K117-490	429	ペンタ押さえ絶縁シート Insulation sheet. pentaprism	1		8	0		5
1K117-491	433	接跟这光板 Light-tight plate	1		8	0		5
1K117-493	630	外部してDゴミ防止用モルト Dust protect sponge	4	1B990-794	11	ОД		5
1K117-506	415	F内LCDゴミ対策用モルト Dust protect sponge	1		8	0		5
1K117-507	644	巻上げ側吊環部絶縁用テープ (静電気対策用) Insulation tape	1	1B990-794	1	ОΔ		5
*1K117-508	671	グリップテープ Grip tape	ī	18990-792	10	ОД	RP-9472	5
1K117-513	677	両面テープ 8×10 Double-sided adhesive tape	2	18990-763 18990-791	5	×	TA-0003	1 roll
1KI 17-514	690	両面テープ.LCD window Double-sided adhesive tape.LCD window	1		12	0	RP-9355	5
1K117-516	954	AFモードSW銘板 Focus mode plate	1		10	0		5
1K117-522	927	AFフォトインタラブタ押さえゴム Photo interrupter retainer	t	1B990-763	5	ОΔ		5
1K117-550	658	両面テープ 6×13 Double-sided adhesive tape	1		8	×	TA-0003	i roll
IKI 17-551	662	ポリエステルテープ 7×15 Tape	l	18990-794	11	×	TA-0011	1 roli
1K117-635	419	植毛フィルム Flocked sheet	1		ı	0	RP-9443	5

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-P5·F-90 -RP-INF. NO. 9472

DEC. 1.1994

新品番号 補助番号 名 称
*iK117-287 937 Rubber 2 18990-763 18999-157-4 5 ○△ F-801S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
*1K117-288 939 押さえゴム 1 1890-763 5 ○△ F-8015 1 1 1 1 1 1 1 1 1
#1K117-288 939 押さえゴム Rubber 1 18990-763 5 ○△ F-801S 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Rubber 1 5 ○△ 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
Press-contact rubber. AF 1 18990-763 6 ○△ 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
Flocked sheet. base plate L 1 8 ○ 1 1 8 ○ 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1
Insulation sheet. pentaprism 1 1 1 1 1 1 1 1 1
1K117-491 接限速光板 1
433 Light-tight plate 1 8 ○
Dust protect sponge 4 11 ○△
Dust protect spange
IVII7_EAR FrbT C D インが集用エルト
IK117-506 F内LCDゴミ対策用モルト
415 Dust project sponge
1Ki17-507
△ *1K117-508 グリップテープ 1B990-792 RP-9472
671 Grip tape 1 10 ○△
IK117-513 両面テープ 8×10 1B990-763
677 Double-sided adhesive tape 2 18990-791 5 × TA-0003 1 ro
IK117-514 両面テープ、LCD window Bouble-sided adhesive tape、LCD 1 12 ○ 12 ○ 12 ○ 12 ○ 12 ○ 12 ○ 12 ○ 1
1K117-516 AFモードSW銘板
954 Focus mode plate
IKI17-522 AFフ+トインタラプタ押さえゴム 18990-763
927 Photo interrupter retainer 1 5 O\triangle 5
1K117-550 両面テープ 6×13
Double-sided adhesive tape
1K117-551 ポリエステルテープ 7×15 1B990-794
662 Tape 1 11 × TA-0011 1 rol
IK117-635 植毛フィルム RP-9443
419 Flocked sheet

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-P5·F-90 -RP-INF. NO. 9472

DEC. 1.1994

FAA28051-R. 3312. B

部品香号	補助番号	名 称	1台分 個数	部組品番号	参照 図香 Fig.	販売区分 Class. of Salabil-	備考	要求単位 Order Unit
Part No.	Ckt No.	Name	Q'ty Per Unit	Assembly	Na.	ity	Remarks	Q' ty
*1K120-086	790	Screw (M1.4)	1		1	0	F-801S	10
*1K120-102-1	926	Screw O(1.7)	2	18990-763	5	ОΔ	F-801S	10
*1K120-226	951	Screw O(1.7)	1	18990-763	7	ОΔ	F-801S	10
*1K120-269	781	Screw (Mi. 4)	2		13	0	F-801S	10
\$1K120-272	787	Screw (M2)	2		10	0	F-801S	10
*1K120-274	294	Screw (M1.4)	3	1B990-794	10	ОΔ	F-801S	10
*1K120-275-1 (1K120-275)	507	Screw (MI.7)	2	18990-763	5. 6	ОΔ	F-801S	10
*1K120-279-1 (1K120-279)	289	Screw (ML.7)	3		9	0	F-801S	10
*1K120-374	717	Screw (M1. 4)	2	1B990-763	6	0	RS	10
1K120-376	786	Screw	1		9	0		10
1K120-377	791	Screw (ML.7)	2		10	0		10
*1K123-104-2 (1K123-104-1)	475	Screw (M2)	1	1B990-763	7	ОΔ	RP-9478 F-801S	10
*1K123-157 (1K123-046)	473	Screw (M2)	4	1B990-763	7	ОΔ	F-801S	10
‡1K123−158	475	Screw (N2)	1	1B990-763	7	ОΔ	RP-9478 F-801S	10
1K123-179	405	Screw (MI. 4)	3		9	0		10
1K123-180	723	Screw (M1.7)	2		10	0		10
*1K126-063	178	Screw (M1.4)	1		10	0	`F-80IS	10
	:			-			(3-7)	-

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-P6·F-90 - RP-INF. NO. 9478

DEC. 6. 1994

部品表 Parts List

補助番号

Ckt No.

636

789

782

783

784

444

918

488

722

771

90

768

938

225

226

Screw

Screw O(1.7)

Screw Oll. 4)

Screw (M. 4)

Screw O(1.4)

レンズ着脱輪

Screw O(L.7)

Screw O(1.7)

Screw Oil. 4)

裏蓋SWピン

Pin. camera back SW

Washer (Rubber)

裏菱開閉ノブ人

裏英間パノブB

Camera back open/close knob A

Screw

Screw

Lens release shaft

名

Name

貅

都品番号

Part No.

*1K126-080-1

(1K126-080)

*IK130-249

*1K130-363

#1K130-364

*1X130-365

#1K130-366

#1K130-481

IK130-507

1K130-520

*1K146-082

IK146-162

IK146-166

#1K165-207

IK201-103

1K201-104

Δ

Δ

FAA28051-R. 3312. B 販売区分 Class.of Salabil-要求単位 Order i 台分 個 数 Q'ty Per Unit 参照 図書 Fig. 部組品番号 領考 Unit Q'ty ity Assembly Remarks F-801S 1B999-517 10 14 ΟΔ ŧ 1B990-763 F-801S 6 ΟΔ 10 1 F-801S 2 O 10 2 F-801S O 10 2 F-801S 3 0 10 F-801S 18990-763 5 ı ΟΔ 5 1B990-763 F-801S 2 5 ΟΔ 10 18990-763 2 7 ΟΔ 10 RP-9283 「製技92F-2 8 0 2059] 多黑 10 18990-763 F-801S 2 5 ΟΔ 10 RP-9533 2 0 5 1 18990-818 RP-9533 l 10 ΟΔ 10 18990-763 F-801S 5 ΟΔ 10 1 5 3 0 Ĺ 5

		Camera back open/close knob B	1		l			
1K201-105 515	EIE	電子ダイアル		18990-794	11	ОΔ		5
	213	Electrical dial			<u> ''</u>			
1K201-106	950	AF&-FSW/ブ		18990-763	7	ОΔ		5
	830	Knob. focus mode SN	•					
								<u> </u>

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パーツセンター

部品番号	補助番号	名 称	1台分 個数 Q'ty Per	部組品番号	参照 図番 Fig.	販売区分 Class. of Salabil-	備考	要求単位 Order Unit
Part No.	Ckt No.	Name	Unit	Assembly	No.	ity	Remarks	Q' ty
*1K206~056	91	宴査SWレバー	1		2	0	F-801S	5
		Lever. camera back SW						
1K206-102	541	電源SWレバー	1	18990-794	11	ΟΔ		5
		Power SW lever	ļ					
1K206-103	594	アイピースレバー	1	18990-794	11	ОД		5
		Knob. eyepiece shutter					-	
*1K208-112	491	AFロック釦	1	18990-763	7	ОД	F-801S	5
		AF lock button	<u> </u>		ļ		· · · · · · · · · · · · · · · · · · ·	
1K208-147	441	レンズ着脱釦	ı	18990-763	5	ΟΔ		5
		Lens release button	-					
1K208~148	531	レリーズ釦	1	18990-794	11	ΟΔ		5
		Shutter release button	-		 			
1K208-149	546	露出補正釦	1		12	0		5
17000 150		Exposure compensation button	 					
1K208~150	547	Film rewind button	1		12	0		5
1K208-151		AEロック釦	 					
10200-131	552	AE lock button	1 .		12	0		5
1K208-152		例距モード釦	 					
11200 102	564	Focus area button	1		12	0		5
1K208-153		P s \$0			 			
110200 100	580	Ps button	1		12	0		5
1K208~154		マルチ釦	1		-			
1.200 101	583	Metering system button	1		12	0		5
1K208-155	 	セルフ釦	1					
	584	Self-timer button	1	<u> </u>	12	0		5
1K208-156		ドライブ釦		1B990-794				
	585	Drive button	1		11	ΟΔ		5
1K208~157		モード釦	_	1B990-794	<u></u>			_
	586	Mode selector button	1		11	ОД		5
1K208-158		R/ISO卸	<u> </u>	18990-794		O.1		_
	587	Film speed/film rewind button	1		11	ΟΔ		5
•								
	_							

部品番号	補助番号	名 称	1台分 個数 Q'ty Per	部組品番号	参照 図番 Fig.	販売区分 Class. of Salabil-	備 考	要求単位 Order Unit
Part No.	Ckt No.	· Name	Unit	Assembly	Na.	ity	Remarks	Q'ty
1K208-159	588	フラッシュ切替え釦	1	1B990-794	11	ΟΔ		5
		Flash sync mode button	· ·					
1K208-160	590	リセット釦	1		12	0		5
		Reset button						
*1K220-041-1 (1K220-041)	446	レンズ着脱釦パネ	1	1B990-763	5	ΟΔ	F-801S	10
		Spring, lens release button						
*1K220-201-1	445	レンズ着脱輪パネ	1	1B990-763	5	ОД	F-801S	5
		Spring, lens release shaft						
*1K220-217	406	AFセンサー調整パネ	-8-		9	0	F-801S RP-9355 「製技92F-	10
	ļ	Adjustment spring. AF sensor					10341 春照	
*1K220-252	637	裏蓋軸着脱バネ Spring. camera back shaft release	1	18999-517	14	ΟΔ	F-801S	10
*1K220-253-2 (1K220-253)	519	電子ダイアルクリックパネ	1	18990-794	11	ОД	F-801S	10
(10220-200)	219	Spring, electrical dial click				023		10
*1K220-255	589	釦バネ	4	1B990-794	111	ОД	F-801S	10
		Spring	•		<u></u>			10
1K220-377	407	AFセンサー調整パネ	2		9		RP-9355 「製技92F- 1034」 事照	5
	10.	Adjustment spring, AF sensor						
1K220-378	408	AFセンサー調整パネ	1		9	0	RP-9355 「製技92F- 1034」 参照	5
		Adjustment spring, AF sensor						
*1K225-175	306	ミラーアップ縦レバー戻しバネ	1	18990-763	6	ОД	F-801S	10
_,		Spring, mirror-up lever reset						
\$1K225-176	310	校りレバー駆動バネ	1	18990-763	6	ΟΔ	F-801S	10
		Spring, aperture lever actuating			<u> </u>			
*1K225-193	484	F-F0パネ	1	18990-328-1 18990-763	7	ΔΟ	F-801S	10
		F-Fo spring						
*1K225-198-1 (1K225-198)	555	A E ロックパネ	1		12	0	F-601	10
· · · · · · · · · · · · · · · · · · ·	<u> </u>	AE lock spring						
1K225-233	222	裏養閉閉キーバネ Spring, camera back open/close key	1		3	0		10
1K225-236	210	校り戻しバネ	1	18990-763	6	ОΔ		10
	313	Aperture reset spring	ı		0			10
								<u> </u>

部品番号	補助番号	名 称	1台分 個数 Q'ty Per	部組品番号	参照 図書 Fig.	販売区分 Class.of Salabil-	備考	要求単位 Order
Part No.	Ckt No.	Name	Unit	Assembly	No.	ity	Remarks	Unit Q'ty
*1K230-247-1 (1K230-247)	932	AF横レバーバネ Spring. AF lever	1	18990-763 18990-788	5	ОД	F-801S	10
*1K230-254	410	主ミラーダウンパネ Mirror-down spring	1	18990-763	6	ΟΔ	F-801S	10
*1K230-256	305	ミラーアップバネ Mirror-up spring	1	1B990-763	6	ΟΔ	F-801S	10
*1K230-257-1 (1K230-257)	324	シャッターレリーズレバーバネ Spring, shutter release	1	1B990-763	6	ΟΔ	F-801S	10
*1K230-258-2 (1K230-258-1)	341	絞りカウンタ円盤パネ Spring, aperture counter disc	1	1B990-763	6	ОД	F-801S	10
1K230-389	427	ペンタ押さえバネ Retainer spring, pentaprism	2		8	0		10
*1K233-052	397	サブミラーパネ Sub-mirror spring	1	1B100-639 1B990-763	6	ΟΔ	F-801S	5
*1K240-468-4 (1K240-468-2)	472	バヨネットパネ Bayonet spring	1	18990-763	7	ОΔ	F-801S	10
*1K240-588-2 (1K240-588)	631	パトローネ規制バネ Film cartridge stopper spring	1	1B999-517	14	ОΔ	F-801S	10
*1K240-599-1 (1K240-599)	217	パトローネ押さえバネ Spring. film cartridge retainer	1		1	0	F-801S	5
*1K240-608-2 (1K240-608)	96	電池SW接片 Battery switch contact	1		2	0	F-801S	5
1K240-863	542	クリック板(電源SW板A) Click spring	i	1B990-794	11	ОΔ		5
1K240-866	557	AEロックSW接片 AE lock SW contact	1		12	0		5
1K240-867	573	シューパネ [・] Shue spring	1	1B990-794	11	ОΔ		10
*1K260-371	910	AFカップリングギア AF coupling gear	1	18990-763	5	ОД	F-801S	5
*1K260-373	109	減速ギアR Reducing gear R	1 .		4	0	F-801S	5
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部品番号	補助番号	名 称	1台分 個数 Q'ty Per	部組品番号	参照 図巻 Fig.	販売区分 Class. of Salabil-		要求単位 Order
Part No.	Ckt No.	Name	Unit	Assembly	Pig. Na	Salabil- ity	Remarks	Unit Q'ty
*1K260-376	165	巻き戻し連結ギアL Rewind coupling gear L	1		3	0	F-801S	5
*1K260-377	50	フィルム給送モーター減速ギアF Reducing gear F. film advance motor	1		2	0	F-801S	5
*1K260-378	52	フィルム給送モーター減速ギアH Reducing gear H. film advance motor	1		4	0	F-801S	5
*1K260-379-1 (1K260-379)	53	フィルム給送モーター減速ギアW Reducing gear W. film advance motor	1		2	0	F-801S	5
*1K260-381-1	58	基準ギア Reference gear	1		2	0	F-801S	5
*1K260-382	59	カウンタギア Counter gear	1		2	0	F-801S	5
*1K260-387	85	巻き戻し連結ギアK Rewind coupling gear K	1		2	0	F-801S	5
*1K260-397-1 (1K260-397)	339	絞りカウンタ円整 Aperture counter disk	1	1B990-763	6	ΟΔ	F-801S	5
*[K260-580-] (1K260-580)	921	AFギア AF gear	1	18990-763	5	ОΔ	F-801S	5
1K260-625	57	スプロケットギア Sprocket gear	l		2	0		5
*1K275-061	55	スプール Spool	1		4	0	F-801S	5
1K275-084	56	スプロケット Sprocket	1		4	0		5
*1K277-080	908	AF*T4 AF gear 4	1	1B990-763	5	ОД	F-801S	5
*1K277-081	909	AF¥T5 AF gear 5	1	1B990-763	5	ОД	F-801S	5
*1K277-084	107	減速ギアP Reducing gear P	1		4	0	F-801S	5
*1K277-085	108	減速ギアQ Reducing gear Q	1		4	0	F-801S	5
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Ckt No.	Name	Q' ty Per		図書		備考	Order
47		Unit	Assembly	Fig. No.	Salabil- ity	Remarks	Unit Q'ty
	フィルム給送モーター減速ギアA Reducing gear A. film advance motor	1		2	0	F-801S	5
48	フィルム給送モーター減速ギアB Reducing gear B, film advance motor	1		2	0	F-801S	5
51	フィルム給送モーター減速ギアG Reducing gear G. film advance motor	1		2	0	F-801S	5
49	フィルム給送モーター減速ギアC Reducing gear C. film advance motor	1		2	0		5
106	減速ギアO Reducing gear O	ı		4	0		5
952	AFモードSWカム AF mode SW cam	1	18990-763	5	ΟΔ	F-801S	5
911	AFカップリング軸 AF coupling shaft	1	1B990-763	5	ОД	F-801S	5
634	裏査輸A Camera back shaft A	1	1B999-517	14	ОΔ	F-801S	5
635	裏蓋輸B Camera back shaft B	1	18999-517	14	ΟΔ	F-801S	5
216	DX接点 DX contact	6	18990-832	1	ОΔ	F-801S	10
443	レンズ着脱ビン Lens release pin	1	1B990-763	5	ОΔ	F-801S	5
166	巻き戻し連結軸 Rewind coupling shaft	1		3	0		5
423	スクリーン 枠支持軸 Shaft. screen frame support	1		8	0		5
471	バヨネット Bayonet	1	18990-763	7	ОΔ	F-801S	5
571	シュー Shue	1	18990-794	11	ОД		5
468	リモートコネクターキャップ Remote connecter cap	ı		10	0		5
						•	
				T		·	
	51 49 106 952 911 634 635 216 443 166 423 471 571	Reducing gear B. film advance motor フィルム給送モーター減速ギアC Reducing gear G. film advance motor 49 フィルム給送モーター減速ギアC Reducing gear C. film advance motor 106 Reducing gear O AFモードSWカム AF mode SW cam 911 AF coupling shaft 夏蓋翰A Camera back shaft A 夏蓋韓B Camera back shaft B DX接点 DX contact レンズ着脱ビン Lens release pin 巻き戻し連結翰 Rewind coupling shaft スクリーン枠支持翰 Shaft. screen frame support バヨネット Bayonet シュー Shue リモートコネクターキャップ	### Reducing gear B. film advance motor 1	Reducing gear B. film advance motor	Reducing gear B. film advance motor 1 2 7 イルム給送モーター減速ギアC Reducing gear C. film advance motor 1 2 106 Reducing gear C. film advance motor 1 2 106 Reducing gear O 1 2 2 3 4 4 4 5 5 5 5 6 5 6 6 6 6 6 6 6 6 6 6 6	### Reducing gear B. film advance motor 1	### Reducing gear B. film advance source support

	部品番号	補助番号	名 称	1台分 個数 Q'ty Per	部組品番号	参照 図書 Fig.	販売区分 Class. of Salabil-	備考	要求単位 Order Unit
	Part No.	Ckt No.	Name	Unit	Assembly	Na	ity	Remarks	Q' ty
	1K467-157	470	シンクロキャップ Sync cap	1		10	0		5
	*1K600-537		レンズ着脱板		18990-763	+-		RP-9457 F-801S	
ŀ	1K611-887	442	Lens release plate	1		5	ΟΔ		5
	*1K600-762	282	圧接ゴム Press-contact rubber	6		10	0	F-801S	10
	*1K600-763	283	圧接押さえ板 Press-contact retainer plate	3		10	0	F-801S	10
	*1K600-765	286	AF接点FPC圧接板 FPC press-contact plate	1		9	0	F-801S	10
	*1K600-766	287	AF接点FPC圧接ゴム FPC press-contact rubber	2		9	0	F-801S	10
	*1K600-767	288	AF基板FPC圧接板 FPC press-contact plate	1		9	0	F-801S	10
	*1K600-772	428	ペンタ押さえシート Pentaprism retainer sheet	1		8	0	F-801S	5
	1K601-199	175	実装カバー板 Cover plate	1		10	0		5
	1K601-201	224	裏蓋開閉キーロックレバー Lever. camera back open/close key lock	1		3	0		5
	1K601-226 1K117-636	684	網箱シート Tpae. copper foil	ı	,	13	ОΔ	RP-93F9 製技92F-2060参照の 事	5
	*1K611-102	413	チタン板 Titanium plate	1		9	0	F-801S	5
	*1K611-103-1 (1K611-103)	425	视野枠 Viewfield frame	1		8	0	F-801S	5
	*1K611-104	426	ペンタ押さえ板 Pentaprism retainer plate	ı		8	0	F-801S	5
	*1K611-123-1 (1K611-123)	345	アオリ防止板 Flop preventative plate	1	18990-763	6	ΟΔ	F-801S	5
ŀ	*1K6TT-165 *1K611-165-1	622	板バネ Plate	1	18999-517	14	ОΔ	F-801S RP-9283 製技『92F- 2055』李熙	5
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部品番号 Part No.	補助番号 Ckt No.	名称	1台分 個数 Q'ty Per	部組品番号	参照 図番 Fig.	販売区分 Class. of Salabil-	備考	要求単位 Order Unit
	UK (NO.	Name	Unit	Assembly	No.	ity	Remarks	Q' ty
*1K611-277	633	板パネ	1	1B999-517	14	ОД	F-801S	5
	ļ	Plate		<u> </u>	ļ	<u> </u>		
1K611-790	36	グリップ	1	1	10	0		5
		Grip	<u> </u>					"
1K611-794	221	裏董開閉キー板						
	421	Camera back open/close key plate	1		3	0		5
1K611-795		吊環 (グリップ側)				_		<u> </u>
	231	Neckstrap ring (Grip side)	1		1	0		5
1K611-796		吊環(巻き戻し側)			 			
	232	Neckstrap ring(Film rewind side)	1		1	0		5
1K611-810	 	AEロックスライダー板						
010	554	Plate, AE lock slider	1		12	0		5
1K611-813				12000 517				
14011-919	609	裏畫爪	1	1B999-517	14	ΟΔ		5
	ļ	Camera back latch						
1K611-814	663	グリップ導電板	1		10	0		5
·		Grip conductive plate	· · · · · · · · · · · · · · · · · · ·					
1K611-833	639	静電気対策用ラグ板A	1	1B990-794	,,	ΟΔ		-
	300	Lug plate A			11			5
1K611-834	640	静電気対策用ラグ板B		1B990-763			RP-9335 「製技92F-	_
	640	Lug plate B	-		7	- ΟΔ	2070参照」	5
1K611-835		静電気対策用ラグ板C				_		
	641	Lug plate C	1		1	0		5
1K611-880		曲げ板					RP-93F9	
	2901M	Bent plate	1		8	0		5
1K611-001							Do occur	
~ 1K611-881	638	TTL-FPC 押さえ板	i			0	RP-9355 「製技92F- 1033季照」	5
		TTL-FPC retaining plate						
*1K620-153-1	422	スクリーン枠	1		8	0	F-801S	5
(1K620-153)		Screen frame						
1K625-131	293	A Fセンサー圧接基板	1		9	0		5
	200	Press-contact base plate						อ
*1K630-531	956	AFカップリングチューブ		18990-763			F-801S	_
	800	AF coupling tube	. 1		7	ОД		5
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部品番号	補助番号	名 称	1台分 個数	部組品番号	参照	販売区分 Class. of	# #	要求単位
Part No.	Ckt No.	Name	Q'ty Per Unit	Assembly	Fig.	Salabil- ity	備考 Remarks	Order Unit Q'ty
*1K630-544	400	F-F0パネローラー		1B990-763	_	<u> </u>	F-801S	
	485	F-Fo spring roller	1		7	ΟΔ		5
‡1K630-548-1	309	校りローラー	1	1B990-763	6	00	F-801S	
(1K630-548)	303	Aperture roller	1		0	ΟΔ		5
*1K640-636	913	AFカップリングカラー	1	1B990-763	5	ОД	F-801S	5
		AF coupling coller	ļ <u>-</u>		<u> </u>			
*1K641-099	923	AFカウンター円板	1	1B990-763	5	ОД	F-801S	5
	ļ	AF counter disk						
1K670-163	22	エプロン	1	1B990-763	7	ΟΔ		5
		Apron						<u> </u>
*1K680-892	190	DB接点カバー	1		1	0	F-801S	5
		Data back contact cover						
*1K680-896	39	宴養受けゴム	1		10	0	F-801S	5
41V000 007 0		Camera back cushion rubber	-					
*1K680-897-3	40	宴壺ヒンジカバー	ı		10	0	F-801S	5
(1K680-897-2) *1K680-981-1		Camera back hinge cover パトローネ受け		 			B core	
+11000-301-1	177	ハトロース支げ Film cartridge set mold	1		1	0	F-801S	5
1K681-542		フィルム給送モーター基板	-	· · · · · · · · · · · · · · · · · · ·				
11001 042	41	Film advance motor base plate	1		2	0		5
1K681-544		上地圧接基板						
	119	Press-contact base plate	1		4	0		5
IK681-546		F検知環	 					<u> </u>
	186	Film detecting ring	1		3	0		5
1K681-549		夏蓋開閉キーモールド座						
	220	Camera back open/close key mold base	1		3	0	·	5
1K681-551	201	圧接基板						-
	281	Press-contact base plate	1		3	0		5
1K681-554	421	プリズムボックス			8	0		,
	4 2.1	Prism box			°			l
1K681-558	454	表示系プロック保持脚A	1	1B990-763	7	ОД		5
		Display block supporter A				<u> </u>		J
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			<u> </u>					

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	部品香号 Part No.	補助番号 Ckt No.	名 称 Name	1台分 個数 Q'ty Per Unit	部組品番号 Assembly	参照 図書 Fig.	販売区分 Class. of Salabil-	備考	要求単位 Order Unit
	1K681-559	455	表示系プロック保持脚B	Unit	1B990-763	No.	ity O∆	Remarks	Q ty
	1K681-561	561	Display block supporter B 外部しCDハウジング	1	18990-802	12	Ο Δ		5
	1K681-562		LCD housing セルフ窓		18990-794				
	1K681-563	567	Self-timer window 禁光窓	1	18990-794	11	ОΔ		5
	1K681-564	568	Lighting window 吊り環カバー	1		11	ΟΔ		5
_		569	Neckstrap cover	1		10	0		5
Δ	1K999-150		カバー板 Cover plate	1			0	RP-9444	5
Δ	1K999-151		ワッシャー Washer	1			0	RP-9444	5
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部品香号	補助番号	名 称	1台分 個数	部組品香号	参照	販売区分 Class. of	僧考	要求 Order
Part No.	Ckt No.	Name	Q' ty Per Unit	Assembly	Pig.	Salabil- ity	Resarks	Unit Q'ty
* QT0008AS08	1084	トライアック Triac	2	1S020-084 1B990-802	12	ΟΔ	F-801S	ļ
JA000812302	1055	I C IC (S-81230AG-RB-T1)	1	18990-802	12	OΔ		!
15050-034	1021	DC-DCコンパータ DC-DC converter	1	18990-764	9	ΟΔ		!
15190-018 15190-022-5	1041	CPU. 1 C CPU. IC (µPD78P238GC-389)	1	18990-764	9	04	89-9397 「紅技93F- 1016参照」	!
15190-019 15190-023-5	1042	CPU. IC CPU.IC (µPD78P214GC-AB8)	1	18990-764	9	ОΔ	RP-9397 「製技33F- 1016参照」	!
18190-020	1043	CPU. IC CPU.IC (µPD75308GF)	1	18990-802	12	ОΔ		•
15205-099	1050	EEPROM EEPROM (μPD6254GS-BA1-T1)	1	18990-764	9	04		
1\$205-100	1051	EEPROM EEPROM (M6M80041AFP)	1	18990-764	9	Ο Δ		5
15208-001	1049	1 C IC (μ PD77225GB-387)	1	18990-812	10	Ο Δ	RS	5
1S223-003	1052	Ι C (μPD16804GS-T1)	1	18990-764	9	ΟΔ	RP-9434 製技資料93P-2033	5
1\$223-006		(μPD16805GS)				0	1-以情報94-20 参照	
15223-005	1053	I C IC (μPD16805CS-T1)	1	18020-079	2	ОΔ		5
1\$237-071	1046	I C IC 0/52926FP)	1	18990-764	9	ОД		5
1\$237-072	1047	I C IC (052927FP)	1	18990-764	9	04		5
1\$260-055	1035	セルフLED Self LED	1	18990-802	12	ОД	TW-200M 105	5
1\$268-032	560	外部LCD External LCD	1	18990-802	12	ΟΔ		5
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部品香号	補助香号	名 称	1台分	部組品書号	参照	販売区分 Class. of	備考	要求単位 Order
Part No.	Ckt No.	Name	Q ty Per Unit	Assembly	Fig.	Salabil- ity	Remarks	Unit Q'ty
1\$380-012	1028	発振子	1	1B990-764	9	ОД		5
		Oscillator (12MHz)						
1\$380-013	1030	発展子	1	18990-802	12	ОД		5
		Oscillator (4.194Hiz)						<u> </u>
1\$380-015	1029	発展子 Oscillator (8Mfiz)	1	1B990-764	9	0Δ		5
15382-044		NSC111ator (Senz)	-	18990-802				
	1031	Oscillator (32KHz)	1		12	ΟΔ		5
15409-013		エラスティックコネクター		18990-802				
	563	Elastic connector	2		12	ОΔ		5
*1S542-005	1033	圧電ブザー	1	18990-794	11	ОД	F-801S	5
	*****	Buzzer						
15602-030	903	AFモーター	1	1B990-763	5	ОД		5
		AF motor						
1\$622-002-1 (1\$622-002)	139	Solomid Solomid	1	18990-808	4	OΔ	F-801S RP-9355 「製技92F-	5
10000 000		Solenoid		10000 000	\Box		3023年11	<u> </u>
1\$680-009	1038	トランス Trans	1	1B990-802	12	Ο Δ		5
15700-353		AEロック基板		18990-794				
	558	AE lock base plate	1		11	ОΔ		5
15700-355	Emv	裏打ち板		1B990-794			·	
	576	Backing plate	1		11	ΟΔ		5
15758-022	492	AFロックSWゴム	1	18990-763	7	ΟΔ	F-801S	5
		AF lock SW rubber			•			<u> </u>
15758-037	545	常出補正/RラバーSW	1		12	0		5
		Exposure compensation rubber SW						-
15758-038	553	イルミラバーSW	1		12	0		5
15758-020		Illumination rubber SW 祝姫モード知ラバーSW	<u> </u>					*
15758-039	565	利用モード知フバーSW Focus area button SW	1		12	0		5
15758-040	· 582	巻き戻し側設定知ラバーSW Rewind-side setting button rubber SW	1		12	0		5
15999-100		ソレノイド		1B990-808	一一		RP-9355 「製技92F-	•
1\$999-102		Solenoid	1	18990-808-1	4	ΟΔ	2068季熙日 松-9443	1
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部品番号	補助番号	名	称	1台分 個数 Q'ty Per Unit	部組品番号	参照 図書 Fig.	Salabil-	備考	要求単位 Order Unit
Part No.	Ckt No.	Name	-	Unit	Assembly	No.	ity	Remarks	Q' ty
18811-569	1197	Lead wire L=30	(brown)	ı	18990-787		×	W-0056BN	1 roll
IS811-570	1198	Lead wire L=25	(blue)	1	1B990-787		×	W-0056BE	1 roll
IS811-571	1199	Lead wire L=30	(orange)	1	1B990-787		×	W-00560R	l roll
15811-572	1200	Lead wire L=30	(black)	1	18990-787		×	W-0056BK	1 roll
1\$811-573	1201	Lead wire L=45	(red)	1			×	W-0080RE	l roll
15811-659	1202	Lead wire L=80	(blue)	1	18990-917		×	₩-0056BE	l roll
1\$811-660	1203	Lead wire L=40	(black)	1	1B990-827		×	₩-0056BK	1 roll
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部品番号 Part No.	補助番号 Ckt No.		1 台分 個数 Q'ty Per	部組品番号	参照 図書 Fig.	Salabil-	備考	要求単位 Order Unit	
	UKI NO.	Name	Unit	Assembly	No.	ity	Remarks	Q' ty	
IG480-041	G11	測光用集光レンズ Metering lens	1		8	0		5	
16550-036	G 2	サブミラー Sub-mairror	1	1B100-639 1B990-763	6	ОД		5	
16571-006	GI	主ミラー Main mirror	1	1B100-639 1B990-763	6	ОΔ		5	
16950-074	G 3	スクリーン Screen	1		8	0		5	
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部品番号	補助番号	名称	1台分 個数 Q ty Per	部組品番号	参照 図番 Fig.	Salabil-	備考	要求単位 Order Unit
Part No.	Ckt No.	Name	Unit	Assembly	No.	ity	Remarks	Q' ty
A1-14014FA	701	Screw	1		8	0		50
AI-17016FB	714	Screw	2	18990-763	1.6	ОД		50
A1-17025FB	706	Screw	4	1B990-763	7	ОΔ		50
A1-17030FS	702	Screw	5	18990-763	7. 13	ΟΔ		50
AI-17050FS	709	Screw	3		10	0		50
A1-20050FS	712	Screw	ı		ı	0		50
A2-17028FA	726	Screw	5	18990-763 18990-802	5. 12	ОД		50
A2-17060FA	727	Screw	1		2	0		50
B1-14018FB	716	Screw	6	18990-763 18990-808	4. 5 6. 9	ОΔ		50
B1-14020FA	718	Screw	1		10	0		50
B1-14020FB		0.	_			_	RP-9378 「製技93F-	
B1-14014FA	715	Screw	2		4	0	2011参照。	50
B1-17016FB	719	Screw	4	1B990-763	6	ОД		50
B1-17030FA	720	Screw	6	1B990-763	6. 10	ОΔ		50
B1-17040FA	722	Screw	2	i	8	0	RP-9283 「製技92F- 2059参照」	50
B1-17055FA	721	Screw	<u>l</u>	1B990-802	12	ΟΔ		50
								

補助番号	名 称	1台分個数	部組品番号	参照図書	販売区分 Class. of	備考	要求単位 Order
Ckt No.	Name	Q'ty Per Unit	Assembly	Fig. Na	Salabil- ity	Remarks	Unit Q'ty
728	Screw	3		3	0		50
732	Screw	ı		10	0		50
733	Screw	5	1B999-517	1.8 14	ΟΔ		50
734	Screw	3		1	0		50
736	Screw	3		13	0		50
735	Screw	1		i	0		50
737	Screw	2	1B999-517	14	ОД		50
738	Screw	1		1	O,		50
741	Screw	1		2	0		50
744	Screw	4		10. 13	0		50
743	Screw	6		10	0		50
745	Screw	3		10	0	·	50
746	Screw	2		i	0		50
761	Screw	7	18990-802	3. 4 12	ОΔ		50
762	Screw	2		10	0		50
							!
	728 732 733 734 736 735 737 738 741 744 743 745 746 761	Ckt No. Name 728 Screw 732 Screw 733 Screw 734 Screw 735 Screw 737 Screw 738 Screw 741 Screw 743 Screw 745 Screw 746 Screw 761 Screw	Ckt No. Name Q* ty Per Unit 728 Screw 3 732 Screw 1 733 Screw 5 734 Screw 3 735 Screw 1 737 Screw 1 738 Screw 1 741 Screw 4 742 Screw 6 743 Screw 6 745 Screw 2 761 Screw 7	Ckt No. Name G ty Per Unit Assembly 728 Screw 3 732 Screw 1 733 Screw 5 734 Screw 3 736 Screw 3 737 Screw 1 738 Screw 1 741 Screw 1 744 Screw 4 743 Screw 6 745 Screw 2 761 Screw 7	Ckt No. Name G ty Per Unit Assembly Fig. No. 728 Screw 3 3 732 Screw 1 10 733 Screw 5 18999-517 1.8 14 1 1 1 736 Screw 3 1 1 737 Screw 1 1 1 1 737 Screw 2 18999-517 14 738 Screw 1 1 1 741 Screw 1 2 1 744 Screw 4 10 13 743 Screw 6 10 13 745 Screw 2 1 1 761 Screw 7 18990-802 3, 4 12	Ckt No. Name Q ty Per Unit Assembly Na Fig. Na lability 728 Screw 3 3 ○ 732 Screw 1 10 ○ 733 Screw 5 18999-517 1.8 ○△ 734 Screw 3 13 ○ 735 Screw 1 1 ○ 737 Screw 2 18999-517 14 ○△ 738 Screw 1 1 ○ 741 Screw 1 2 ○ 744 Screw 4 10 ○ 743 Screw 6 10 ○ 745 Screw 2 1 ○ 746 Screw 7 18990-802 3, 4 ○△ 761 Screw 7 18990-802 3, 4 ○△	Ckt No. Name Q'ty Per Unit Assembly Fig. No. Salability Remarks 728 Screw 3 3 ○ 732 Screw 1 10 ○ 733 Screw 5 18999-517 1.8 ○△ 734 Screw 3 1 ○ 735 Screw 1 1 ○ 737 Screw 1 1 ○ 738 Screw 1 1 ○ 741 Screw 1 2 ○ 744 Screw 4 10 ○ 743 Screw 6 10 ○ 745 Screw 2 i ○ 746 Screw 2 i ○ 761 Screw 7 18990-802 3.4 ○△

部品番号	補助番号	名 称	1 台分 個 数	部組品番号	参照	販売区分 Class. of	備考	要求単位 Order
Part No.	Ckt No.	Name	Q'ty Per Unit	Assembly	Fig. Na	Salabil- ity	Remarks	Unit Q'ty
G2-17035FB	765	Screw	2		2	0		50
G2-17045FA	763	Screw	5		12	0	RP-9355 「製技92F- 2055参照」	50
H1-17025FB	750	Screw	1		2	0		50
HI-17040FA	751	Screw	2		10	0		50
HI-17045FB	752	Screw	7		1. 2 3. 4	0		50
H1-17050FB	753	Screw	2		4	0	17	50
H3-20055FA	766	Screw	2		1	0		50
S1-00700SY	821	E-ring	1	1B990-763	5	ΟΔ		50
S1-01200SX	822	E-ring	2	18990-763 18990-772	6, 7	ОД		50
S1-01500SX	823	E-ring	5	1B990-794	11	ОΔ		50
T2-01500SX	832	Ball	1	1B990-794	11	ОД		50
			·					
								111111111111111111111111111111111111111

部組香号	補助番号	名 称	1台分 個数 Q'ty Per	大部組品香号	参照 図書 Fig.	横考	要求 Orde
Part No.	Ckt No.	Name	Unit	Main assembly No.	No.	Remarks	Unit Q'ty
*1B001-755-1	B603	圧板 Pressure plate	1		14	F-801S	
*1B001-784	B2301	I 基板 Base plate I	1	18990-763	6	F-801S	
*1B001-787-1 (1B001-787)	B940	AFモードSW Focus mode SW	1	1B990-763	5	F-801S	
*1B001-996	B936	A F 継レバー基板 AF lever	1	1B990-763	5	F-801S	
18002-042	B467	リモートコネクター Remote connector	1	1B990-763	5		
*1B060-370-1	B32	フィルム給送モーター Film advance motor unit	1		2	F-801S	
18060-511	B380	絞りMg基板 Aperture Mg base plate unit	1	1B990-763	6		!
1B060-513 1B060-513-1	B31	シャッター組品 Shutter unit	1		1	RP-9444	
*1B240-064-1 (1B240-064)	B522	電子ダイヤル接片座 Electrical dial contact unit	1	18990-802	12	F-801S	,
*1B240-068	B95	電池室SW組 Switch contact, battery house	1		2	F-801S	ţ
1B240-096	B533	レリーズSW接片 Release SW contact unit	1	18990-802	12	-	·
*1B314-160	B321	シャッターレリーズレバー Shutter release lever	1	18990-763	6	F-801S	Ę
*1B400-001-2 (1B400-001-1)	469	シンクロターミナル Sync terminal	1	18990-763	5	F4	5
*1B610-035-2 (1B610-035-1)	B474	AF接点 AF contact unit	1	18990-763	6	F-801S	5
*1B990-311-1 (1B990-311)	B258	電池場子板C Battery terminal plate C	1		13	F-801S	5
							

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AUG. 12. 1994

部組品表	Assembly	List
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	都租署号	補助番号	名称	1台分 個数	大部組品書号	参照 図書 Fig.	備考	要求単位 Order Unit
	Part No.	Ckt No.	Name	Q'ty Per Unit	Main assembly No.	No.	Remarks	Q ty
	1 19900-313-1 (18990-315)	B263	電池接点B	1		1	F-801S RP-9470	5
	18990-313-2		Battery contact B		18990-763		F-801S	
	* 18990-314-1 (18990-314)	B331	数り増速ギア Aperture accelerating gear	1	10220_100	6	r-6013	5
	* 1B990-315-1		校りラチェット		18990-763		P-801S	
	(1B990-315)	B335	Aperture latchet	1		6		5
	* 18990-328-1 (18990-328)	B482	F-Fo連動環	1	18990-763	7	F-801S	5
			F-Fo coupling ring		10000.700		P. co. c	
	18990-329-1 (18990-329)	B503	AF-M切替SW Focus mode SW unit	1	18990-763	6	F-801S	5
	* 1B990-331-1		電子ダイヤルパターン基板		18990-794		F-801S	_
:	(1B990-331)	B514	Electrical dial pattern plate	1		13		5
	* 18990-337-1 (18990-337)	B906	フリクションギア	1	18990-763	5	F-801S	5
			Friction gear					
	18990-761	B252	電池ホルダー亜 Battery holder cover unit	1		13		5
	1B990-763		的板					
		B26	Front plate	1		5.6 7		1
	1B990-764	R2001	メインFPC	1		9		1
		B2001	Main F.P.C unit	•				
Δ	18990-765	B1014	BIOL4 基板	1		9	RP-9283 RP-9434 『製技資料 93F-2033、補足説明94-	1
	18990-766		BIOL4 Base plate ミラーBOX底板				83F-2033. 18 JEEK-7/54	20 1
	[8390-100	B420	Mirror box bottom plate	1		8		5
	18990-767	Poses	AFセンサー組	1		9		1
		B2401	AF sensor unit	'		Ŀ		•
	18990-770	B486	F-Fo抵抗基板	ı	18990-763	7		5
	12000 770		F-Fo resistance base plate		18990-763			
	18990-772	B235 0	紋り込み基板 Manual aperture base plate	1	10390-100	7		5
	18990-777		L基板		18990-763			•
		B400	Base plate L	1		6		1
		<u> </u>		<u> </u>	L	ــــــــــــــــــــــــــــــــــــــ	lun lun	021 1004

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	部組香号	補助番号	名 称	1台分個数	大部組品香号	参照	備考	要求単位 Order
	Part No.	Ckt No.	Name	Q'ty Per Unit	Main assembly No.	Fig.	Remarks	Unit Q'ty
۵	18990-779	B342	紋りフォトインタラプタ	1	18990-763	6	RP-9472	5
	18990-779-1		Aperture control P.I retainer	•		, °		3
	1B990-782	B1004	AF基板FPC	1	1B990-763	5		5
			AF base plate FPC unit			Ļ.		
	1B990-787	B924	AFフォトインタラブタ	1	18990-763	5		5
	12000 200	<u> </u>	AF photo interrupter					
	18990-788	B930	AF横レバー基板	1	18990-763	5		5
	10000-700		AF transverse lever plate AF接点FPC	 	1000 700			
	18990-789	B1003	AF 接点F PC AF contact F.P.C unit	1	1B990-763	6		5
ł	1B990-791		ださ戻し倒ゴム					
	-2000 .01	B38	Rubber (Rewind side)	1		10		5
ł	1B990-792		グリップゴム					
		B37	Grip rubber	1		10		5
Ì	1B990-794	2000	上カバー					-
		B023	Top cover	1		11		1
	1B990-795	B023	上カバー (N 9 0)			,.	FAA28151	•
	1939U-183	DUCS	Top cover (N90)	1		11		1
	18990-798	B566	LCD2			12	RP-9355	5
			LCD window					
1	18990-799	B543	電源SW	,	18990-794	11		5
			Power SW					
	18990-800	B572	シュー座	ı	1B990-794	11		5
-			Shue base unit					
	18990-801	B591	アイピースシャッター	1	18990-764	11		1
-	10000 000		Eyepiece shutter unit					
	1B990-802	B3007	上カバーFPC部組 PC wit for too seven	1		12		1
ŀ	1B990-608		FPC unit for top cover 上地板				RP-9355	
+	18990-808-1	82110	Upper base plate	1		4	rr = 2000	1
-	18990-812		表示系プロック部組					
		B2452	Display block	1		10		1
						ļ		
					ļ		13-77	
-	0	1 44 5 \ 4		·			センター -	

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-P27·F-90 - RP-INF. NO. 9472

DEC. 1.1994

部組品表 Assembly List

部組署号	補助番号	名 称	1台分 個数 Q'ty Per	大都組品番号	多照 看阿 Fig	精芳	更求性 Order
Part No.	Ckt No.	Name	Q'ty Per Unit	Main assembly No.	Fig.	- Remarks	Unit Q ty
18990-815	D.F.	ライトガイド			T.,		1
	B453	Light guide	1		10		5
18990-818	D.ee~	表示ミラー基板			T.,		
	B457	Display mirror base plate	1		10		5
18990-820	Dros	受光素子ホルダー			10		
	B435	Sensor holder unit	ı		10		5
18990-821	Dec	フォトインタラプタ基板			1.		
	B66	P. I base plate	1		2		5
18990-824	p70	底基板ギア組					
	B70	Bottom base plate	1		2		1
18990-826	per	基準SW			_		_
	B60	Reference SW	1		2		5
18990-827	poen	電池接点A	1				Ε,
	B262	Battery contact A	1		1		
18990-828	Bien	巻き戻し基板					
	B160	Rewind base plate	1		3		5
18990-830	pen	宴童SW					_
	B92	Camera back SW	1		2		5
18990-831	2100	フィルムガイドローラー					
	B180	Film guide roller	1		3		!
18990-832	PO10	DX接点基板					
	B212	DX contact plate	1		1		1
18990-917	DC40	静電気アース板					_
	B642	Earth plate	1		1		5
18990-918	Para l	ロッド軸基板		18999-517			
	B612	Rod shaft plate	1		14		t
18999-152-2		電池ホルダーハウス				F-801S RP-9470	
(18999-152) 18999-152-3	BB251	Battery holder house	1 1	!	13	94 71020	1
18999-157-4		AF駆動基板		18990-763		F-801S	
(18999-157-3)	B901	AF base plate	1		5	·	t
18999-165-2		AF駆動ギア基板	<u> </u>	18990-763		F-801S	
(18999-165-1)	BB902	AF driving gear plate	1	'	5		1
	<u> </u>						
					1	ľ	

部組香号	補助番号	名 称	1台分 個数 Q'ty Per	大部組品番号	参照 図書 Fig.	備考	要求」 Order Unit
Part No.	Ckt No.	Name	Unit	Main assembly No.	Na	Remarks	Q' ty
1B999-516	BB100	シーケンスギア基板下地板 Film advance mechanism unit	1		4		
18999-517	BB601	及至 Camera back	1		14		
1B999-518	BB421	ペンタプリズム部 Pentaprism unit	1		8		1
1B999-531	B2391	主ミラー Main mirror holder	1	18990-763	6		
18999-532-1	B24	底カパー Bottom cover	. 1		13	ND入り	1
1B9 99-5 58	B33	シーケンス制御モーター Sequence control motor unit	1		4		
1B999-675		シャッター先幕組 Opening curtain	1			RP-9444	5
18999-709		シャッター後幕組 Closing curtain	1			RP-9444	5
1G014-049	LB5	接眼レンズ Eyepiece lens	1	•	8	·	1
18020-079	B1005	パワーFPC Power SW FPC unit	1		2		1
1\$020-084	B1011	R/T FPC R/T FPC	1	-	9		1
15020-097	B1036	EL都組 EL unit	1		12		1
15999-099	B1015	シーケンスエラー14基板 Sequence error 14 base plate	ı		2	RP-9283 「製技92F-20 69季無U	1
15999-102		ソレノイド Solenoid	1	18990-808-1	4	RP-9355	1
						(i-y)	
hange page	(差しも	替え)△× 2 -P	2 9 · F-90	_		パーツ センター M AUG. 1	

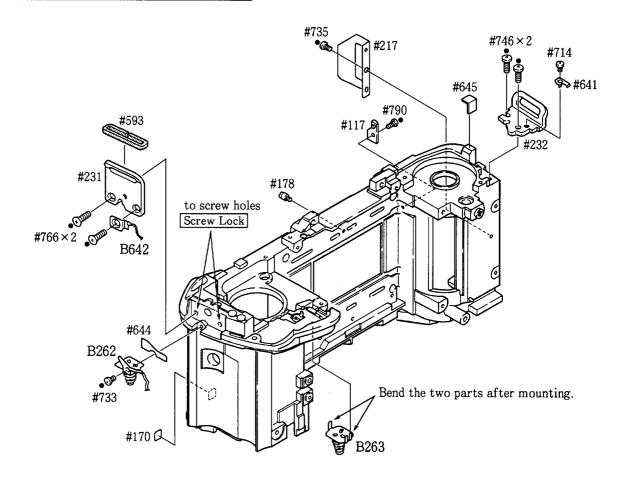
ASSEMBLING

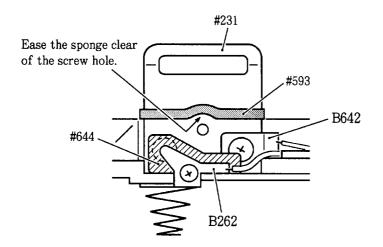
1. Rear body	
Small parts of rear body	A
DX contact unit	····· A
Film detection SW	····· A
Shutter unit	A
Power SW FPC	A
Camera back SW	A
Film advance motor base plate group	A
Battery holder release SW	A
Mount bottom base plate on film advance motor base plate group	····· I
Film advance base plate unit	····· 1
Soldering bridges, Arrange wire	······ 1
Film advance lever unit	1
Sequence gear base plate	
Mount film advance lever unit on sequence gear base plate	
Arrange wires of solenoid	
Press-contact plate	
Film advance PI	
Soldering wires on power SW FPC	
Rewind fork unit, Camera back lock releases	
2. Front plate	
Small parts of front plate	
AF driving unit	•••••••••••••••••••••••••••••••••••••••
AF contact FPC	······································
F-Fo base platé	 .
Apron, Lens mount	
Height adjustment of AF coupling shaft #911	······································
Checking of AF driving unit operation	······································
Mirror box	
1. Pasting main mirror and sub mirror	
2. I base plate to which grease should be applied and those to which springs should be	hooked ···
3. Mounting position of aperture ratchet gear B335	
4. Mounting position of shutter release lever B321	
5. Assemble I base plate, L base plate and mirror unit	
6. Attach aperture PI B342	
7. Adjustment of aperture Mg latch lever position	
8. Mount mirror box	

ASSEMBLING

1. REAR BODY

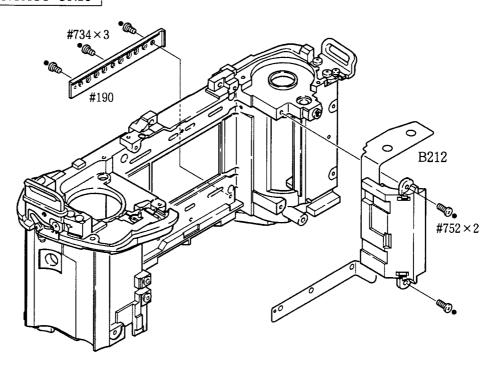
SMALL PARTS OF REAR BODY



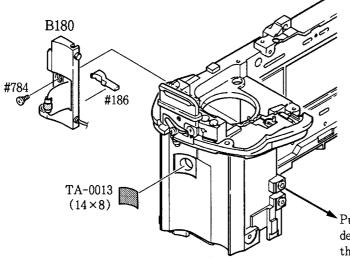


• Refer to the positions shown in the figure on the left when attaching sponge #593 and insulating sheet #644.

DX CONTACT UNIT



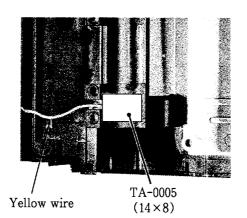
FILM DETECTION SW



Inspection: Connect the yellow wire from the film detection SW and the film guide screw #178 to the tester.

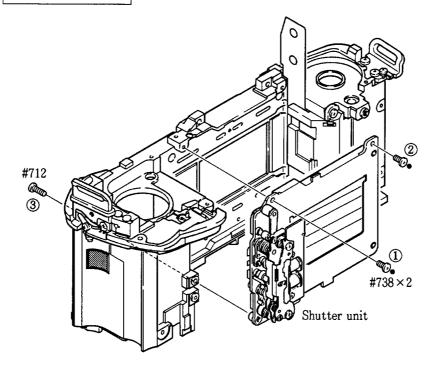
Make sure that the film detection SW will turn OFF when part #186 is depressed approximately 0.5mm.

Pull the yellow wire forward from the film detection SW, passing it through the hole in the body.



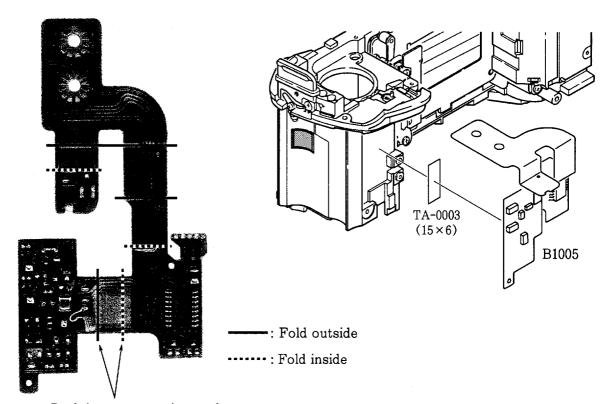
 Arrange wire of film detection SW as sown in the picture.

SHUTTER UNIT



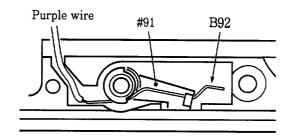
• Fasten screws #712 and #738×2 in the order from ① to ③.

POWER SW FPC

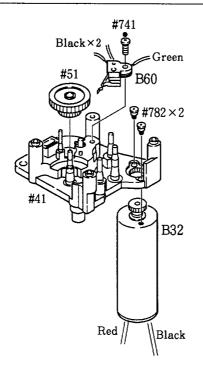


Bend the two parts using a rod with a diameter of 4mm.

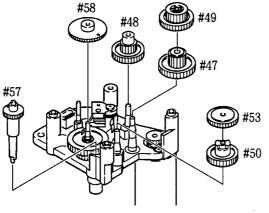
CAMERA BACK SW

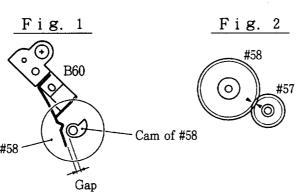


FILM ADVANCE MOTOR BASE PLATE GROUP



- Apply grease LEN317A to the five gear shafts of #41.
- Apply grease LEN317A to the gear #51.





- Apply grease LEN317A to each gear.
- Mounting order of the gears

#47

↓
#48 and #50

↓
#49

↓
#58 (Mount the gear at the position

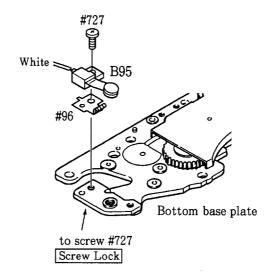
↓ as shown in Fig. 1.)
#57 (Mount the gear at the position

↓ as shown in Fig. 2.)
#53

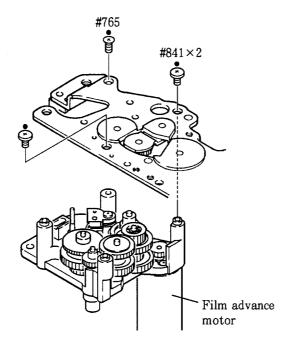
Note:

- ① Make sure that there is a gap between the cam and the contact of the B60 when cam of #58 is at the position as shown in Fig. 1.
- ② The marks (▲) on gears #57 and #58 should be aligned. (Refer to Fig. 2.)

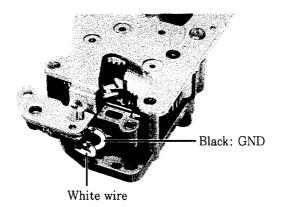
BATTERY HOLDER RELEASE SW



MOUNT BOTTOM BASE PLATE ON FILM ADVANCE MOTOR BASE PLATE GROUP

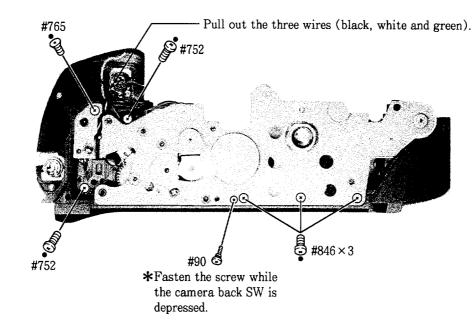


Inspection: Supply 3 to 5 volts to the film advance motor and check the operation of the gears and see if the motor generates any sound. Also check rotation in normal and reverse directions.



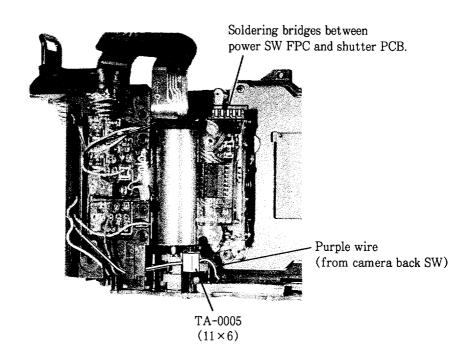
• Solder the short black wire (from the ref. SW) to the battery holder release SW.

FILM ADVANCE BASE PLATE UNIT

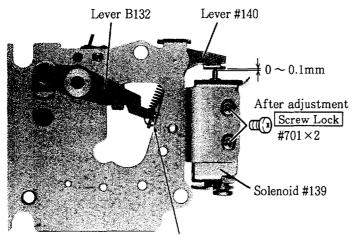


Note: Do not pinch the purple wire running from the camera back SW. Pull out the purple wire to the lens mount side.

SOLDERING BRIDGES, ARRANGE WIRE

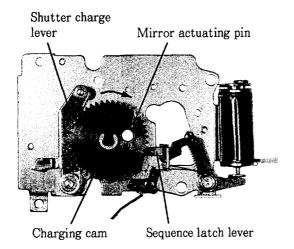


FILM ADVANCE LEVER UNIT



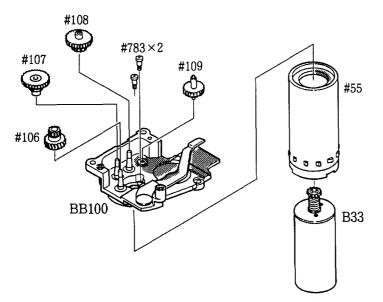
These levers are engaged.

- Mounting position of the solenoid #139
 - ① Mount solenoid #139 on the film advance lever unit with screws $\#701 \times 2$.
 - ② Adjust the position of the solenoid so that the gap between the solenoid and lever #140 is 0 to 0.1mm, when levers B132 and #140 are engaged as shown in the picture.
 - ③ After adjustment, disengage levers B132 and #140. Reengage them to check the gap between the solenoid and lever #140.
 - 4) Secure screws #701 × 2 with Screw Lock.



- Sequence starting position
 Rotate the charging cam so that the sequence latch lever drops into the cam groove and the shutter charge lever drops into the concave portion of the cam.
 - *The above position is the film advance lever unit set position when mounting on the sequence gear base plate and when aligning of the rear body and front plate together.

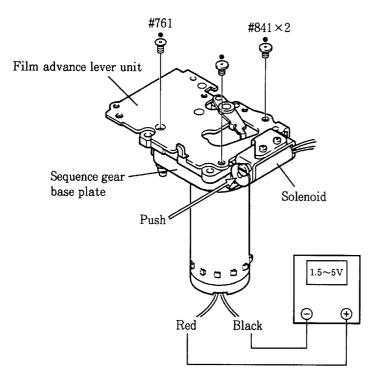
SEQUENCE GEAR BASE PLATE



- Where grease G7100 should be applied.
- ① Shaded part of BB100
- 2 Three gear shafts of BB100
- 3 Gear threads and the shaft of #109.
- Where grease LEN317A should be applied.

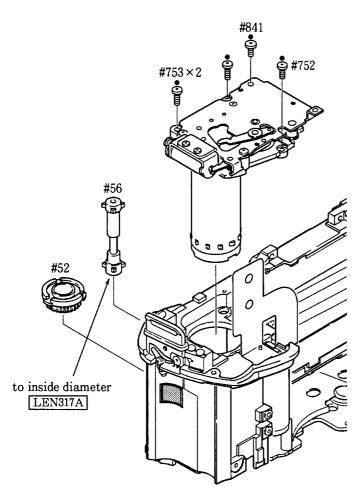
Shaded parts of #55 (about one forth of the surroundings.)

MOUNT FILM ADVANCE LEVER UNIT ON SEQUENCE GEAR BASE PLATE



- Set the sequence film advance lever unit to the sequence start position.
- Attach the sequence film advance lever unit to the sequence gear base plate with screws #761 and #841 × 2.

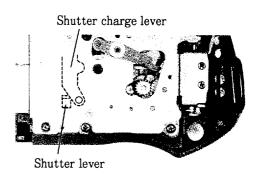
Inspection: Connect the sequence motor and the regulated DC power supply as shown in the figure. Supply 1.5 to 5 volts to the sequence motor and check the operation of the gears and the cam, while push the solenoid disk. After inspection, set the sequence film advance lever unit to the sequence start position again.



- Mounting on the rear body
 - ① Mount sprocket #56 and gear #52 on the rear body.
- ② Mount the sequence base plate on the rear body while keeping the spool chamber film roller to one side. Pass the two sequence motor wires through the bottom base plate side.

*Rotate the spool for easier mounting.

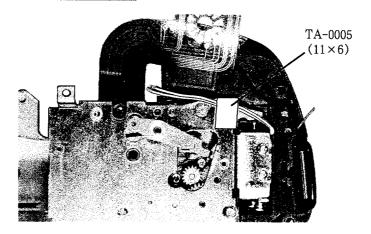
Note: The position of the shutter lever and the shutter charge lever should be as shown in the following figure.



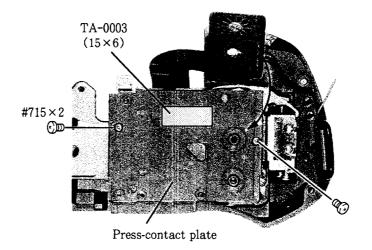
Inspection:

- ① The lower sprocket gear should rotate when the sprocket is rotated.
- 2 The sprocket should rotate smoothly.

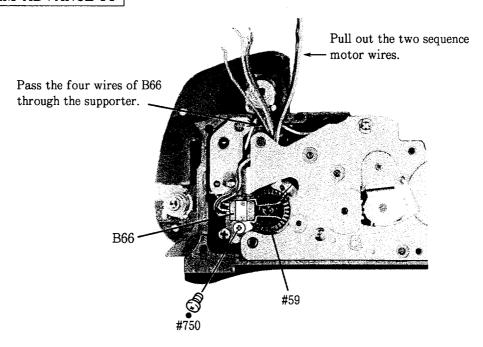
ARRANGE WIRES OF SOLENOID



PRESS-CONTACT PLATE

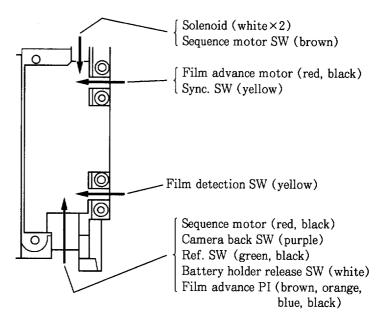


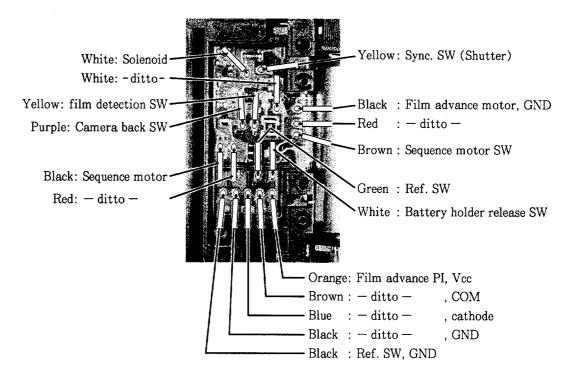
FILM ADVANCE PI

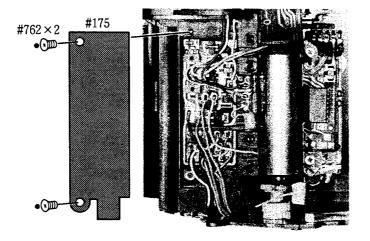


SOLDERING WIRES ON POWER SW FPC

• Pulled out position of each wire

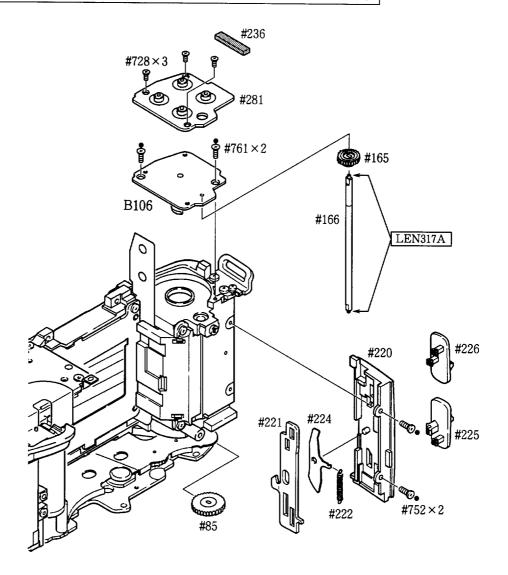


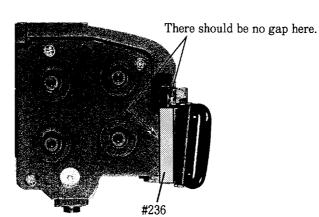




 After arranging each wire, attach the cover #175 with screws #762×2.

REWIND FORK UNIT, CAMERA BACK LOCK RELEASES

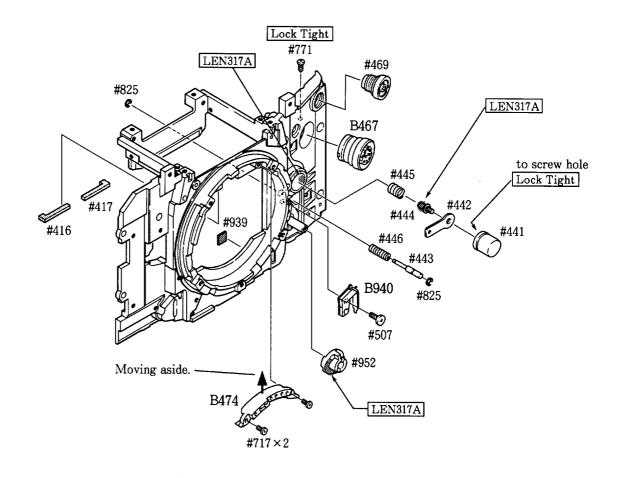




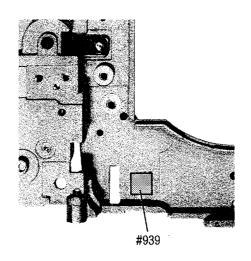
 Attach drip-proof sponge #236 to the position shown in the picture.

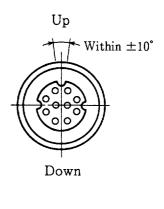
2. FRONT PLATE

SMALL PARTS OF FRONT PLATE

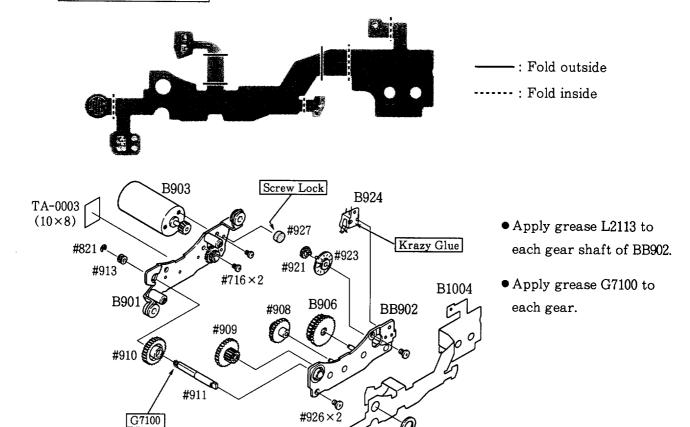


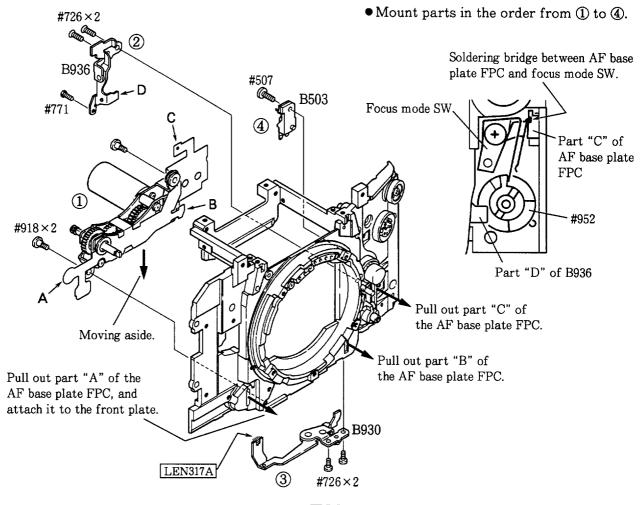
- Attaching position of rubber plate #939
- Mounting position of remoto connector B467





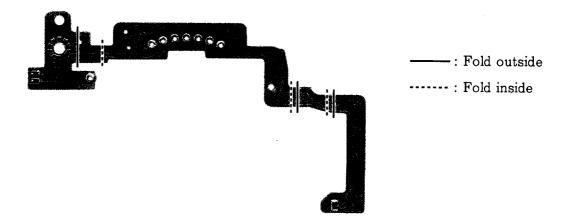
AF DRIVING UNIT

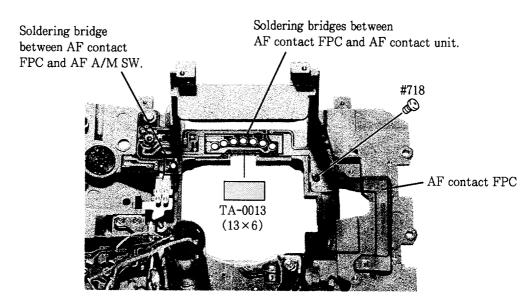




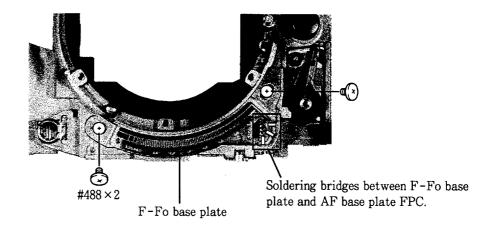
#938

AF CONTACT FPC

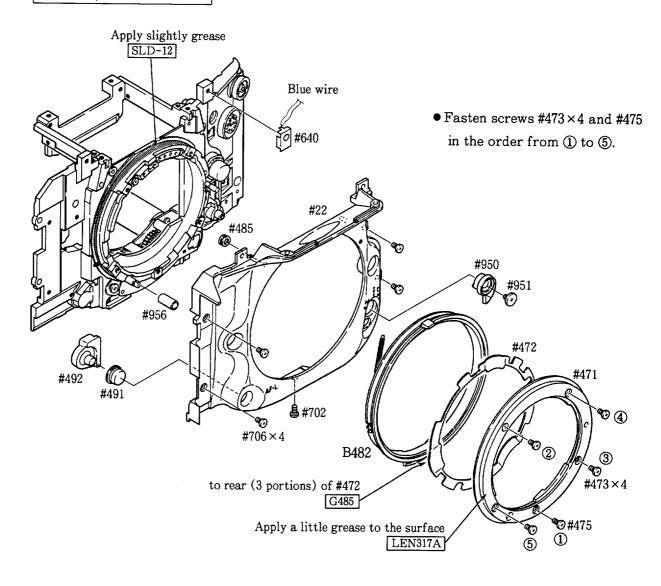




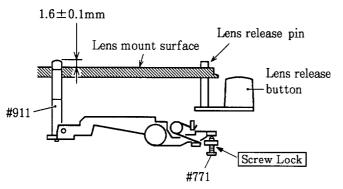
F-Fo BASE PLATE



APRON, LENS MOUNT



HEIGHT ADJUSTMENT OF AF COUPLING SHAFT #911



- ① Set the focus mode selector to "S" or "C". Measure the height of the AF coupling shaft #911 after pressing the lens release button several times.
- ② Adjust the height of the AF coupling shaft using screw #771.
- 3 The AF coupling shaft should not protrude over the lens mount surface, when the height of lens release pin is adjusted to 0.4mm.
- After adjusting, secure screw #771 with Screw Lock.

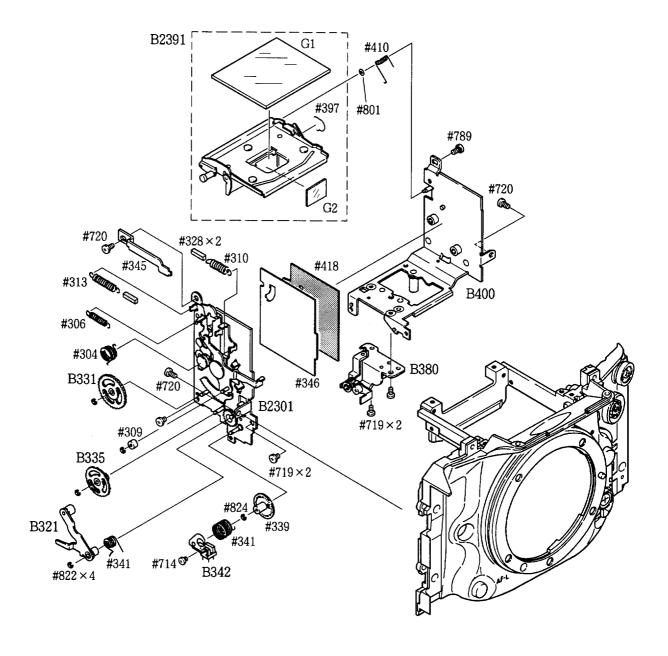
CHECKING OF AF DRIVING UNIT OPERATION

• Supply 1.5 to 5 volts to the AF motor to check its operation to check if any strange sounds are generated.

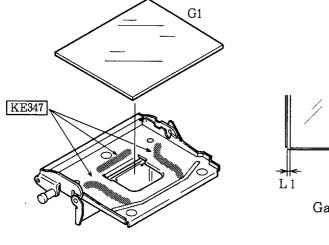
Check to see if the AF motor rotates in the nomal direction or in reverse.

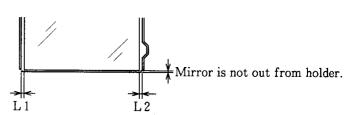
MIRROR BOX

• More details for assembling, refer to from next page.

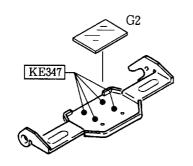


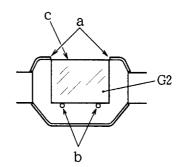
1. Pasting main mirror and sub mirror





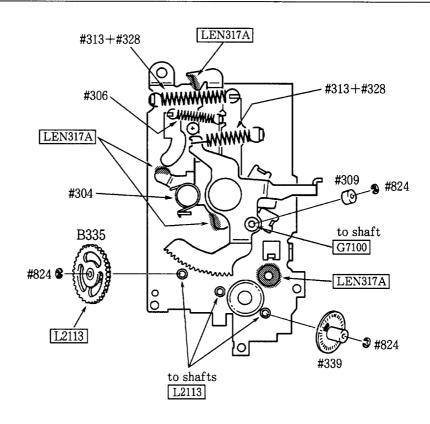
Gap of mirror and holder, L1 and L2 are equal.



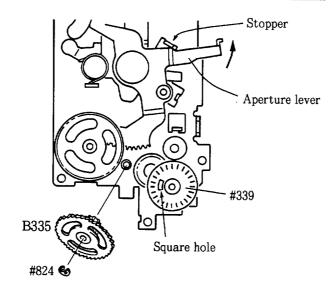


- ① Paste the sub mirror G2 by aligning the projecting part "b" with the notch "a".
- ② Spread black mat paint on side "c" of the sub mirror G2.

2. I base plate to which grease should be applied and those to which springs should be hooked

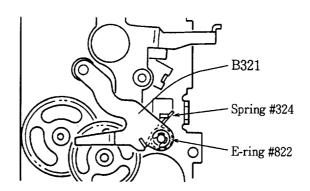


3. Mounting position of aperture ratchet gear B335

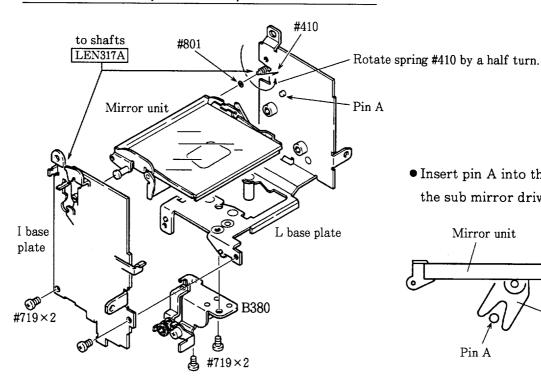


- 1 Move the aperture lever in the direction of the arrow and keep the lever in contact with the stopper.
- 2 Align the square hole of #339 to the position as shown in the figure (the base of the hole turns to the 8 to 9 o'clock direction).
- 3 In this state, mount the B335 unit.

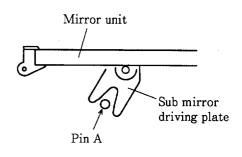
4. Mounting position of shutter release lever B321



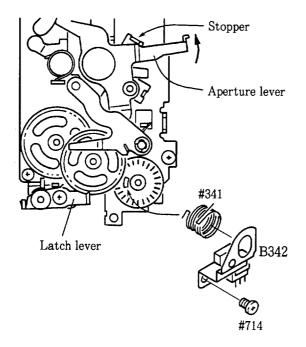
5. Assemble I base plate, L base plate and mirror unit



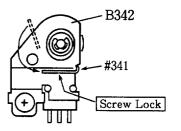
• Insert pin A into the notch of the sub mirror driving plate.



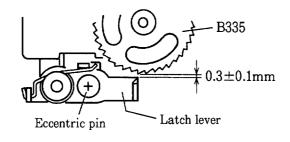
6. Attach aperture PI B342



- ① Move the aperture lever in the direction of the arrow and keep the lever in contact with the stopper. Secure the aperture lever with the latch lever.
- ② Mount spring #341 by inserting the shorter of the hooks into the square hole.
- 3 Attach aperture PI B342 with screw #714.
- ④ Hook the longer of the hooks to B342 as shown in the figure below. Secure the spring #341 with Screw Lock.



7. Adjustment of aperture Mg latch lever position



• Rotate the eccentric pin to adjust the gap between the aperture latchet gear B335 and the latch lever to 0.3 ± 0.1 mm.

After adjustment, secure the eccentric pin with Krazy Glue.

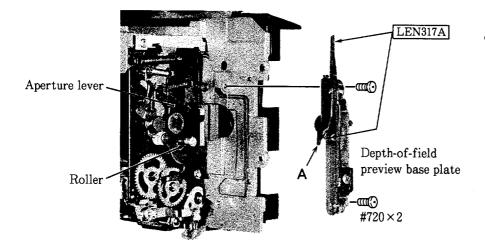
8. Mount mirror box

Fasten screws #720 × 3 and #789 in the order from ① to ④.

#345
#720 × 3

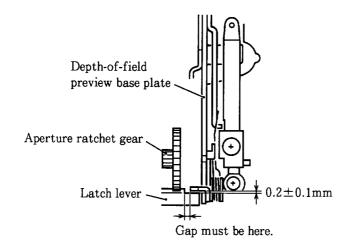
2

DEPTH-OF-FIELD PREVIEW BASE PLATE



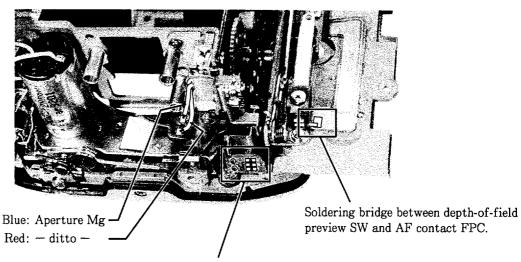
 Mount the Depth-of-field preview base plate so that part "A" sits much deeper than the roller of the aperture lever.
 Hold down the aperture

lever for easier mounting.



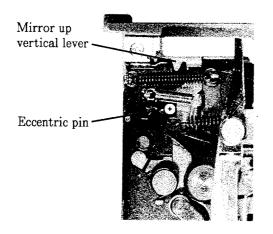
 Adjust the latch lever so that the Depth-of-field preview base plate comes to the position as shown in the figure on the left when the latch lever is engaged with the aperture latchet gear.

SOLDERING ON THE BOTTOM OF THE MIRROR BOX



Soldering bridges between AF base plate FPC and aperture PI.

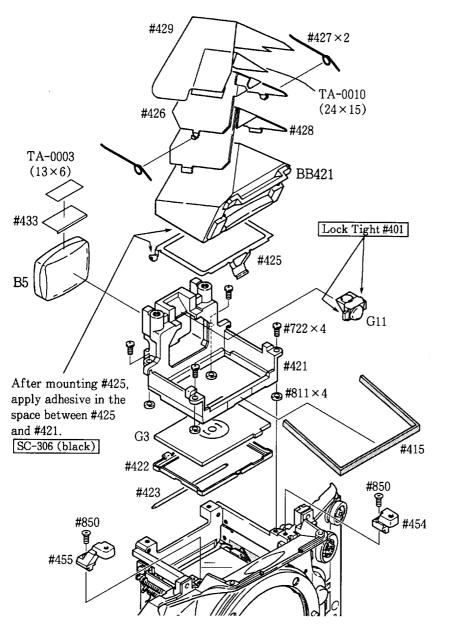
ADJUSTMENT OF APERTURE LEVER POSITION



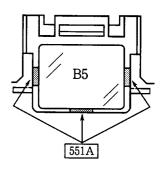
• Measure the height of the aperture lever using tool J18004. If the value is out of the standard value, rotate the eccentric pin to adjust it. After adjustment, move the mirror up vertical lever several times to check the height of the aperture lever.

Standard value: 3.4 +0.1 mm

PENTAPRISM, SCREEN BOX

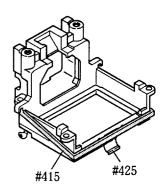


• Pasting eyepiece lens B5

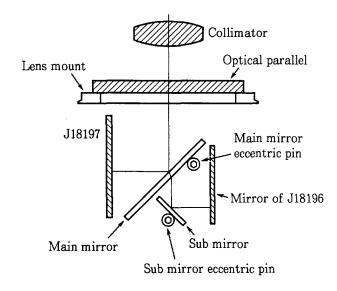


Caution: Do not spead adhesive on the lens surface of eyepiece lens B5 and condenser lens G11.

 Attaching position of sponge #415



ANGLE ADJUSTMENT OF MAIN MIRROR AND SUB MIRROR TO 45°



≭Use tools

- 1. Angle adjustment of main mirror
 - ① Collimator (J19002)
 - ② Mirror angle inspection mirror (J18197)
 - ③ Optical parallel
 - 4 Hexagonal wrench
- 2. Angle adjustment of sub mirror
 - ① Collimator (J19002)
 - ② Sub mirror angle adjustment tool (J18196)
 - 3 Hexagonal wrench
- Angle adjustment of main mirror to 45°

Note: Check to confirm the accuracy of the main mirror before and after adjustment by moving it up and down several times.

- (1) Checking the discrepancy (right/left)
 - ① If the amount of the discrepancy is out of the standard value, unfasten screws #720×3 and #789 (securing the mirror box) and move the top of the mirror box back and forth to adjust.
 - *Check also the discrepancy (right/left) of the sub mirror.
 - ② If the amount of the discrepancy (up/down and right/left) is over 10', it is possible that the lens mount spring #472 has been pinched.
- (2) Checking the discrepancy (up/down)

 If the amount of the discrepancy is out of the standard value, rotate the main mirror eccentric pin to adjust.
- Angle adjustment of sub mirror to 45°

Note: Check to confirm the accuracy of the main mirror before and after adjustment by moving it up and down several times.

(1) Checking the discrepancy (up/down)

If the amount of the discrepancy is out of the standard value, rotate the sub mirror eccentric pin to adjust.

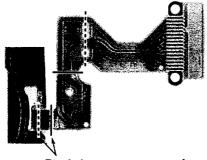
Standard:

	Main mirror	Sub mirror
Discrepancy (right/left)	Within ±20'	Within ±30'
Discrepancy (up/down)	Within ± 5'	Within ±10'
Distortion	Within ±8'	Within ±8'

ADJUSTMENT OF INFINITY (∞)

• Adjust the prism box washers #811 \times 4 so that subject at infinity (∞) comes in focus within the range of 0 \pm 0.05mm when using a reference lens J18010.

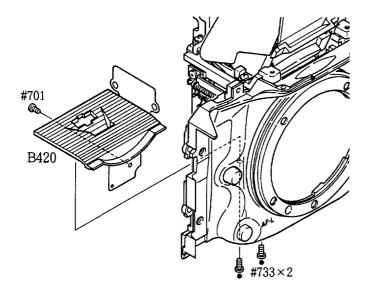
MIRROR BOX BOTTOM PLATE

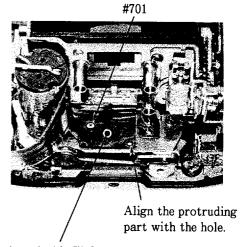


Bend these two parts 120°.

----: Fold outside

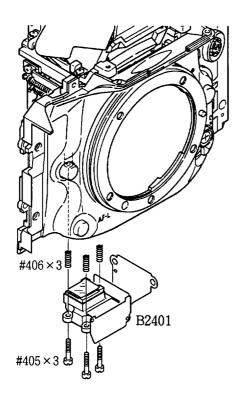
 Mount B420 while keeping the main mirror up. Pull out the TTL FPC through the hole in the mirror box.



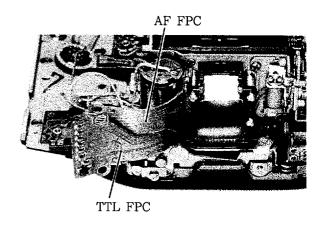


Attach this FPC to the AF driving unit with double coated adhesive tape.

AF FPC (AP3)

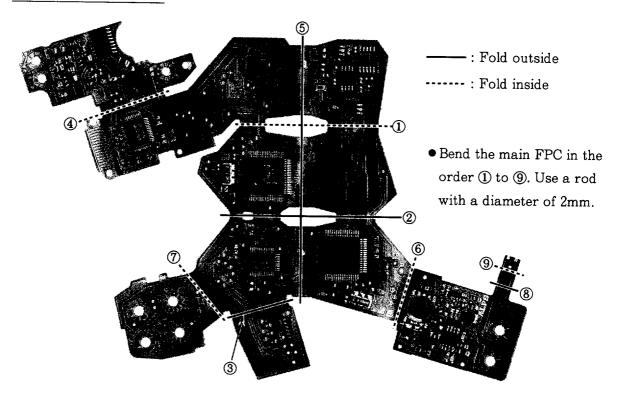


- Fasten screws #405 × 3 fully and then unfasten them two turns.
- As shown in the picture below, cross AF FPC with TTL FPC.

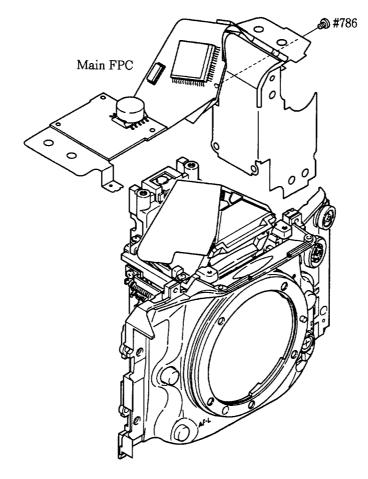


MAIN FPC

1. Bend the main FPC

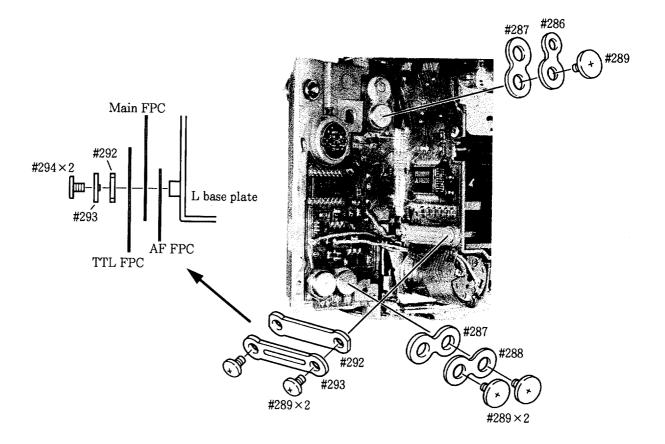


2. Attach the main FPC

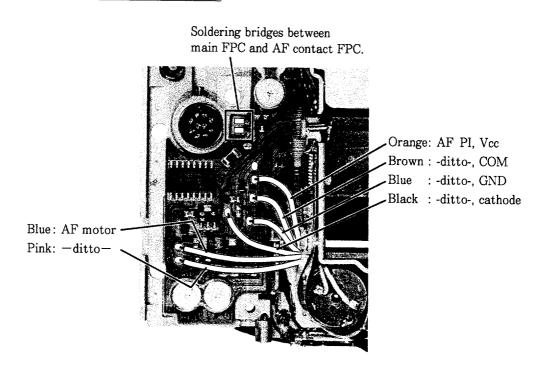


 Mount the prees-contact part of the AF FPC on the L base plate, before mounting the main FPC on the front plate.

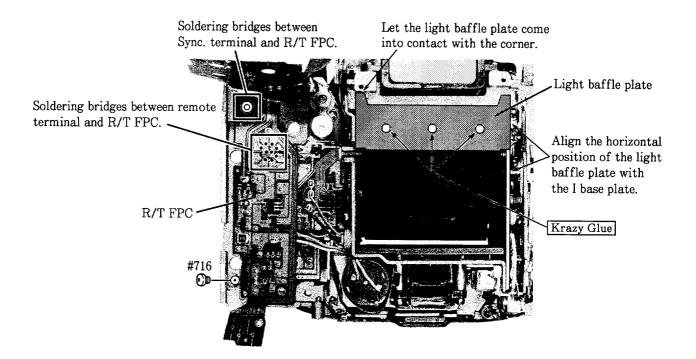
3. Press-contact



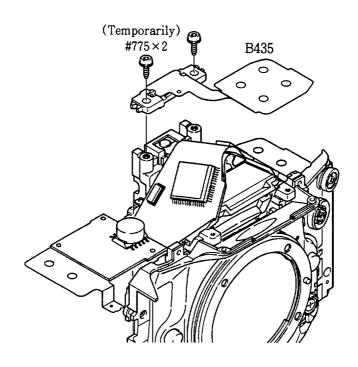
4. Soldering wires, soldering bridges



R/T FPC, LIGHT BAFFLE PLATE

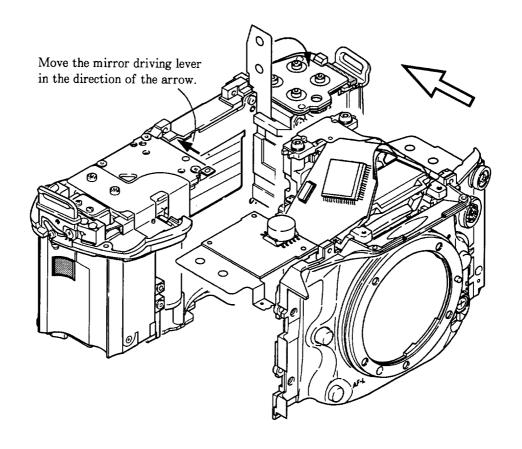


AE FPC (SPD)

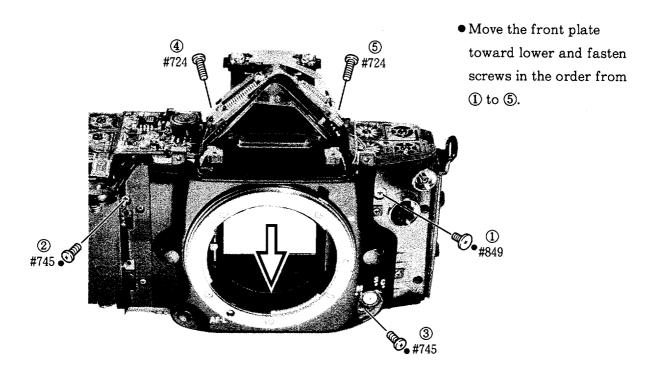


3. FRONT PLATE & REAR BODY

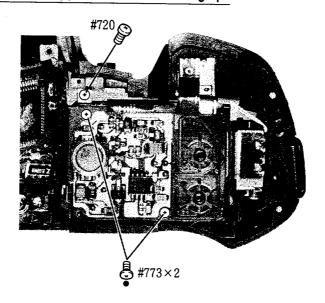
MOUNT FRONT PLATE ON REAR BODY



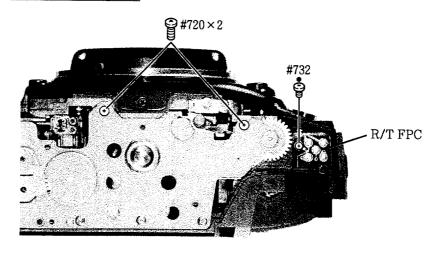
1. Attach screws



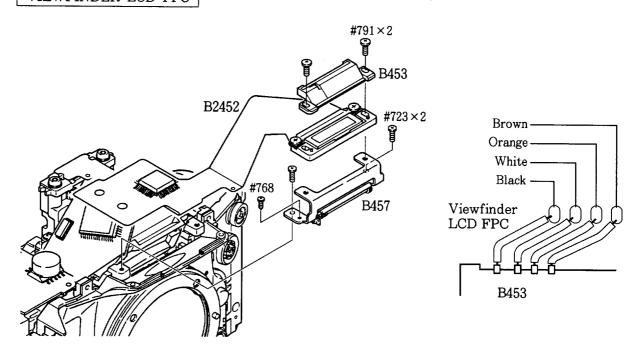
2. Attach screws on the upper side of the hand grip



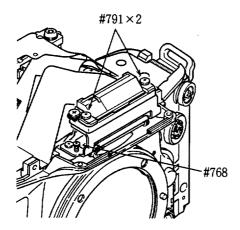
3. Attach screws on the bottom side



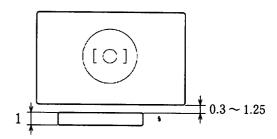
VIEWFINDER LCD FPC



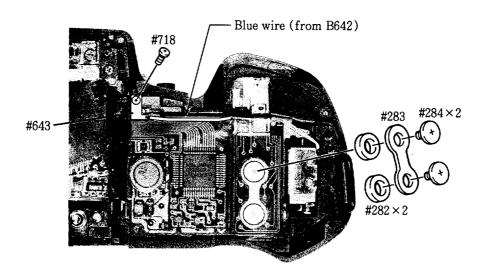
ADJUSTMENT OF VIEWFINDER LCD POSITION



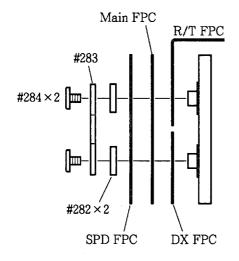
- ① Unfasten screws #791 × 2 and move the viewfinder LCD to adjust its inclination.
- ② When the height of the viewfinder LCD is defined as 1, rotate screw #768, adjusting so that the distance between the screen and the viewfinder LCD is 0.5 to 1.25. After adjustment, secure the screw #768 with Screw Lock.

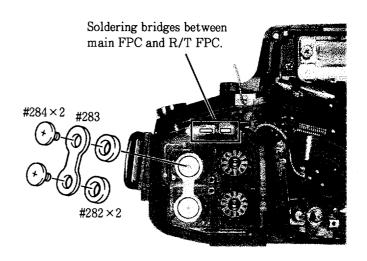


PRESS-CONTACT ON THE UPPER SIDE OF THE HAND GRIP

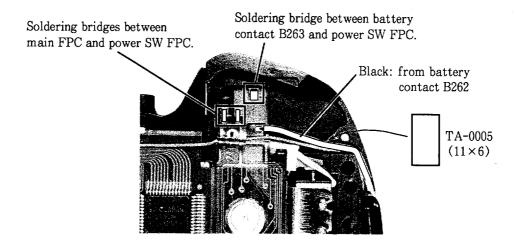


PRESS-CONTACT & SOLDERING BRIDGES ON THE UPPER SIDE OF THE FILM CARTRIDGE CHAMBER

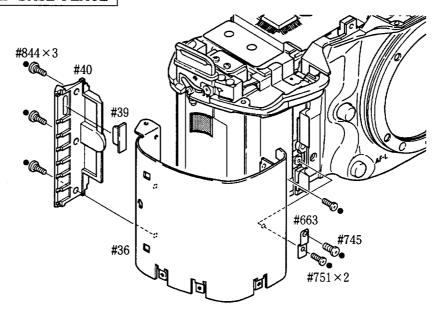




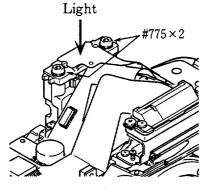
SOLDERIND BRIDGES & WIRES ON THE UPPER SIDE OF THE HAND GRIP

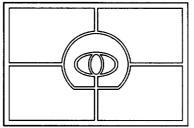


HAND GRIP BASE PLATE

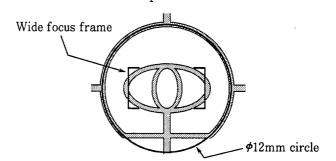


ADJUSTMENT OF AE SPD POSITION

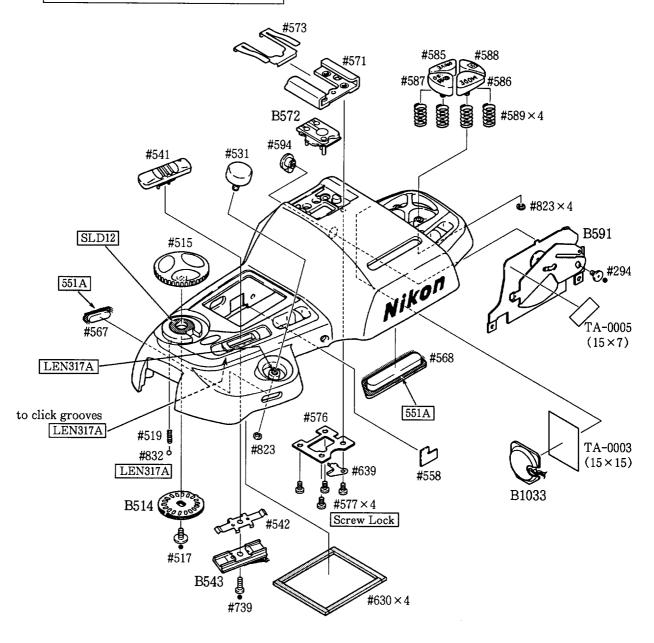




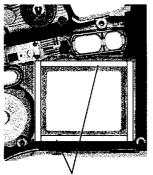
- ① Unfasten screws #775×2.
- ② Irradiate a strong light on the AE SPD so that the AE SPD patterns are reflected on the main mirror.
 - (Refer to the figure below on the left.)
- ③ As shown the figure below, align the center of the AE SPD with both the wide focus frame and the ϕ 12mm circle. The AE SPD should be parallel to the main mirror.



SMALL PARTS OF TOP COVER

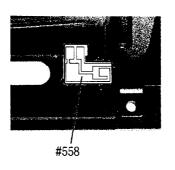


① Attaching positions of sponge #630×4

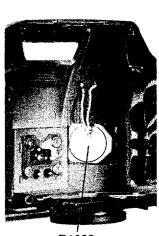


Stretch these two sponge when attaching them.

② Attaching position of AE lock printed circuit boad #558

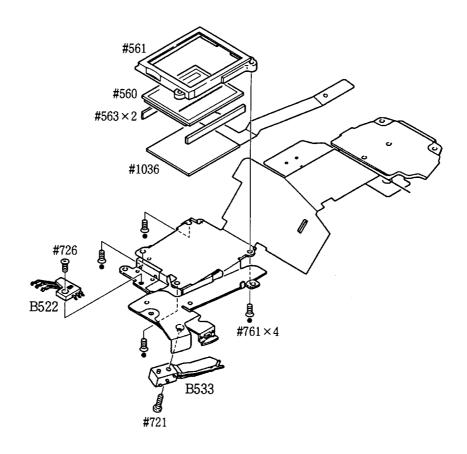


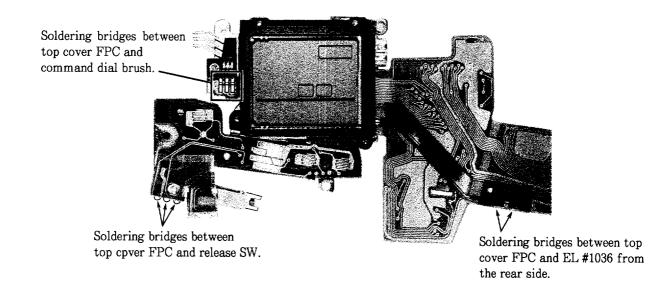
③ Attaching position of buzzer B1033



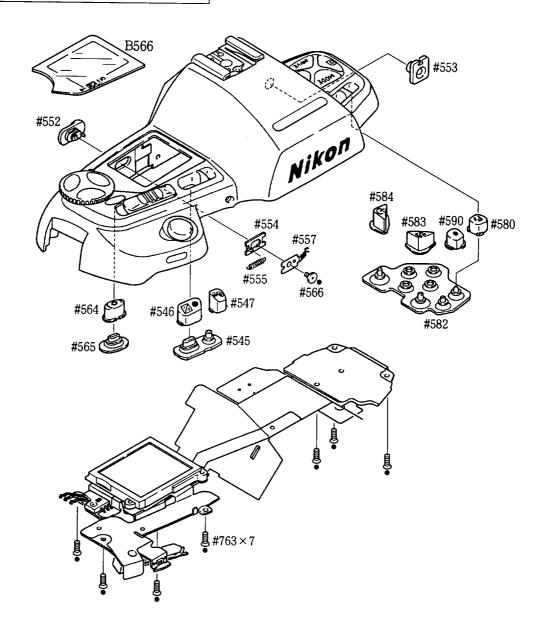
B1033

TOP COVER FPC, LCD PANEL

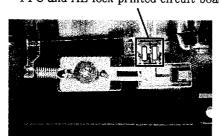


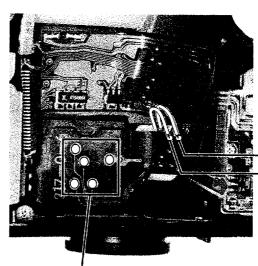


MOUNT THE TOP COVER FPC



Soldering bridges between top cover FPC and AE lock printed circuit boad.

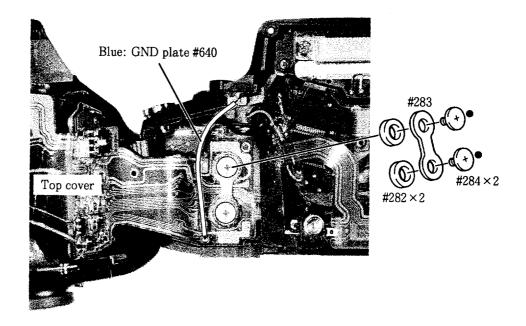


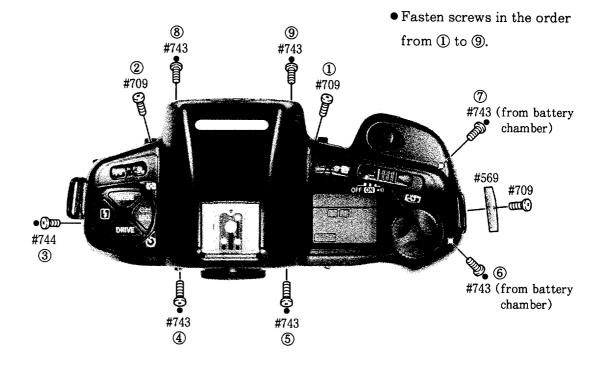


-Yellow: Buzzer -Yellow: -ditto-

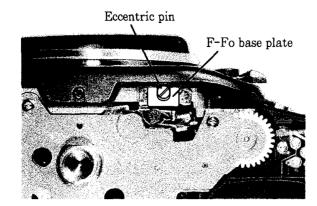
Soldering bridges between top cover FPC and accessory shoe B572.

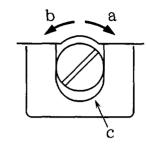
MOUNT THE TOP COVER





ADJUSTMENT OF F-Fo BASE PLATE POSITION





- 1. Rotate the eccentric pin in the direction of "a" to move the pin head to the right.
 - **Note:** Do not rotate the eccentric pin too much otherwise the F-Fo base plate might bend due to the "c" part of the F-Fo base plate coming into contact with the eccentric pin.
- 2. Slowly mount the F-Fo tool lens J18202 on the camera body, so that the upper and lower gaps between the lens release pin and the groove are the same.
- 3. Attach the battery holder (with batteries) to the body. Screw in the battery holder lock screw until the battery holder release SW turns OFF.

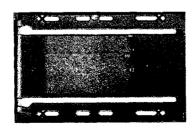
Note: Do not fasten the battery holder lock screw completely, for the bottom cover has not been mounted yet.

- 4. Turn ON the main SW of the body to set the exposure mode selector to "A" or "M".
- 5. Lightly press the shutter release button, and slowly rotate the eccentric pin in the direction of "b". Stop the rotation at the moment when the aperture value on the LCD has changed from F1.8 to F2.

Note:

- ① Rotate the eccentric pin in the direction of "b".
- ② If the pin has been rotated too much, set the pin to "1." and rotate the pin in the direction of "b" again.

INSPECTION & ADJUSTMENT OF BODY BACK



 Measure the distance between the lens mount surface and the outer film guide rail.

Mark ×: Measured positions

Standard value: 46.67 ± 0.02 mm

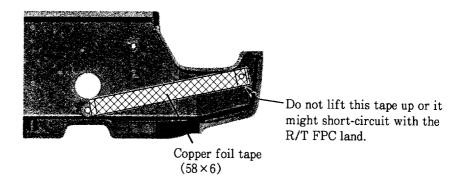
Degree of parallel: within 0.02mm

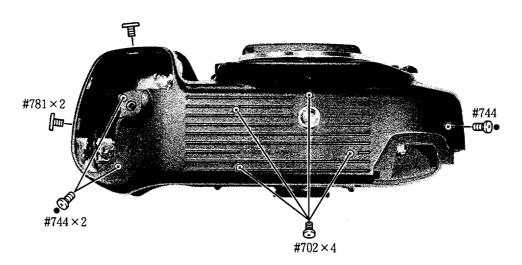
 If it is out of the standard value, unfasten screws #787 × 2, securing the bottom base plate and the front plate, and move the front plate back and forth.
 Or adjust the distance by inserting the washers under the lens mount.

INSPECTION & ADJUSTMENT OF AE, AF, TTL, BATTERY CHECK VOLTAGE

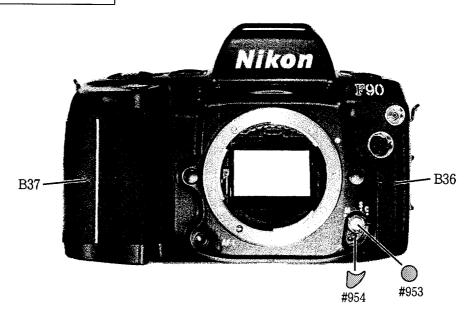
• Make each inspection and adjustment as indicated on the computer display.

BOTTOM COVER

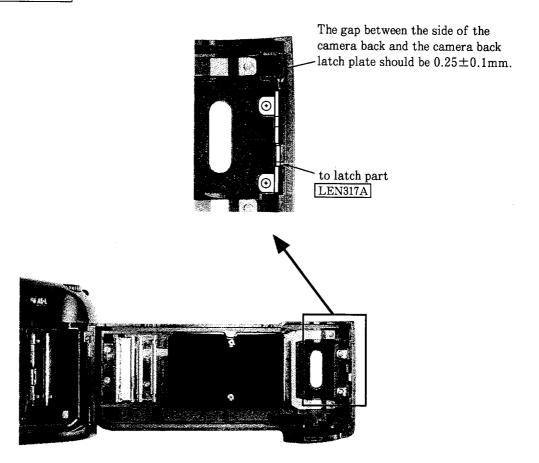




HAND GRIP RUBBERS



CAMERA BACK



CHECK & CLEAN

ullet Refer to the standard value of inspection and checking & adjustment programs.

F90 (N90) specifications

Contents

1.	Exposure metering
2.	Exposure mode
3.	AE lock
4.	Film speed settingM10
5.	Sequence control
6.	Film advance
7.	End of roll
8.	Film rewind
9.	Film advance speed
10.	Frame counter
11.	Shutter
12.	Illumination
13.	Power source
14.	Battery power voltage check
15.	Electric current
16.	Tripod socket screw
17.	Remote terminal
18.	Data back terminal
19.	Ambient temperature
20.	Driving timing chart

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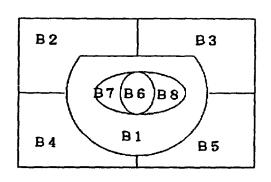
F90/N90 specifications

Note: The following information is not included in the instruction manual and product brochure.

1. Metering system

Metering range:

From EV-1 to EV21 (with f/1.4 lens at ISO 100) EV-3 to EV21 (in Spot Metering mode)



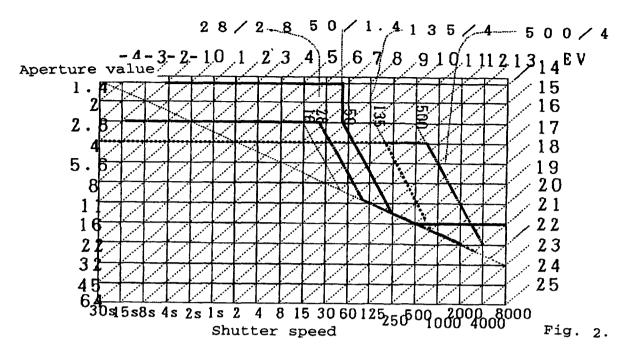
- 1) Multiple pattern metering Metering is carried out using B1 to B8 segments
- 2) Center-Weighted Metering Metering is carried out using B1, B6, B7 and B8 segments. Concentration ratio: Approx. 75% (equivalent to ø12 mm circle.)
- Spot Metering 3) Metering is carried out using B6 segment. Concentration ratio: Approx. 50% or more (equivalent ø3mm circle.)

Fig. 1 8-segment silicon photo diode

2. Exposure mode

(The following are program charts using a 50mm f/1.4 lens at ISO 100 film speed unless otherwise noted.)

- Multiple Programmed Auto Exposure Mode (P mode) 1)
- 1-1) Program chart (no dedicated Speedlight mounted).
- Program charts vary depending on the lens focal length a)
- (16mm to 1600mm) due to camera shake preventive measures. Here we take a 50mm f/1.4 lens as an example to draw a b) program chart and to explain the chart. (Refer to Fig. 1.) In the program chart, we draw a line between two points: f/1.4, at 30s and f/32 at 1/8000 as a reference line. In low light levels, the shutter-priority (at maximum aperture) auto exposure mode (b) is activated from the point (a) of shutter speed at 1/focal length with an aperture of f/2.8. In even lower light levels, the aperture-priority auto exposure mode (c) is activated. With much higher shutter speeds than point (a) mentioned above, the program chart shows that the shutter speed changes by two stops (d) per one f/stop. In very bright light levels, the program chart corresponds to reference line (e). The aperture-priority auto exposure mode (at minimum aperture) is activated when the aperture is set at its smallest setting. But shutter-priority auto exposure mode is activated with a lens whose shutter speed setting reaches its limit before the aperture can be set to its minimum value. In the low light level program chart using a lens with a maximum aperture of f/2.8 or slower, the aperture-priority (at maximum aperture) auto exposure mode (f) is activated from the point of shutter speed at 1/focal and maximum aperture.
- If the [Hi]/ [Lo] extreme metering range indicators appear c) while changing a combination of shutter speed/aperture, that combination of shutter speed/aperture is invalid and the values are reset.

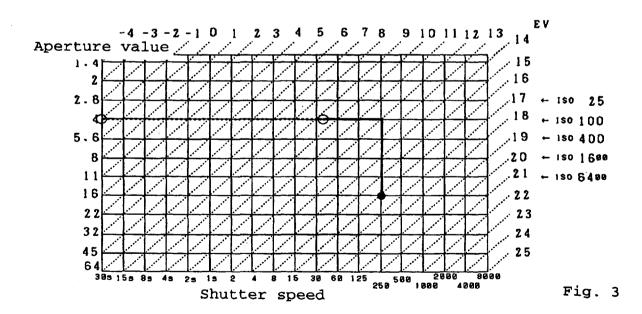


1-2) Program chart with a dedicated speedlight mounted.

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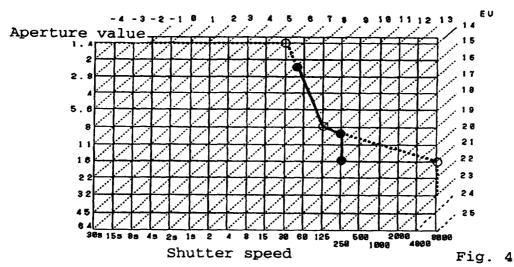
- a) The chart includes aperture-priority auto mode (f/4 at ISO 100) and shutter-priority auto mode (1/250 sec.). Aperture value at ISO 100 can be calculated from the following equation. (Maximum aperture value is f/2.8.)

 AVMIN = (SV + 3) / 2 (provided that AVMIN≥3)
 4 = (5 +3) / 2 (at ISO 100
- b) Shutter speed range for slow sync is possible up to the limited metering point.
- c) Change of combination of shutter speed/aperture is invalid.



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- 2) Custom program (CP) mode
- 2-1) Program chart with no dedicated speedlight mounted.
 Any three points (a, b, and c) on the program chart can be set using an electronic organizer and a Nikon data link IC card. The available shutter speed range is from 1 sec. to 1/8000 sec., and aperture range is from f/1.4 to f/32. When point "a" is set at any point, set point "b" at the same or higher shutter speed or larger f-number than point "a". In the same way, set point "c" at the same or higher shutter speed or larger f-number than point "b". The controllable limited value is locked to that value when the lens aperture and shutter speed values exceed their limited values.



Custom program chart

2-2) Program chart with a dedicated speedlight mounted When using a dedicated speedlight, TVMAX (1/250) and TVMIN are limited (1/focal length), the camera is controlled within the range as shown by solid lines in Fig. 4. In slow sync and rear-curtain sync settings, the camera can be controlled up to the minimum value determined by the minimum metering value.

- 3) Image program auto (Ps) mode
- a) There are seven different types of program charts in Ps mode. In any chart, the camera is controlled at the limited values when aperture value and shutter speed values reach the limited values.
- b) In Ps mode, the change of combination of shutter speed/aperture is invalid.
- c) When the dedicated speedlight's power is ON, TVMAX (1/250) and TVMIN are limited (1/focal length), the camera is controlled within the range as shown by each solid line. But in the landscape, silhouette, and hyperfocal program modes, the camera can be controlled up to the minimum value determined by the minimum metering value.
- 3-1) Portrait program (Po) mode with red-eye reduction (rE) mode The camera can be controlled within the range as shown by dotted lines in Fig. 5 according to the focal length (at tele end) and f-number at open aperture of the lens mounted.
 - a) f/2 program

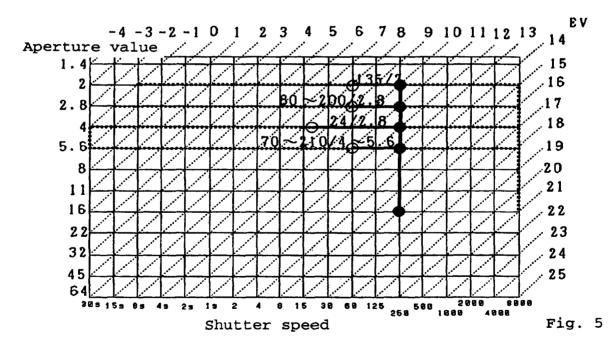
when the focal length (at tele end) $\geq 80 \, \text{mm}$ and f-number at open aperture < f/2.8

- b) f/2.8 program
- (1) when the focal length (at tele end) $<80\,\mathrm{mm}$ and f-number at open aperture <f/2.8
- (2) when the focal length (at tele end) $\geq 80 \text{mm}$ and f-number at open aperture = f/2.8
- c) f/4 program

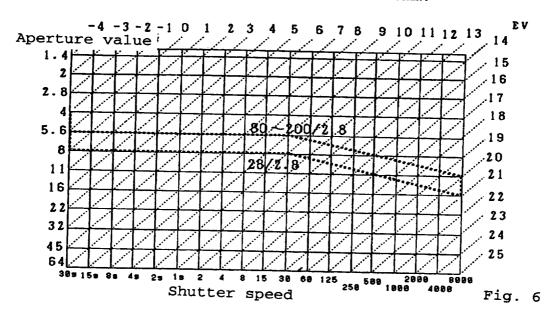
when the focal length (at tele end) >80mm

d) f/5.6 program

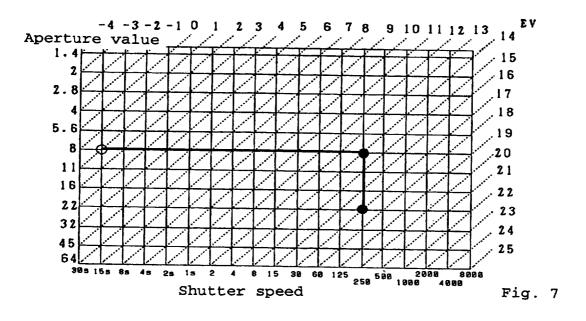
when the focal length (at tele end) >80mm



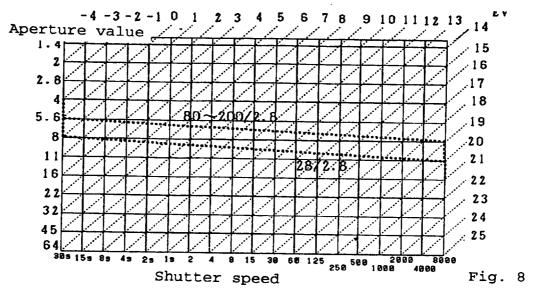
3-2) Hyperfocal program (HF) mode
The camera can be controlled within the range as shown by
dotted lines in Fig. 6 according to the focal length (at
wide end) of the lens mounted.
a) f/5.6-f/11 program
when the focal length (at wide end) ≥66mm
b) f/8-f/16 program
when the focal length (at wide end) <66mm.



When the dedicated speedlight's power is ON, the camera is controlled within the range as shown by the solid lines in Fig. 7 according to the maximum shutter speed (1/250) and minimum metering value, disregarding the focal length of the lens mounted.

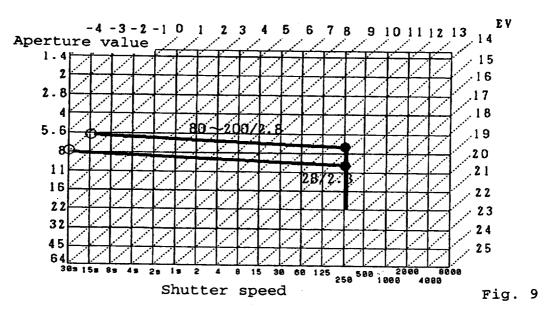


3-4) Silhouette program (SL) mode
The camera can be controlled within the range as shown by
the dotted lines in Fig. 8 according to the focal length
(at tele end) of the lens mounted.
a) f/5.6-f/8 program
when the focal length (at tele end) ≥80mm
b) f/8-f/11 program
when the focal length (at tele end) <80mm.

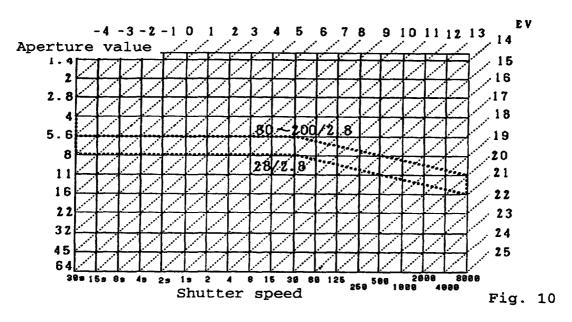


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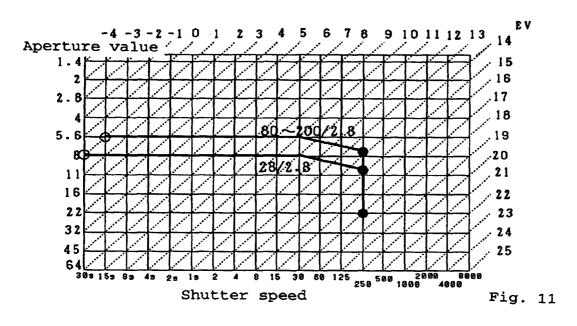
When the dedicated speedlight's power is ON, the camera is controlled within the range as shown in the solid lines in Fig. 9 according to the maximum shutter speed (1/250) and minimum metering value, disregarding the focal length of the lens mounted.



3-5) Landscape program (LA) mode
The camera can be controlled within the range as shown by
the dotted lines in Fig. 10 according to the focal length
(at tele end) of the lens mounted.
a) f/5.6-f/11 program
when the focal length (at tele end) ≥80mm
b) f/8-f/16 program
when the focal length (at tele end) <80mm.



When the dedicated speedlight's power is ON, the camera is controlled within the range as shown by the solid lines in Fig. 11 according to the maximum shutter speed (1/250) and minimum metering value, disregarding the focal length of the lens mounted.



3-6) Sport Program (SP) mode

The camera can be controlled within the range as shown by the dotted lines in Fig. 12 according to the focal length (at tele end) and f-number at open aperture of the lens mounted.

a) High speed f/2 program

when the focal length (at tele end) >300 mm and f-number at open aperture <f/2.8

b) High-speed f/2.8 program

when the focal length (at tele end) >300 mm and f-number at open aperture =f/2.8

c) High-speed f/4 program

when the focal length (at tele end) >300 mm and f-number at open aperture >f/2.8

d) Medium-speed f/2 program

when the focal length (at tele end) ≤ 300 mm and f-number at open aperture < f/2.8

e) Medium-speed f/2.8 program

when the focal length (at tele end) ≤ 300 mm and f-number at open aperture = f/2.8

e) Medium-speed f/4 program

when the focal length (at tele end) ≤ 300 mm and f-number at open aperture > f/2.8

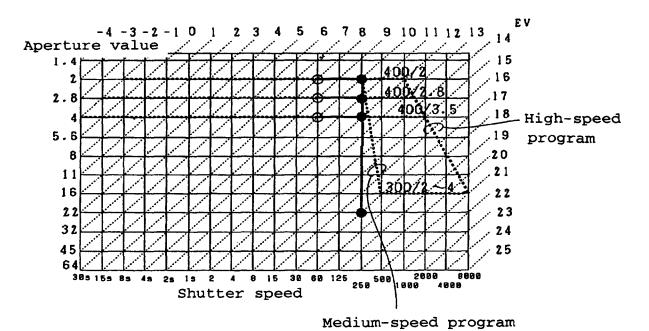


Fig. 12

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3-7) Close-up program (CU) mode

The camera can be controlled within the range as shown by the dotted lines in Fig. 13 according to the focal length (at wide end) and f-number at open aperture of the lens mounted.

a) f/4 program

when the focal length (at wide end) ≥50 mm and f-number at open aperture ≤f/2.8

b) f/5.6 program when the focal length (at wide end) >50 mm or f-number at open aperture >f/2.8

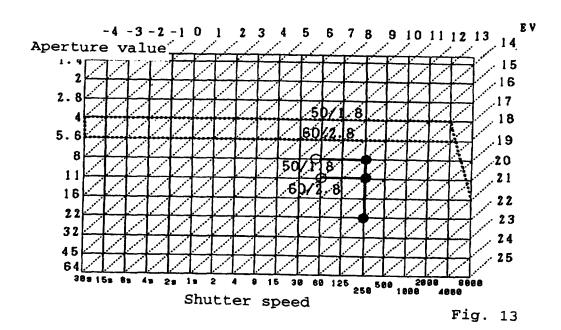
When the dedicated speedlight's power is OFF, the camera is controlled within the range as shown by the dotted lines in Fig. 13.

a) f/8 program

when the focal length (at wide end) >50 mm and f-number at open aperture ≤f/2.8

b) f/11 program

when the focal length (at wide end) >50 mm or f-number at open aperture >f/2.8



- 4) Aperture-priority auto exposure (A) mode
 Controllable shutter speed range is from 30 sec. to 1/8000
 sec. at 1/8 EV step. Selected shutter speed is displayed in
 the LCD panel in 1 EV step increments. If the selected
 shutter speed is out of the controllable range, the shutter
 speed is set to 30 sec. with "Lo" indicator or 1/8000 sec.
 with "Hi" indictor.
- 5) Shutter-priority auto exposure (S) mode
 Controllable aperture value range is from the f-number at
 open aperture to the maximum f-number of the lens mounted
 at 1/8 EV step. Selected aperture value is displayed in the
 LCD panel in 1 EV step increments. If the selected aperture
 value is out of the available range, the aperture value is
 set to the f-number at open aperture with "Lo" indicator or
 the maximum f-number sec. with "Hi" indicator.

3. AE lock

- Exposure value to be memorized is BV value in either P, CP, Ps, A, or A mode. (BV memory system). Therefore, when the aperture ring is turned in A mode while the auto exposure mode is locked, the shutter speed changes.
- The camera power will not turn OFF while the auto exposure mode is locked. Normally the power will turn OFF in 8 seconds after releasing the AE lock. But if the battery power is exhausted, the power will turn OFF immediately after releasing the AE lock.
- 3) Exposure metering mode can be selected while the auto exposure mode is locked.
- 4) No exposure warning (beeper sound) is available while the auto exposure mode is locked.

4. Film speed setting

When non-DX-coded film is loaded in DX mode, the exposure meter operates and the ISO number is tentatively set to 100.

5. Sequence control

The sequence gear turns approx. 85° to move the mirror up and control the aperture while releasing the shutter, moving the aperture lever down until the mirror is completely up.

At this point the sequence latch lever drops in the sequence cam groove to turn ON the sequence motor stop switch and the sequence motor stops.

Then, the solenoid is activated to lift the sequence latch lever from the sequence cam groove, making it possible for the sequence motor to turn again after shooting. (The sequence motor stop switch turns OFF.)

After shooting (after running the rear-curtain), the sequence gear turns by approx. 275° to cock the shutter, move the mirror down, and reset the aperture lever. At this point, the sequence latch lever drops in the sequence cam groove to turn ON the sequence motor stop switch and the sequence motor stops.

Then, the solenoid is activated to reset the sequence latch lever for the next shutter release sequence.

6. Film advance

- 1) Automatic film loading operation stops when the reference switch turns OFF four times (equivalent to four frames).
- 2) The reference switch is always kept turned ON. This switch is designed to turn OFF once when the film is advanced by approx. 19mm (1/2 frame).
- When a pulse from the film advance photo-interrupter is monitored after the reference switch is turned OFF, the film advance stop timing control starts.
- 4) The film advance photo-interrupter outputs 114 pulses while advancing one frame.
- 5) In either the single-frame (S), continuous low-speed (CL), or continuous high-speed (CH) shooting mode, the sequence motor and the film advance motor turn simultaneously to advance film to charge the shutter and mirror after shooting. But if it takes much longer to move the mirror and advance film than specified due to insufficient battery power or low temperature, the sequence motor automatically turns after the shutter curtain has traveled fully, and then the film advance motor turns. (We call this operation square mode.)

Normal operation automatically resumes when the battery power has recovered.

7. End of roll

If the film advance operation cannot be completed within the specified period of time, the film advance motor stops and a warning indicator accompanied by a beeper sound appears in the viewfinder and LCD panel.

Then when the shutter release button is pressed, only the film advance motor turns and the above mentioned operation is repeated.

But when the frame counter shows a number over 37, the film advance motor does not work. When the frame counter shows a number below 37, the warning indicator disappears when the film is advanced properly. Normal shooting becomes possible from the next frame on.

8. Film rewind

- 1) When the film rewind operation is activated even though no film is loaded, the film rewind motor turns for 2 seconds.
- 2) If the film advance motor stops due to insufficient battery power when starting film rewind, the shutter release operation is locked. In this case, try to activate the film rewind operation once again. When the film is completely rewound, the shutter release lock is released.

DISASSEMBLING

1. Separating the front plate and the real body	
Hand grip rubbers	
Bottom cover	
Top cover ————————————————————————————————————	
1. Remove soldering bridges & wires on the upper side of hand grip	D3
2. Remove press-contact & soldering bridges on the upper side of the film cartridge chamber	D3
3. Remove press-contact & screw	D3
4. Remove screws on the upper side of the hand grip	
5. Remove screws on the bottom side	D4
6. Remove the front plate	D 5
2. Rear body	
Remove wires on power SW FPC	D6
Press-contact plate	D6
Sequence base plate	
Rewind fork unit, Camera back lock releases	
Film advance base plate unit	
Camera back SW	
Power SW FPC	D 8
Shutter unit	
Film detection SW	
DX contact unit	D10
Small parts of rear body	D10
3. Front plate	
Viewfinder LCD, AE FPC (SPD)	D1
R/T FPC, Light baffle plate	D11
Main FPC	
AF FPC (AP3), Mirror box bottom plate	D13
Prism box	
Unsolder on the bottom of the mirror box	D1
Depth-of-field preview base plate	D1
Mirror box	
Apron, Lens mount	D1
F-Fo base plate	D1
AF contact FPC	D1
AF driving unit	D1
Small parts of front plate	D1

DISASSEMBLING

Note: 1) Remove the battery holder and the camera back before disassembling.

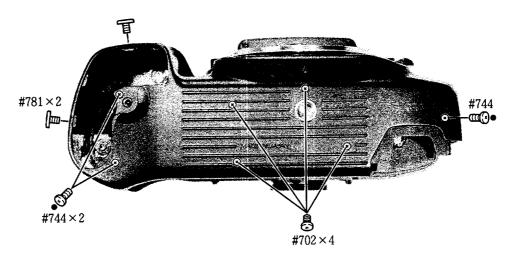
- ② When you disassemble the camera body further than described in the disassembling section, refer to the exploded drawings and assembling section, since some parts are disassembled as a unit part.
- ③ When disassembling, pay attention to the arrangement and mounting positions and types of screw to be removed.
- 4) Be sure you are grounded when holding FPC because static electricity exerts serious adverse effects on ICs.
- (5) The "•" mark on the screws indicates they tap-tight screws.

1. Separating the front plate and the rear body

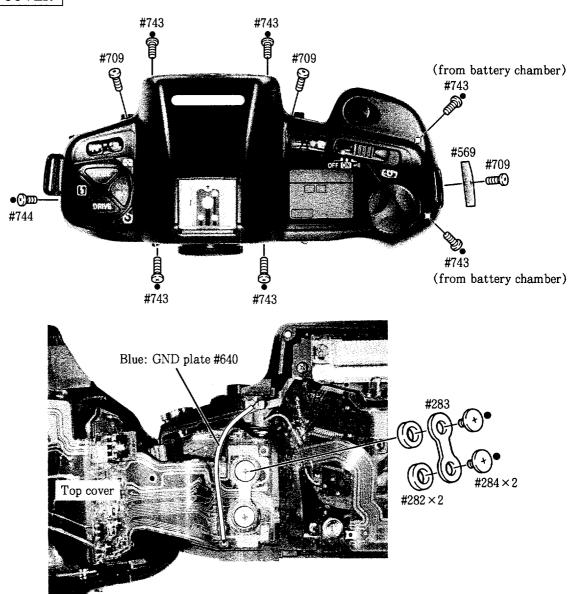
HAND GRIP RUBBERS



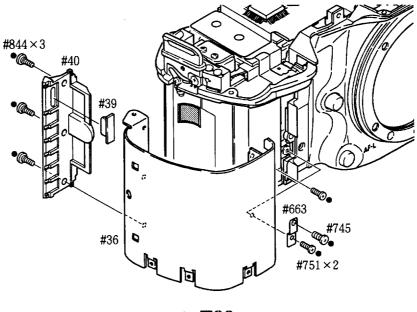
BOTTOM COVER



TOP COVER

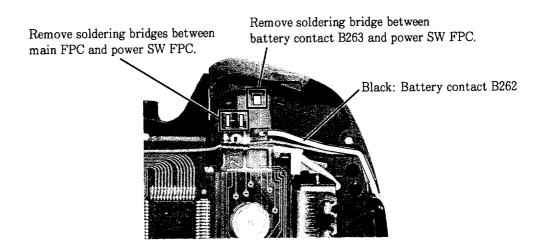


HAND GRIP BASE PLATE

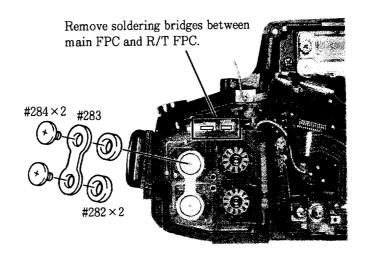


SEPARATING THE FRONT PLATE AND THE REAR BODY

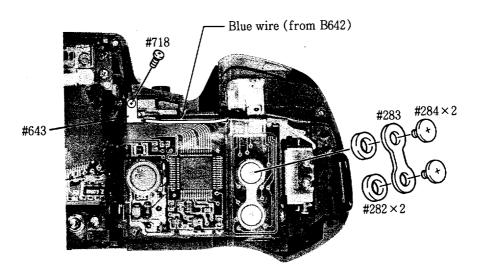
1. Remove soldering bridges & wire on the upper side of hand grip



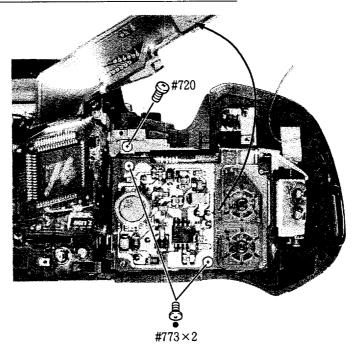
2. Remove press-contact & soldering bridges on the upper side of the film cartridge chamber



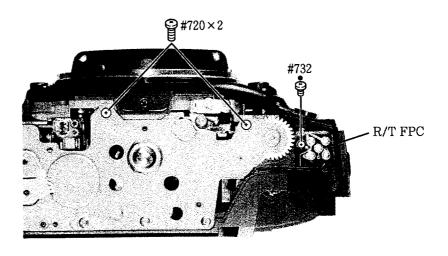
3. Remove press-contact & screw



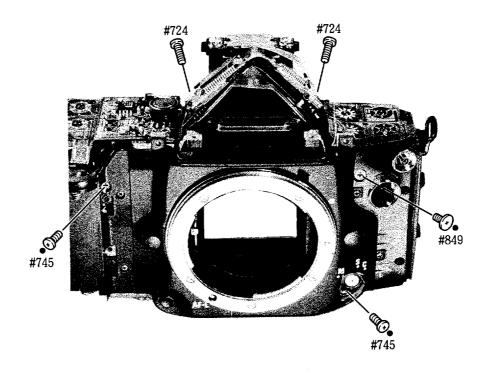
4. Remove screws on the upper side of the hand grip



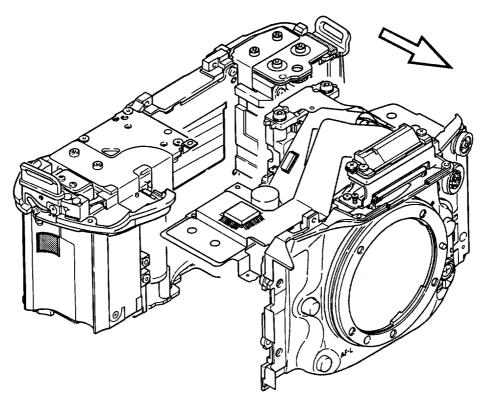
5. Remove screws on the bottom side



6. Remove the front plate

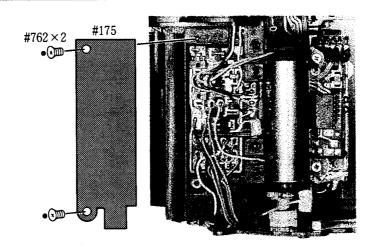


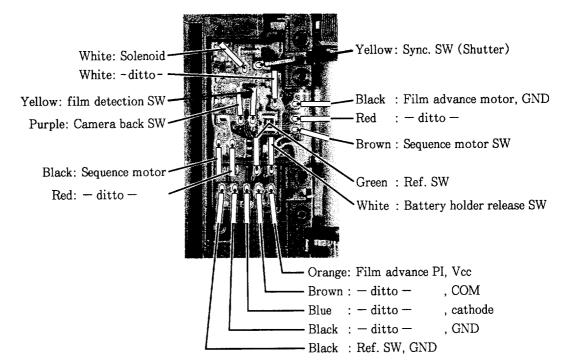
 Press-contact parts of each FPC have to be removed from the presscontact plate.



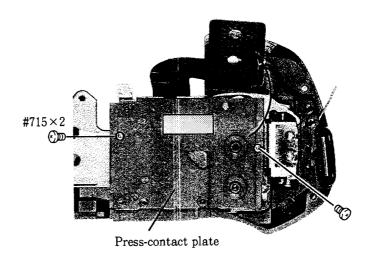
2. REAR BODY

REMOVE WIRES ON POWER SW FPC

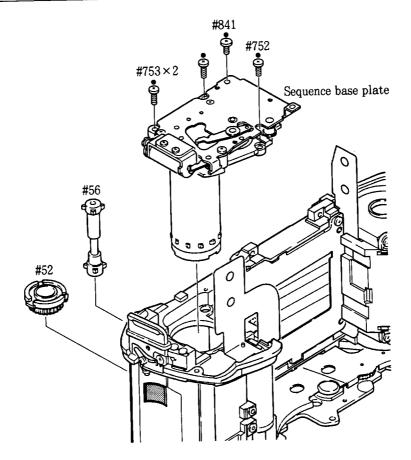




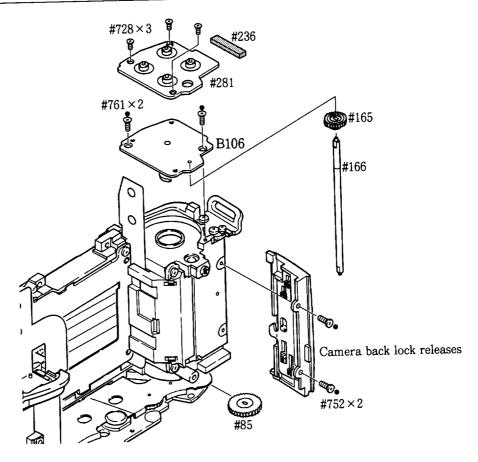
PRESS-CONTACT PLATE



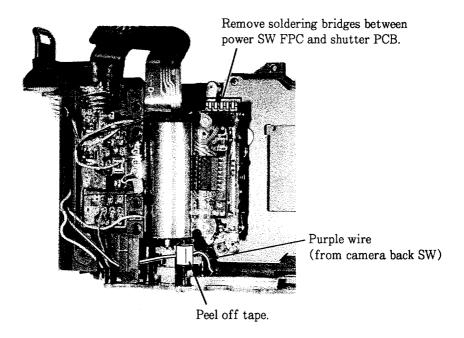
SEQUENCE BASE PLATE

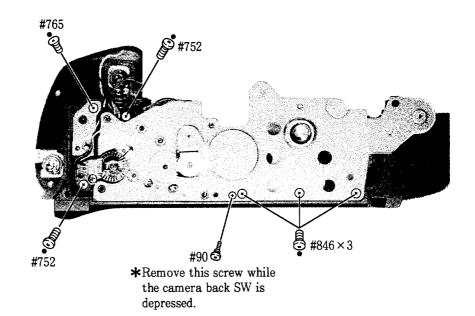


REWIND FORK UNIT, CAMERA BACK LOCK RELEASES

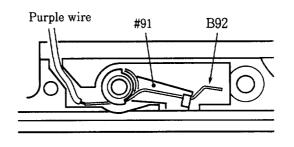


FILM ADVANCE BASE PLATE UNIT

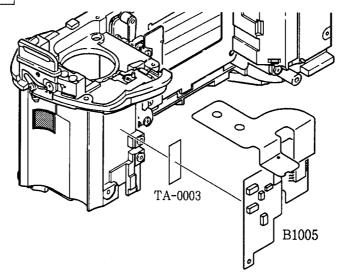




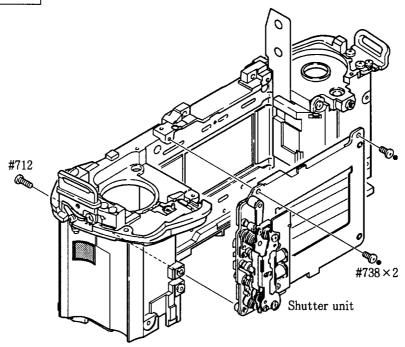
CAMERA BACK SW



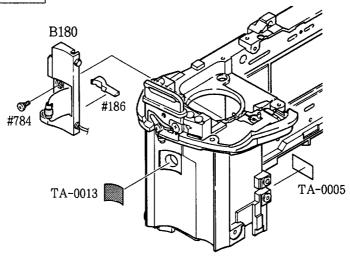
POWER SW FPC



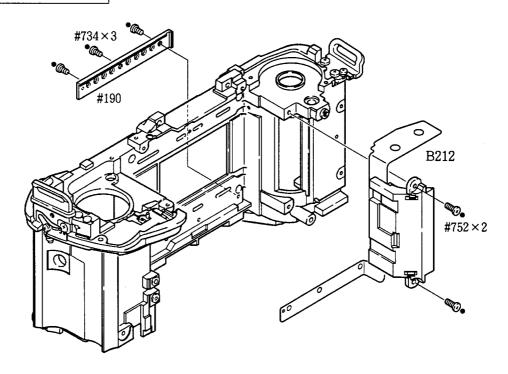
SHUTTER UNIT



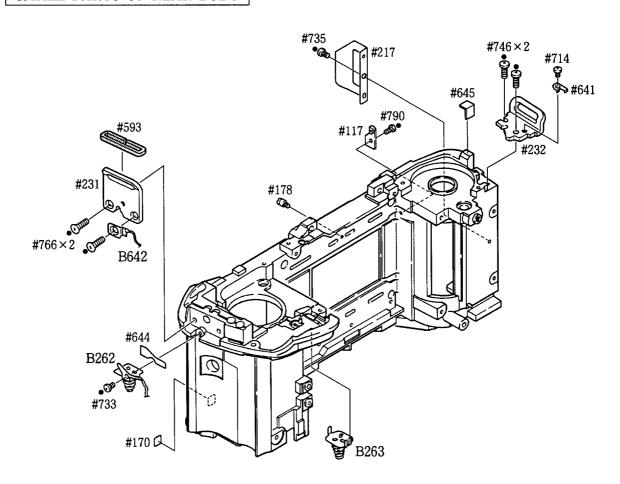
FILM DETECTION SW



DX CONTACT UNIT



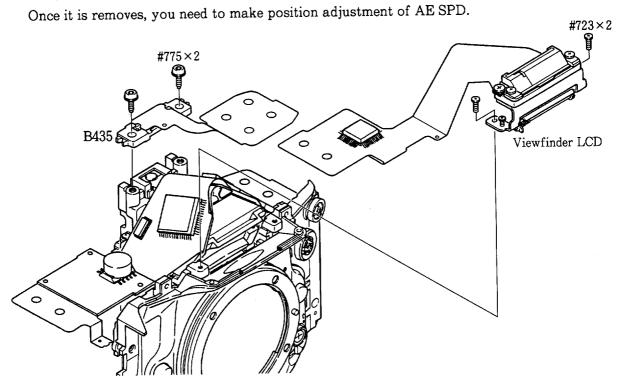
SMALL PARTS OF REAR BODY



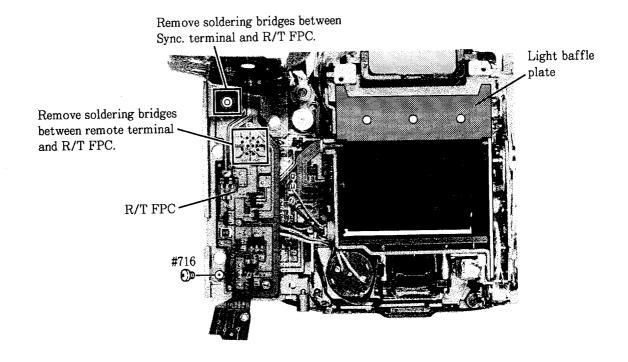
3. FRONT PLATE

VIEWFINDER LCD, AE FPC (SPD)

★Do not remove the AE FPC B435 unless it is absolutely necessary.



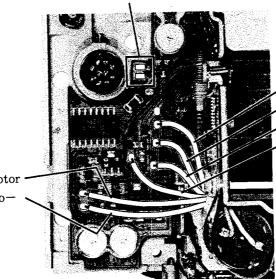
R/T FPC, LIGHT BAFFLE PLATE



MAIN FPC

1. Remove wires & soldering bridges

Remove soldering bridges between main FPC and AF contact FPC.



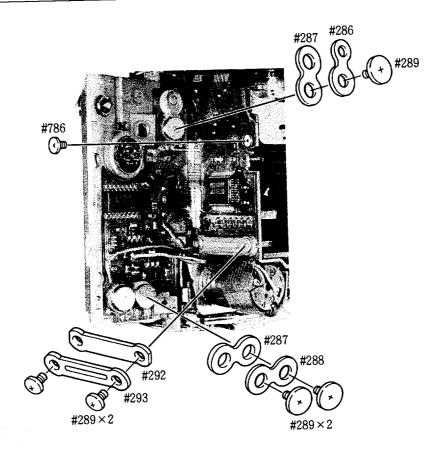
Orange: AF PI, Vcc Brown: -ditto-, COM Blue : -ditto-, GND

Black: -ditto-, cathode

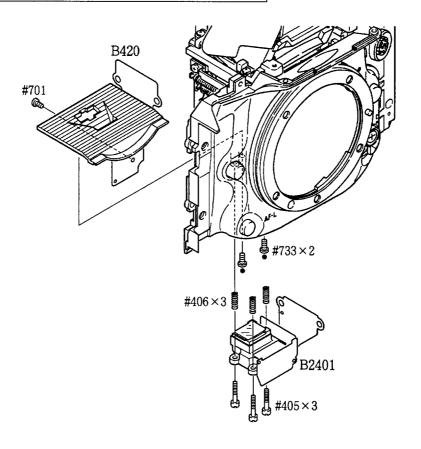
Blue: AF motor -

Pink: -ditto-

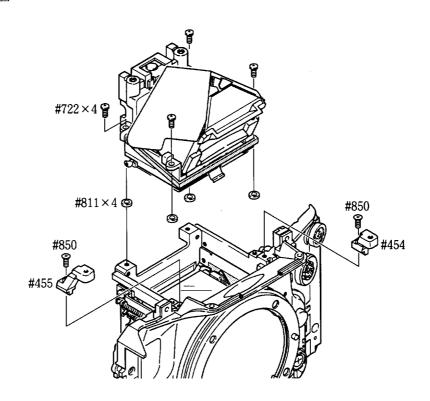
2. Remove press-contact & screw



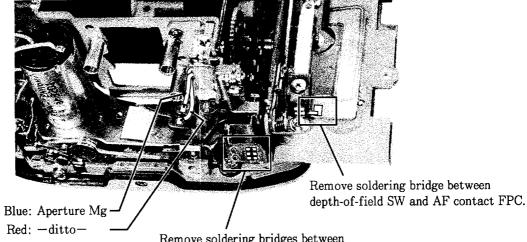
AF FPC (AP3), MIRROR BOX BOTTOM PLATE



PRISM BOX

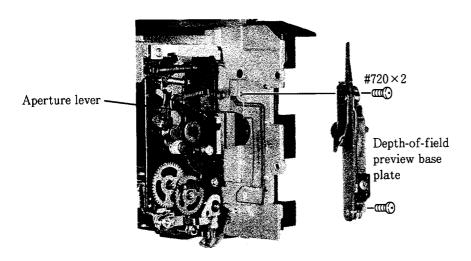


UNSOLDER ON THE BOTTOM OF THE MIRROR BOX



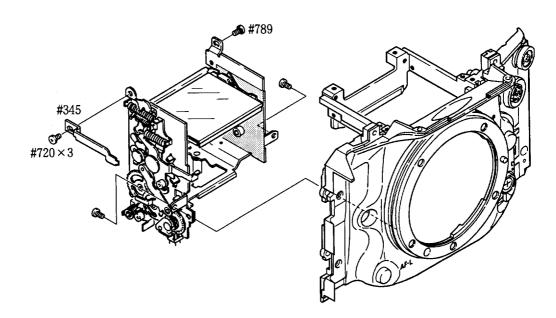
Remove soldering bridges between AF base plate FPC and aperture PI.

DEPTH-OF-FIELD PREVIEW BASE PLATE

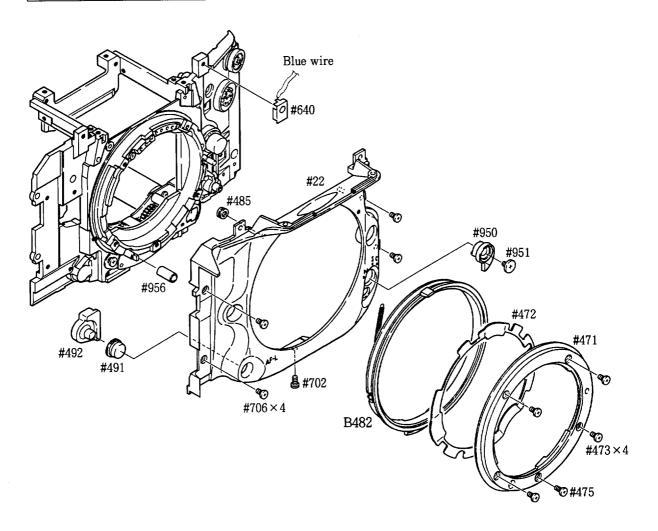


 Move the aperture lever to make it to easier to remove the depth-of-field preview base plate.

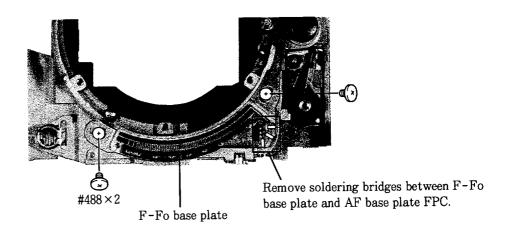
MIRROR BOX



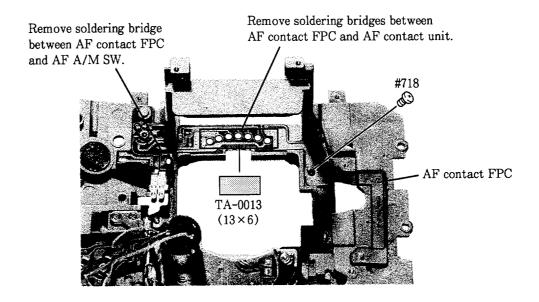
APRON, LENS MOUNT



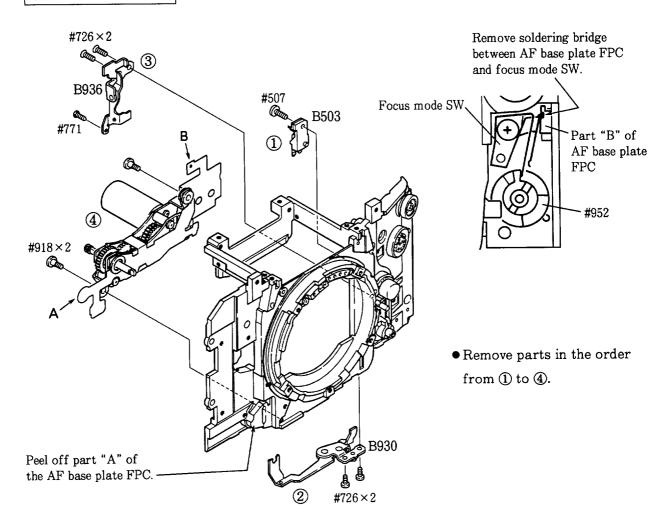
F-Fo BASE PLATE



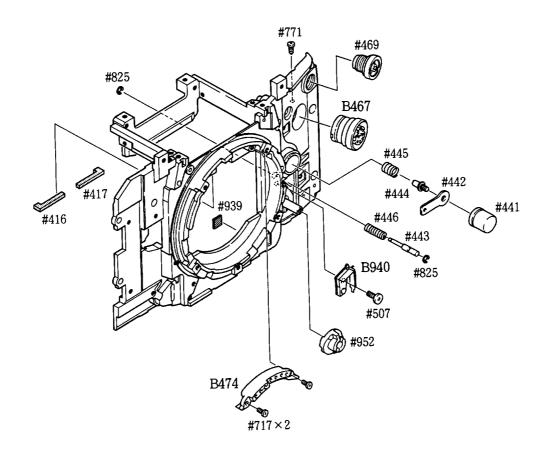
AF CONTACT FPC



AF DRIVING UNIT

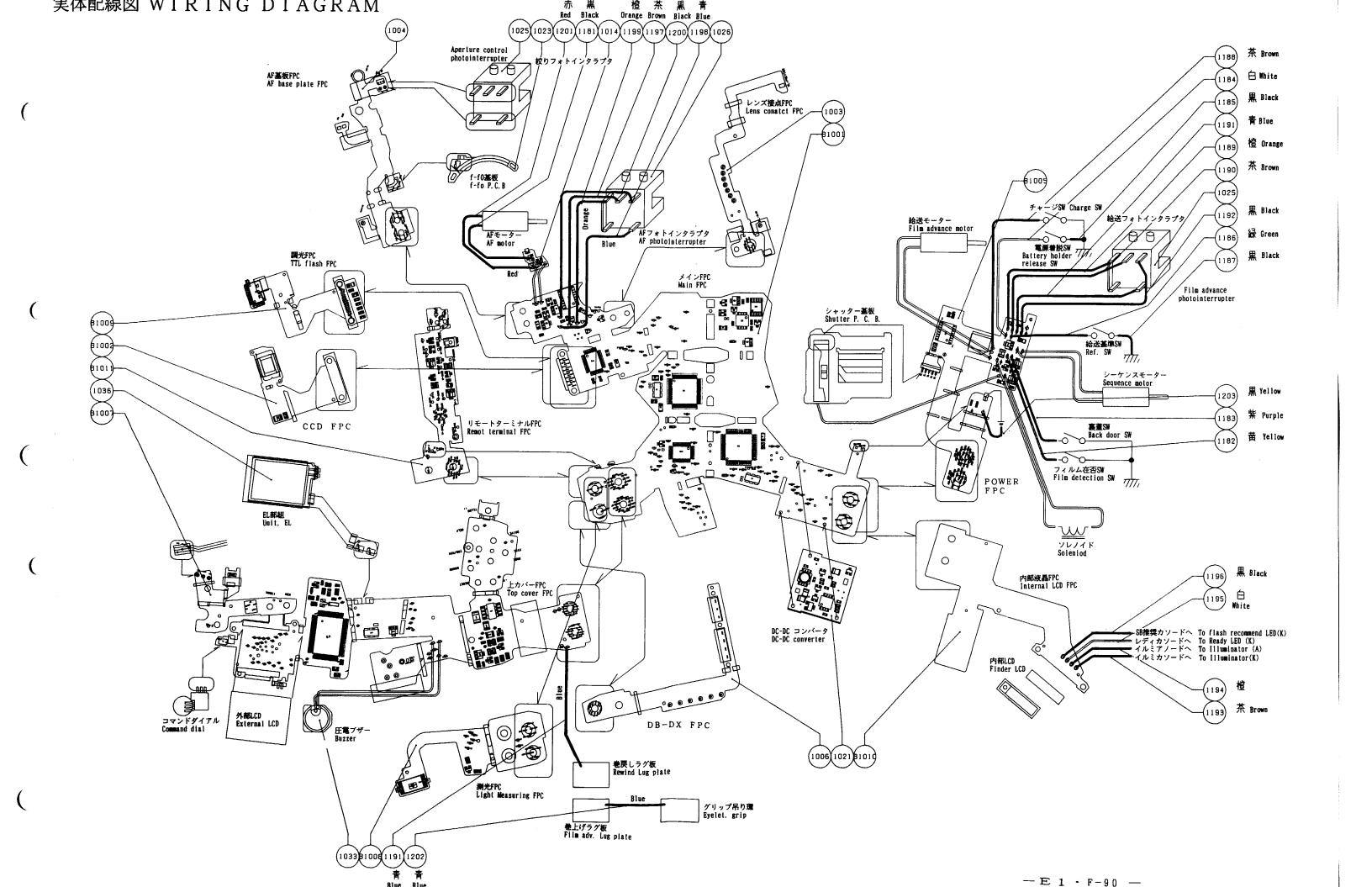


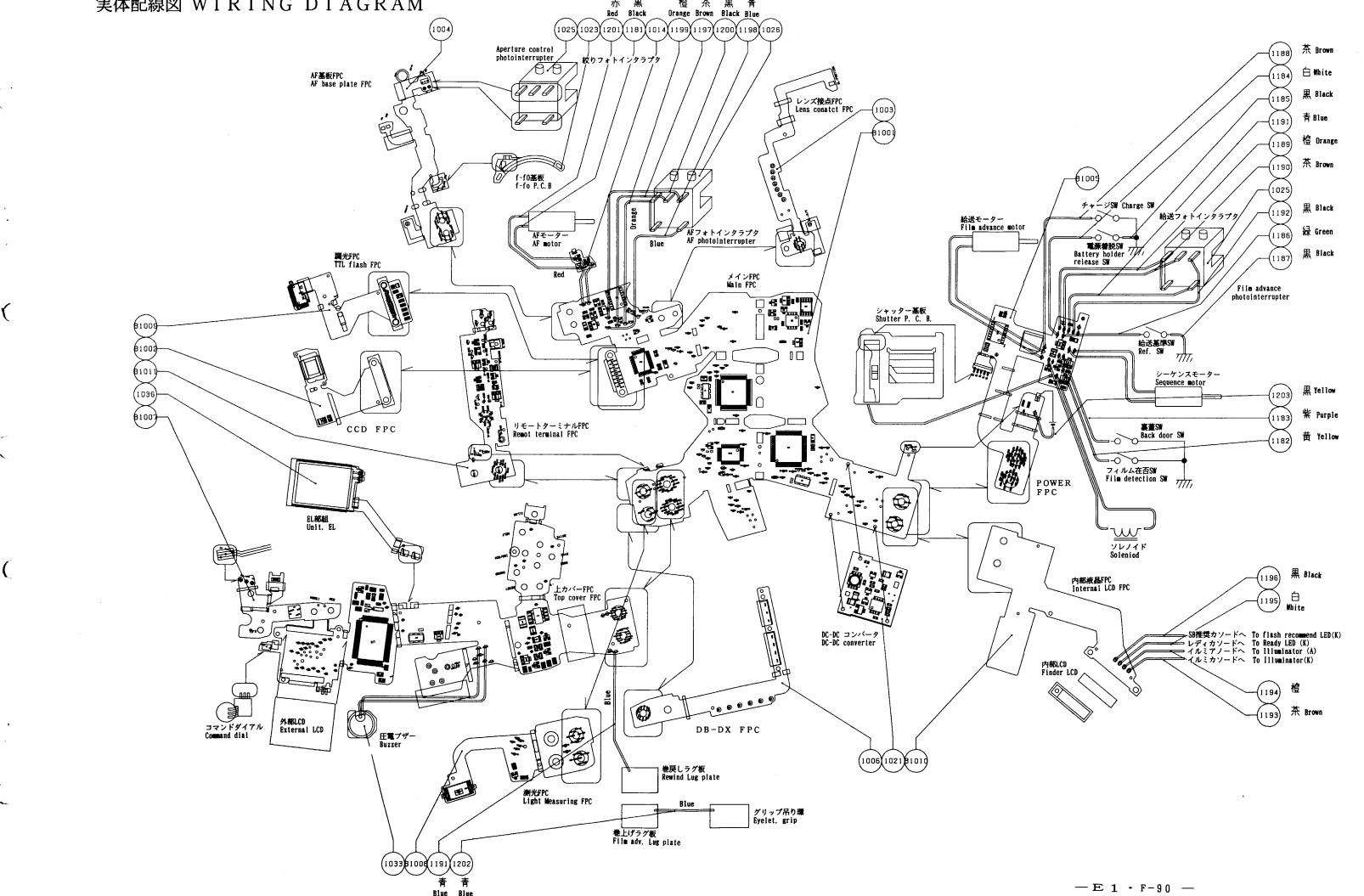
SMALL PARTS OF FRONT PLATE

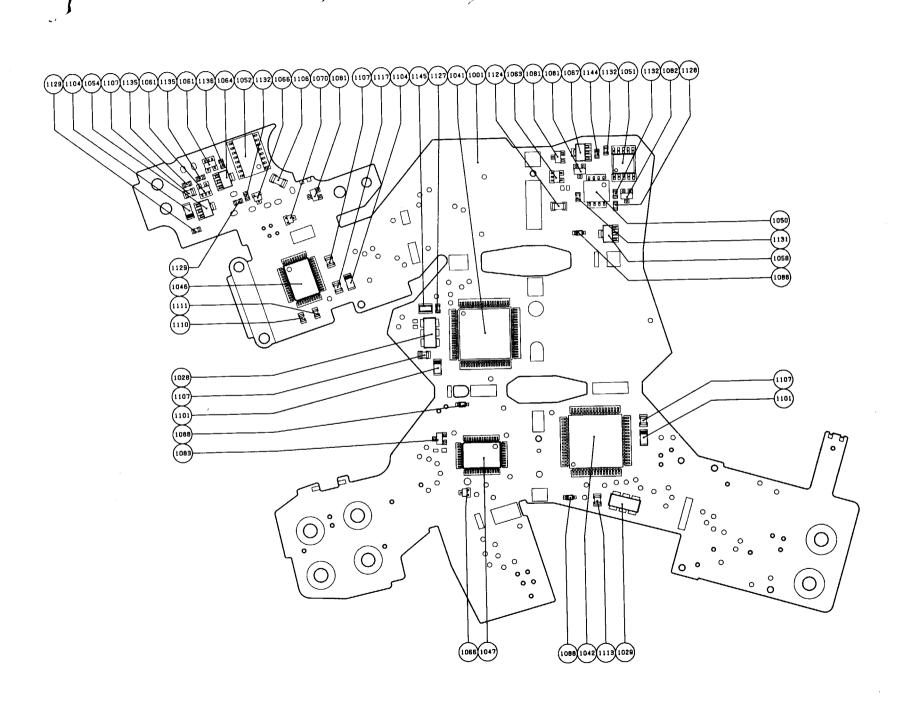


電気編

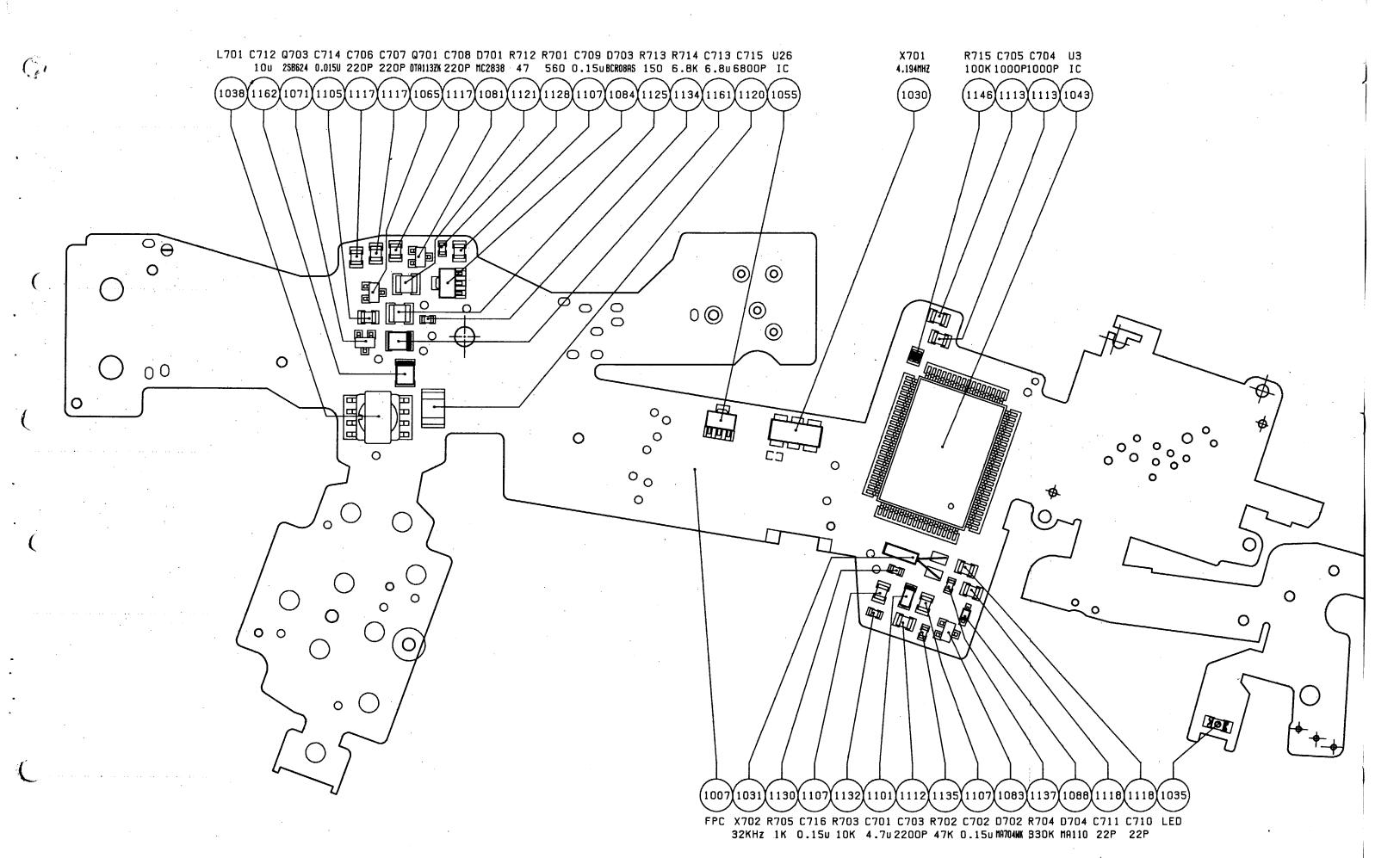
実体配線図	E	1
回路図	E	2
メインFPC	E	3
上カバーFPC	E	6
パワーFPC	E	9
CCD FPC	E 1	1
DB-DX FPC	E 1	3
リモートターミナルFPC	E 1	4
A F 基板 F P C	E 1	6
測光FPC	E 1	7
レリーズ接点FPC	E 1	8
内部液晶FPC	E 1	9
I Cピン端子表	E 2	0
チェックランド表	E	
MIDING DIACDAM	Ħ	E 1
WIRING DIAGRAMCIRCUIT DIAGRAM		2
		3
TOP COVER FPC	_	3 B
POWER FPC		3 0
CCD FPC		
DB-DX FPC		
REMOTE TERMINAL FPC		
AF BASE PLATE FPC		
LIGHT MEASURING FPC		
LENS CONTACT FPC		
INTERNAL LCD FPC		
REFERENCE TABLE, IC TERMINALS		
1/2: 2::2::2: ::::::::::::::::::::::::::	- E,	ZU

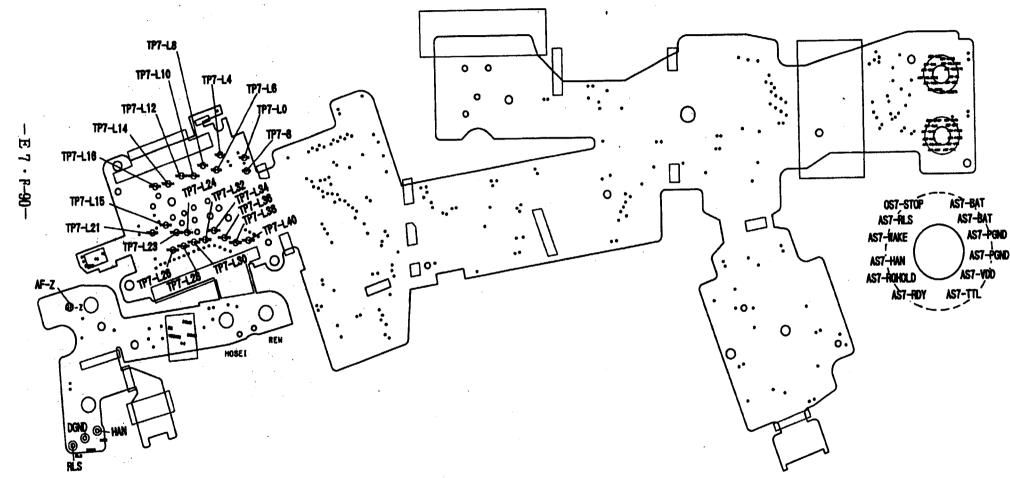






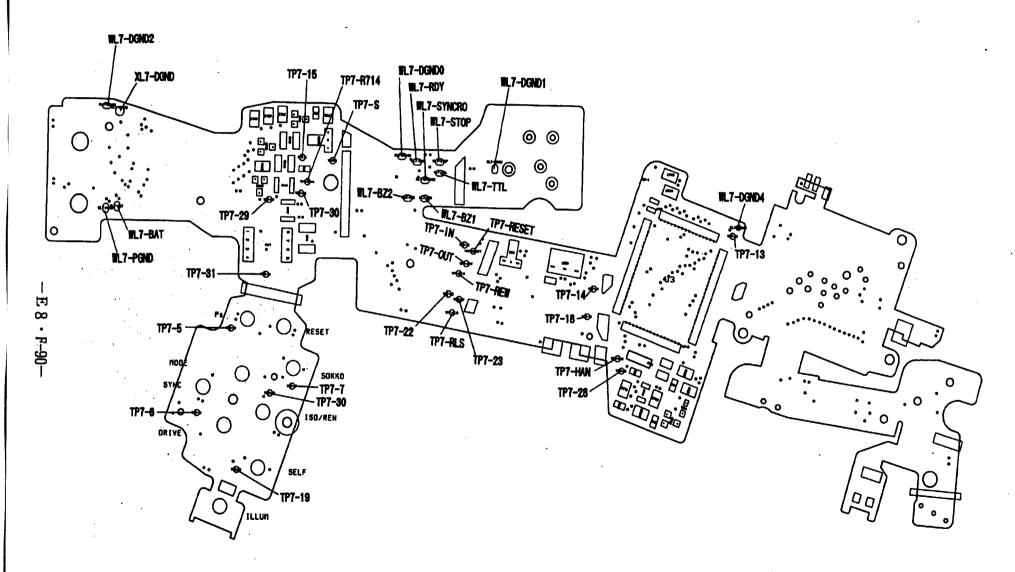
E3 · F-90-

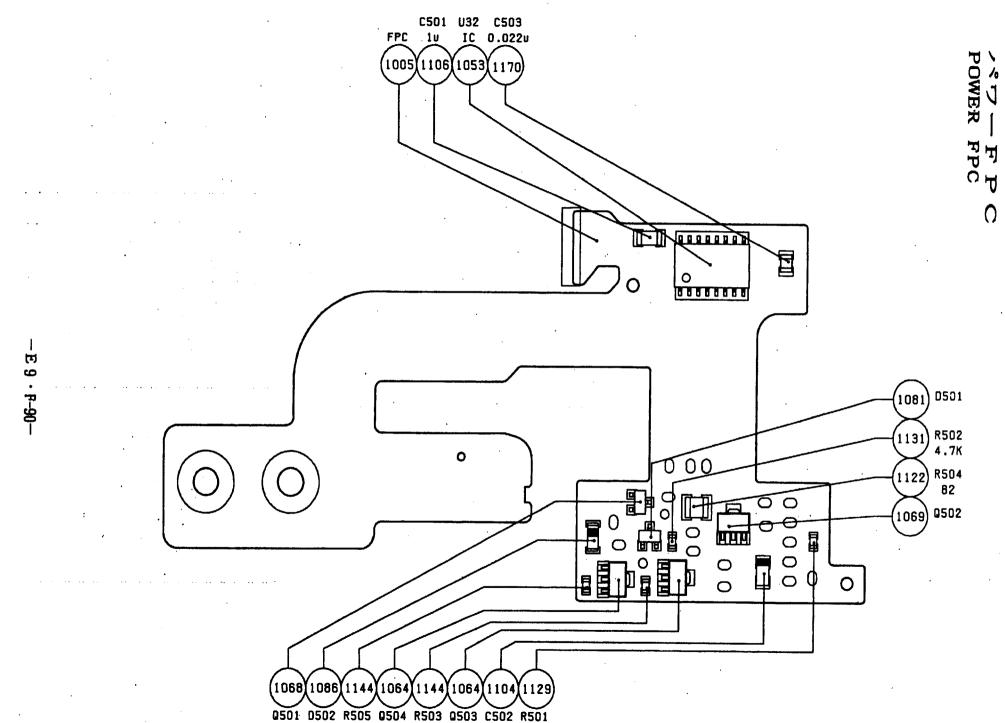




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A28051-R. 3312.



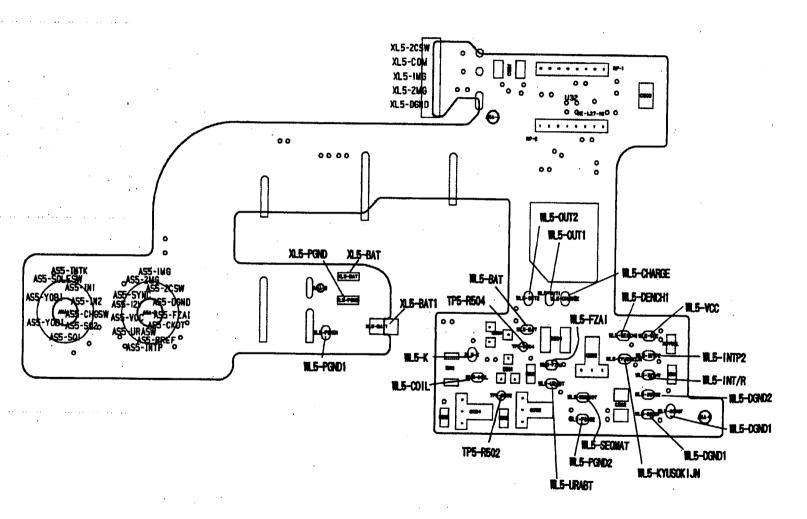


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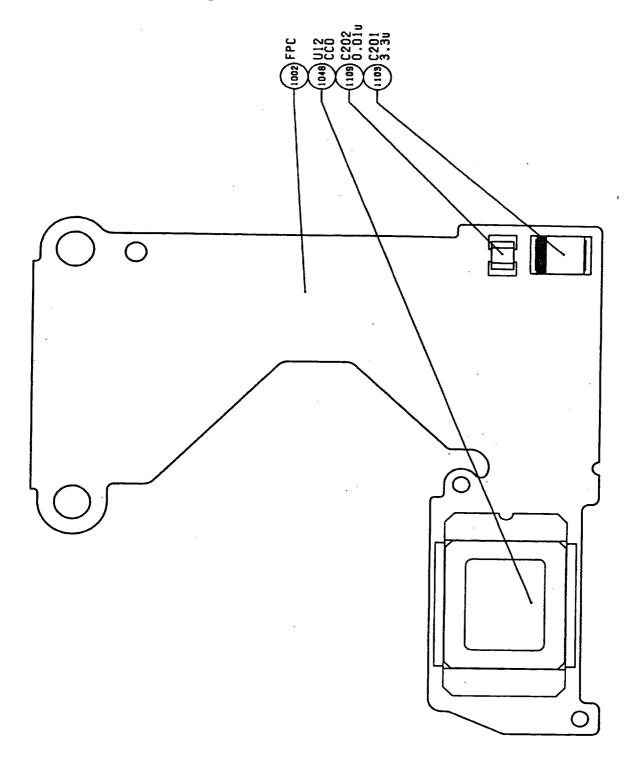
100K

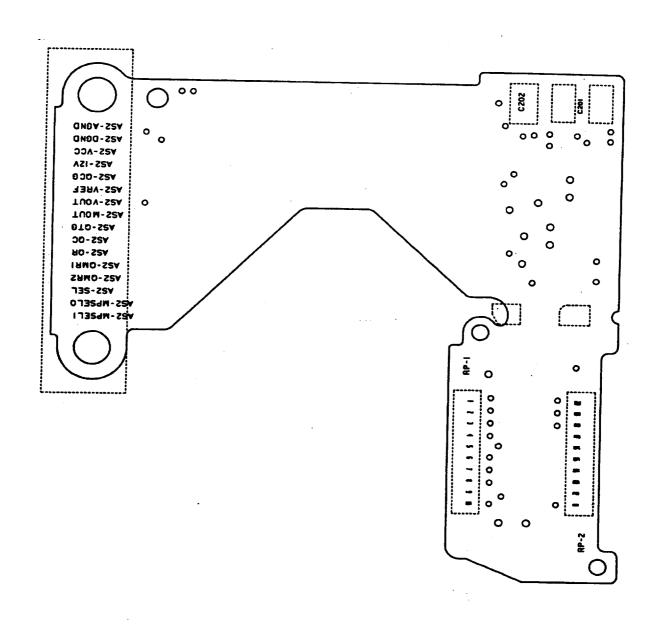
100K

AA28051-R. 3312.

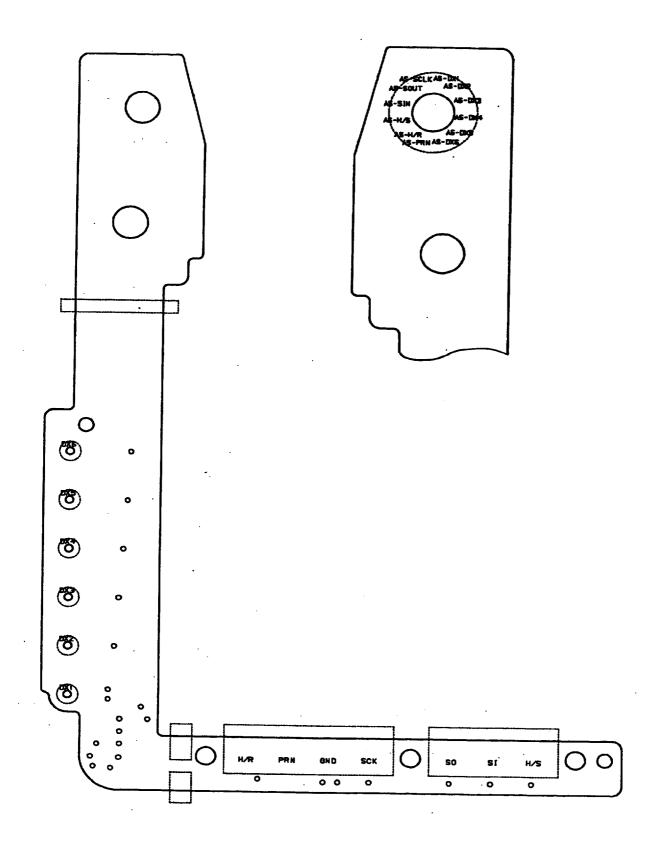


CCD FPC

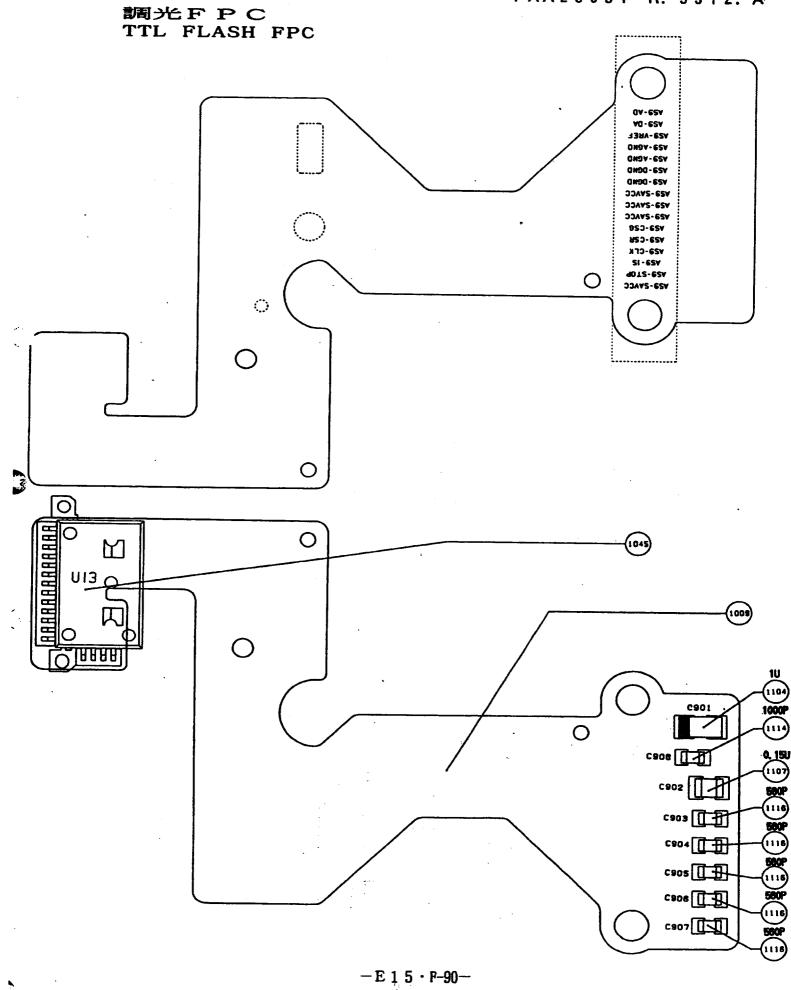




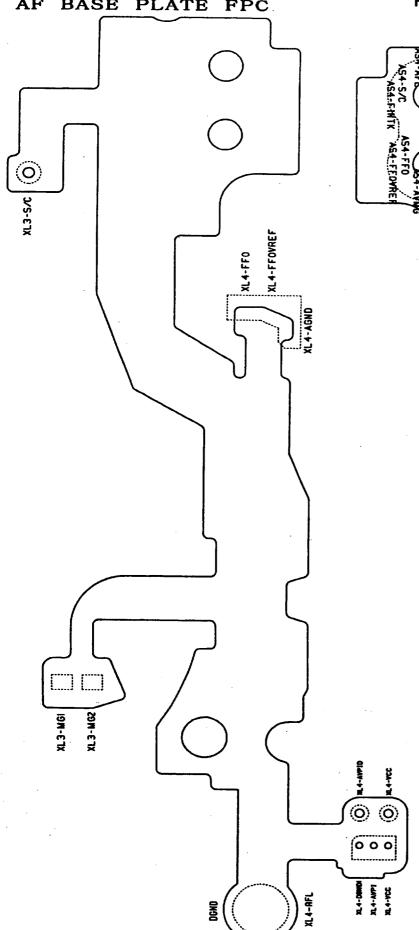
DB-DX FPC

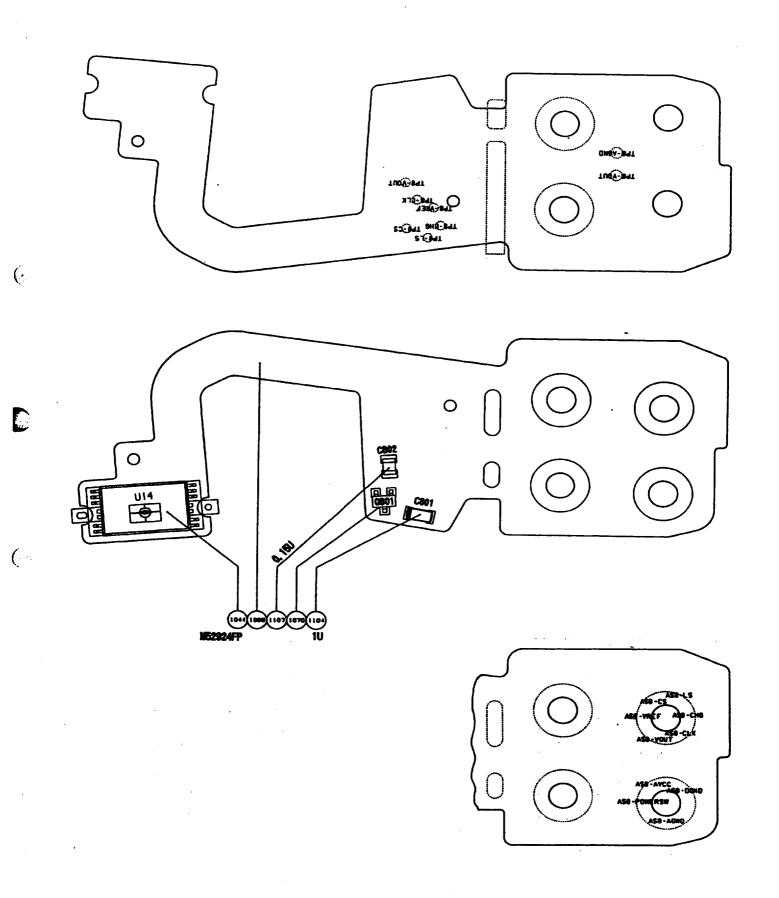


-E14·F-90-

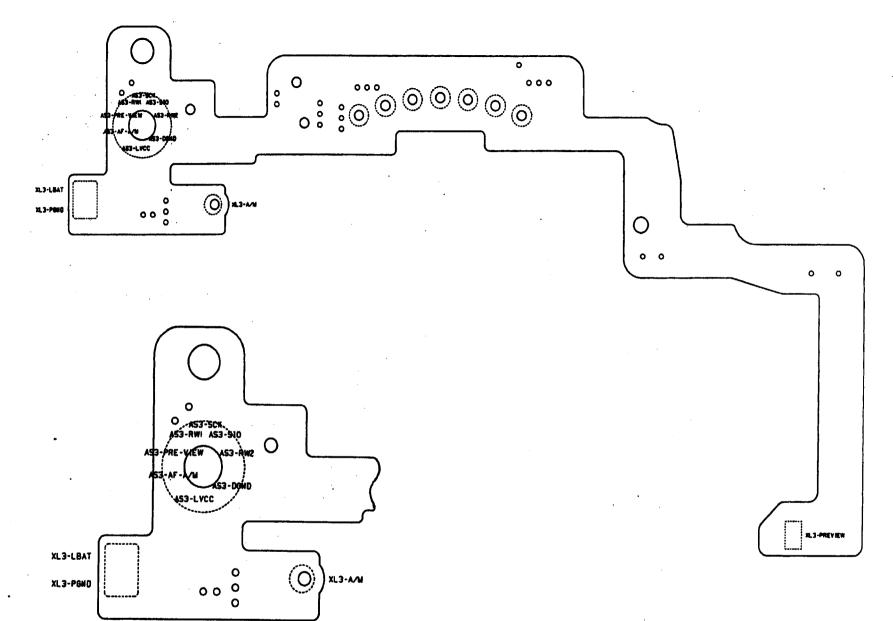


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CONTACT P C FPC



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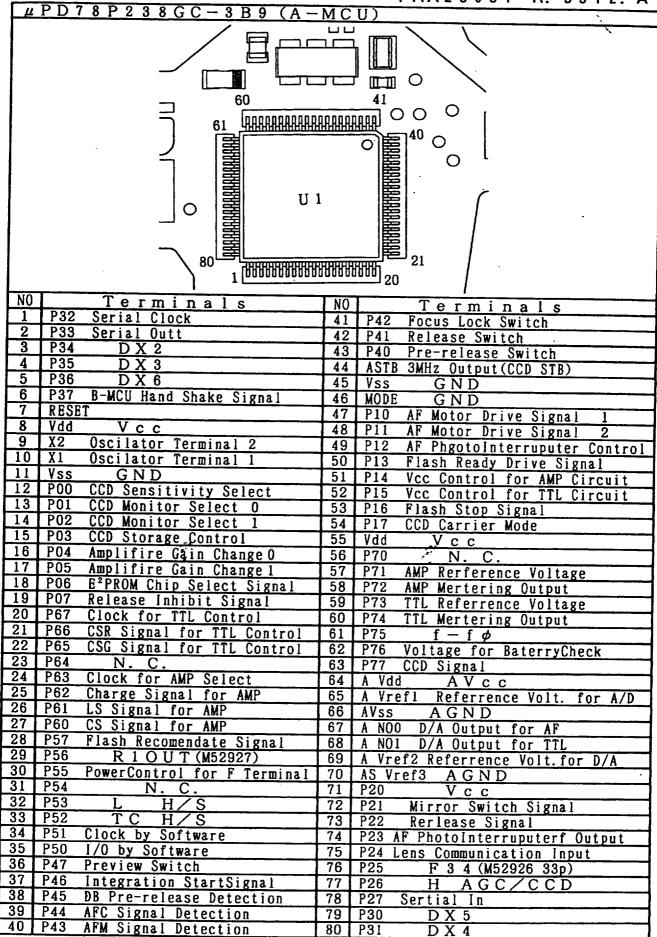
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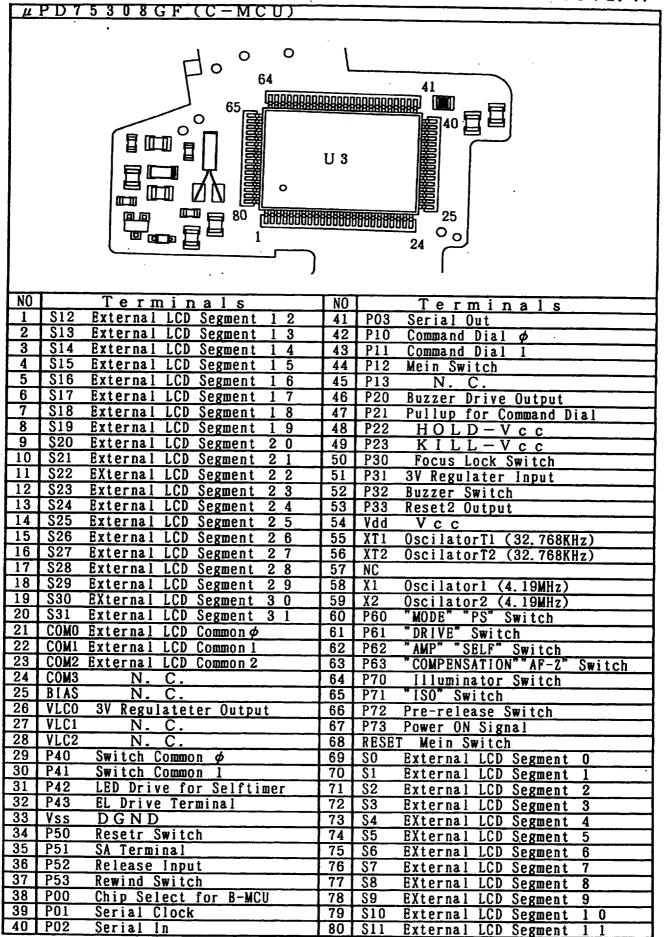
3312. A

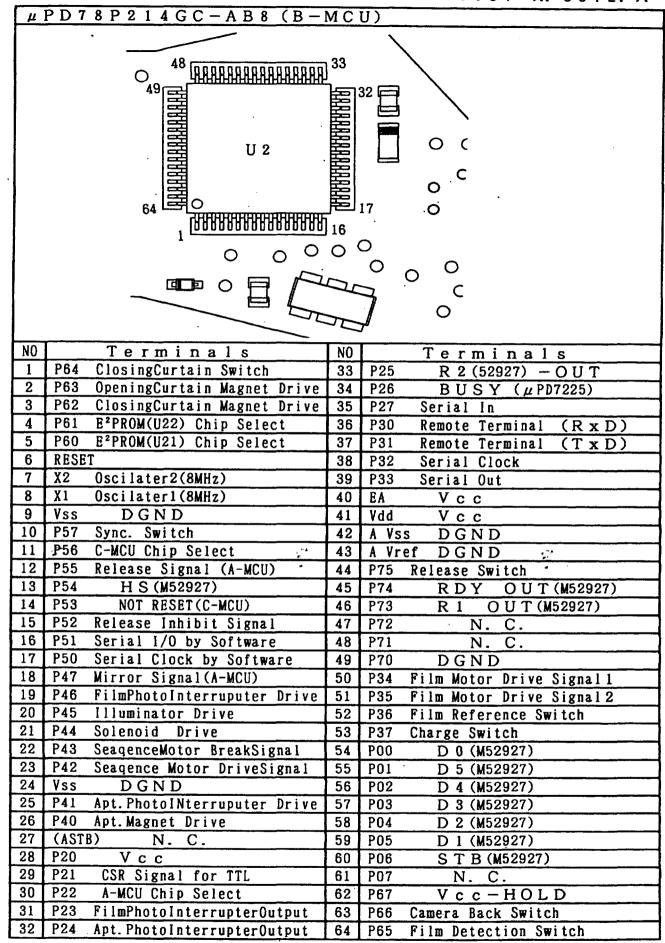
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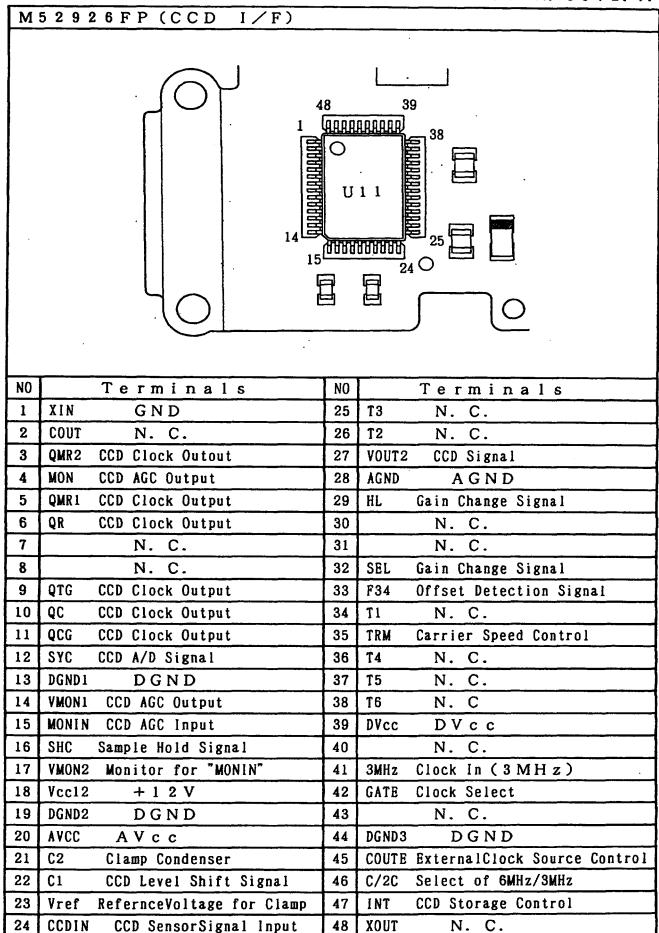
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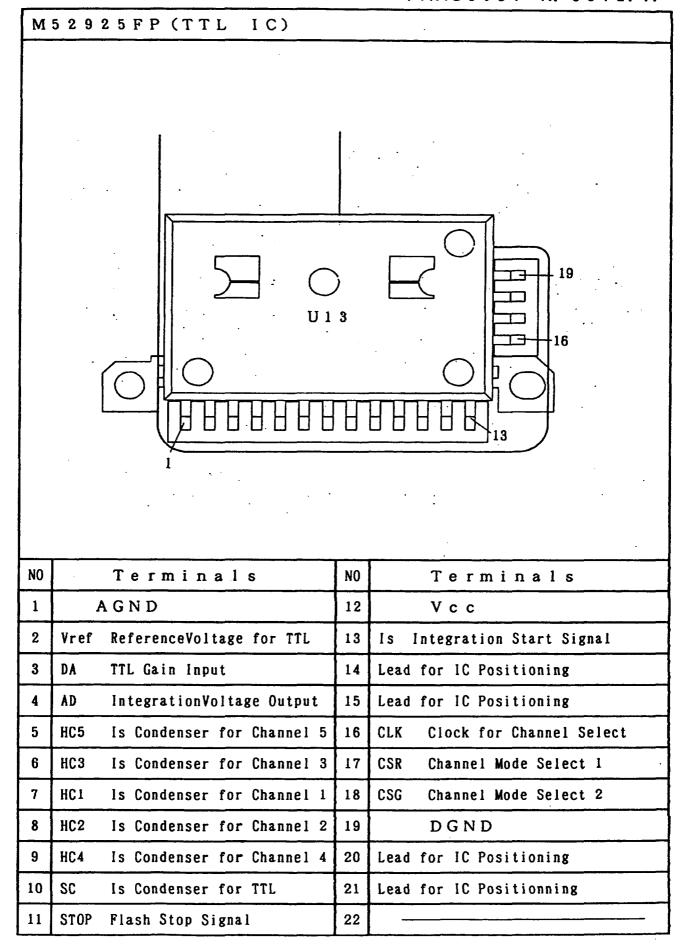
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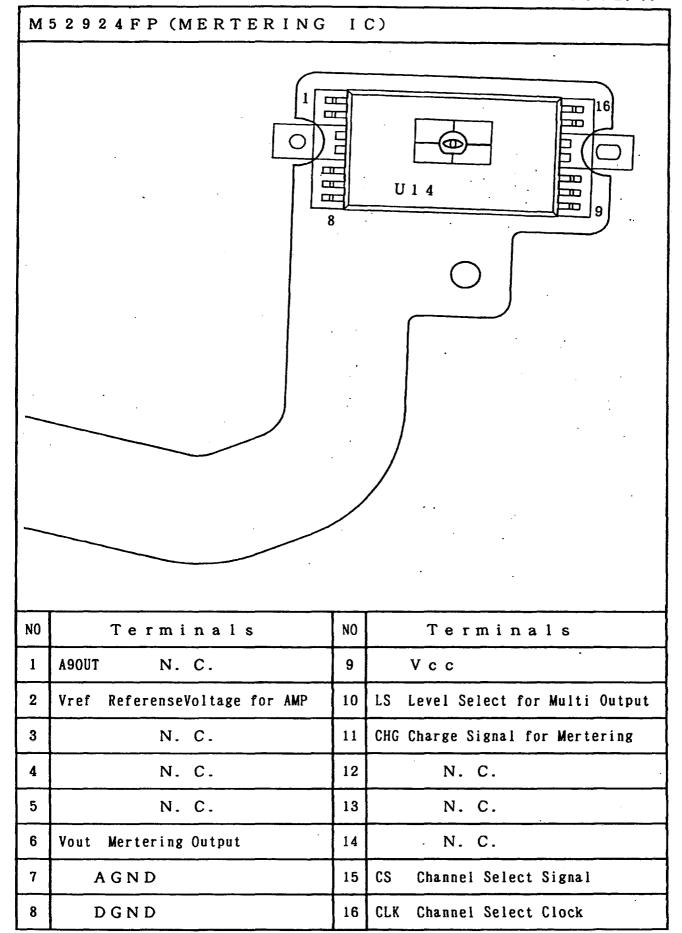












M:	M 5 2 9 2 7 F P (Accessary Inter Face)					
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1						
NO	Terminals	NO	Terminals			
1	D5 Latch Code 5	25	DB-HS DB Hand Shake Signal			
2	STB Latch Timing Signal	26	VBRESS N. C.			
3	BAT Vbat	27	VDD V d d			
4	VCC V c c	28	RESOUT Reset Signal for C-MCU			
5	IS Integration Start Signal	29	RES-2 Reset Signal for A,B-MCU			
6	RDY Ready Terminal	30	RDYLED Ready LED Control Signal			
7	TTL TTL Terminal	31	RDYOUT Ready Signal			
8	STOP Stop Terminal	32	PRINT DB Print Signal			
9	STOPC Stop-Condenser Terminal	33	X-TR2 Control Signalfor Triac2			
10	DB-HR PRE-release/release Signal	34	X-TR1 Control Signal for Triac1			
11	H-DB DB Pre-release Signal	35	SCK B-MCU Serial Clock			
12	R-DB DB Release Signal	36	SO B-MCU Serial Out			
13	RM-H Remote Pre-release Signal∳	37	HS B-MCU Hand Shake Signal			
14	WAKE Power On Signal	38	DC-DC DC-DC Converter Control			
15	H2-RM Remote Pre-release Signal2	39	HOLD-1 DC-DC Conv. Control Terminal			
16	H1-RM N. C.	40	KILL DC-DC Conv.Off Signal			
17	R2-IN Accessary control Signal2	41	RES-IN Battery Release Switch			
18	R1-IN Accessary Release in-out	42	SI B-MCU Serial In			
19	GND	43	DO Latch Code O			
.20	R2-OUT Accessary Release Signal	44	GND			
21	R1-OUT Accessary Control Signal1	45	D1 Latch Code 1			
22	DB-SCK DB Serial Clock	46	D2 Latch CODE 2			
23	DB-SO DB Serial Out	47	D3 Latch Code 3			
24	DB-SI DB Serial In	48	D4 Latch Code 4			

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Mein FPC Check Land List

MEIN	FIC CHECK Land LIS	L
Name	Terminals	Contact
TP-A5SEL	CCD I/F Gain Change	A-MCU 17p ~CCD I/F 32p
TP-AD	TTL IC A/D Output of Integration	A-MCU 60p ~TTL IC 4p
TP-AGND	AGND	
TP-ANI6	Voltage for Battery Check	A-MCU 62p ∼R4,R5
TP-ASCK	CCD I/F Offset Control	A-MCU 76p ~CCD I/F 33p
TP-ASTB	3 M H z Output	A-MCU 44p ~CCD I/F 41P
TP-AVCC	Avcc	
TP-BAT	Vbat	
TP-BCIN	Vbat	
TP-CHGSW	Charge Switch	~ B-MCU 33P
TP-CKDT	Battery Released Switch	~ACC. (Accsesary) I/F 41p
TP-CLK	TTL IC Channel Select Clock	A-MCU 20p ~TTL IC 16p
TP-CSG	TTL IC Mode Signal ø	A-MCU 22p ~TTL IC 18p
TP-CSR	TTL IC Mode Signal 1	A-MCU 21p ~TTL IC 17p
TP-DA	TTL IC Gain for TTL	A-MCU 68p ~TTL IC 3p
TP-DCDC	DC-DC Converter Control Signal	ACC. I/F 38p ~DC-DC CTL
TP-DGND	DGND	
TP-DX2	DX2 (via Resistor)	A-MCU 3p ∼DX2
TP-DX3	DX3 (via Resistor)	A-MCU 4p ∼DX3
TP-DX4	DX4 (via Resistor)	A-MCU 80p ~DX4
TP-DX5	DX5 (via Resistor)	A-MCU 79p ∼DX5
TP-DX6	DX6 (via Resistor)	A-MCU 5p ∼DX6
TP-FZAI	Film Detection Switch	∼B-MCU 64p
TP-GIRD	CCD Level Shift Clump Voltage	∼CCD I/F 21p
TP-H/R	DB Pre-release and Release Signal	DBTerminal~ACC.I/F 10p
TP-H/S	DB HandShake Signal	DBTerminal ~ ACC. I/F 25p
TP-H2RM	Pre-release Detection Signal	A-MCU 43p ~ACC. I/F 15p
TP-HL	CCD I/F Gain Control	A-MCU 16p ~CCD I/F 29p
TP-HOLDVCC	DC-DC Converter Control Signal	C-MCU 48p ~B-MCU 62p ~AC
TP-HS	Accsesary I/F Hand Shake Signal	B-MCU 13p ~ACC. I/F 37p
TP-IN1	Film Motor Drive Signal 1	B-MCU 51p ∼U32 6p
TP-IN2	Film Motor Drive Signal 2	B-MCU 50p ∼U32 7p
TP-INT	CCD Storage Control Signal	CCD I/F 47p ~A-MCU 15p
TP-INTK	Seagence Photo Interrupter (K)	~B-MCU 19p
TP-INTP	Seagence Photo Interrupter Output	∼B-MCU 31p
TP-IO	10pin conecter I/O	~ACC I/F 17p
TP-IS	Integral Start Signal	TTLIC 13p ~ACC. I/F 5p
TP-KILLVCC	DC-DC Converter Off signal	ACC. I/F40p∼C-MCU 49p
TP-MIRSIG	Mirror Signal	A-MCU 72p ∼B-MCU 18p
TP-MONIN	D/A Output forf AF	A-MCU 67p ~CCD I/F 15p
TP-PGND	PGND	
TP-PRN	DB Print Terminal	~ACC. I/F 32p

		
TP-R10UT	Accessary I/F Control Signal	B-MCU 46p ~ACC. 1/F 21p
TP-R20UT	Accessary I/F Release Signal	B-MCU 33p ~ACC I/F 20p
TP-RDYOUT	LED of Ready	~ACC. I/F 31p
TP-RESET1	Reset Signal for C-MCU	ACC. I/F 28p ∼C-MCU 68p
TP-RESET2	Reset Signal for A-MCU and C-MCU	U27 ~ ACC. I/F 29p ~B-MCU 6p~A-MCU 7p
TP-RLS	10pin Conecter Release Signal	∼ACC. I/F 15p
TP-RLSINH	Release Inhibit Signal	A-MCU 19p ∼B-MCU 15p
TP-RLSSIG	Release Detection Signal	A-MCU 73p ∼B-MCU 12p
TP-RQHOLD	Vcc Hold Signal	B-MCU 14p ∼C-MCU 36p
TP-PREF	Reference Switch	∼B-MCU 32p
TP-RX	10pin Conecter ReceiveSignal (via Diode)	~B-MCU 16p ~ACC I/F 14p
TP-SCLK	DB Serial Clock Terminal	~ACC. I/F 22p
TP-SIN	DB Sertuial In Terminal	~ACC. I/F 24p
TP-SOLESW	Solenoid Drive Signal	∼ B-MCU 21p
TP-SOUT	DB Serial Out Terminal	~ACC. I/F 23p
TP-SQ1	Seagence Motor Drive Signal	∼ B-MCU 23p
TP-SQ2	Seagence Motor Break Signal	∼B-MCU 22p
TP-STOP	Flash Stop Signal	TTL IC 11p~Hotshue
TP-SYC	H AGC/CCD	A-MCU 77p ~CCD I/F 17p
TP-SYNC5	Sync. Switch	∼B-MCU 10p
TP-SYNC11	Gate of Triac for Sync.Terminal	~ACC. I/F 34p
TP-TPHSW	Pre-release Switch	~ACC. I/F 15p
TP-TX	10pin Conecter Transmision Signal	∼B-MCU 37p
TP-URASW	Camera Back Switch	∼B-MCU 63p
TP-VCC	Vcc	
TP-VOUT2	CCD Signal Output	CCD 1/F 27p ∼A-MCU 63p
TP-VREF	TTL IC Reference Voltage	TTL IC 2p ~A-MCU 59p
TP-WUP	10pin Conecter "WAKE UP" Signal	~ACC. I/F 13p
TP-12V	12 V	
TP-1MG	Opening Curtain Magnet	∼B-MCU 2p
TP-2MG	Closing Curtain Magnet	∼B-MCU 3p
TP-2CSW	Closing Curtaun Switch	∼B-MCU 1p
WL-AF1	Power 1 for AF PhotoInterrupter	Q7~AFPINT LED (A)
WL-AF2	Power 2 for AF PhotoInterrupter	Q7~AFPINT (forOP-Amp)
WL-AF3	AF Photo Interrupter Output	∼A-MCU 74p
WL-AF4	GND for PhotoInterrupter	~DGND
WL-AF5	AF PhotoInterrupter LED (K)	~R9
WL-AFM1	AF Motor Drive Signal 1	AF Motor ∼U31 11p
WL-AFM2	AF Motor Drive Signal 2	AF Motor ~U31 13p
WL-PGND	PGND for AF Motor	~PGND

FPC Check Land LIST (#1002~#1011)

	eck Land LISI (#1002~	
名 称	内 容	接続先
Power FPC	Canada Matau Buruh Cirus	Loron(n)
TP5-R502	Seagence Motor Break Signal	Q503(B) ~R502 ~TP-SQ2
TP5-R504	Seagence Motor Drive Signal	Q502(B) ~Q501~TP-SQ1
WL5-BAT1	Battery Voltage for Solenoid	Solenoid~XL5-BAT
WL5-CHARGE	Charge Switch	~AS5-CHGSW
WL5-COIL	Solenoid	~Q504(D)
WL5-DENCHI1	Battery release Switch	~AS5-CKDT
WL5-DGND1	DGND	
WL5-DGND2	DGND	
WL5-FZAI	Film Detection Switch	~AS5-FZAI
WL5-INT/R	Seagence Photo Interrupter LED	~R501
WL5-INTP2	Seagence Photo Intertupter Output	~ASX5-INTP
WL5-KYUSKIJN	Reference Switch	~AS5-RREF
WL5-OUT1	Film Motor	∼U32 11p
WL5-OUT2	Film Motor	∼U32 13p
WL5-PGND1	PGND	
WL5-PGND2	Seagence Motor	~PGND
WL5-SEQMOT	Seagence Motor	~Q503(D)
WL5-URABT	Camera Back Switch	~AS5-URASW
WL5-VCC	Power for Photo Interrupter	~Vcc
WL5-X	Sync. Switch (Shutter)	~AS5-SYNC
Top Cover F F	°C	
TP7-5	Triac Drive Signal 1	R712~D701(A)
TP7-6	Triac Drive Signal 2	D701(K) ~D703(G)
TP7-8	Command Dial 1	∼C-MCU 43p
TP7-13	AE Lock Switch	∼WL7-AEL ∼C-MCU 50p
TP7-14	Clock (for C-MCU)	X702∼C-MCU 55p
TP7-15	"MODE""Ps" Switch	~C-MCU 60p
TP7-16	"DRIVE""SYNC" SWitch	∼C-MCU 61p
TP7-17	"測光""SELF" Switch	∼C-MCU 62p
TP7-18	"補正""AF-Z" Switch	∼C-MCU 63p
TP7-19	Illuminater Switch	∼C-MCU 64p
TP7-20	"ISO" SWitch	∼C-MCU 65p
TP7-22	Set Switch Common 1	∼C-MCU 30p
TP7-23	Set SWitch Common ϕ	∼C-MCU 29p
TP7-25	L C D Common ø	C-MCU 23p ~外部LCD 18p21p
TP7-26	L C D Common 1	C-MCU 22p ~外部LCD 19p22p
TP7-27	L C D Common 2	C-MCU 21p~外部LCD 20p23p
TP7-28	Self-Timer LED (K)	~R705~C-MCU 31p
TP7-29	E L Drive Signal 1	Q703(B) ~R713
TP7-30	E L Drive Signal 2	C713~R714
TP7-31	E L Drive Output	L701 8p ~EL
TP7-DO	Command Dial ϕ	∼C-MCU 42p
		T

TP7-HAN	Pre-release Switch	∼C-MCU 66p
TP7-IN	3 V Regulater Input	~C-MCU 51p
TP7-L4	Segment 4	C-MCU 2p~外部LCD 4p
TP7-L6	Segment 6	C-MCU 80p ~外部LCD 6p
TP7-L8	Segment 8	C-MCU 78p ~外部LCD 8p
TP7-L10	Segment 10	C-MCU 76p ~外部LCD 10p
TP7-L12	Segment 12	C-MCU 74p ~外部LCD 12p
TP7-L14	Segment 14	C-MCU 72p ~外部LCD 14p
TP7-L16	Segment 16	C-MCU 70pn~外部LCD 16p
TP7-L24	Segment 24	C-MCU 20p ~外部LCD 24p
TP7-L26	Segment 26	C-MCU 18p ~外部LCD 26p
TP7-L28	Segment 28	C-MCU 16p ~外部LCD 28p
TP7-L30	Segment 30	C-MCU 14p ~外部LCD 30p
TP7-L32	Segment 32	C-MCU 12p ~外部LCD 32p
TP7-L34	Segment 34	C-MCU 10p ~外部LCD 34p
TP7-L36	Segment 36	C-MCU 8p~外部LCD 36p
TP7-L38	Segment 38	C-MCU 6p~外部LCD 38p
TP7-L40	Segment 40	C-MCU 4p~外部LCD 40p
TP7-OUT	3 V Regulater Output	~C-MCU 26p
TP7-R714	E L Drive Control Signal	C-MCU 32p ∼R714
TP7-RDY	Ready Terminal(Hot Shue)	~AS7-RDY ~ACC. I/F 6p
TP7-RESET	Reset Switch	∼C-MCU 34p
TP7-REW	Rewind Switch:	∼C-MCU 37p
TP7-RLS	Release Switch	∼AS7-RLS ∼B-MCU 44p
TP7-STOP	Stop Terminal(Hot Shue)	~AS7-STOP~ACC. 1/F 9p
TP7-SYNCRO	Sync. Terminal (Hot Shue)	~D703(T1)
TP7-TTL	TTL Terminæl (Hot Shue)	~AS7-TTL ~ACC. I/F 7p
WL7-AEL	AE Lock Switch	~TP7-3 ~C-MCU 50p
WL7-BZ1	Buzzer	∼DGND
WL7-BZ2	Buzzer	∼C-MCU 46p
WL7-DGND1	DGND	
WL7-DGND2	DGND	
WL7-DGND3	DGND	
WL7-DGND4	DGND	
測光FPC		
TP8-AGND.	AGND	
TP8-CHG	Charge Signal for AMP (U14 11p)	∼AS8-CHG ∼A-MCU 25p
TP8-CLK	Clock for Channel Select(U14 16p)	∼AS8-CLK ∼A-MCU 24p
TP8-CS	CS Signal for AMP(U14 15p)	∼AS8-CS∼A-MCU 27p
TP8-LS	LS Signal for AMP(U14 11p)	∼AS8-LS∼A-MCU 26p
TP8-VOUT	Mertering Output(U14 6p)	~AS8-VOUT~A-MCU 58p
TP8-VREF	AMP Referende Voltage(U14 2p)	∼AS8-VREF∼A-MCU 57p

Internal LCD FPC					
WL10-ILMK	Illuminater LED (K)	~R106			
WL10-LEDCOM	Finder LED Common (A)	~AS10-BAT			
WL10-RDYK	Ready LED (K)	~R107			
WL10-SBK	Flash Recomendate LED (K)	∼R108			
10pin Connect	er FPC				
TP11-308K	Remote Terminal V c c	XL11-VCC~D308(K)			
TP11-309K	Remote Terminal Receive Signal	XL11-RX ~D308(K)			
TP11-310K	Remote Termional Vbat	XL11-VBAT1~D310(K)			
TP11-BAT	Battery Voltage	D310(A) ~XL11-VBAT			
TP11-HAN	Check Land for Pre-release Switch	AS11-HAN~半押しスイッチ			
TP11-HOLDVCC	Check Land for DC-DC ControlSignal	AS11-HVCC ~ACC. I/F 39p			
TP11-IS	Check Land for IS	AS11-IS ~ACC. I/F 5p			
TP11-PGND	PGND				
TP11-RMRX	Remote Terminal Receive Signal	D308(A) ~U24 1p			
TP11-RMTX	Remote Terminal Transmit Signal	XL11-TX ∼Q307(C)			
TP11-RX	Remote Terminal Receive Signal	U24 4p~AS-RX			
TP11-SGND	DGND for Accesasry Comunication				
TP11-SYNC	Sync. Terminal	~D307(T1)			
TP11-SYNCSW	Triac Control Signal	Q306(B) ~AS11-SYNC			
TP11-TX	Remote Terminal Transmit Signal	Q307(B) ~AS11-TX			
TP11-VBAT	Check Land for Battery Voltage	∼TP11-BAT			
TP11-VCC	Vcc	D308(A) ~Vcc			
TP11-VDD	Vdd	U24 5p~Vdd			

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VER. 1993-07-01

ADDRESS	CONTENTS	MP1	MP2	MP3	NP4	NP5	MP5. 1	M P6	REF. ADJUSTMENT
		92/04/15	92/04/23	92/05/27	92/07/17	92/09/24	92/10/15	93/03/05	DATA
0	AF ADJUSTMENT DATA								0~ 64
1	,	1	1	1	ı	ı	ı	_	_
2 4 5	AF ADJUSTMENT DATA								0~ 64
			_						
256	AE ADJUSTMENT DATA CHI								90~110
257	AE ADJUSTMENT DATA CH2								105~135
258	AE ADJUSTMENT DATA CH3								105~135
259	AE ADJUSTMENT DATA CH4								105~135
260	AE ADJUSTMENT DATA CHS						_		105~135
261	AE ADJUSTMENT DATA CH8								90~110
262	AE ADJUSTMENT DATA CH7								90~110
263	AE ADJUSTMENT DATA CH8								90~110
264	AE ADJUSTMENT DATA GAMMA								110~130
265	AE ADJUSTMENT DATA OFFSET								105~125
266	TIL ADJUSTMENT DATA NON CHI								65~ 95
267	TTL ADJUSTMENT DATA NON CH2								65~ 95
268	TTL ADJUSTMENT DATA MON CHS								65~ 95
269	TTL ADJUSTMENT DATA NON CH4								65~ 95
270	TIL ADJUSTMENT DATA MON CH5								65~ 95
271	TTL ADJUSTMENT DATA NON GANNA								120~140
272	TIL ADJUSTMENT DATA CE1								130~150
273	TIL ADJUSTMENT DATA CH2								130~150
274	TTL ADJUSTMENT DATA CHS								130~150
275	TTL ADJUSTMENT DATA CH4								130~150
276	TTL ADJUSTMENT DATA CHS								130~150
277	TTL ADJUSTMENT DATA GAMMA								130~150
278	CAMERA CONTROL DATA	10	1 0	10	1 0	10	1 0	10	
279	CAMERA CONTROL DATA	1 2 4	1 2 4	1 2 4	124	124	1 2 4	124	

ADDRESS	CONTENTS	MP1	MP2	MP3	NP4	NP5	NP5. 1	1 P6	HEF. ADJUSTMENT
		92/04/15	92/04/23	92/05/27	92/07/17	92/09/24	92/10/15	93/03/05	DATA
280	B. C ADJUSTMENT DATA								142~165
281	B. C ADJUSTMENT DATA								133~155
282	AF ADJUSTMENT DATA								35~ 73
283	CAMERA CONTROL DATA	0	0	Đ	0	0	0	0	
284	CAMERA CONTROL DATA	0	0	0	0	0	0	0	
285	CAMERA CONTROL DATA	0	0	0	0	0	0	0	
286	AF ADJUSTMENT DATA								NO REF. DATA
1	. 1	l	1	1	1	1	1	Į	
309	AF ADJUSTMENT DATA								NO REF. DATA
310	AF ADJUSTMENT DATA								NO REF. DATA
-	1	ı	1	1	ļ	1	1	1	ı
3 1 7	AF ADJUSTMENT DATA						-		NO REF. DATA
318	AF ADJUSTMENT DATA								NO REF. DATA
l	1	1	ı	ł	ı	1	1	l	1
3 2 7	AF ADJUSTMENT DATA								NO REF. DATA
3 2 8	CAMERA CONTROL DATA	40	4 0	4 0	4 0	40	40	40	
329	CAMERA CONTROL DATA	0	0	0	0	0	0	6 4	
330	CAMERA CONTROL DATA	110	110	110	110	110	110	110	
3 3 1	CAMERA CONTROL DATA	8	8	8	8	8	8	8	
3 3 2	CAMERA CONTROL DATA	10	10	10	10	10	10	10	
3 3 3	CAMERA CONTROL DATA	5 0	5 0	5 0	50	5 0	50	5 0	
3 3 4	CAMERA CONTROL DATA	48	4 8	4 9	5 0	5 0	50	5 0	
3 3 5	CAMERA CONTROL DATA	110	110	110	110	110	110	110	
3 3 6	CHECK SUM DATA								NO REF. DATA
After th	After this : product line data								

ADDRESS	CONTENTS	MP1	MP2	MP2A	МР 3	NP4	MP5	MP6	REF. ADJUSTMENT
		92/04/16	92/05/28	92/07/14	92/07/20	92/09/11	92/10/15	93/02/15	DATA
о н	CAMERA CONTROL DATA	9 5	9 5	9 5	9 5	9 5	9 5	9 5	
0 L	N 1/8000 ADJUSTMENT DATA								NO REF. DATA
1 H	CAMERA CONTROL DATA	1 2 4	1 2 4	128	1 2 8	128	128	1 2 8	
1 L	CAMERA CONTROL DATA	3 0	3 0	3 0	3 0	3 0	3 0	3 0	
2 H	CAMERA CONTROL DATA	70	70	70	70	70	70	70	
2 L	CAMERA CONTROL DATA	80	80	80	80	80	80	80	
3 Н	CAMERA CONTROL DATA	7 5	7 5	7 5	7 5	7 5	7 5	7 5	
3 L	CAMERA CONTROL DATA	60	6 0	6 0	60	60	60	60	
4 H	CAMERA CONTROL DATA	255	255	255	255	255	255	2 5 5	
. 4 L	CAMERA CONTROL DATA	10	10	10	10	10	10	10	
5 H	CAMERA CONTROL DATA	0 / 50	0 / 5 0	5 0	5 0	5 0	5 0	5 0	
5 L	CAMERA CONTROL DATA	4 0	4 0	4 0	4 0	4 0	4 0	40	
6 H	CAMERA CONTROL DATA	10	10	10	10	10	10	10	
6 L	CAMERA CONTROL DATA	10	1 0	1 0	10	10	1 0	10	
7 H	CAMERA CONTROL DATA	6 2	6 2	6 2	6 2	6 2	6 2	6 2	
7 L	CAMERA CONTROL DATA	192	192	192	192	192	192	1 9 2	
8 H	CAMERA CONTROL DATA	100	100	100	100	100	100	100	
8 L	ERROR CODE INDICATION CIRL	0	0	0	0	0	0	0	1: INDICATE
9 H	FILM LEADER CTHL.	208	208	208	208	208	208	208	0: LEAVE FILM LEADER
9 L	FILM LEADER CTRL.	7	7	7	7	7	7	7	0: LEAVE FILM LEADER
10 H	CAMERA CONTROL DATA	0	0	0	0	8	8	8	
10 L	CHECK SUN DATA								NO REF. DATA
11 H	CAMERA SETTING DATA								
			_	_	ı	I	I	_	l
24 H	CURRENT ERROR CODE	0	0	0	0	0	0	0	
24 L	NEAREST ERROR CODE	0	0	0	0	0	0	0	
AFTER THI	S CAMERA SETTING DATA, PHOTO DAT	'A							

F90 (N90) (A)-MCU EEP ROM DATA VER. 1993-01-18

ADDRESS CONTENTS FIXED VALUE (DATE AS : CPU VERSION) REF. ADJUSTMENT DATA 92/04/15 | 92/04/23 | 92/05/27 | 92/07/17 0 AF ADJUSTMENT DATA 0~ 64 1 -1 ı 0~64 2 4 5 AF ADJUSTMENT DATA 256 AB ADJUSTMENT DATA CH1 90~110 257 AE ADJUSTMENT DATA CH2 105~135 258 AE ADJUSTMENT DATA CH3 105~135 259 AB ADJUSTMENT DATA CH4 105~135 260 AE ADJUSTMENT DATA CH5 105~135 261 AE ADJUSTMENT DATA CH6 90~110 262 AE ADJUSTMENT DATA CH7 90~110 263 AE ADJUSTMENT DATA CH8 90~110 264 AE ADJUSTMENT DATA GAMMA 110~130 265 AE ADJUSTMENT DATA OFFSET 105~125 266 TTL ADJUSTMENT DATA 65~ 95 MON CH1 267 TTL ADJUSTMENT DATA MON CH2 65~ 95 268 TTL ADJUSTMENT DATA MON CH3 65~ 95 269 TTL ADJUSTMENT DATA 65~ 95 MON CH4 270 TTL ADJUSTMENT DATA MON CH5 65~ 95 271 TTL ADJUSTMENT DATA MON GAMMA 120~140 130~150 272 TTL ADJUSTMENT DATA CH1 273 TTL ADJUSTMENT DATA CH2 130~150 274 TTL ADJUSTMENT DATA CH3 130~150 130~150 2 7 5 TTL ADJUSTMENT DATA CH4 276 TTL ADJUSTMENT DATA 130~150 CH5 277 TTL ADJUSTMENT DATA GAMMA 130~150 278 CAMERA CONTROL DATA 10 10 10 10 124 279 CAMERA CONTROL DATA 124 124 124

ADDRESS	CONTENTS	FIXED VAL	UE (DATE A	REP. ADJUSTMENT		
		92/04/15	92/04/23	92/05/27	92/07/17	DATA
280	B. C ADJUSTMENT DATA					1 4 2~1 6 5
281	B. C ADJUSTMENT DATA					1 3 3~1 5 5
282	AF ADJUSTMENT DATA					35~ 73
283	CAMERA CONTROL DATA	0	0	0	0	
284	CAMERA CONTROL DATA	0	0	0	0	
2 8 5	CAMERA CONTROL DATA	0	0	0	0	
286	AF ADJUSTMENT DATA					NO REF. DATA
1	ı	I	1	l	ı	
309	AF ADJUSTMENT DATA					NO REF. DATA
3 1 0	AF ADJUSTMENT DATA					NO REF. DATA
ı	1	1	1	ı	ı	ı
3 1 7	AF ADJUSTMENT DATA					NO REF. DATA
3 1 8	AF ADJUSTMENT DATA					NO REF. DATA
1	ı	1	1	1	1	1
3 2 7	AF ADJUSTMENT DATA					NO REF. DATA
3 2 8	CAMERA CONTROL DATA	4 0	4 0	4 0	4 0	
3 2 9	CAMERA CONTROL DATA	0	0	0	0	
3 3 0	CAMERA CONTROL DATA	1 1 0	110	110	110	
3 3 1	CAMERA CONTROL DATA	8	8	8	8	
3 3 2	CAMERA CONTROL DATA	1 0	1 0	1 0	1 0	
3 3 3	CAMERA CONTROL DATA	5 0	5 0	5 0	5 0	
3 3 4	CAMERA CONTROL DATA	4 8	4 8	4 9	5 0	
3 3 5	CAMERA CONTROL DATA	110	110	110	110	
336	CHECK SUM DATA					NO REF. DATA
After th	nis : product line data					
<u> </u>						

F90 (N90) [B] -MCU EEP ROM DATA VER, 1993-01-18

ADDRESS		CONTENTS	CONTENTS FIXED VALUE (DATE AS : CPU VERSION)					
			92/04/16	92/05/26	92/07/14	92/07/20	DATA	
0	н	CAMERA CONTROL DATA	9 5	9 5	9 5	9 5		
0	L	M 1/8000 ADJUSTMENT DATA					NO REP. DATA	
1	Н	CAMERA CONTROL DATA	124	124	1 2 8	1 2 8		
1	L	CAMERA CONTROL DATA	3 0	3 0	3 0	3 0		
2	Н	CAMERA CONTROL DATA	70	7 0	7 0	70		
2	L	CAMERA CONTROL DATA	8 0	8 0	8 0	8 0		
3	Н	CAMERA CONTROL DATA	7 5	. 75	7 5	7 5		
3	L	CAMBRA CONTROL DATA	6 0	6 0	6 0	6 0		
4	Н	CAMERA CONTROL DATA	2 5 5	2 5 5	2 5 5	255		
4	L	CAMERA CONTROL DATA	1 0	1 0	1 0	1 0		
5	Н	CAMERA CONTROL DATA	5 0	5 0	5 0	5 0		
5	L	CAMBRA CONTROL DATA	4 0	4 0	4 0	4 0		
6	Н	CAMERA CONTROL DATA	1 0	1 0	1 0	1 0		
6	L	CAMERA CONTROL DATA	1 0	1 0	1 0	1 0		
7	Н	CAMERA CONTROL DATA	6 2	6 2	6 2	6 2		
7	L	CAMERA CONTROL DATA	192	192	192	192		
8	Н	CAMBRA CONTROL DATA	100	100	100	100		
8	L	ERROR CODE INDICATION CTRL.	0	0	0	0	1: INDICATE	
9	Н	FILM LEADER CTRL.	208	208	208	208	O: LEAVE FILM LEADER	
9	L	FILM LEADER CTRL.	7	7	. 7	7	O: LEAVE FILM LEADER	
1 0	Н		0	0	0	0		
1 0	L	CHECK SUM DATA					NO REF. DATA	
1 1	Н	CAMERA SETTING DATA						
ı		1		1	ı	ı	1	
2 4	Н	CURRENT ERROR CODE	0	0	0	0		
2 4	L	NEAREST ERROR CODE	0	0	0	0		
AFTER	THI	S CAMERA SETTING DATA, PHOTO DAT	ra					

SEQENCE ERROR

- Sequence error code can be monitored by external LCD after rewriting data at address 8L on EEPROM for B-MCU from 0 to 1.
- At address 24H on EEPROM B-MCU current error code is writen in, and at address 24L on EEPROM for B-MCU the error code with the nearest error code is writen in.

エラーコード	CONTENTS					
Err 01	Rear curtain SW had already turned on, before mirror up.					
Err 02	Charge SW had already turned on, before mirror up.					
Brr 03	Rear curtain SW does not turn on, when recovering Err 02.					
Err 04	Release operation, after Err 21.					
Err 14	Charge SW does not turn on, being mirror up.					
Err 21	Sync sw does not turn on, while shutter operation.					
Err 22	Rear curtain SW does not turn on, after shutter operation.					
Err 23	Rear curtain SW does not turn on, when recovering Err 01.					
Err 32	Charge SW does not turn off, when turn on solenoid (1st time).					
Err 33	Charge SW does not turn on, being mirror down					
Err 34	Charge SW does not turn off, when turn on solenoid (2nd time).					

CHECK SUM ERROR

• Sequence error code can be monitored by external LCD after rewriting data at address 8L on EEPROM for B-MCU from 0 to 1.

ERROR CODE	CONTENTS				
Brr SA	Check sum error EEPROM for A-MCU.				
Err Sb	Check sum error EEPROM for B-MCU.				

Nikon F90/N90

C	1	כ	検査規				 R 1
			Inspe	ction	stand	ards	
					I		
C	2)	工	具			 T 1
			$T \circ \circ 1$				



[1] Inspection standards

I tem.	Judgement	standards	Remarks
Shutter accuracy		(TV)	
1). Allowance	1 / 8 0 0 0	: ±0.65	Exp. mode : M S
differance	1/4000	± 0.40	
	1/2000	: ±0.25	Shutter tester
	1/1000 ~ 30	: ±0.20	
		•	
2). Irregular	1/8000	± 0.55	
		± 0.30	
	1/2000 ~ 30	: ±0.25	
Exposure accuracy		(EV)	
1). Allowance	1/6000 or more		Exp. mode : M.A.P.S.Ps
difference	Others	: ±0.65	
			Shutter tester
2). Irregular	1/6000 or more	: ±0.70	
	Others	: ±0.30	
·			
Aperture control		(AV)	
1). Allowance	LV12, F5.6		Exp. mode : P S
differance	1/125, ISO10	$0: \pm 0.50$	
	Other combination	: ±0.60	Shutter tester
2). Irregular	LV12, F5.6		Ì
	1/125, ISO10	0: ±0.50	
	Other combination		·
AF accuracy	1	(µ m)	
	1 "	: 0 ± 9 0	PC
	Others	$: 0 \pm 75$	
	, , ., .,		F90(N90) AF tool
	Lxx (ver. Hol.)	: 0 ± 5 0	
		(mrad)	
	Yaw	: 0 ± 6	
		. •=•	
	Pitch	$: \qquad 0 \pm 1 \ 5$	
General light	Practically no light le	eakage at 400,0001x	Lens cap
leakage	min. (ISO 400)		Sun light or light leakage tester Color film or Try I
Light leakage	Practically no light 1	eakage at 200,0001x	50/1.4
	min. (ISO 400)	-	Light leakage tester
between shutter	= 18. (150 100)		1 4.54

Item	Judgement standards	Remarks
Picture size	(mm) ver.: 24 + 0.4 Hol.: 36 + 0.4	
Separation between frames	2 ± 1	2 . 7 5
Picture position	$A = 0 \cdot 5 \pm 1$	
Vertical difference	H 1 - H 2 ≤ 0 . 4	Н 1
	·	^
Film scratch	Scratch should not be seen when you enlarge the film.	H 2
Battery check		Regulated DC power source
8 sec hold level	4 . 8 V ≤ V B A T < 5 . 1 V	
O sec hold level	4 . 5 V < V B A T < 4 . 8 V	
Shutter release lock level	less then 4 . 5 V	
Current consumption	Main sw OFF: 50 \(\mu \) A	Regulated DC power source 5 . 5 V + 0 . 8 \Omega
	Pre-release sw OFF: 100 \mu A	
	Pre-release sw ON: 170mA Illuminator ON: 200mA	

[2]工 具 TOOL

(:

工具番号 Tool No.	名 称 Name of tool	区分
J 1 8 2 3 4 A B C , D	点検調整用ディスク A: NEC用 5° B: * 3.5° C: IBM用 5° D: * 3.5°(1.44M format)	A
J 1 8 2 3 0	YAW、PITCH工具	A
J 1 8 2 3 2	AFチャート(縦、横)	A
J 1 1 2 1 0	AE SPD 位置だしドライバー	В
J 1 8 2 3 4 A B C D	Checking & adjustment disk for F90/N90 A: For 5 (NEC) B: For 3.5 (NEC) C: For 5 (IBM) D: For 3.5 (IBM) (1.44M format)	A
J 1 8 2 3 0	YAW, PITCH Tool	A
J 1 8 2 3 2	AF chart	A
J 1 1 2 1 0	AE SPD positioning screw driver	В