

## 9. Service menu (GUI)

### 9-1. Making of Service SD Card

The Service SD card is required to display the service menu on GUI screen.

1. Download the file “**Service SD Card**” from Global Service Web Site.
2. Copy the file “**Service SD Card**” to hard disk of your PC and extract the file “**Service SD Card**”.
3. Insert a formatted SD card into the card slot of PC and copy the folder “**PRIVATE**” to SD card. The downloaded file “**passwd**” is included in folder “**PRIVATE**”.

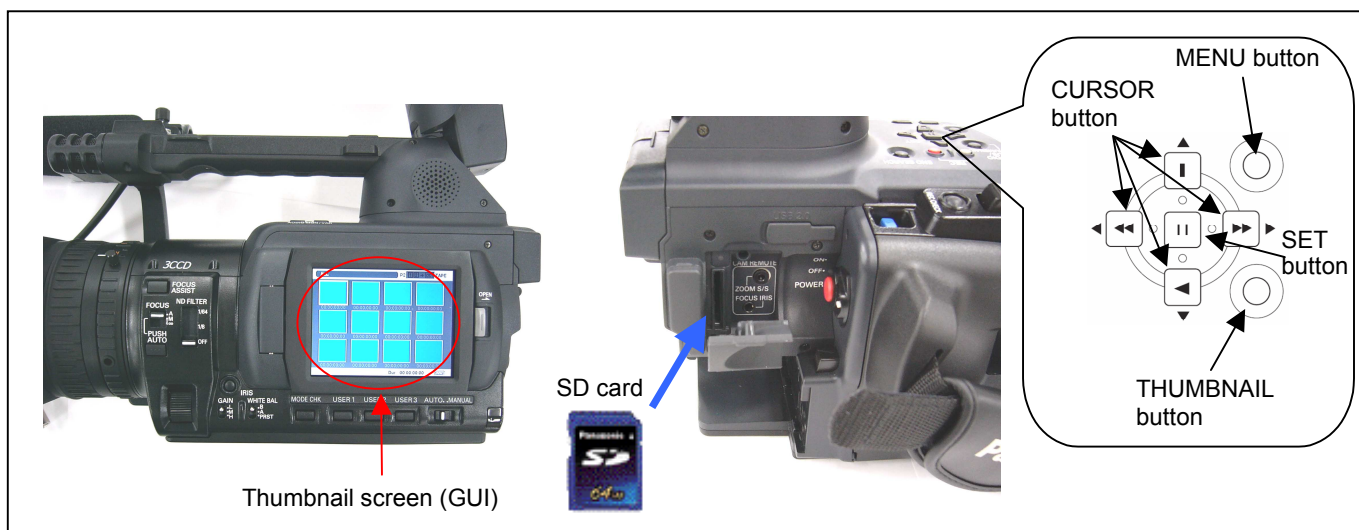
**NOTE:** Do not change the construction of folder and file name. The folder construction shown in the following and top of directory should be “**PRIVATE**”.

Folder: **PRIVATE \ MEIGROUP \ PAVCN \ SBG \ P2SD \ mntnc \**

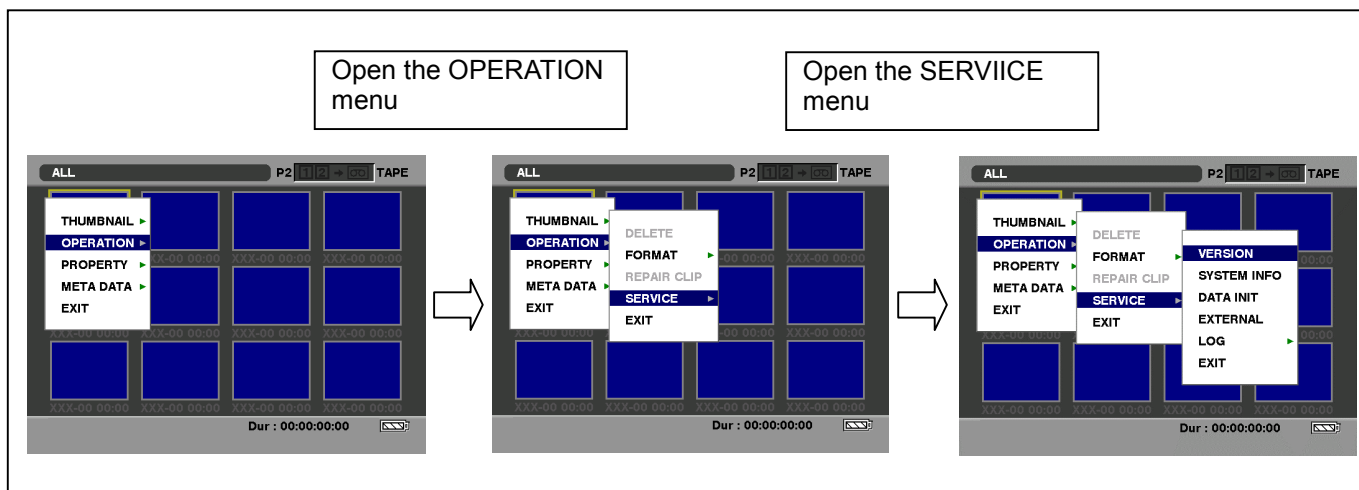
File Name: **passwd**

### 9-2. How to open the menu

1. Press the **THUMBNAIL** button to display the thumbnail screen.
2. Insert a Service SD card into the SD card insertion slot of this unit.



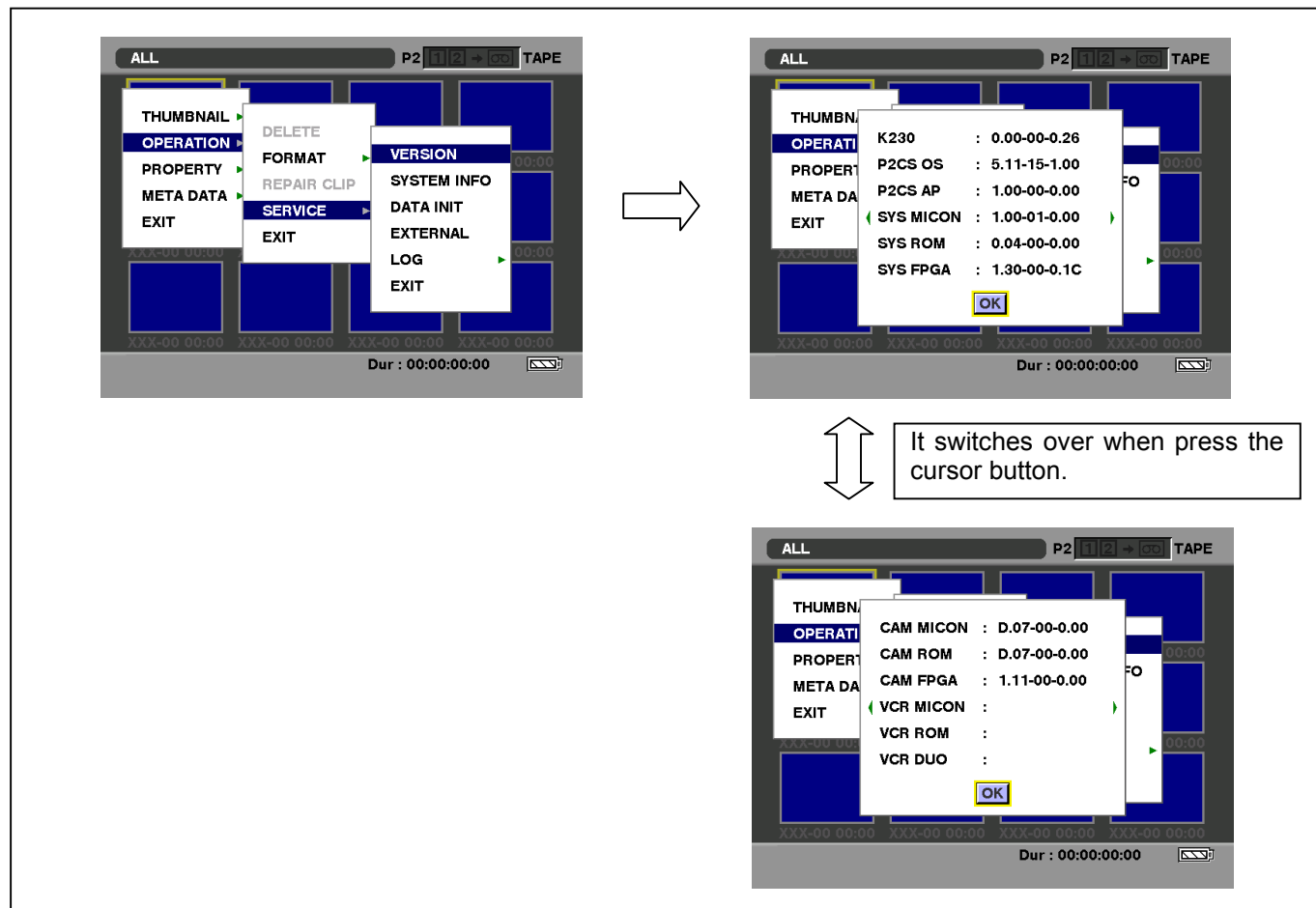
3. Press the **MENU** button to display the menu. Use the **CURSOR** buttons to select the “**OPERATION**” and press **SET** button to open the OPERATION menu.
4. Select the item “**SERVICE**” on the menu and press the **SET** button. The service menu is displayed.



### 9-3. VERSION

Each software version can be confirmed.

1. Select the item “**VERSION**” on the service menu and press the **SET button**. The following screen is displayed.
2. Press the **CURSOR button** so that the version screen is switched over.

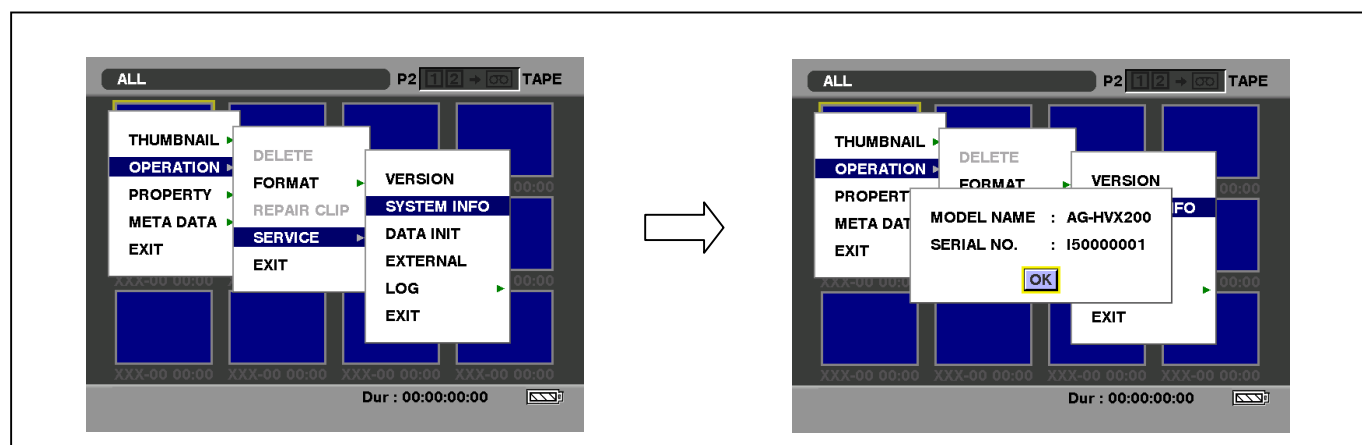


3. Press the **SET button** to exit this screen.

### 9-4. SYSTEM INFO

The information of model name and serial number can be confirmed.

1. Select the item “**SYSTEM INFO**” on the service menu and press the **SET button**. The following screen is displayed.



2. Press the **SET button** to exit this screen.

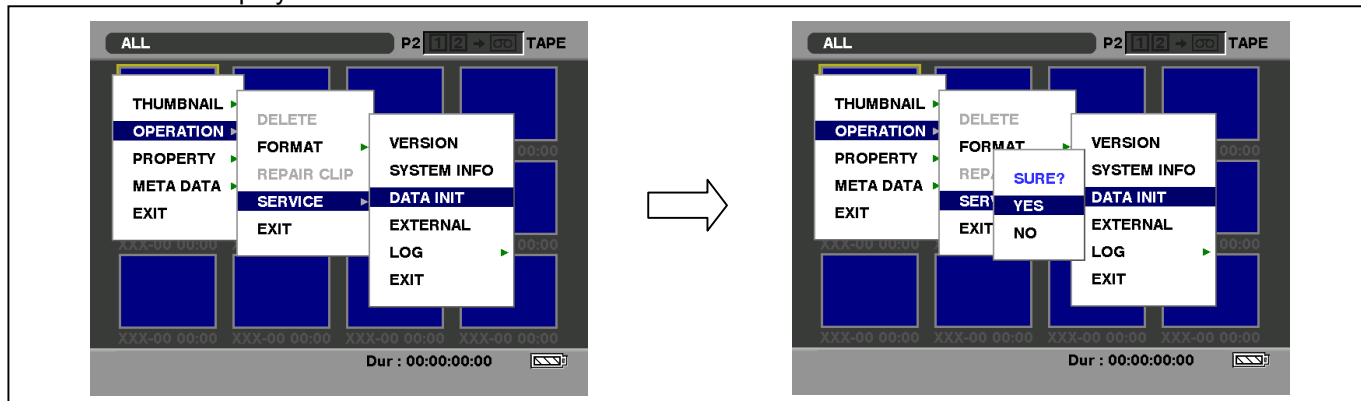
## 9-5. DATA INIT.

The GUI menu and the meta data is initialized by executing the DATA initialization.

In case of the FLASH ROM (IP202 and 203) is exchanged to new one on CODEC board or after rewriting setting of data according to destination on CODEC board, it is necessary to execute the DATA initialization.

**NOTE:** Please exchange both IP202 and 203 to new one when you exchange FLASH ROM. And it is necessary to write the program in FLASH ROM. Please contact Panasonic Service Engineering about writing procedure.

1. Select the item “**DATA INIT**” on the service menu and press the **SET** button. The confirmation menu of the execution is displayed.

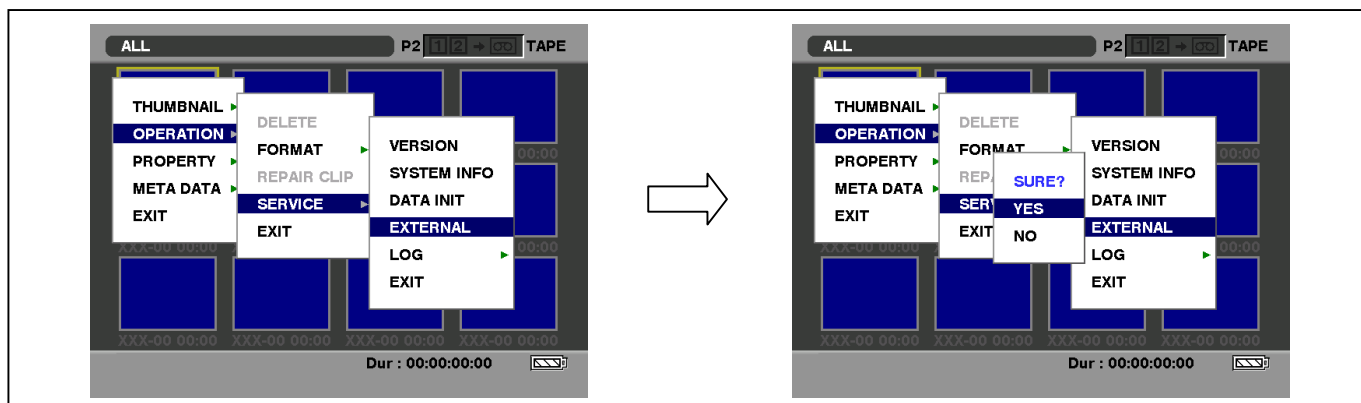


2. Select the item “**YES**” and press **SET** button.

## 9-6. EXTERNAL

**NOTE:** This menu is only use at factory.

1. Select the item “**EXTERNAL**” on the service menu and press the **SET** button. The confirmation menu of the execution is displayed.



## 9-7. LOG

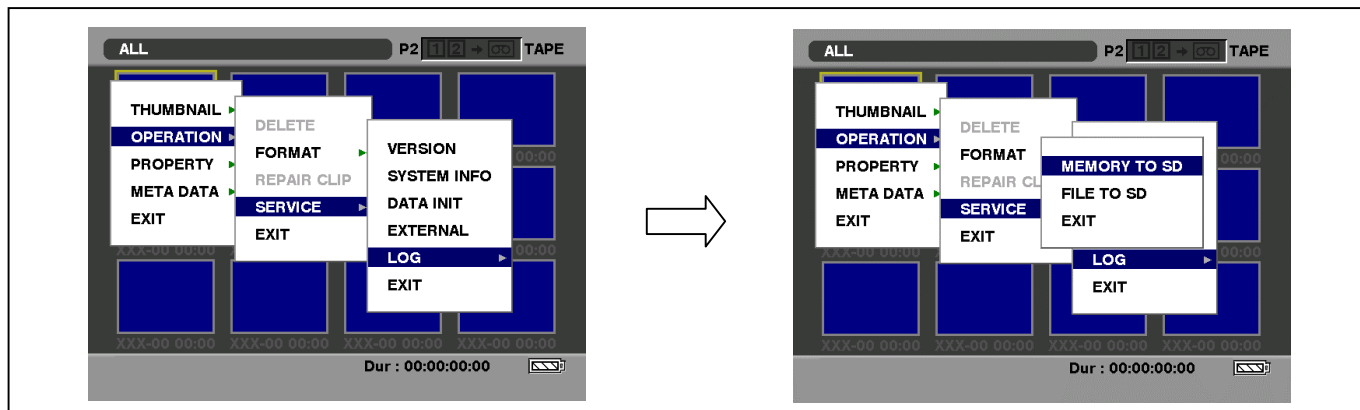
The LOG data can be written on the SD card.

Please execute “**MEMORY TO SD**” and “**FILE TO SD**”, when you write the LOG data on the SD card,.

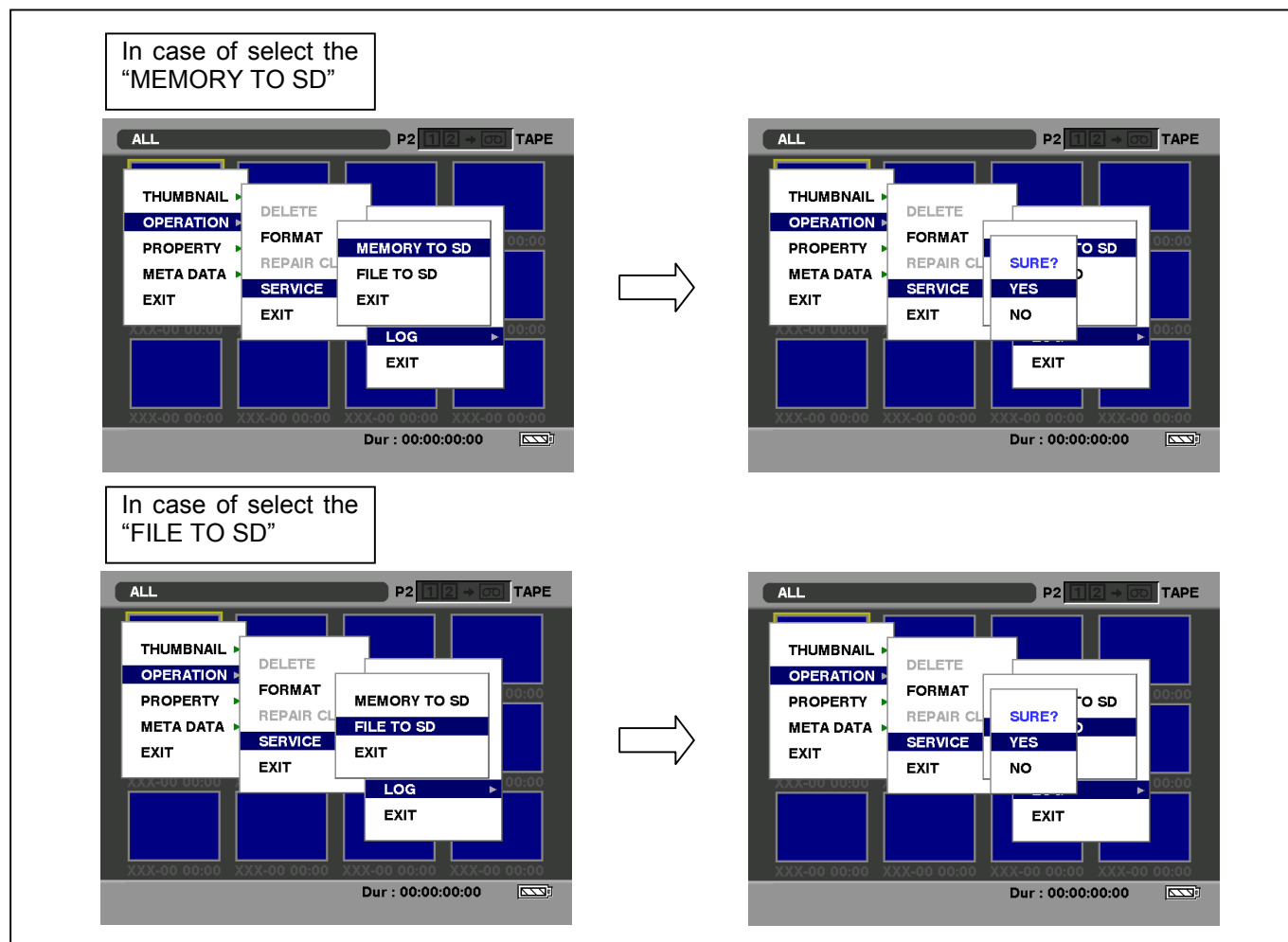
**MEMORY TO SD:** The LOG data is transfer to SD card from FLASH ROM on CODEC board.

**FILE TO SD:** The LOG data is transfer to SD card from SH4MICON on CODEC board.

1. Select the item “**LOG**” on the service menu and press the **SET button**. The following screen is displayed.



2. Select the item “**MEMORY TO SD**” or “**FILE TO SD**” on the menu and press the **SET button**. The confirmation menu of the execution is displayed.



3. Select the item “**YES**” and press **SET button**, the LOG data is written on the SD card.

**NOTE:** There is no problem even if the LOG data is written on the Service SD card.

# 10. Firmware update procedure

## NOTE: (Only the MC model)

The thumbnail screen described in this item “10. Firmware Update procedure” is an English display. When “CHINESE” is selected by item “LAUNGAGE” of the OTHER FUNCTION screen (Setting menu), it becomes a Chinese display (The factory setting mode is “CHINESE”). Moreover, the screen shown by mark A, B, and C that has been described to the INF-32 page is only an English display.

## 10-1. MICROCOMPUTER / FPGA CHART

| Board  | Name      | Ref No.         | IC type | Manufacture | Version display | Remark   |
|--------|-----------|-----------------|---------|-------------|-----------------|----------|
| CAMERA | CAM MICON | IP504           | FLASH   | NEC         | ●               |          |
|        | CAM ROM   | IP500           | EEPROM  | ASAHI KASEI | ●               |          |
|        | CAM FPGA  | IP100           | FLASH   | Lattice     | ●               | TG FPGA  |
| CODEC  | SYS MICON | IP305           | FLASH   | TOSHIBA     | ●               |          |
|        | SYS ROM   | IP306           | EEPROM  | ASAHI KASEI | ●               |          |
|        | P2CS OS   | IP202,<br>IP203 | FLASH   | TOSHIBA     | ●               |          |
|        | P2CS AP   |                 |         |             | ●               |          |
|        | SYS FPGA  | IP706           | FLASH   | Xilinx      | ●               | OSD FPGA |
| VTR    | VCR MICON | IP1             | FLASH   | TOSHIBA     | ●               |          |
|        | VCR ROM   | IP2             | EEPROM  | ASAHI KASEI | ●               |          |

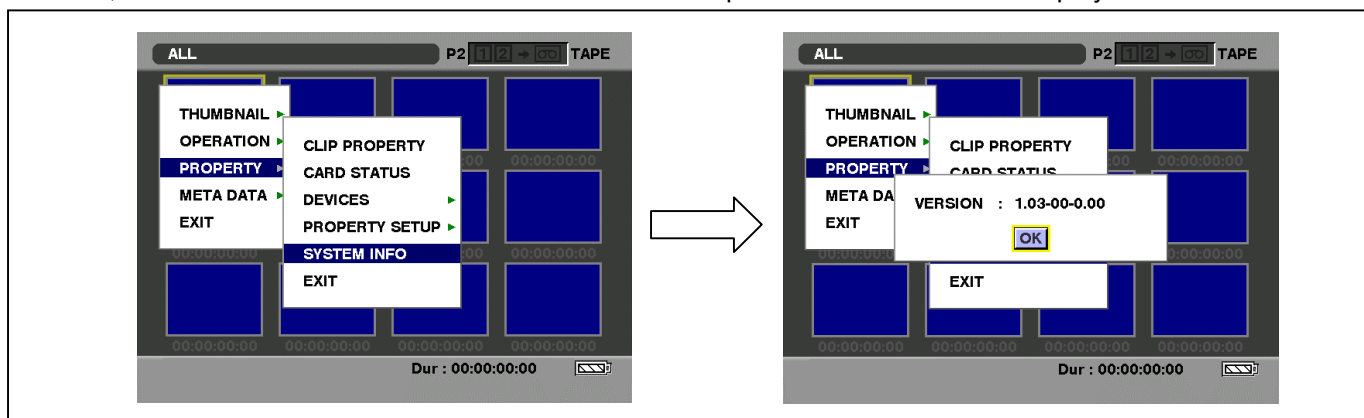
□ : These are not required for update.

## 10-2. Version information

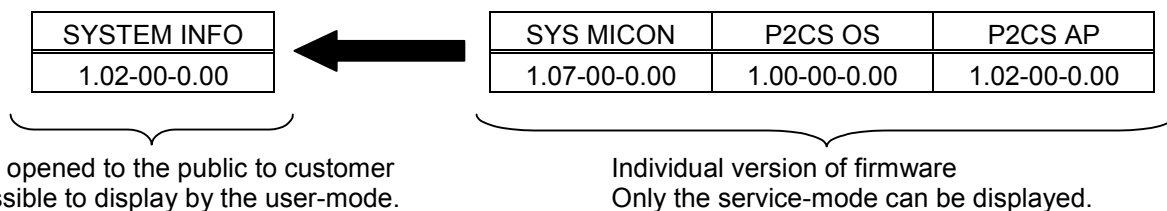
The firmware of AG-HVX200/202 is updated by the customer. Therefore, to facilitate the version information confirmation, the version number is given by combining SYS MICON, P2CS OS, and P2CS AP. In a word, SYS MICON, P2CS OS, and P2CS AP need not be individually updated.

Please confirm that the version number has been updated as follows, when you execute the update of the firmware.

1. This camera recorder is set to P2-MCR mode.
2. On the thumbnail screen, press **MUNU button** to display the menu.
3. Select the item “**PROPERTY**” on the menu and press the **SET button**.
4. Next, select the item “**SYSTEM INFO**” on the menu and press the **SET button** to display the version.



**NOTE:** The version number of SYS MICON, P2CS OS, and P2CS AP can be confirmed individually by the GUI service menu and the DIAGNOSTIC menu. Please refer to the content that has been described to the item “9-3. VERSION” and the item “8-1-2. Software Version Display” for the confirm method of the version.



**NOTE:** The confirmed version is only **SYSTEM INFO** after completing the update. The version of an individual firmware need not be confirmed.

### 10-3. Update with the SD Card

**NOTE: Please refer to the most recent execution outline, as the contents of this item “10-2. Update with the SD Card” may change.**

#### CAUTION: Before Updating Software

- **Do not power down or pull card while upgrading.** If the program quits during loading, the data will be erased or part writing condition and the restart is not made. However software can not be update, please contact Panasonic Service Engineering.

#### 10-3-1. General

1. Software version can be updated by using SD card. Update using SD card can be made with just file copy to a SD card.

#### 10-3-2. Preparation

##### < Preparation for SD Card >

1. SD Card (more than 64MB memory card) are required.
2. Insert an SD card into the P2 camera or P2 deck and format SD card.

**NOTE:** You must format SD card with the P2 camera or P2 deck. SD card formatted by PC will not work without special software.

##### < Copy of Image data for update >

1. Download the file “VVVSI\*\*\*\*.zip” from Global Service Web Site.
2. Copy the file “VVVSI\*\*\*\*.zip” to hard disk of your PC and extract the file.
3. Insert a formatted SD card into the card slot of PC.
4. Copy the folder “PRIVATE” to SD card. The downloaded image data (upgrade file: **k230\*\*\*\*.img**) is included in folder “PRIVATE”.

**NOTE:** Do not change the construction of folder and file name. The folder construction shown in the following and top of directory should be “PRIVATE”.

Folder: **PRIVATE \ MEIGROUP \ PAVCN \ SBG \ P2SD \ FW \**

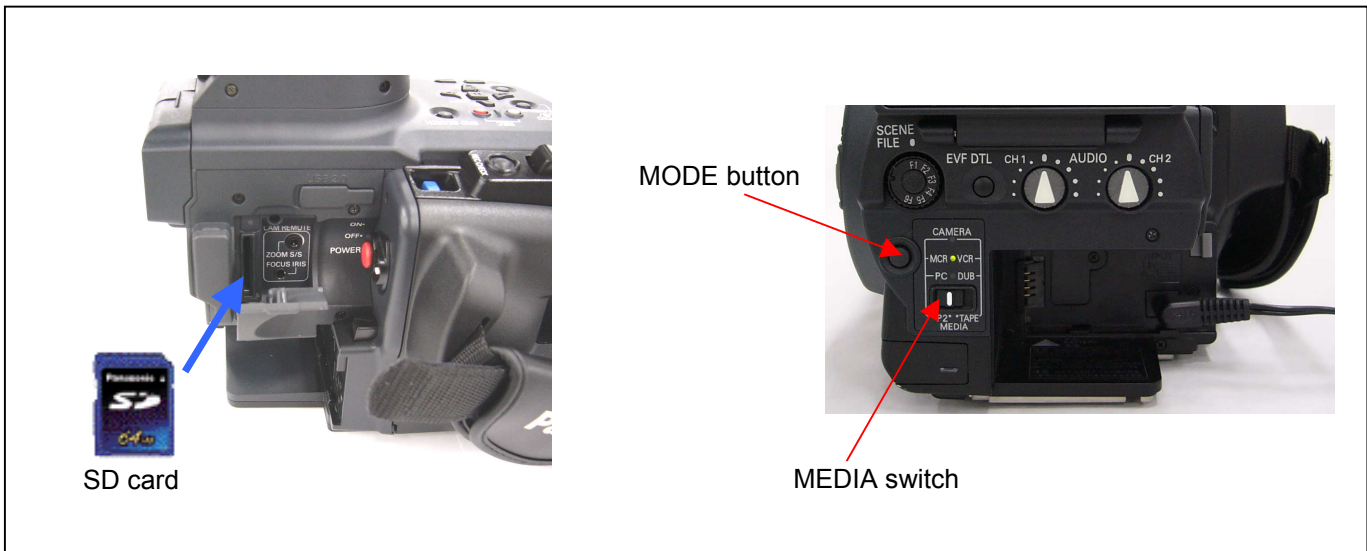
File Name: **k230\*\*\*\*.img**

##### < External Power >

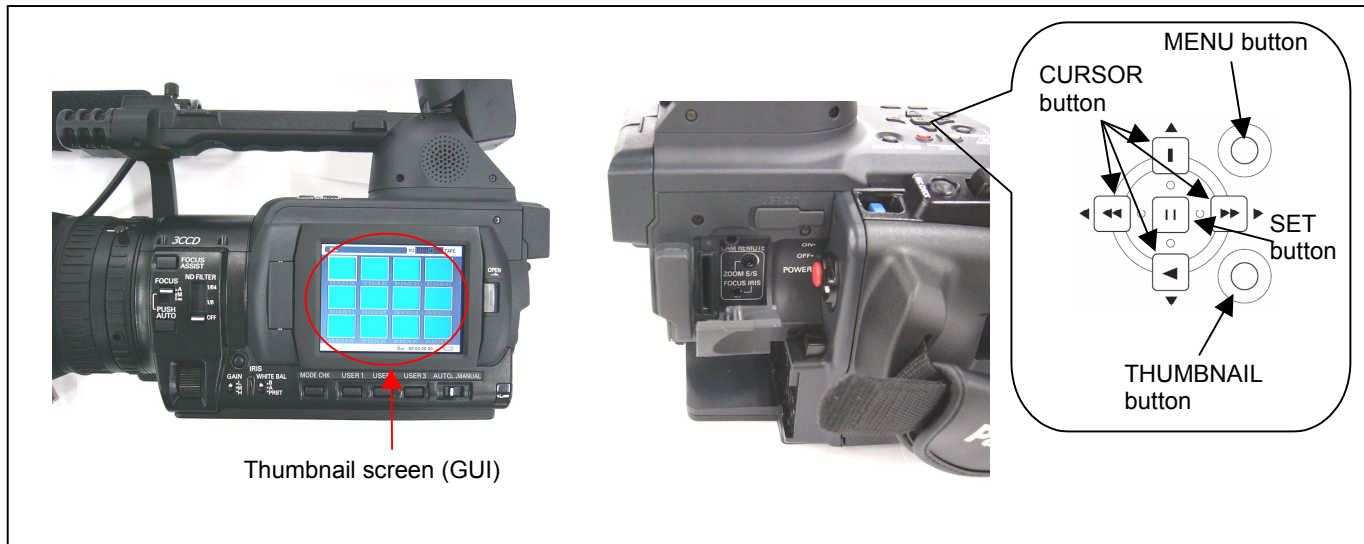
It is best to power the unit from the external power supply, this will prevent the unit from shutting off during upgrading.

#### 10-3-3. Updated procedure

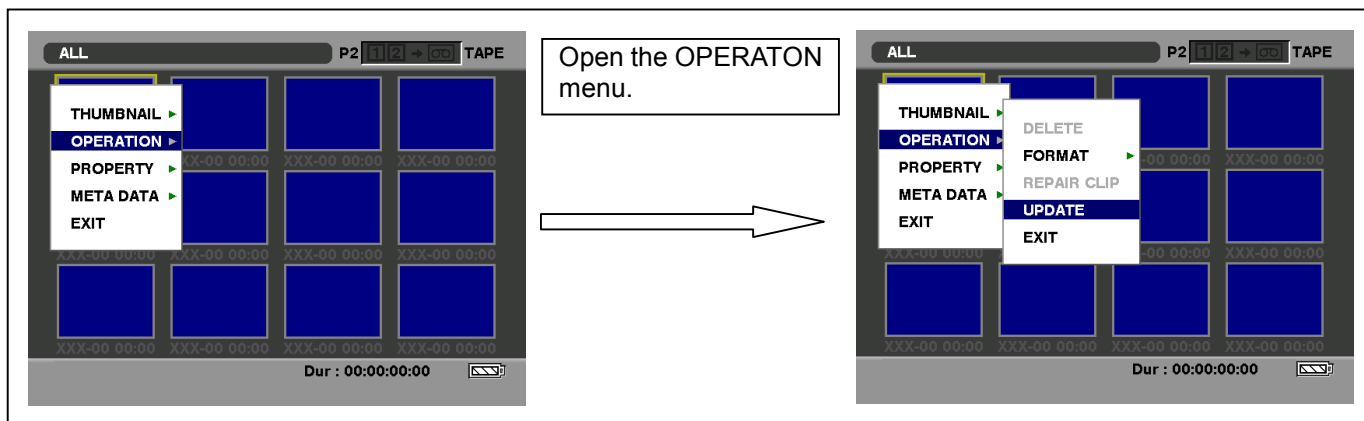
1. Insert a formatted SD card into the SD card insertion slot of this camera recorder.
2. Set the **MEDIA** switch to “P2” side and turn power on.



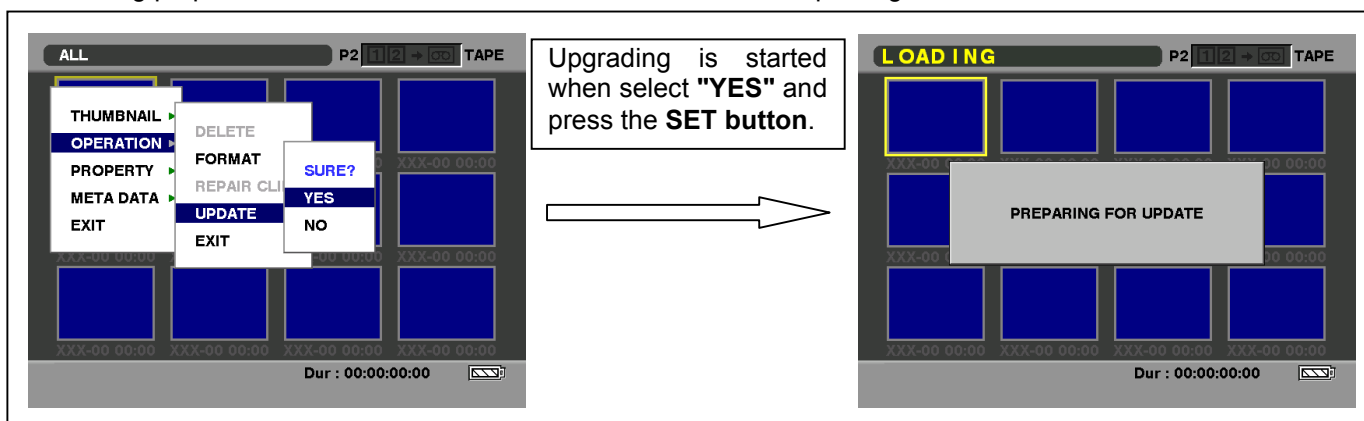
- Press the **MODE** button to set to P2-MCR mode.



- Press the **MENU** button to display the menu. Use the **CURSOR** buttons to select the item “**OPERATION**” and press **SET** button to open the OPERATION menu.



- Select the item “**UPDATE**” on the menu and press the **SET** button (If the update SD card does not insert into the unit, item “**UPDATE**” does not appeared.). The confirmation menu of the execution is displayed. If upgrade is executed, select the item “**YES**” and press **SET** button.
- Update program is started and the message “**PREPARING FOR UPDATE**” appears on screen. In this timing, it is doing preparation such as the confirmation of the data of the updating.





7. Following screen is displayed as indicate mark “A” while upgrading.

◆ Software update takes **approx. 10 min.**

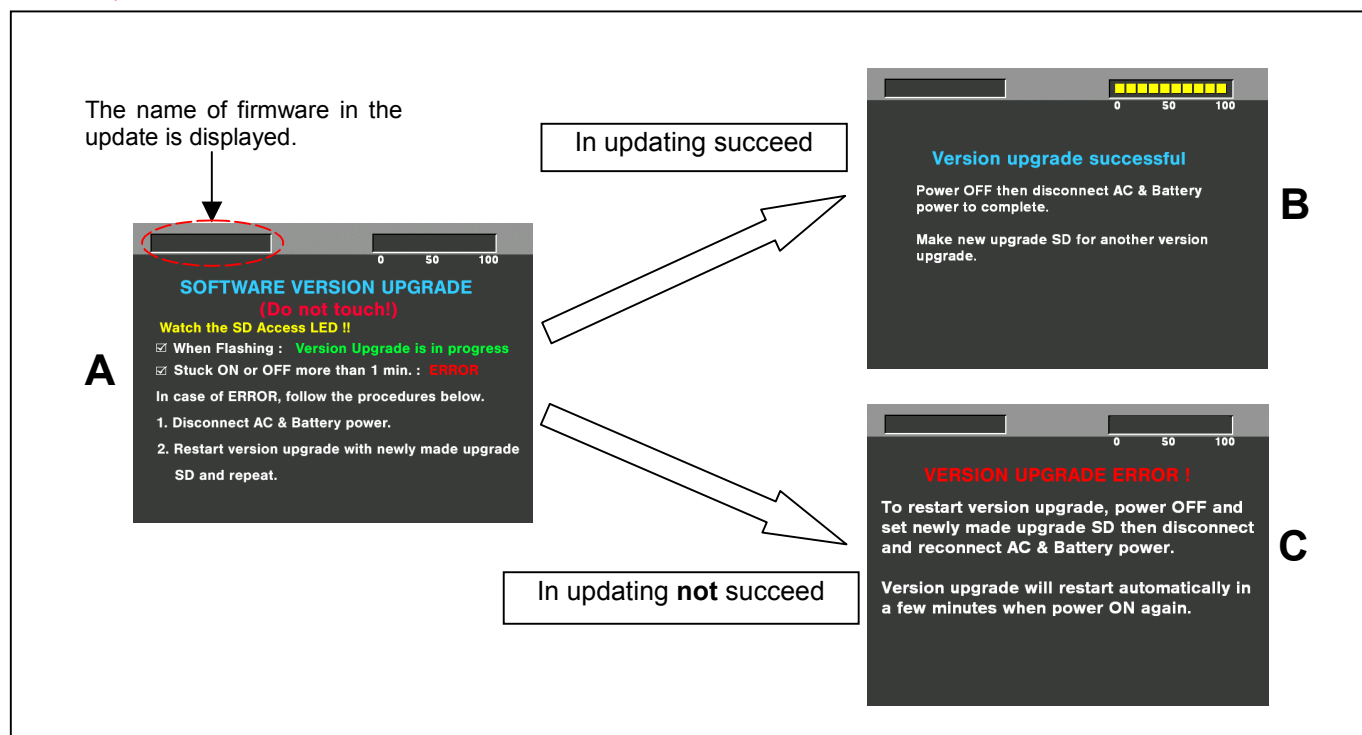
◆ When starting the updating, the LED of SD Card slot is turned on. (Green LED)

8. In updating succeed, following screen is displayed as indicate mark “B”. Pull out the SD card and turn OFF and ON the unit in order to restart it.

**NOTE:**

◆ If the upgrade is not successful, an error message will appear on Display “C”.

◆ Although the screen is displayed as indicate mark “A” and the LED of SD Card slot is turned OFF for more than 5min, this status is NG.



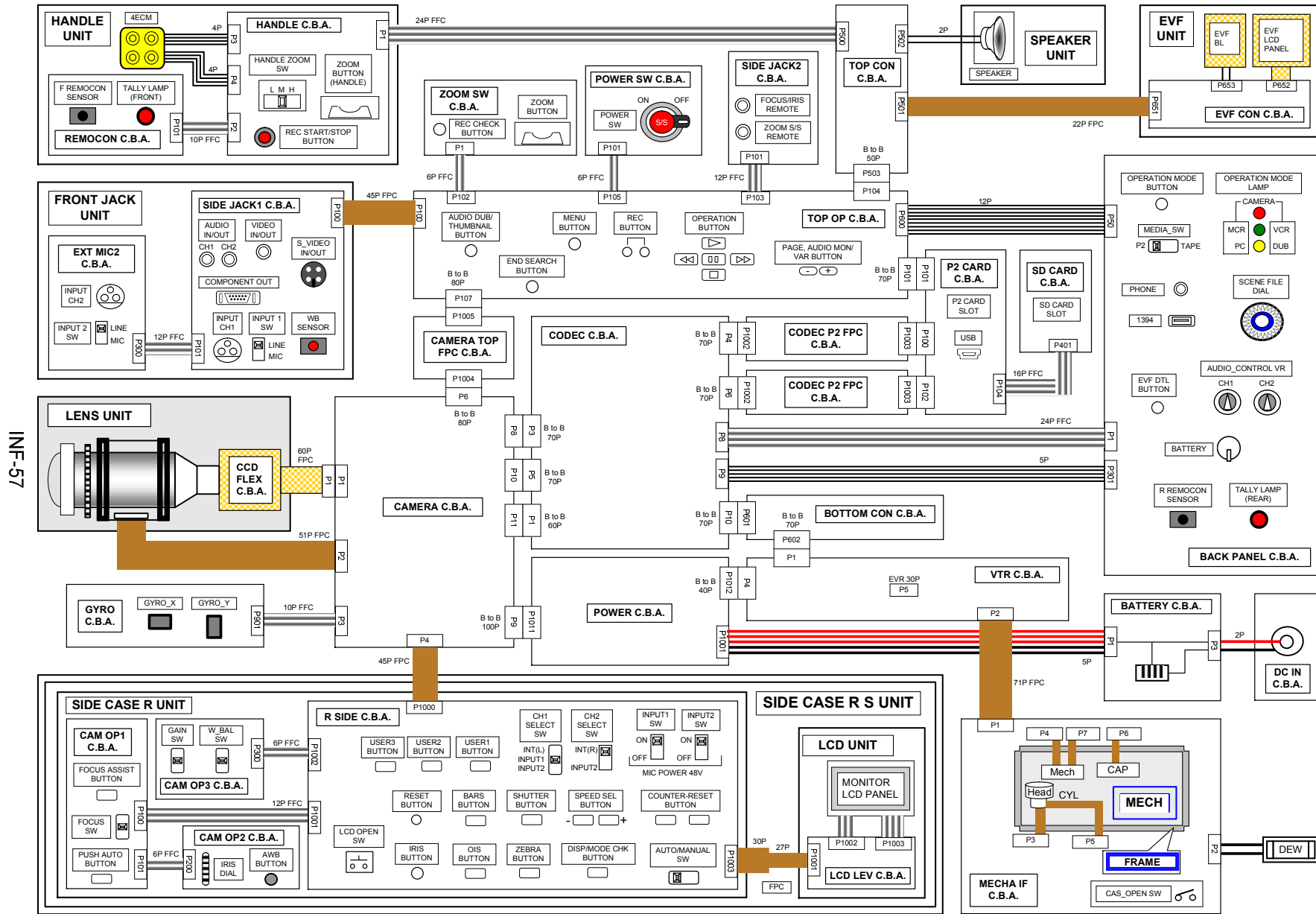
◆ If the power supply is shut down on the way to update or above error operation is performed, turn the power ON then restart the write function again. If software can not be update by SD card, please contact Panasonic Service Engineering.

9. Remove the SD card and turn the power of camcorder to OFF and the DC cable is plugged OUT/IN. Then turn the power of camcorder to ON to restart it. You must do this operation to change the data.

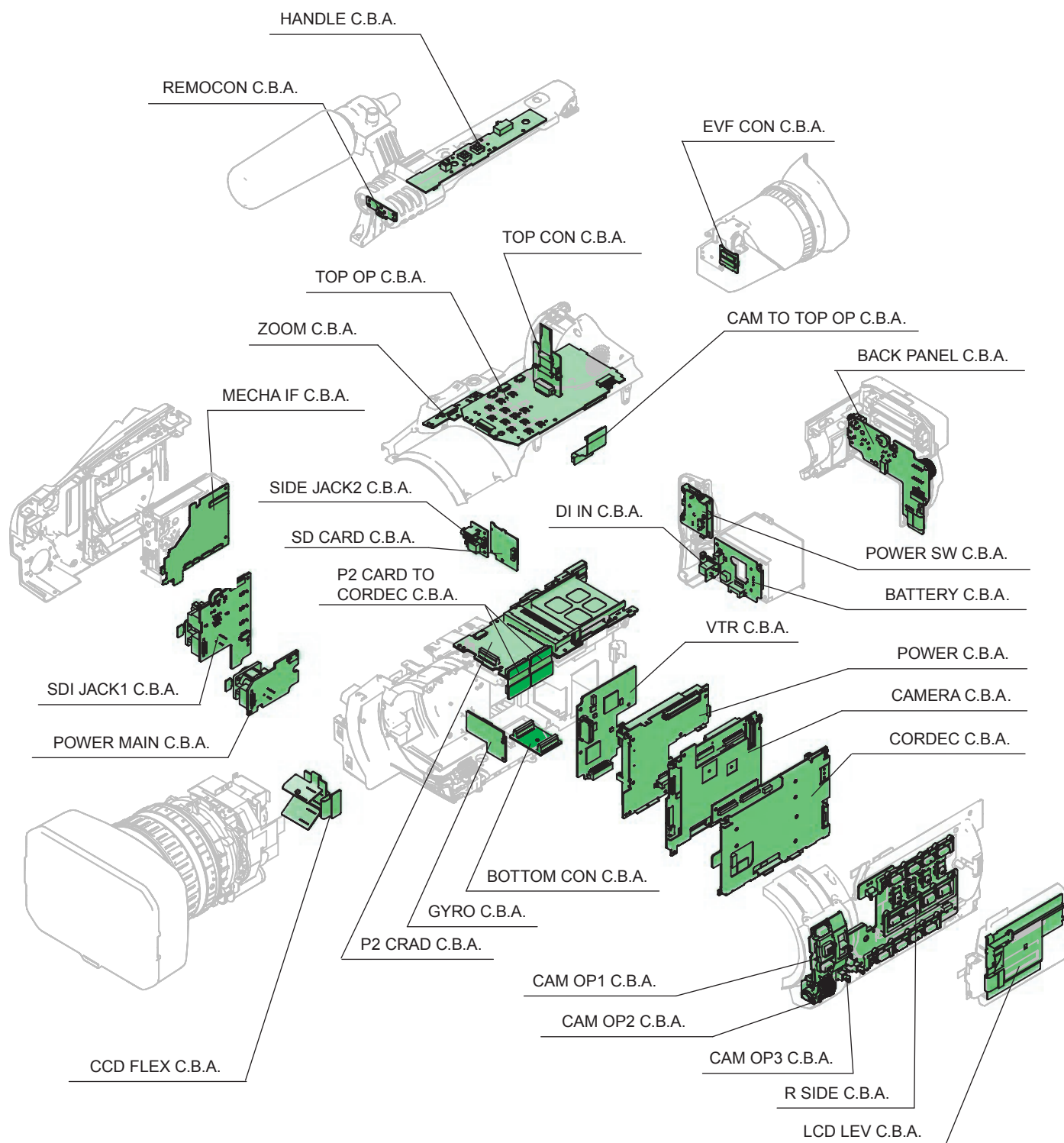
10. Confirm that the firmware version is updated follow the item “10-2. Version information”. ( → Page INF-29)



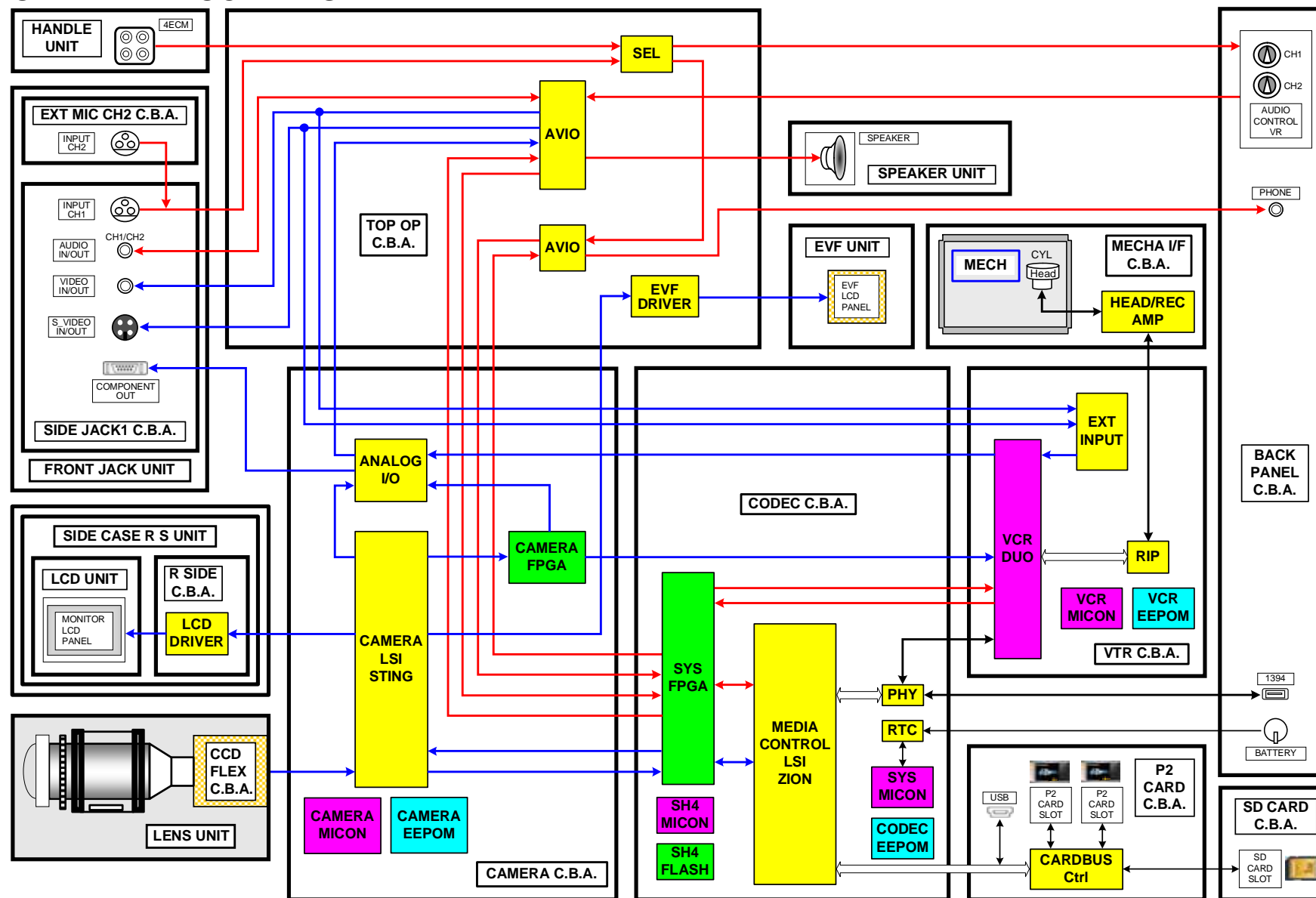
# 18. INTERCONNECTION



# 19. CIRCUIT BOARD LAYOUT



## BLK-1



BLK-2

[illegible]

BLK-3

[illegible]

BLK-4

The diagram illustrates the internal architecture of the Sony CCD-EX250 camera, showing the interconnection of various modules and components. The main components and their connections are as follows:

- CCD FLEX C.B.A.:** Receives video signals from the CCDs (B, G, R) and outputs them to the Side Case RS Unit.
- SIDE CASE RS UNIT:** Manages the RS (Reset/Store) signals for the CCDs.
- LCD UNIT:** Includes the LCD LEV C.B.A. and MONITOR LCD PANEL, connected to the Side Case RS Unit.
- SIDE JACK1 C.B.A.:** Manages the Side Jack1 signals, including Y, I, and C signals.
- EVF UNIT:** Includes the EVF CON C.B.A. and EVF LCD PANEL, connected to the Side Jack1 C.B.A.
- TOP CON C.B.A.:** Manages the Top Control signals, including Y, I, and C signals.
- CAMERA C.B.A.:** Manages the Camera Control signals, including Y, I, and C signals.
- CAMERA TOP FPC C.B.A.:** Manages the Camera Top FPC signals, including Y, I, and C signals.
- BOTTOM CON C.B.A.:** Manages the Bottom Control signals, including Y, I, and C signals.
- VTR C.B.A.:** Manages the VTR (Video Tape Recorder) signals, including Y, I, and C signals.
- CODEC C.B.A.:** Manages the Codec signals, including Y, I, and C signals.
- P2 CARD C.B.A.:** Manages the P2 Card signals, including Y, I, and C signals.
- BACK PANEL C.B.A.:** Manages the Back Panel signals, including Y, I, and C signals.
- MECH IF C.B.A.:** Manages the Mechanical Interface signals, including Y, I, and C signals.

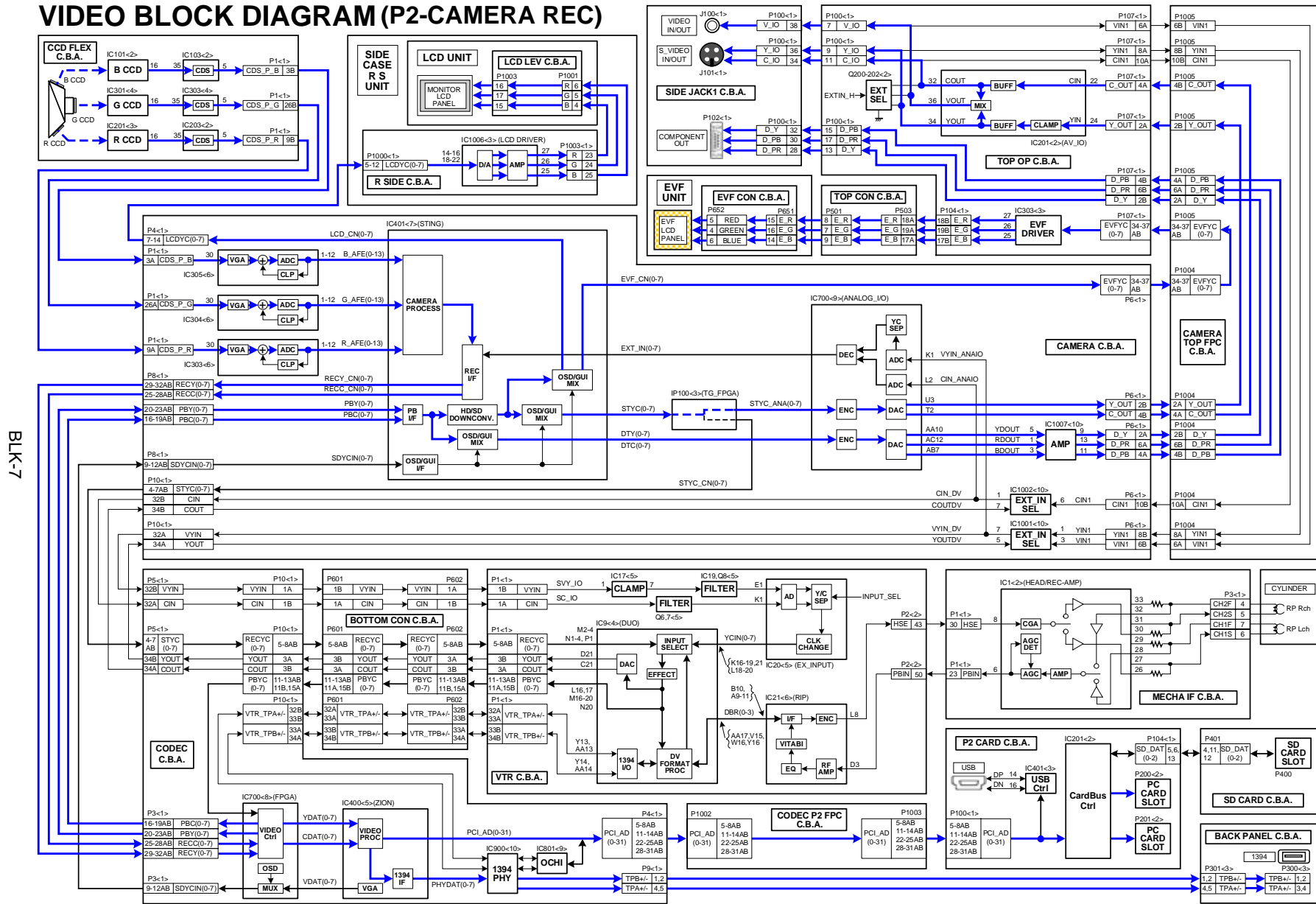
The diagram shows the flow of video signals (Y, I, C) and control signals (P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, P11, P12, P13, P14, P15, P16, P17, P18, P19, P20, P21, P22, P23, P24, P25, P26, P27, P28, P29, P30, P31, P32, P33, P34, P35, P36, P37, P38, P39, P40, P41, P42, P43, P44, P45, P46, P47, P48, P49, P50, P51, P52, P53, P54, P55, P56, P57, P58, P59, P60, P61, P62, P63, P64, P65, P66, P67, P68, P69, P70, P71, P72, P73, P74, P75, P76, P77, P78, P79, P80, P81, P82, P83, P84, P85, P86, P87, P88, P89, P90, P91, P92, P93, P94, P95, P96, P97, P98, P99, P100, P101, P102, P103, P104, P105, P106, P107, P108, P109, P110, P111, P112, P113, P114, P115, P116, P117, P118, P119, P120, P121, P122, P123, P124, P125, P126, P127, P128, P129, P130, P131, P132, P133, P134, P135, P136, P137, P138, P139, P140, P141, P142, P143, P144, P145, P146, P147, P148, P149, P150, P151, P152, P153, P154, P155, P156, P157, P158, P159, P160, P161, P162, P163, P164, P165, P166, P167, P168, P169, P170, P171, P172, P173, P174, P175, P176, P177, P178, P179, P180, P181, P182, P183, P184, P185, P186, P187, P188, P189, P190, P191, P192, P193, P194, P195, P196, P197, P198, P199, P200, P201, P202, P203, P204, P205, P206, P207, P208, P209, P210, P211, P212, P213, P214, P215, P216, P217, P218, P219, P220, P221, P222, P223, P224, P225, P226, P227, P228, P229, P230, P231, P232, P233, P234, P235, P236, P237, P238, P239, P240, P241, P242, P243, P244, P245, P246, P247, P248, P249, P250, P251, P252, P253, P254, P255, P256, P257, P258, P259, P260, P261, P262, P263, P264, P265, P266, P267, P268, P269, P270, P271, P272, P273, P274, P275, P276, P277, P278, P279, P280, P281, P282, P283, P284, P285, P286, P287, P288, P289, P290, P291, P292, P293, P294, P295, P296, P297, P298, P299, P300, P301, P302, P303, P304, P305, P306, P307, P308, P309, P310, P311, P312, P313, P314, P315, P316, P317, P318, P319, P320, P321, P322, P323, P324, P325, P326, P327, P328, P329, P330, P331, P332, P333, P334, P335, P336, P337, P338, P339, P340, P341, P342, P343, P344, P345, P346, P347, P348, P349, P350, P351, P352, P353, P354, P355, P356, P357, P358, P359, P360, P361, P362, P363, P364, P365, P366, P367, P368, P369, P370, P371, P372, P373, P374, P375, P376, P377, P378, P379, P380, P381, P382, P383, P384, P385, P386, P387, P388, P389, P390, P391, P392, P393, P394, P395, P396, P397, P398, P399, P400, P401, P402, P403, P404, P405, P406, P407, P408, P409, P410, P411, P412, P413, P414, P415, P416, P417, P418, P419, P420, P421, P422, P423, P424, P425, P426, P427, P428, P429, P430, P431, P432, P433, P434, P435, P436, P437, P438, P439, P440, P441, P442, P443, P444, P445, P446, P447, P448, P449, P450, P451, P452, P453, P454, P455, P456, P457, P458, P459, P460, P461, P462, P463, P464, P465, P466, P467, P468, P469, P470, P471, P472, P473, P474, P475, P476, P477, P478, P479, P480, P481, P482, P483, P484, P485, P486, P487, P488, P489, P490, P491, P492, P493, P494, P495, P496, P497, P498, P499, P500, P501, P502, P503, P504, P505, P506, P507, P508, P509, P510, P511, P512, P513, P514, P515, P516, P517, P518, P519, P520, P521, P522, P523, P524, P525, P526, P527, P528, P529, P530, P531, P532, P533, P534, P535, P536, P537, P538, P539, P540, P541, P542, P543, P544, P545, P546, P547, P548, P549, P550, P551, P552, P553, P554, P555, P556, P557, P558, P559, P560, P561, P562, P563, P564, P565, P566, P567, P568, P569, P570, P571, P572, P573, P574, P575, P576, P577, P578, P579, P580, P581, P582, P583, P584, P585, P586, P587, P588, P589, P590, P591, P592, P593, P594, P595, P596, P597, P598, P599, P600, P601, P602, P603, P604, P605, P606, P607, P608, P609, P610, P611, P612, P613, P614, P615, P616, P617, P618, P619, P620, P621, P622, P623, P624, P625, P626, P627, P628, P629, P630, P631, P632, P633, P634, P635, P636, P637, P638, P639, P640, P641, P642, P643, P644, P645, P646, P647, P648, P649, P650, P651, P652, P653, P654, P655, P656, P657, P658, P659, P660, P661, P662, P663, P664, P665, P666, P667, P668, P669, P670, P671, P672, P673, P674, P675, P676, P677, P678, P679, P680, P681, P682, P683, P684, P685, P686, P687, P688, P689, P690, P691, P692, P693, P694, P695, P696, P697, P698, P699, P700, P701, P702, P703, P704, P705, P706, P7

BLK-5

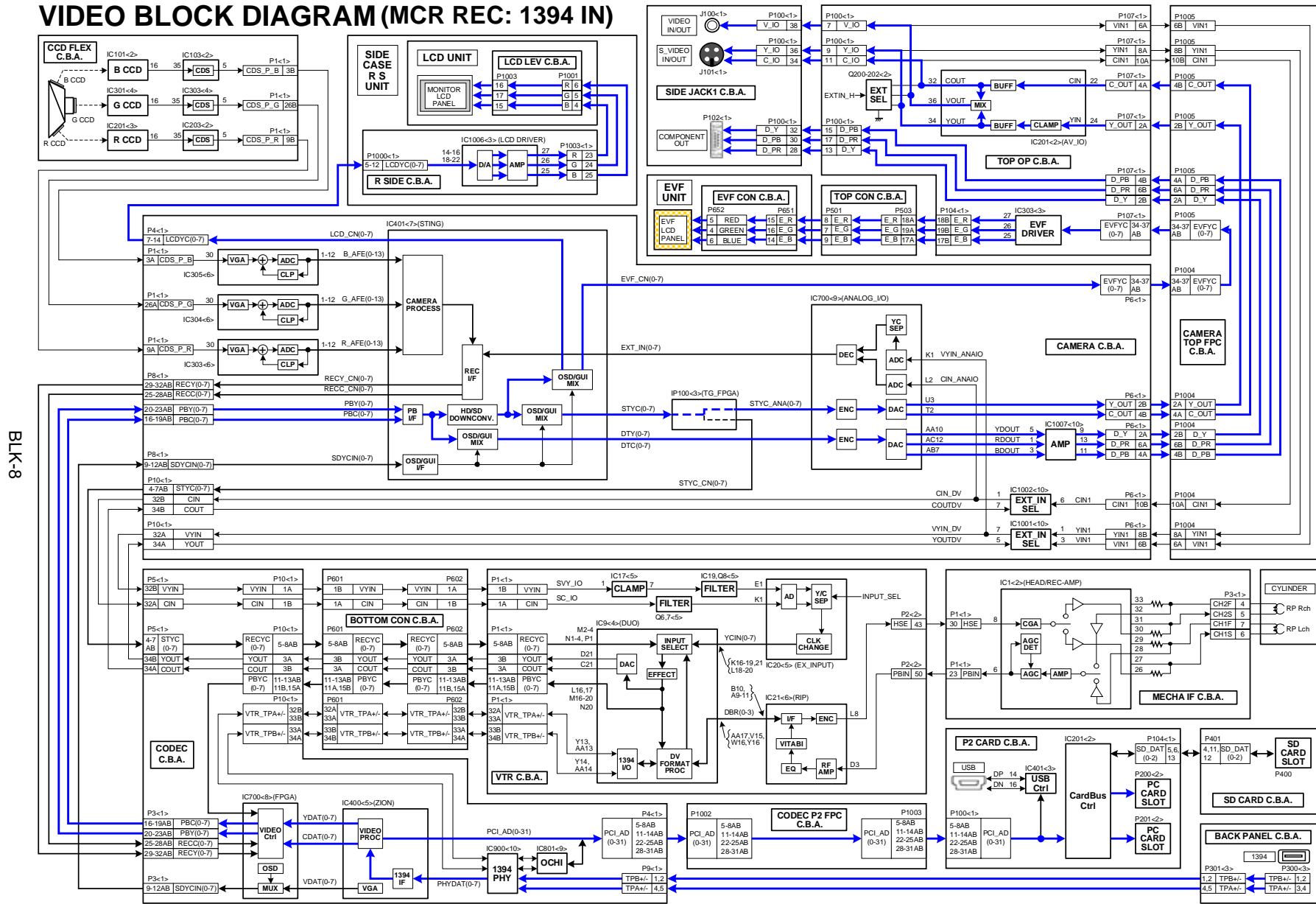


BLK-6

# VIDEO BLOCK DIAGRAM (P2-CAMERA REC)

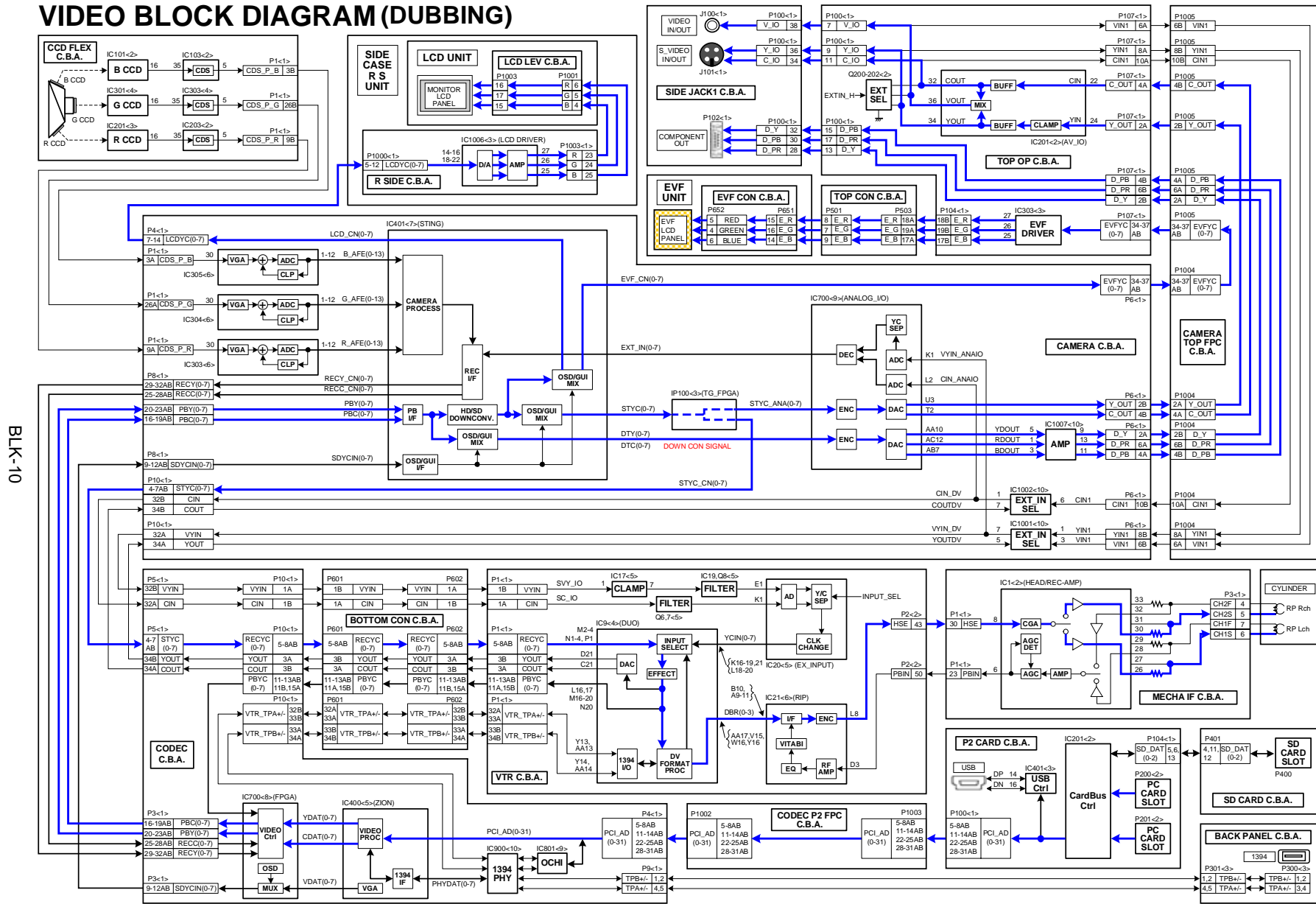


# VIDEO BLOCK DIAGRAM (MCR REC: 1394 IN)

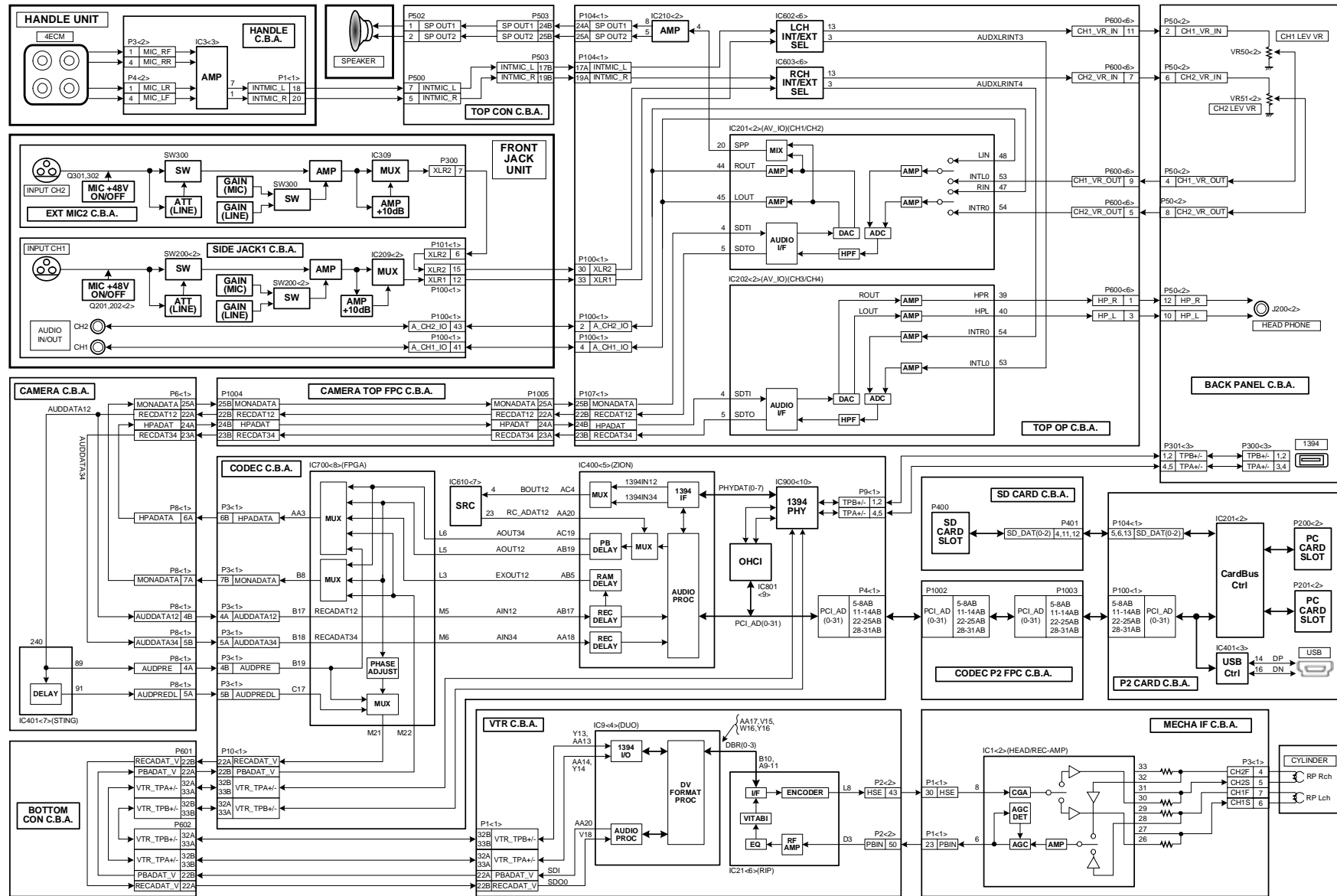


BLK-9

# VIDEO BLOCK DIAGRAM (DUBBING)

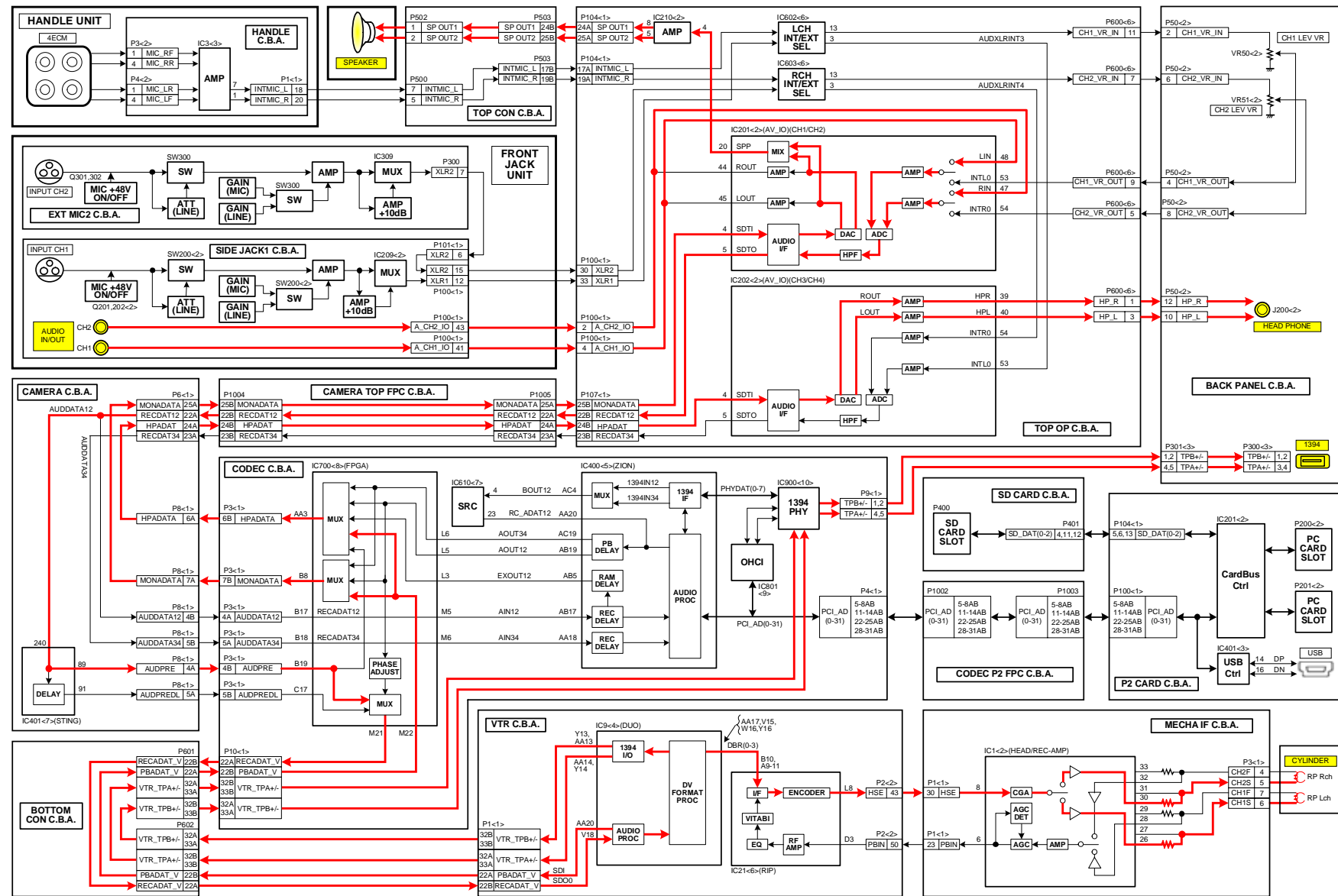


# AUDIO BLOCK DIAGRAM



BLK-11

# AUDIO BLOCK DIAGRAM (TAPE-CAMERA REC: LINE IN)



BLK-12



The diagram illustrates the internal architecture of the Sony CCD-1000 camera, showing the interconnection of various modules and components. The main sections include:

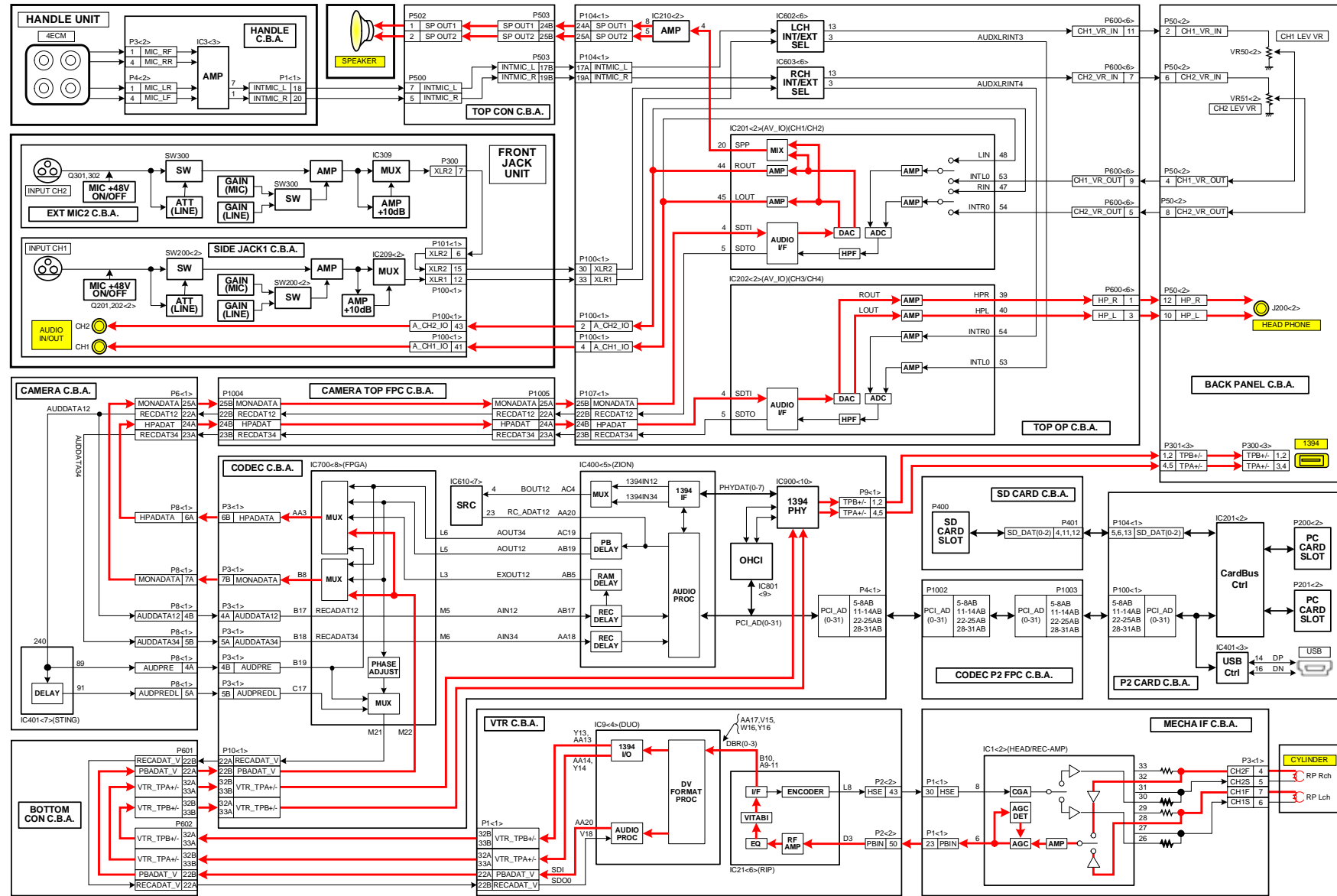
- HANDLE UNIT:** Contains the ECM (Electronic Control Module) and the HANDLE C.B.A. (Control Board Assembly).
- FRONT JACK UNIT:** Includes the INPUT CH2, EXT MIC2 C.B.A., and the FRONT JACK C.B.A.
- CAMERA C.B.A. (Control Board Assembly):** The central processing unit, including the CAMERA TOP FPC C.B.A., CODEC C.B.A., and the VTR C.B.A.
- TOP OP C.B.A. (Top Operator Control Board Assembly):** Manages the top operator controls, including the SD CARD C.B.A., CODEC P2 FPC C.B.A., and the P2 CARD C.B.A.
- BACK PANEL C.B.A. (Back Panel Control Board Assembly):** Manages the back panel controls, including the SD CARD C.B.A., CODEC P2 FPC C.B.A., and the P2 CARD C.B.A.
- Mecha IF C.B.A. (Mechanical Interface Control Board Assembly):** Manages the mechanical interface, including the CYLINDER and the MECHA IF C.B.A.

The diagram shows the flow of signals (audio, video, control) between these modules, highlighting the complex interconnection of components like the CODEC C.B.A., VTR C.B.A., and the various control boards. Key components include the CODEC C.B.A. (IC700), VTR C.B.A. (IC900), and the various control boards (P1000, P1001, P1002, P1003, P1004, P1005, P1006, P1007, P1008, P1009, P1010, P1011, P1012, P1013, P1014, P1015, P1016, P1017, P1018, P1019, P1020, P1021, P1022, P1023, P1024, P1025, P1026, P1027, P1028, P1029, P1030, P1031, P1032, P1033, P1034, P1035, P1036, P1037, P1038, P1039, P1040, P1041, P1042, P1043, P1044, P1045, P1046, P1047, P1048, P1049, P1050, P1051, P1052, P1053, P1054, P1055, P1056, P1057, P1058, P1059, P1060, P1061, P1062, P1063, P1064, P1065, P1066, P1067, P1068, P1069, P1070, P1071, P1072, P1073, P1074, P1075, P1076, P1077, P1078, P1079, P1080, P1081, P1082, P1083, P1084, P1085, P1086, P1087, P1088, P1089, P1090, P1091, P1092, P1093, P1094, P1095, P1096, P1097, P1098, P1099, P1100, P1101, P1102, P1103, P1104, P1105, P1106, P1107, P1108, P1109, P1110, P1111, P1112, P1113, P1114, P1115, P1116, P1117, P1118, P1119, P1120, P1121, P1122, P1123, P1124, P1125, P1126, P1127, P1128, P1129, P1130, P1131, P1132, P1133, P1134, P1135, P1136, P1137, P1138, P1139, P1140, P1141, P1142, P1143, P1144, P1145, P1146, P1147, P1148, P1149, P1150, P1151, P1152, P1153, P1154, P1155, P1156, P1157, P1158, P1159, P1160, P1161, P1162, P1163, P1164, P1165, P1166, P1167, P1168, P1169, P1170, P1171, P1172, P1173, P1174, P1175, P1176, P1177, P1178, P1179, P1180, P1181, P1182, P1183, P1184, P1185, P1186, P1187, P1188, P1189, P1190, P1191, P1192, P1193, P1194, P1195, P1196, P1197, P1198, P1199, P1200, P1201, P1202, P1203, P1204, P1205, P1206, P1207, P1208, P1209, P1210, P1211, P1212, P1213, P1214, P1215, P1216, P1217, P1218, P1219, P1220, P1221, P1222, P1223, P1224, P1225, P1226, P1227, P1228, P1229, P1230, P1231, P1232, P1233, P1234, P1235, P1236, P1237, P1238, P1239, P1240, P1241, P1242, P1243, P1244, P1245, P1246, P1247, P1248, P1249, P1250, P1251, P1252, P1253, P1254, P1255, P1256, P1257, P1258, P1259, P1260, P1261, P1262, P1263, P1264, P1265, P1266, P1267, P1268, P1269, P1270, P1271, P1272, P1273, P1274, P1275, P1276, P1277, P1278, P1279, P1280, P1281, P1282, P1283, P1284, P1285, P1286, P1287, P1288, P1289, P1290, P1291, P1292, P1293, P1294, P1295, P1296, P1297, P1298, P1299, P1300, P1301, P1302, P1303, P1304, P1305, P1306, P1307, P1308, P1309, P1310, P1311, P1312, P1313, P1314, P1315, P1316, P1317, P1318, P1319, P1320, P1321, P1322, P1323, P1324, P1325, P1326, P1327, P1328, P1329, P1330, P1331, P1332, P1333, P1334, P1335, P1336, P1337, P1338, P1339, P1340, P1341, P1342, P1343, P1344, P1345, P1346, P1347, P1348, P1349, P1350, P1351, P1352, P1353, P1354, P1355, P1356, P1357, P1358, P1359, P1360, P1361, P1362, P1363, P1364, P1365, P1366, P1367, P1368, P1369, P1370, P1371, P1372, P1373, P1374, P1375, P1376, P1377, P1378, P1379, P1380, P1381, P1382, P1383, P1384, P1385, P1386, P1387, P1388, P1389, P1390, P1391, P1392, P1393, P1394, P1395, P1396, P1397, P1398, P1399, P1400, P1401, P1402, P1403, P1404, P1405, P1406, P1407, P1408, P1409, P1410, P1411, P1412, P1413, P1414, P1415, P1416, P1417, P1418, P1419, P1420, P1421, P1422, P1423, P1424, P1425, P1426, P1427, P1428, P1429, P1430, P1431, P1432, P1433, P1434, P1435, P1436, P1437, P1438, P1439, P1440, P1441, P1442, P1443, P1444, P1445, P1446, P1447, P1448, P1449, P1450, P1451, P1452, P1453, P1454, P1455, P1456, P1457, P1458, P1459, P1460, P1461, P1462, P1463, P1464, P1465, P1466, P1467, P1468, P1469, P1470, P1471, P1472, P1473, P1474, P1475, P1476, P1477, P1478, P1479, P1480, P1481, P1482, P1483, P1484, P1485, P1486, P1487, P1488, P1489, P1490, P1491, P1492, P1493, P1494, P1495, P1496, P1497, P1498, P1499, P1500, P1501, P1502, P1503, P1504, P1505, P1506, P1507, P1508, P1509, P1510, P1511, P1512, P1513, P1514, P1515, P1516, P1517, P1518, P1519, P1520, P1521, P1522, P1523, P1524, P1525, P1526, P1527, P1528, P1529, P1530, P1531, P1532, P1533, P1534, P1535, P1536, P1537, P1538, P1539, P1540, P1541, P1542, P1543, P1544, P1545, P1546, P1547, P1548, P1549, P1550, P1551, P1552, P1553, P1554, P1555, P1556, P1557, P1558, P1559, P1560, P1561, P1562, P1563, P1564, P1565, P1566, P1567, P1568, P1569, P1570, P1571, P1572, P1573, P1574, P1575, P1576, P1577, P1578, P1579, P1580, P1581, P1582, P1583, P1584, P1585, P1586, P1587, P1588, P1589, P1590, P1591, P1592, P1593, P15

BLK-13

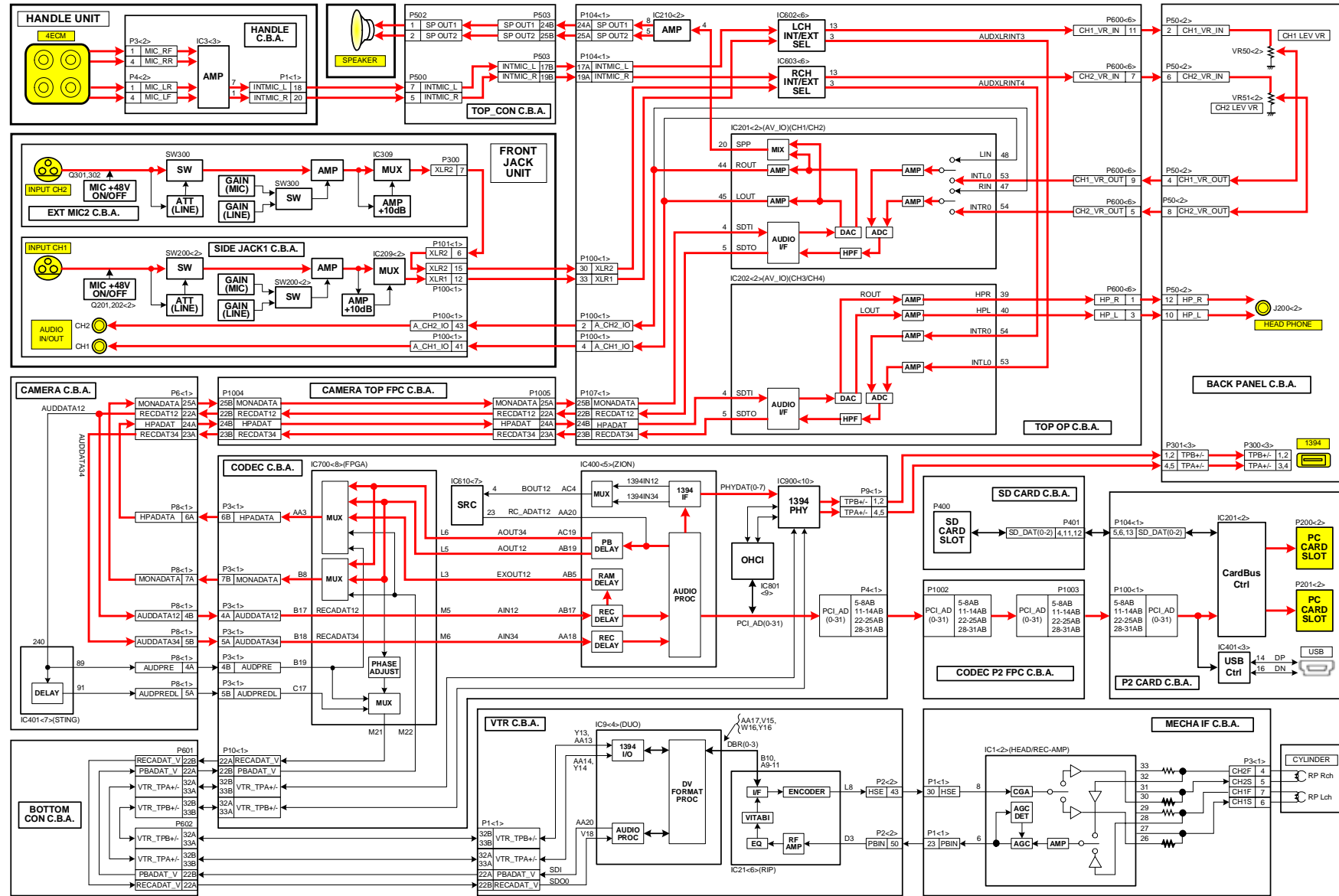
BLK-14

# AUDIO BLOCK DIAGRAM (VCR PLAY)



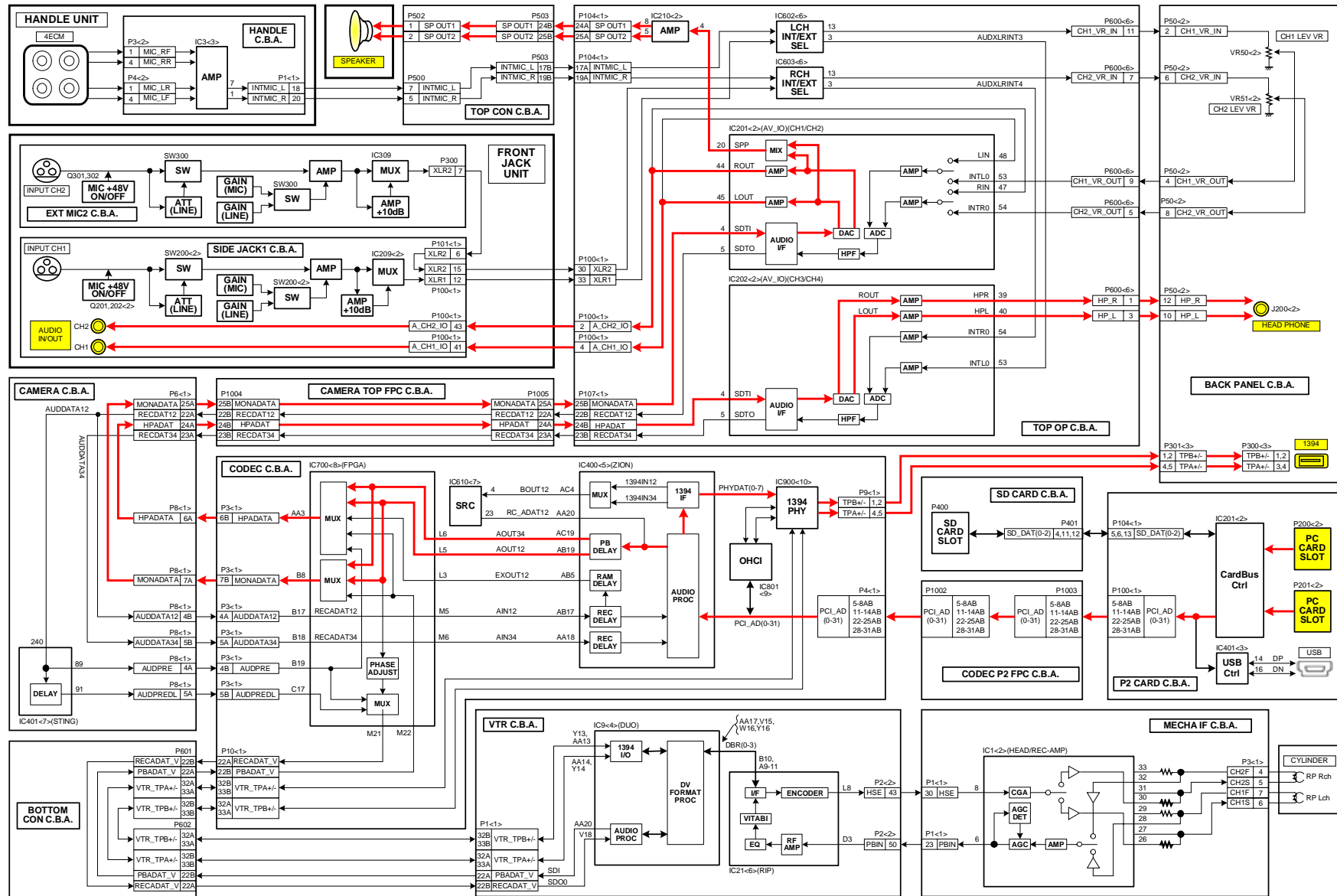
BLK-15

# AUDIO BLOCK DIAGRAM (P2-CAMERA REC: MIC IN)



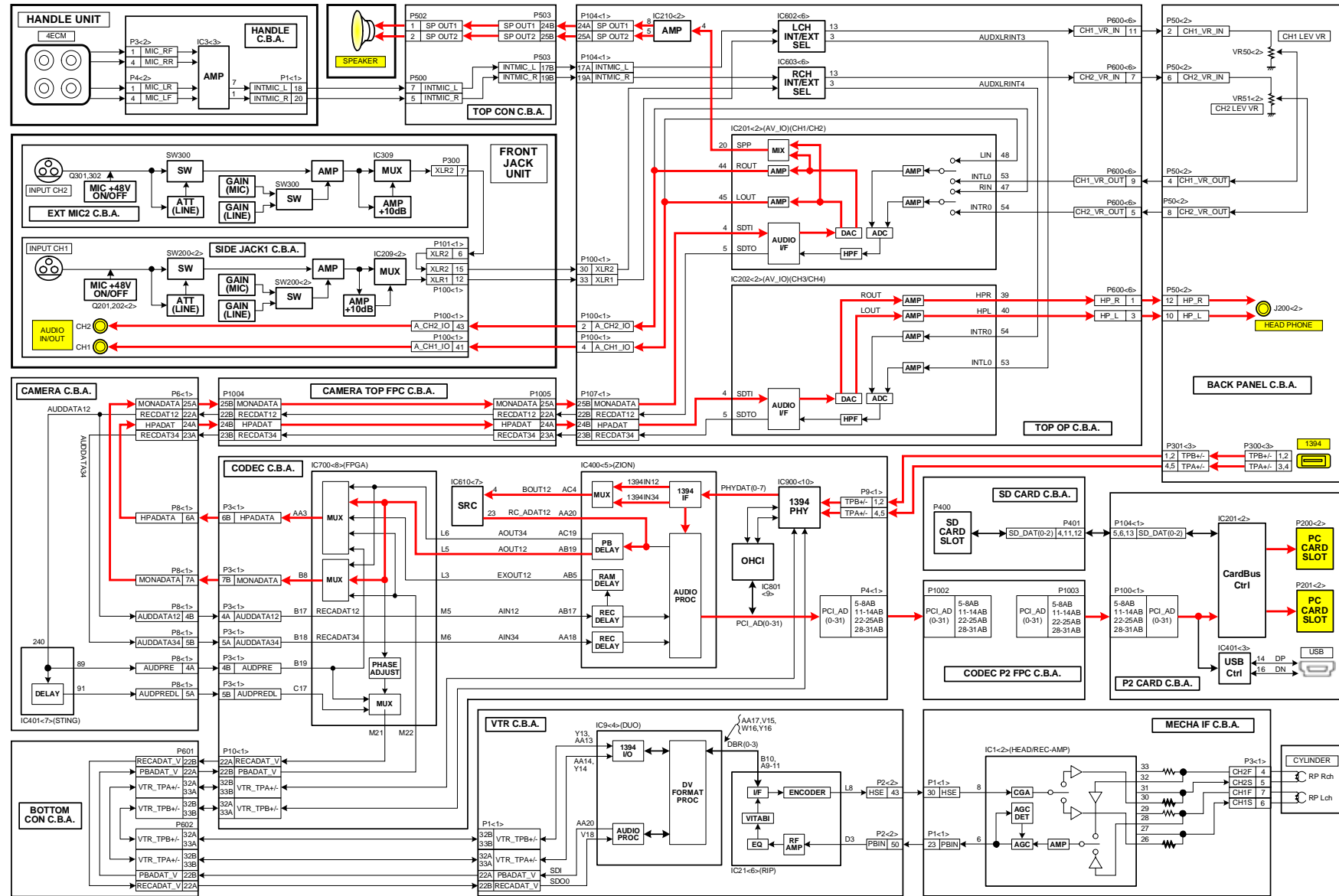
BLK-16

# AUDIO BLOCK DIAGRAM (MCR PLAY)



BLK-17

# AUDIO BLOCK DIAGRAM (MCR REC: 1394 IN)



BLK-18

BLK-19



[illegible]

BLK-20