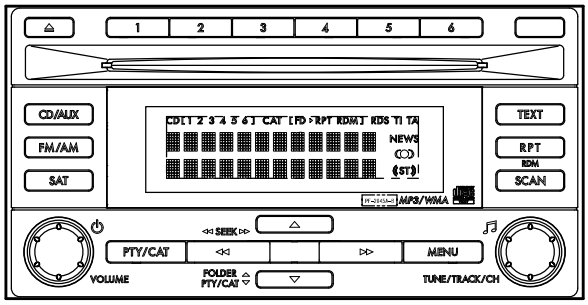
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Service Manual



SUBARU Automobile Genuine
AM/FM Radio CD/MP3/WMA Player

Model **PF-2945A-B**
(Genuine No. 86201FG601)
(ID No. CZ601U1)

Model **PF-2982B-B**
(Genuine No. 86201SC601)
(ID No. CP604U1)

ORIGINAL SERVICE MANUAL

After Serial No.56641 of this model,please confirm that and correspond to the original manual.
This additional service manual is designed to be used together with Original model.

Original model	Manual No.
PF-2945A-A	298-6487-00

DIFFERENCE FROM ORIGINAL MODEL

1. EXPLODED VIEW/PARTS LIST
2. ELECTRICAL PARTS LIST(main section)
3. CIRCUIT DIAGRAM(Add Tel-Mute Circuit)
4. MECHANISM SECTION
   (929-5000-80 →929-5000-81)

SPECIFICATIONS

Tuner section

Tuning system:	PLL Frequeency synthesizer system	
Receive range:	AM	530kHz to 1710kHz (10kHz steps)
	FM	87.75MHz to 107.9MHz (200kHz steps)
Intermediate frequency:	AM	10.7 +0.03/-0.03MHz
	FM	10.7 +0.03/-0.03MHz
Quieting sensitivity:	AM	Less than 39dBuV (at 20dB S/N)
	FM	Less than 15dBuV (at 30dB S/N)
Separation:	FM	More than 15dB
Auto stop sensitivity:	AM	35 +6/-6dBuV(DX)(2945A-B)
		55 +8/-8dBuV(LO)(2945A-B)
		41 +6/-6dBuV(DX)(2982B-B)
		61 +8/-8dBuV(LO)(2982B-B)
		(600kHz, 1000kHz, 1400kHz)
	FM	29 +6/-6dBuV(DX)(2945A-B)
		23 +6/-6dBuV(DX)(2982B-B)
		(87.9MHz,98.1MHz,107.9MHz)
S/N ratio:	AM	More than 45dB
	FM	More than 50dB

CD section

Frequency Response:	-3 +/-3(17Hz) to -1 +/-3 (20kHz)
S/N ratio:	More than 70dB (20kHz LPF JIS-A)
Separation:	More than 55dB (20kHz LPF)
MP3/WMA operations:	MP3 Sampling rate 11.025kHz-48kHz, Bit rate 8kbps-320kbps / VBR WMA Bit rate 48kbps-192kbps Logical format (File system); ISO9660 level 1, 2 or JOLIET or Romeo

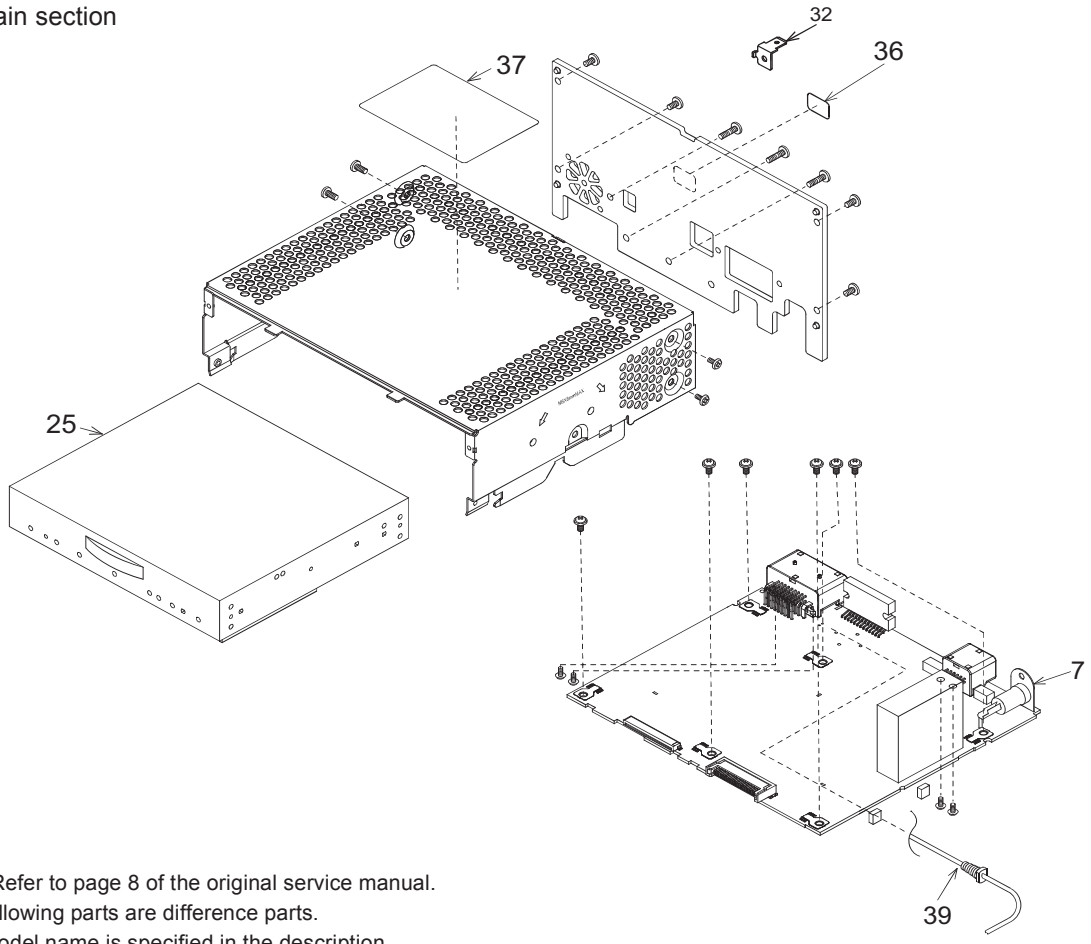
AUX section

Distortion:	Less than 1.0% (20kHz LPF)
S/N ratio:	More than 70dB (JIS-A)
Separation:	More than 55dB (20kHz LPF)

* Please measure it EQ throgh mode.Power ON.EQ throgh mode by pushed 3ch,6ch and the SOUND button.

* Please measure it auto loud function off.Power ON.The auto loud function off by pushed 1ch,6ch and the SOUND button.

Main section



Note)Refer to page 8 of the original service manual.
The following parts are difference parts.
The model name is specified in the description.

NO.	PART NO.	DESCRIPTION	Q'TY
25	929-5000-81	CD-MECH-MODULE	1
36	290-8338-41 290-8338-35	LABEL(PF-2945A-B) LABEL(PF-2982B-B)	1 1
37	276-0217-20 276-0217-22	SETPLATE(PF-2945A-B) SETPLATE(PF-2982B-B)	1 1

The following parts are up dated parts.

NO.	PART NO.	DESCRIPTION	Q'TY
7	092-0702-50	ANT-RECEPT	1
32	331-3579-20	EARTH PLATE	1

The following parts are difference parts.

NO.	PART NO.	DESCRIPTION	Q'TY
39	854-7862-50	EXTENSION LEAD	1

ELECTRICAL PARTS LIST

Main PWB(B1) section

Refer to page 10 to 12 of the original service manual.
The following parts are up dated parts.

REF No.	PART No.	DESCRIPTION
ANT101	092-0702-50	ANT-RECEPT
IC202	051-9318-00	MSM51V17400D-60TS-K
PWB	039-3180-01	PWB(WITHOUT COMPONENT)

*IC202 051-9318-10 No used this model.

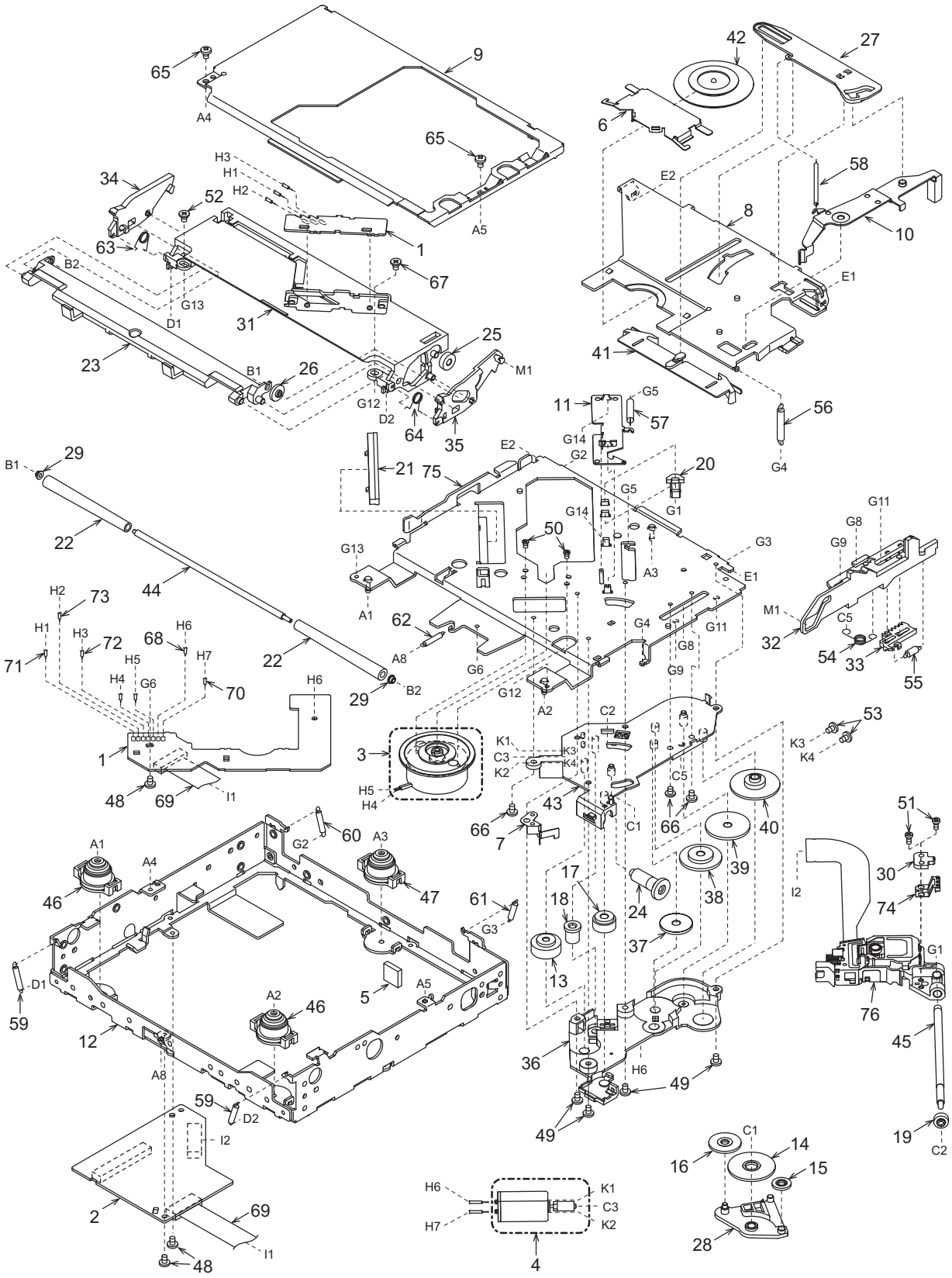
The following parts are difference parts.

REF No.	PART No.	DESCRIPTION
IC601	052-3214-13	M30873MHA-729GP

The following parts are additional parts.

REF No.	PART No.	DESCRIPTION
C817	168-1042-78	16V 0.1uF K
D805	001-0466-90	S5688B
Q804	192-4116-00	2SC4116
R817	119-4731-15	1/10W 47k ohm
R818	119-1531-15	1/10W 15k ohm
R819	119-3931-15	1/10W 39k ohm
R820	119-4721-15	1/10W 4.7k ohm

EXPLODED VIEW / PARTS LIST



NO.	PART NO.	DESCRIPTION	Q'TY
1	----------	SENSOR PWB	1
2	----------	MAIN PWB	1
3	SMA-182-100	SPINDLE MOTOR-ASSY	1
4	SMA-183-100	SLED MOTOR-ASSY	1
5	345-5476-20	CUSHION RUBBER	1
6	620-1023-23	CLAMPER PLATE	1
7	620-1026-21	SPRING PLATE	1
8	620-1596-23	CLAMPER LINK	1
9	620-1862-20	UPPER CHASSIS	1
10	620-1752-20	SENSOR ARM	1
11	620-1753-20	ID-LOCK PLATE	1
12	620-1868-20	LOWER CHASSIS	1
13	621-0608-21	SECOND GEAR	1
14	621-0609-20	BASE GEAR	1
15	621-0610-20	IDLE GEAR A	1
16	621-0611-20	IDLE GEAR B	1
17	621-0612-21	ROLLER GEAR A	1
18	621-0620-20	THREAD GEAR A	1
19	621-0621-20	THREAD GEAR B	1
20	621-0623-23	LS-HOLDER	1
21	621-0624-22	GUIDE RAIL	1
22	621-0711-21	LOADING ROLLER	2
23	621-0718-21	ROLLER GUIDE	1
24	621-0719-20	ROLLER GEAR B	1
25	621-0720-20	ROLLER GEAR C	1
26	621-0721-20	ROLLER GEAR D	1
27	621-0728-20	STOPPER LINK	1
28	621-1719-20	IDLE CASE	1
29	621-1726-20	ROLLER SLEEVE	2
30	621-1729-20	SH-BASE	1
31	621-1742-20	UPPER GUIDE	1
32	621-1743-20	SHIFT LEVER	1
33	621-1744-20	RACK	1
34	621-1745-20	LOCK ARM L	1
35	621-1746-20	LOCK ARM R	1
36	621-1747-20	GEAR COVER	1
37	621-1748-20	POWER GEAR A	1
38	621-1749-20	POWER GEAR B	1

NO.	PART NO.	DESCRIPTION	Q'TY
39	621-1750-20	POWER GEAR C	1
40	621-1751-20	POWER GEAR D	1
41	621-1752-20	DISC STOPPER	1
42	621-1753-20	CLAMPER RING	1
43	621-1754-20	GEAR BASE	1
44	622-1571-21	ROLLER SHAFT	1
45	624-0020-00	LEAD SCREW	1
46	629-0086-20	DAMPER F	2
47	629-0087-20	DAMPER R	1
48	716-1507-01	SCREW(M2x3)	3
49	716-1670-01	SCREW(M2x4)	4
50	716-1733-01	SCREW(M1.7x2.3)	2
51	716-3469-01	SCREW(1.7x4)	2
52	716-3473-01	SCREW(M2x3)	1
53	716-3551-00	SCREW(M1.4x2.5)	2
54	750-7865-20	SHIFT SPRING	1
55	750-7866-20	RACK SPRING	1
56	750-7867-20	CLAMPER SPRING	1
57	750-7868-20	ID-LOCK SPRING	1
58	750-7869-20	SENSOR SPRING	1
59	750-7870-20	DR-SPRING F	2
60	750-7871-20	DR-SPRING RA	1
61	750-7872-20	DR-SPRING RB	1
62	750-7873-20	DR-SPRING C	1
63	750-6797-20	ROLLER SPRING L	1
64	750-6798-20	ROLLER SPRING R	1
65	714-2003-8B	SCREW(M2x3)	2
66	780-2025-00	SCREW(M2x2.5)	3
67	781-1730-00	SCREW(M1.7x3)	1
68	803-4906-60	VINYL-COAT-WIRE(ORG)	1
69	816-2542-01	FLAT WIRE	1
70	816-2590-00	VINYL-COAT-WIRE(GRN)	1
71	816-2591-00	VINYL-COAT-WIRE(YEL)	1
72	816-2592-00	VINYL-COAT-WIRE(BLUE)	1
73	816-2593-00	VINYL-COAT-WIRE(PUR)	1
74	966-1722-20	SH-RACK-ASSY	1
75	966-1743-21	DRIVE-PLT-ASSY	1
76	969-0071-30	PICKUP-ASSY	1

ELECTRICAL PARTS LIST

CD PWB(BM1) section

REF No.	PART No.	DESCRIPTION
C1	168-1042-78	16V 0.1uF
C2	163-1073-35	16V 100uF
C4	178-1052-78	1uF
C5	042-0560-85	6.3V 100uF
C6	178-1052-78	1uF
C8	178-1052-78	1uF
C10	168-1042-78	16V 0.1uF
C11	168-1042-78	16V 0.1uF
C12	045-4701-50	47pF
C13	046-1532-78	0.015uF
C14	168-1042-78	16V 0.1uF
C15	046-1032-78	0.01uF
C17	046-4722-58	4700pF
C18	046-1522-58	1500pF
C19	168-1042-78	16V 0.1uF
C20	168-1042-78	16V 0.1uF
C21	046-6812-58	680pF
C22	168-1042-78	16V 0.1uF
C23	046-1532-78	0.015uF
C24	168-1042-78	16V 0.1uF
C25	045-6801-50	68pF
C26	168-1042-78	16V 0.1uF

REF No.	PART No.	DESCRIPTION
C27	046-3332-78	0.033uF
C29	046-6822-58	6800pF
C30	168-1042-78	16V 0.1uF
C31	046-4712-58	470pF
C32	046-4712-58	470pF
C33	168-1042-78	16V 0.1uF
C34	168-4732-78	16V 0.047uF
C35	168-4732-78	16V 0.047uF
C36	045-1007-50	10pF
C37	045-1007-50	10pF
C38	168-1042-78	16V 0.1uF
C39	046-5622-58	5600pF
C40	168-1042-78	16V 0.1uF
CCT1	050-0140-63	1/32W 47k ohm x4J
D1	001-0367-91	1SS226
IC1	051-6079-90	BA5830FP-E2
IC2	051-6399-00	TC94A15F
J101	074-1228-79	29P
J201	074-1138-65	15P
J301	074-1138-60	10P
Q1	131-1188-50	2SB1188PQR
R1	117-6811-15	1/8W 680 ohm

REF No.	PART No.	DESCRIPTION
R2	117-1001-15	1/8W 10 ohm
R3	033-2211-15	1/10W 220 ohm
R5	033-0000-05	1/10W 0 ohm
R6	033-5621-15	1/10W 5.6k ohm
R7	033-4731-15	1/10W 47k ohm
R8	033-3341-15	1/10W 330k ohm
R9	033-2231-15	1/10W 22k ohm
R10	033-2231-15	1/10W 22k ohm
R11	033-2731-15	1/10W 27k ohm
R12	033-4731-15	1/10W 47k ohm
R13	033-2731-15	1/10W 27k ohm
R14	033-1531-15	1/10W 15k ohm
R15	033-2731-15	1/10W 27k ohm
R16	033-8231-15	1/10W 82k ohm
R17	033-2731-15	1/10W 27k ohm
R18	033-8231-15	1/10W 82k ohm
R19	033-1051-15	1/10W 1M ohm
R20	119-2221-15	1/10W 2.2k ohm
X2	061-3534-90	16.92MHz
PWB	039-2741-20	PWB(WITHOUT COMPONENT)

Sensor PWB(BM2) section

REF No.	PART No.	DESCRIPTION
D1	001-7058-90	AN1105W-RR
D2	001-7058-90	AN1105W-RR
J1	074-1138-60	10P

REF No.	PART No.	DESCRIPTION
Q1	060-4015-91	PS1192HB
Q2	060-4015-91	PS1192HB
S1	013-7414-50	CHUCKING

REF No.	PART No.	DESCRIPTION
S2	013-7413-50	LIMIT
PWB	039-2675-20	PWB(WITHOUT COMPONENT)