2003.5 MY MIDLINE

Tape/CD

Single Tuner/Two Tuner Diversity

European/USA/GCC/Asia

Notes

1. 100nF CAPS MUST TO BE CLOSER TO IC VDD PINS THAN 50MF CAPS

2. C745,C746,C747,L701 to be placed near the micro

Unless otherwise stated:
- Resistors are 0603, 1%. If a different package style is specified tolerance is 5% if not otherwise stated.
- Capacitors, non-electrolytic are 0603, 10%
- Capacitors, electrolytic are radial, 20%

Wave solder teardrops on leaded IC trailing pins are shown:

Items still to be resolved:
None.

MECH DATA

pelmia

CONCISE NAME	CAT/CLUSTER
2/4 Channel Sense	2_4_SN
ACP Line Driver	ACP
Amplifiers	AMP
Audio Signal Processor	ASP
AVC Interface	AVC
Battery Voltage Filtering	BATVLT
Single CD Power & Interface	CD
Connector, 27-Way	CON_27
Connector, 12-Way	CON_12
Connector, Diversity Front	CON_FD
Connector, Removable Bezel	CON_RM
Diversity	DIVERS
Flashing LED Power	FLASH
Illumination Buffer	IL_BUF
Illumination LED Power	IL_PWR
Illumination Wakeup	IL_WK
Keycode Dump	KEYDMP
Microprocessor	MICRO
Phone Mute Interface	PHONE
RDS Decoder	RDS
Voltage Monitor	MONITR
Front Panel Interface & Pre-amp	FPANEL
Tuner 1	TUNER1
Tuner 2	TUNER2
Voltage Regulator	VREG

PART / ASSEMBLY NAME	PRT / ASSY NUM
Daughter Board	YS4F-14A588-JA
Mother Board	YS4F-14A615-JA

NUMBERING SYSTEM

00	Front Board
050	Voltage Regulator & Amplifiers
100	Tuner (Internal AM)
200	Tuner (Internal AM)
300	Tuner (Internal PLL Synthesizer)
350	Tuner (Power Supply)
400	Interface Circuitry
500	Audio Signal Processor
600	Tape Circuitry
700	Tape & Single CD
750	Micro
800	Diversity
900	Illumination Power
1000	Tuners, Connectors & Miscellaneous
3000	Rear Board
9000	Jumpers and Terminations for Depopulated Sections of Circuitry

PART PART CONFLICT WITH SPECIFICATION NOS:PRAPRO00-01
TO MEET EUROSAMPE RULES, SAFETY AND THE ENVIRONMENT

Visteon PRODUCT ENGINEERING

COMPUTER MANUAL "E" SIZE APPERTURE ONLY

ON ENGINE / GRAPHIC NOTE LEVEL DIMENSIONAL NOTE NOTE

CALCULATE	1	2	3	4	5	6	7	8
DECIMAL	.0	.00	.000	.0000	.00000	.000000	.0000000	.00000000
DO NOT SCALE								

DRAWN BY	DATE	CHECKED	SCALE	APPROVED
A MCCALL	0000/0/0	NONE		0000/0/0

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN mm
TOLERANCES
MACHINED DIA. +/-
BEND.R .5R +/-

DIE ANGLE PROJECTION
STAMPED DIM. +/-

MATERIAL

APP

DATE

NAME

SHEET1 - WIRING DIAGRAM
2003.5 MY MIDLINE RADIO MAIN BOARD

No.

MS-YS4F-3458-JB

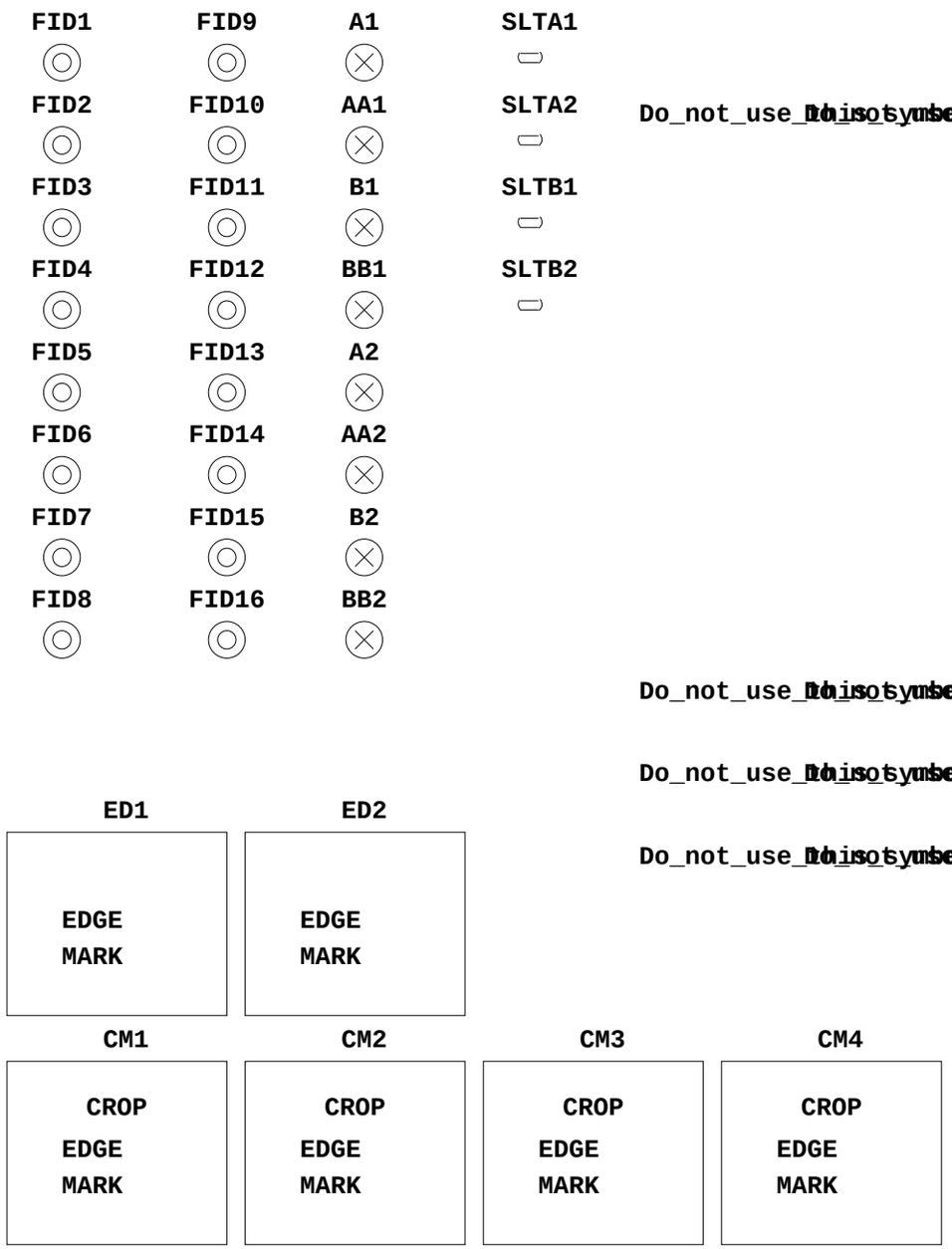
PWB 12270 & 12399

PLANT CODE: FALMOLA

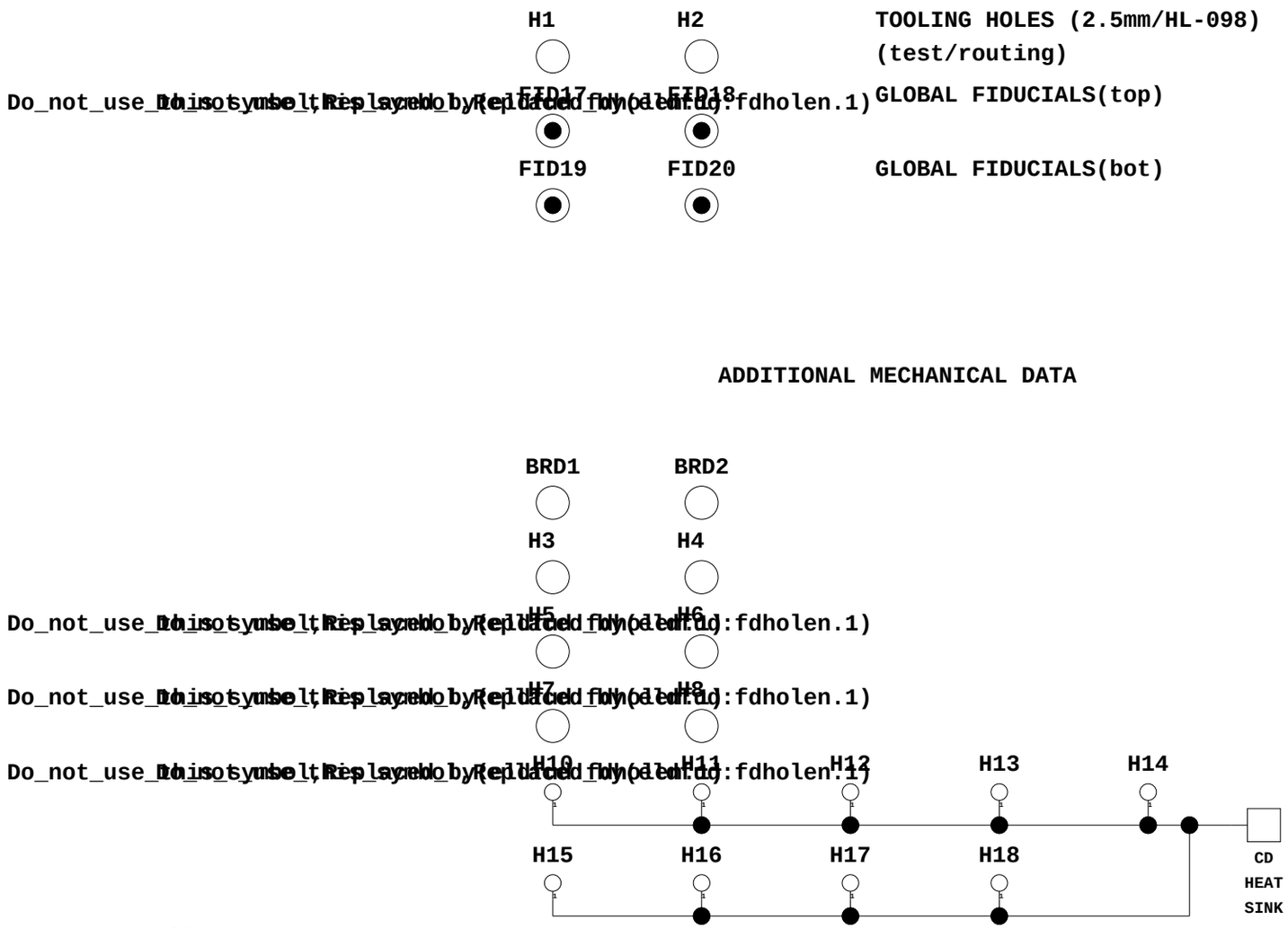
DATE	ENGINEER	REVISION
28 Oct 1999	DMCCALLS	Change DAT1 to keyed 5V & FM (TAN1) and FM only (TAN2). Delete AM line from TUN2 to ASP. Delete Pin 3 of CN300 & Move TUN400MPX on Pin13 of TUN1 to Pin14.
02 Nov 1999	DMCCALLS	Change Display and Note lighting power from 3v3v to 9v.Delete Diversity Tuner Pin isolate 9v_DW supply from PWR.
08 Nov 1999	DMCCALLS	ADD R-wire PL tape connector connector. Placed on top of existing 10-way connector. Allowing to block placement of incorrect connector. Add 10ohm resistors & test point for 12A of TP1 mod production.
22 Nov 1999	DMCCALLS	ADD R0E20 and R0E21 for tape connector placement.
22 Nov 1999	DMCCALLS	Move pull-ups for CLIP and DIAGNOSTIC from 5V_MEM to 5V_DW.
22 Nov 1999	DMCCALLS	R05 testpoint from 0R to 4R 7Ohm.
22 Nov 1999	DMCCALLS	Remove R7N2 & C7N3 since LPF is repeated in diversity circuit.
22 Nov 1999	DMCCALLS	Change IC600 package from SOIC to TSSOP to carrier body 8BSC. (part number is incorrect).
22 Nov 1999	DMCCALLS	Provide ATN pull-ups on all flash programming clock & data lines. Provide pull-ups on PHONE_MUTE,BATVOBS. Change pullups R1131 & R1132 from 5V_DW to 5V_MEM. (Pull-up for TAPE_IN / SDA on Master.)
22 Nov 1999	DMCCALLS	ADD0E0 auxiliary connectors for connection of any additional modules in the future. (Pin 1 of CN1 and 2B2.
24 Nov 1999	DMCCALLS	Swapped TAPE_IN and TAPE_AMB connections. Moved R0E2, TAPE_MUTE pull-up from 5V_DW to 5V_MEM.
02 Dec 1999	DMCCALLS	Delete R0B03 - no keying for 12A tape deck connection.
06 Dec 1999	DMCCALLS	Delete 2B2. Connection to that IC can be used for power & control of auxiliary amplifier. 2B1 and 2B3.
31 Jan 2000	DMCCALLS	Add R7E3 for ESD protection on analogue remote lines.
15 Mar 2000	DMCCALLS	Change tuners' power supply. Remove R1101 & R1201. Add R1100 & R1200.
15 Mar 2000	DMCCALLS	Replace -4R diversity connectors with with 4mm. Refer new pin numbering.
30 Aug 2001	CPINTO	Change tuners' power supply. Remove R1101 & R1102, ADD R1101,R1102,R1104, R1105,R1202,R1203, R1204,R1205,C1101,C1102. Change tuner pull-up resistors. Remove R1103 & R1104. Change CD circuitry add R7N4,R7N5,R7N2, R7N3.
10 Jan 2003	CPINTO	Replace CD single connector self(J7)
29 Mar 2003	CPINTO	Change CD circuitry to 8/16w:add 5R or 33R CD Mechanism Add R7T8,R7N6,R7N1, R7N4,R7N7,R7N8,R7N9
	CPINTO	Replace MOS IC TDA7391D with TDA7391SP13TR Change micro circuitry to allow use the micro ST92F124 or ST92F124 Remove C741,C744,C928 Add L701,C716,C717, C718,C719,C720,C745, C746,C747,C940,C941, C942,C943
24 Jan 2003	CPINTO	Change R7T6,R7T4,R7U7, R7N9 from 5V_MEM line to 5V_DW line Add R7U4

PALMELA MECHANICAL DETAIL (SPLIT PANEL)

MOTHERPANEL DETAIL



DAUGHTER BOARD DETAIL



NOTE: ADDITIONAL MECHANICAL/ELECTRICAL REQUIREMENTS

TO BE ADDED TO THIS TABLE.