



A391A51D-101



FUJINON TV LENS

PARTS LIST

FOCUS SERVO MODULE

ESM-51D

FUJI PHOTO OPTICAL CO., LTD.

1.

Servo module : general assembly
ESM - 51D (Fig. 1)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q' ty</u>	<u>Remarks</u>
4A	33A6884630	Coupling assembly	1	
10A	101A6862690	Motor assembly	1	
E020 - 19A	338A7440000	Amplifier \$ 266	1	
1	12B4508042	Lower cace	1	
2	12B4508051	Upper cace	1	
5	16B4970420	Knob	1	
8	17B2355290	Limit pin	2	
12	23B4508140	Retaining ring	1	
13	23B4508150	Retaining ring	1	
16	32B4508310	Shaft	1	
19	33B6884650	Joint	1	
22	34B4508180	Gear shaft	1	
23	34B4508300	Herical gear	1	
26	41B4508060	Fixing block	2	
27	41B4508190	Motor bracket	1	
28	41B4508210	Motor fixing plate	1	
30	51B6884660	Rubber frame	1	
38	53B2520470	Screw	4	
39	53B4970430	Screw	1	
✓40	53B6884640	Screw	2	
43	57B3431140	Rubber cap	5	
46	58B7439980	Nameplate	1	
47	58B4508110	Nameplate	1	
E 138 50	101B4508232	Mini-motor \$ 741. ⁰⁰	1	ESCAP 34HL11 - 224E / 204.43
51	110B7440030	P.C. board	1	
53	112B6862660	Connector	1	MOLEX 51021 - 1200
54	112B6862670	Connector	1	MOLEX 51065 - 0200
55	112B6862680	Connector(CN8)	1	MOLEX 51065 - 0800
61	31K259530	Flanged ball Bearing	1	NMB LF-840ZZ
62	31K331530	Flanged ball Bearing	2	NMB LF-1680ZZ
63	31K577580	Flanged ball Bearing	1	NMB RF-830ZZ
66	33K577590	Joint	1	MIGHTY MJ-9-4
68	50K854610	Coild spring	1	
69	60K849400	"O" ring	1	

1. (continued)

A0058

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q' ty</u>	<u>Remarks</u>
72	106K259450	Power transistor	2	MOTOROLA TIP122
73	106K259460	Power transistor	2	MOTOROLA TIP127
74	112K853670	Terminal	4	
75	112K853680	Housing	1	
\$38.40 76	113K399970	Connector(CN1)	1	DDK 57-10140
79	115K366440	Insulating bushing	4	
80	115K427370	Thermally conductive insulating sheet	4	
82	110M260603K	Screw	4	
84	110M260603M	Screw	2	
85	110M260703M	Screw	3	
86	110M261500G	Screw	1	
87	110M264000G	Screw	2	
88	110M300500M	Screw	4	
92	131M140303M	Hexagon socket setscrew	1	
93	131M260403M	Hexagon socket setscrew	1	
96	165M0262K	Spring washer	2	
97	165M0262H	Spring washer	5	
98	165M0260532M	Spring washer	5	
103	182M160601H	Spring pin	1	
104	182M202001H	Spring pin	1	
107	280M300603M	Screw and washer assembly	3	
110	115R7234090	Heat shrinkable tube	1	

2. (continued)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q' ty</u>	<u>Remarks</u>
U3,4	106K853720	OP amp	2	
U5,6	106K794280	Analog switch	2	
U7	106K791400	OP amp	1	
CN3	113K799970	Connector	1	MOLEX 53047 - 1210
CN4	113K853710	Connector	1	MOLEX 53253 - 0810
CN5	113K853690	Connector	1	MOLEX 53253 - 0210
CN6	113K853700	Connector	1	MOLEX 53253 - 0410
CR1,2	106K848190	Zener diode	2	NEC
CR3,4	106K799720	Diode array	2	
CR5,6	106K851120	Diode	2	MATSUSHITA
CR7,8	106K799720	Diode array	2	
CR9 - 12	106K851120	Diode	4	MATSUSHITA
FL1,2	143K859600	Filter	2	TDK ZBF503S - 03
VR1	117R7391130	Cermet trimmer 50K Ω	1	
VR2,3	117R7391090	Cermet trimmer 5K Ω	2	8.50
VR4	117R7391110	Cermet trimmer 20K Ω	1	
VR5	117R7391100	Cermet trimmer 10K Ω	1	5.00

E 104

2.

Servo module : Amplifier
338A7440000 (Fig. 3 / 3a)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q' ty</u>	<u>Remarks</u>
C1, 2	116K854880	Capacitor 10 μ F/16V	2	Electrolytic
C3 - 6	116K799840	Capacitor 0.1 μ F/25V	4	Ceramic
C7,8	116K799830	Capacitor 0.01 μ F/50V	2	Ceramic
C9	116K854900	Capacitor 1 μ F/25V	1	Ceramic
C10,11	116K845640	Capacitor 0.022 μ F/50V	2	Ceramic
C12	116K799830	Capacitor 0.01 μ F/50V	1	Ceramic
C13,14	116K791550	Capacitor 0.01 μ F/50V	2	Ceramic
C15 - 17	116K799830	Capacitor 0.01 μ F/50V	3	Ceramic
C18 - 25	116K799840	Capacitor 0.1 μ F/25V	8	Ceramic
C27 - 29	116R7210840	Capacitor 0.01 μ F/63V	3	Ceramic
C30	116R7190220	Capacitor 0.1 μ F/50V	1	Ceramic
C31	116R7224080	Capacitor 4.7 μ F/25V	1	Electrolytic (NP)
K1	120K855730	Relay 0.5A 125VDC	1	MATSUSHITA TK1 - 12V
Q1 - 4	106K792580	Transistor	4	
Q5	106K799730	Transistor	1	
Q6	106K799740	Transistor	1	
Q7	106K799750	Transistor	1	
R1	117R7510970	Resistor 0.1W 10K Ω F	1	
R2	117R7510730	Resistor 0.1W 1.0K Ω F	1	
R3	117R7511040	Resistor 0.1W 20K Ω F	1	
R4	117R7510840	Resistor 0.1W 3.0K Ω F	1	
R5	117R7511210	Resistor 0.1W 100K Ω F	1	
R6	117R7510730	Resistor 0.1W 1.0K Ω F	1	
R7	117R7511170	Resistor 0.1W 68K Ω F	1	
R8	117R7511040	Resistor 0.1W 20K Ω F	1	
R9	117R7510970	Resistor 0.1W 10K Ω F	1	
R10	117R7510940	Resistor 0.1W 7.5K Ω F	1	
R11	117R7511240	Resistor 0.1W 130K Ω F	1	
R12	117R7511030	Resistor 0.1W 18K Ω F	1	
R13	117R7511240	Resistor 0.1W 130K Ω F	1	
R14	117R7511030	Resistor 0.1W 18K Ω F	1	
R15	117R7510970	Resistor 0.1W 10K Ω F	1	

2. (continued)

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Q' ty</u>	<u>Remarks</u>
R16	117R7511210	Resistor 0.1W 100KΩF	1	
R17	117R7511170	Resistor 0.1W 68KΩF	1	
R18,19	117R7510970	Resistor 0.1W 10KΩF	2	
R20	117R7510770	Resistor 0.1W 1.5KΩF	1	
R21	117R7510870	Resistor 0.1W 3.9KΩF	1	
R22	117R7511360	Resistor 0.1W 430KΩF	1	
R23	117R7510900	Resistor 0.1W 5.1KΩF	1	
R24	117R7510970	Resistor 0.1W 10KΩF	1	
R25	117R7510540	Resistor 0.1W 160ΩF	1	
R26	117R7510970	Resistor 0.1W 10KΩF	1	
R27	117R7510840	Resistor 0.1W 3.0KΩF	1	
R28	117R7510970	Resistor 0.1W 10KΩF	1	
R29	117R7511040	Resistor 0.1W 20KΩF	1	
R32	117R7510970	Resistor 0.1W 10KΩF	1	
R33	117R7511210	Resistor 0.1W 100KΩF	1	
R34,35	117R7510680	Resistor 0.1W 620ΩF	2	
R36 - 38	117R7210070	Resistor 0.5W 1.8ΩF	3	
R39	117R7510970	Resistor 0.1W 10KΩF	1	
R40,41	117R7511210	Resistor 0.1W 100KΩF	2	
R42	117R7510970	Resistor 0.1W 10KΩF	1	
R43,44	117R7510540	Resistor 0.1W 160ΩF	2	
R45	117R7510900	Resistor 0.1W 5.1KΩF	1	
R46,47	117R7510680	Resistor 0.1W 620ΩF	2	
R48	117R7510970	Resistor 0.1W 10KΩF	1	
R49	117R7511360	Resistor 0.1W 430KΩF	1	
R50,51	117R7511280	Resistor 0.1W 200KΩF	2	
R52	117R7511210	Resistor 0.1W 100KΩF	1	
R53 - 56	117R7511280	Resistor 0.1W 200KΩF	4	
R57	117R7511210	Resistor 0.1W 100KΩF	1	
R58	117R7511320	Resistor 0.1W 300KΩF	1	
R59	117R7511210	Resistor 0.1W 100KΩF	1	
R60	117R7511320	Resistor 0.1W 300KΩF	1	
U1	106K791400	OP amp	1	
U2	106K856250	OP amp	1	

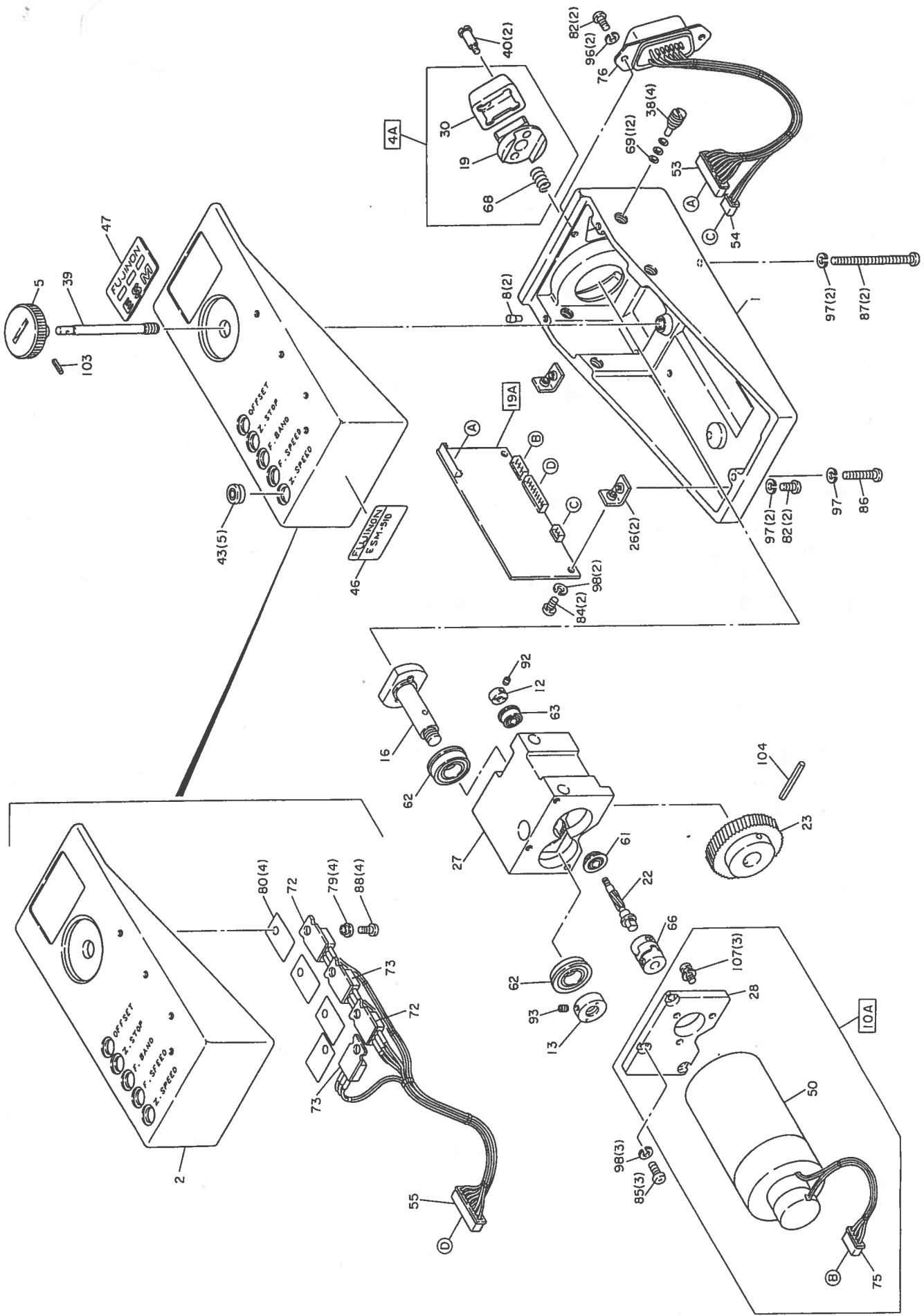


Fig. 1
Servo module: general assembly
ESM-51D