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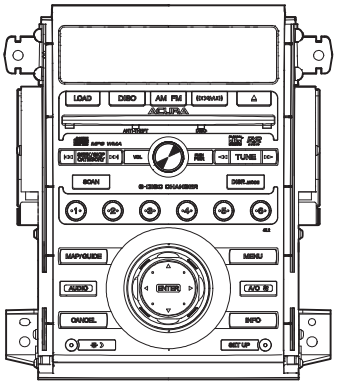
Service Manual



(PH-2644B-E)

HONDA Genuine
6-DVD disc changer component

Model PH-2644B-E
(Genuine No. 39100-SJA-A010)
(ID No. 4XL2)

Model PH-2644B-F
(Genuine No. 39100-SJA-C010)
(ID No. 4XL3)

DIFFERENCE FEATURE LIST

Clarion No.	Satellite broadcasting.
PH-2644B-E	With XM Radio control function
PH-2644B-F	Without XM Radio control function

ORIGINAL SERVICE MANUAL

This additional service manual is designed to be used together with Original manual.

Original model	Manual No.
PH-2644B-A / B-B	298-6178-00 298-6178-01

DIFFERENCE FROM ORIGINAL MODEL

1. Difference the external parts.
2. Change of the Main PWB
   updated together with the original model
   (from 039-2580-00 to 039-2580-02)
3. WMA is added. (chenge system controllor IC)

SPECIFICATIONS

Radio section

Tuning system:	PLL frequency synthesizer system	
Receive range:	AM	530kHz to 1,710kHz 10kHz STEP
	FM	87.75MHz to 107.9MHz 200kHz STEP
Quieting sensitivity:	AM	Less than 35dBu (at 20dB S/N)
	FM	Less than 15dBu (at 30dB S/N)
S/N:	AM	More than 40dB
	FM	More than 45dB
Auto tuning stop sensivity:		
	AM	35 +6/-6 dBu
	FM	25 +6/-6 dBu

DVD / CD section

Disc format:	CD-DA, CD-R/RW, DVD-Audio, DTS : (12cm)
Separation:	More than 60dB
S/N:	More than 80dB

MP3 mode

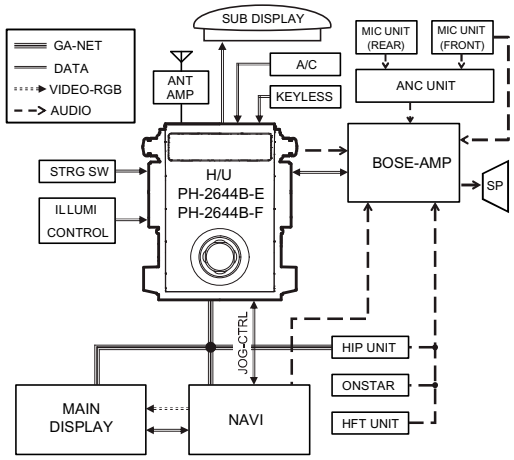
Sampling rate:	MPEG1 : 32kHz, 44.1kHz, 48kHz MPEG2 : 24kHz, 22.05kHz, 16kHz
Bit rate:	MPEG1 : 32k to 320kbps MPEG2 : 8k to 160kbps
Logical Format:	ISO9660 level1, 2 Romeo or Joliet

WMA section

Ver 7:	128kbps : 44.1kHz 96kbps : 44.1kHz 64kbps : 44.1kHz 48kbps : 32kHz 32kbps : 32kHz
Ver 8,9:	192kbps : 48kHz / 44.1kHz 160kbps : 48kHz / 44.1kHz 128kbps : 48kHz / 44.1kHz 96kbps : 44.1kHz 80kbps : 44.1kHz 64kbps : 44.1kHz 48kbps : 44.1kHz / 32kHz 40kbps : 32kHz 32kbps : 44.1kHz / 32kHz / 22.05kHz 22kbps : 22.05kHz 20kbps : 22.05kHz

pin 85: AUX : IN : AUX-IN detection terminal.
pin 86: NU : - : Not in use.
pin 87: ACC DET : IN : ACC detection signal input.
pin 88: EJECT SW : IN : Eject switch signal input.
pin 89: BU DET : IN : Backup detection signal input.
pin 90: TIME BASE : IN : Time base pulse input.
pin 91: ILL DET : IN : Illumination ON signal input.
pin 92: DAC CE : O : The chip enable signal output to the DAC.
pin 93: DAC RESET : O : Reset pulse output to DAC.
pin 94: FLASH PORT : O : For the flash memory.
pin 95: DAC DO : O : The serial data output to the DAC.
pin 96: DAC CLK : O : The clock pulse output to DAC.
pin 97: BOSE Amp RX : O : The serial data input from BOSE AMP.
pin 98: BOSE Amp TX : O : The serial data output to BOSE AMP.
pin 99: EEP ROM DI : IN : The serial data input from the EEP-ROM.
pin100: AIRCON DATA : IN : The serial data input from the air controller.

SYSTEM DIAGRAM



DIFFRENCE EXPLODED VIEW / PARTS LIST

Escutcheon section

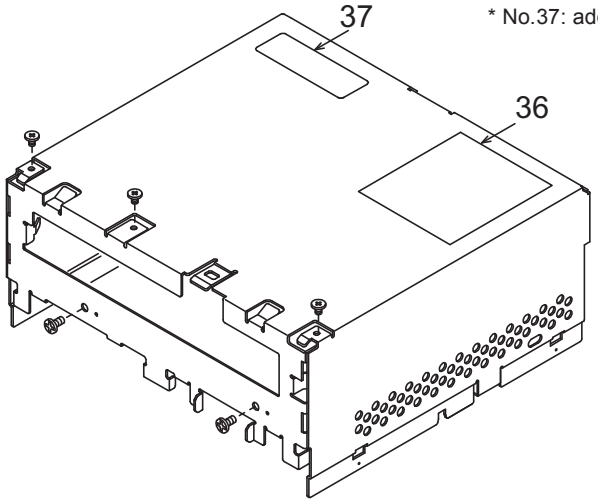
Difference the following parts in the parts list (page6)
Same parts depend on each model.
The model name is specified in the description.

NO.	PART NO.	DESCRIPTION	Q'TY
1	940-8047-11 940-8071-11	ES-ASSY(PH2644BE) ES-ASSY(PH2644BF)	1
3	947-0558-01	JOG CONTROLLER	1
6	335-7274-10	WOOD PANEL	1
8	382-7086-01	BUTTON	1
9	382-7087-01	BUTTON	1
13	714-2606-8B	MACHINE SCREW(M2.6 x 6)	3
14	716-0778-51	WAVE SCREW(2 x 6)	12
15	716-0878-50	IT-SCREW(M2.6 x 5)	8
16	716-1573-50	SPECIAL SCREW(2.6 x 6)	4

Main section

Difference the following parts in the parts list (page7,8)
Same parts depend on each model.
The model name is specified in the description.

NO.	PART NO.	DESCRIPTION	Q'TY
12	714-2606-8B	MACHINE SCREW (M2.6x6)	3
13	716-0878-50	IT-SCREW (M2.6x5)	1
14	778-3006-50	TAP-SCREW (3x6)	2
23	331-3858-02	MECH-BRKT	1
24	335-7275-01	FFC-HOLDER	1
26	929-2502-01	DVD CHANGER MECHANISM	1
29	714-2606-8B	MACHINE SCREW (M2.6x6)	12
30	714-3005-8A	MACHINE SCREW (M3x5)	2
31	716-0678-50	SPECIAL SCREW (M5x8)	3
32	716-0821-53	IT-SCREW (M3x5)	2
33	716-0878-50	IT-SCREW (M2.6X5)	4
34	716-3504-50	SPECIAL SCREW (M2.6x4)	3
35	731-3005-8A	TAPTIGHT (M3x5)	2
36	286-6491-02 286-6491-22	SETPLATE (PH2644BE) SETPLATE (PH2644BF)	1
37	285-1960-00	GUIDE LABEL (WMA)	1



* No.37: additional part

DIFFERENCE ELECTRICAL PARTS LIST

(Refer to the original service manual,page 8 to 12)

Main PWB(B1) section

Removed the follwing parts in the parts list.

REF No.	PART No.	DESCRIPTION
C302	042-0643-52	6.3V 1000uF
C303	168-1032-55	0.01uF K
C304	042-0643-51	16V 100uF
C305	178-1052-78	1uF
C308	178-1052-78	1uF
C309	178-1052-78	1uF
C356	168-1042-78	16V 0.1uF
C503	163-1053-65	50V 1uF
C510	163-1063-35	16V 10uF
C511	163-1053-65	50V 1uF
D301	001-0367-91	1SS226
D501	001-0516-90	MA111
D502	001-0354-91	MA151WK

REF No.	PART No.	DESCRIPTION
IC302	051-5336-90	MM1227
L301	010-2279-50	4.7uH
Q501	193-0601-00	2SD601A
Q509	125-0002-93	RN2403
Q510	193-0601-00	2SD601A
R301	119-4731-15	1/10W 47k ohm
R302	032-0166-00	1/4W 75ohm
R416	119-1041-15	1/10W 100k ohm
R423	119-1041-15	1/10W 100k ohm
R494	119-0000-05	1/10W 0 ohm JW
R496	119-0000-05	1/10W 0 ohm JW
R504	119-1041-15	1/10W 100k ohm
R506	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R512	119-5621-15	1/10W 5.6k ohm
R514	119-4721-15	1/10W 4.7k ohm
R515	119-5621-15	1/10W 5.6k ohm
R516	119-3321-15	1/10W 3.3k ohm
R524	119-2221-15	1/10W 2.2k ohm
R525	119-1041-15	1/10W 100k ohm
R527	119-1031-15	1/10W 10k ohm
R529	119-5621-15	1/10W 5.6k ohm
R530	119-5621-15	1/10W 5.6k ohm
R532	119-2221-15	1/10W 2.2k ohm
*R577	119-0000-05	1/10W 0 ohm JW
*R657	119-0000-05	1/10W 0 ohm JW

*R577,*657 Modified pattarn of Main PWB and short circuited.(No used 0 ohm resistor)

Other parts were not used although mounted in the original model.

The following parts are the change parts.

REF No.	PART No.	DESCRIPTION
C142	043-0563-90	16V 47uF N.P
C143	043-0547-50	16V 3.3uF N.P
C149	043-0563-90	16V 47uF N.P
C618	042-0643-51	16V 100uF
IC404	052-3190-11	uPD70F3035BYGC-8EU
R366	119-9121-15	1/10W 9.1k ohm

REF No.	PART No.	DESCRIPTION
R367	119-9121-15	1/10W 9.1k ohm
R368	119-9121-15	1/10W 9.1k ohm
R369	119-9121-15	1/10W 9.1k ohm
R370	119-1041-15	1/10W 100k ohm
R371	119-1041-15	1/10W 100k ohm
R372	119-1041-15	1/10W 100k ohm
R373	119-1041-15	1/10W 100k ohm

REF No.	PART No.	DESCRIPTION
R421	119-1041-15	1/10W 100k ohm
R424	119-1041-15	1/10W 100k ohm
PWB	039-2580-02	PWB(WITHOUT COMPONENT)

REF.No. C112 and C127 is changed as C182 and C186.Because,it was changed the ceramic condenser from the electroiytc condenser and condenser form changed.Then,the installation position on a printed wiring board changed.But it does not change on a circuit diagram.

REF No.	PART No.	DESCRIPTION	OLD REF No
C182	178-1052-78	1uF	C127
C186	178-1052-78	1uF	C112

The following parts are the additional parts.

Note) Same parts depend on each model.
The model name is specified in the description.

REF No.	PART No.	DESCRIPTION
C431	166-1011-50	100pF CH
C432	166-2201-50	22pF CH
C433	166-2201-50	22pF CH
R159	116-8211-15	1/4W 820 ohm
R583	119-0000-05	1/10W O ohm JW (Use only PH2644BF)

REF No.	PART No.	DESCRIPTION
R584	119-0000-05	1/10W O ohm JW (Use only PH2644BE)
R587	119-0000-05	1/10W O ohm JW

In-dash 6disc CD/DVD Autochanger Mechanism section

The changed parts from 929-2502-00 to 929-2502-01

DIFFERENCE EXPLODED VIEW

Difference the following parts the part list (M11)

NO.	PART NO.	DESCRIPTION	Q'TY
92	658-0243-01	Disc Holder L	1
118	658-0243-02	Disc Holder U	1