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## SECTION 4 REPLACEMENT PARTS LIST

# SECTION 1 GENERAL

## SPECIFICATIONS

### General

|                         |                                                                           |
|-------------------------|---------------------------------------------------------------------------|
| Imaging Device :        | Color 1/4-inch interline transfer CCD                                     |
| Signal System           |                                                                           |
| CC1400HZ16-2,           |                                                                           |
| CC1400Z16-4 :           | NTSC                                                                      |
| CC1400HZ16-2X,          |                                                                           |
| CC1400HZ16-4X :         | PAL                                                                       |
| Pixels                  |                                                                           |
| NTSC :                  | 768 (H) x 508 (V)                                                         |
| PAL :                   | 752 (H) x 582 (V)                                                         |
| Scanning System :       | 2:1 interlace                                                             |
| Sync System             | 12 VDC : Internal<br>synchronization<br>24 VAC : External AC line<br>lock |
| Horizontal Resolution   |                                                                           |
| NTSC :                  | 450 TV lines                                                              |
| PAL :                   | 440 TV lines                                                              |
| Signal-to-Noise Ratio : | 48 dB ▲                                                                   |
| Light Sensitivity :     | 1 lux (30 IRE)                                                            |
| Gain Control :          | Automatic                                                                 |
| Exposure                |                                                                           |
| NTSC :                  | Automatic (1/60–1/10,000)                                                 |
| PAL :                   | Automatic (1/50–1/10,000)                                                 |
| White Balance :         | Push auto                                                                 |
| Focal Length :          | 3.9 to 63 mm                                                              |
| Zoom Ratio:             | 16X optical, 8X digital<br>(total 128X)                                   |
| Minimum                 |                                                                           |
| Focus Distance:         | 0.01m (wide angle),<br>1.20m (telephoto)                                  |
| Focus Mode :            | Manual                                                                    |
| Iris Control :          | Automatic                                                                 |
| Camera Control :        | RS-422 cable interfaced<br>with PC                                        |

### Electrical

|                    |                                         |
|--------------------|-----------------------------------------|
| Power Requirements |                                         |
| CC1400HZ16-2/2X :  | 24 VAC, 50/60 Hz                        |
| CC1400HZ16-4/4X :  | 12 VDC, 50/60 Hz                        |
| Power              |                                         |
| Consumption :      | 4 watts maximum<br>(camera only)        |
| Video Output :     | Composite output,<br>75 ohms terminated |

### Environmental

|               |                          |
|---------------|--------------------------|
| Operating     |                          |
| Temperature : | 32°-113°F (0°-45°C)      |
| Storage       |                          |
| Temperature : | 32°-140°F (0°-60°C)      |
| Humidity :    | 0%-80% relative humidity |

### Physical

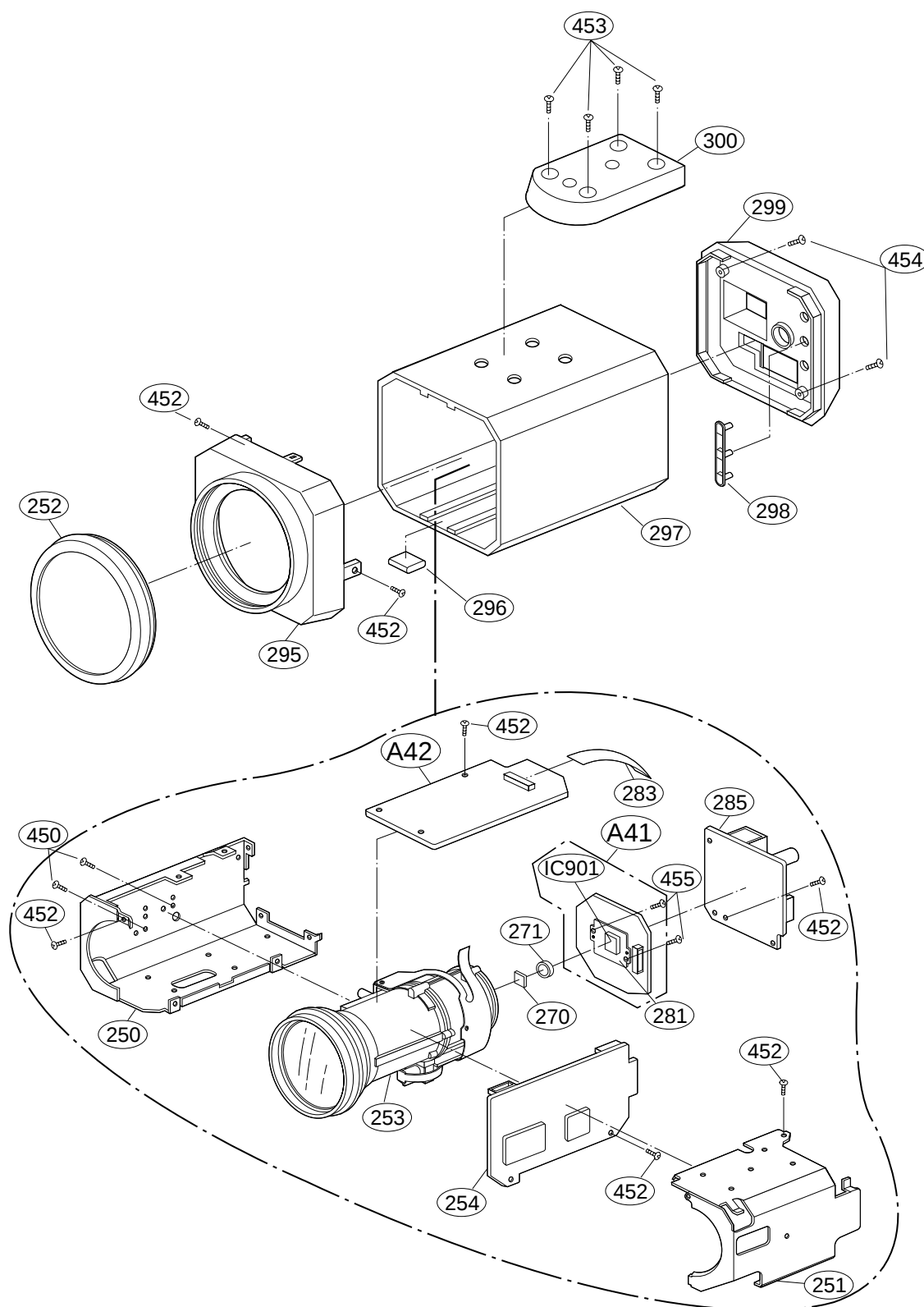
|                   |                                                                   |
|-------------------|-------------------------------------------------------------------|
| Construction :    | Aluminum case                                                     |
| Finish :          | Neutral gray                                                      |
| Dimensions        |                                                                   |
| CC1400HZ16-2/2X : | 2.36 (H) x 2.27 (W) x 4.42 (L)<br>inches(5.99 x 5.77 x 11.20 cm)  |
| CC1400HZ16-4/4X:  | 2.36 (H) x 2.27 (W) x 5.63 (L)<br>inches (5.99 x 5.77 x 14.30 cm) |
| Weight            |                                                                   |
| 12 VDC :          | 0.75 lb (0.34 kg)                                                 |
| 24 VAC :          | 0.95 lb (0.43 kg)                                                 |

(Design and product specifications subject to change without notice.)

# SECTION 2 CABINET & MAIN CHASSIS

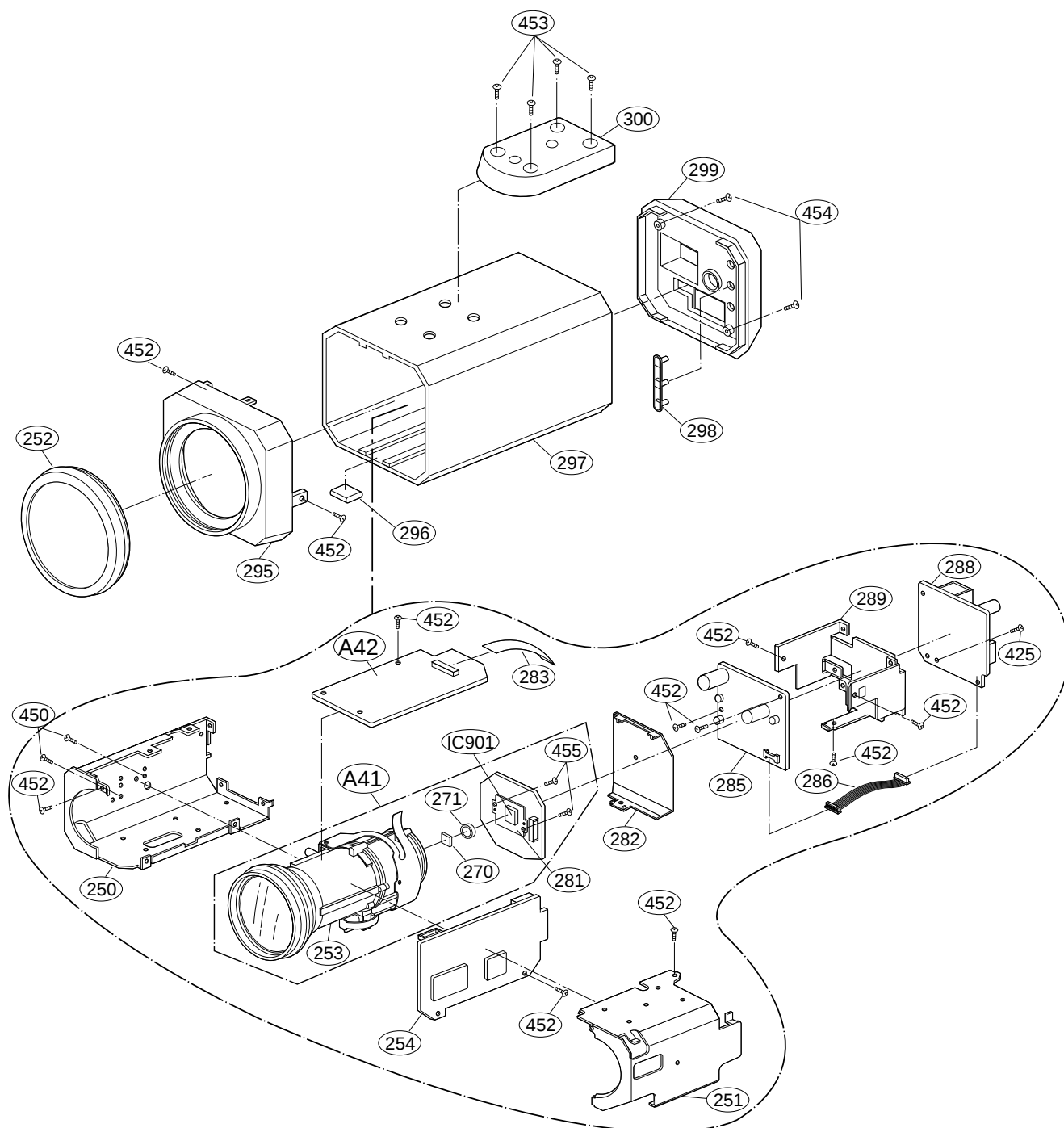
## EXPLODED VIEW

\*Model : CC1400HZ16-4/4X



# EXPLODED VIEW

\*Model : CC1400HZ16-2/2X

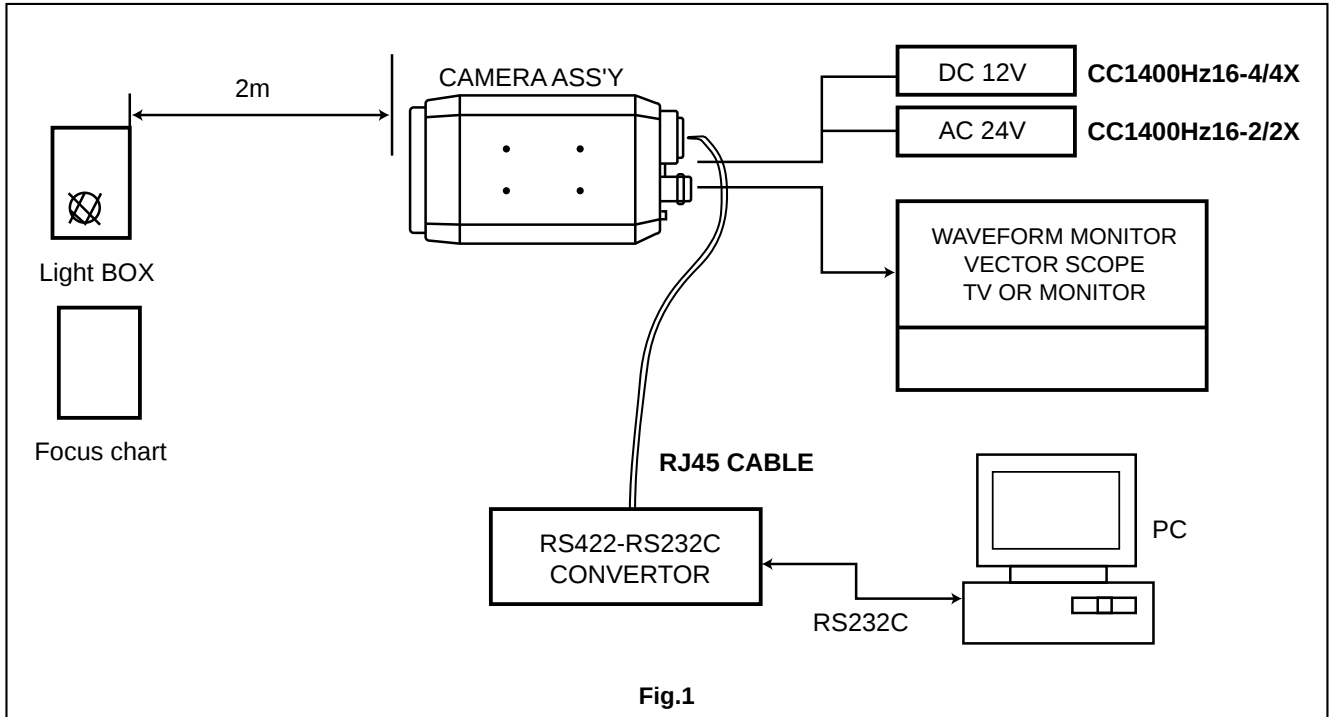


# SECTION 3 ELECTRICAL

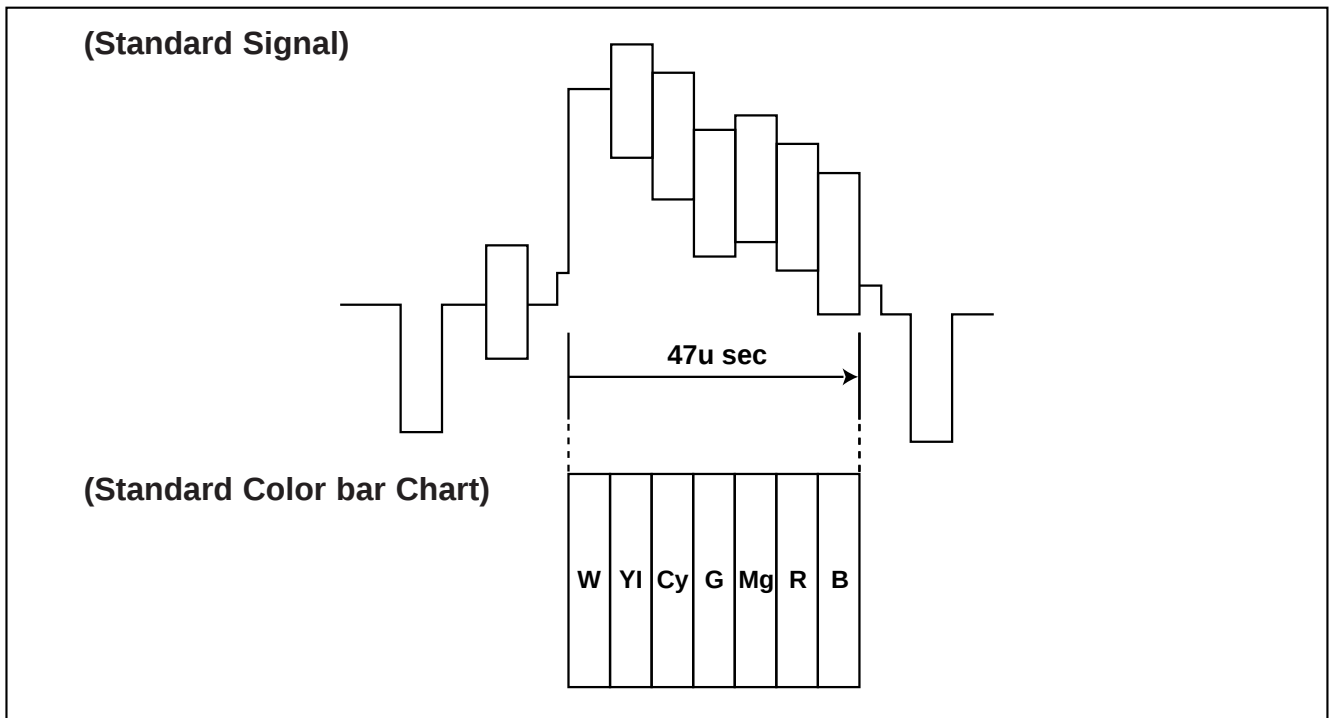
## ELECTRICAL ADJUSTMENT PROCEDURES

### 1. Camera connection for adjustment

#### 1-1 CONNECTION OF THE EQUIPMENT



#### 1-2. Standard Image Size



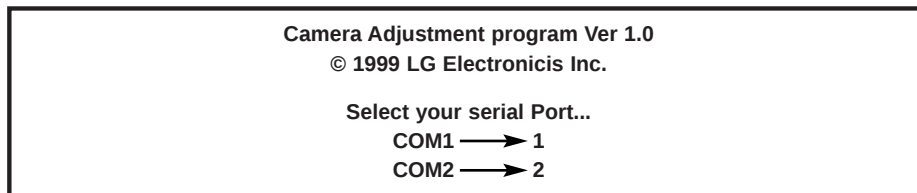
## 2. Adjustment Procedures I

### 2-1. Main Clock Frequency Adjustment

|                                                                                                                                                                                                                                                                                                                                  |                                            |                                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------|--|
| Adjustment Equipment                                                                                                                                                                                                                                                                                                             | 1). Frequency counter<br>2). Adjust driver |                                                     |  |
| Measurement Point                                                                                                                                                                                                                                                                                                                | Adjustment Point                           | Specification                                       |  |
| MCK TP (CSP PCB)                                                                                                                                                                                                                                                                                                                 | VC 801 (CSP PCB)                           | NTSC : 14,318,181 ± 50Hz<br>PAL : 14,187,500 ± 50Hz |  |
| <div>• Adjustment procedure</div> <div>1. Connect the MCK TP to the Frequency counter.</div> <div>2. Adjust VC801 to specification.(NTSC, PAL)</div> <div>• Adjusment position (CSP PCB)</div> <div><div><div><div>IC806</div><div>IC802</div><div>VC801</div><div>○ TP817 (MCK)</div></div></div><div>(SOLDER SIDE)</div></div> |                                            |                                                     |  |

## 3. Adjustment Program Install

- 1) Insert Adjustment Program diskette in Floppy drive A (or B).
- 2) Copy A(or B) Drive to C Drive.  
(The contents : LG\_CCD10.exe, Lens\_off.dat, Off\_thd.dat, Tr00.dat, A810NM.tbl, A71HM.tbl, A71HP.tbl)
- 3) Execute LG\_CCD10.EXE.
- 4) Click "1" if you use COM 1 Serial Port, "2" if you use COM 2 Serial Port.



- 5) And then you will see the Main menu screen as follows.



## 4. Adjustment Procedures II

### 4-1) Initial Data File Read

| <b>Adjustment Equipment</b>                                                                                                                                                                                                                                                                                                                                                               | 1) PC more than Intel 486DX Class<br>3) Monitor | 2) Adjustment Program(Ver 1.0) |            |           |                |           |                  |           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------|------------|-----------|----------------|-----------|------------------|-----------|
| <b>• Adjustment procedure</b><br>1. Connect the camera as fig 1. And execute adjust software (Ver.1.0) with turn on the power.<br>2. In the initial menu, Click <b>File Read</b><br>3. Click File name as follows.<br><table><tr><th>Model Name</th><th>File Name</th></tr><tr><td>CC1400HZ16-2/4</td><td>A71HM.tbl</td></tr><tr><td>CC1400HZ16-2X/4X</td><td>A71HP.tbl</td></tr></table> |                                                 |                                | Model Name | File Name | CC1400HZ16-2/4 | A71HM.tbl | CC1400HZ16-2X/4X | A71HP.tbl |
| Model Name                                                                                                                                                                                                                                                                                                                                                                                | File Name                                       |                                |            |           |                |           |                  |           |
| CC1400HZ16-2/4                                                                                                                                                                                                                                                                                                                                                                            | A71HM.tbl                                       |                                |            |           |                |           |                  |           |
| CC1400HZ16-2X/4X                                                                                                                                                                                                                                                                                                                                                                          | A71HP.tbl                                       |                                |            |           |                |           |                  |           |
| 4. And then click <b>Read a Selected File</b>                                                                                                                                                                                                                                                                                                                                             |                                                 |                                |            |           |                |           |                  |           |

### 4-2) Initial Data Write

|                                                                                                                                                                                                                                                                                                                                                                                 |                                                 |                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|--------------------------------|
| <b>Adjustment Equipment</b>                                                                                                                                                                                                                                                                                                                                                     | 1) PC more than Intel 486DX Class<br>3) Monitor | 2) Adjustment Program(Ver 1.0) |
| <b>• Adjustment procedure</b><br>1. Connect the camera as fig. 1. And execute adjust software (Ver.1.0) with turn on the power.<br>2. In the initial menu, Click <b>EEPROM Write</b> → <b>Write</b><br>3. If initial write is fail, data matrix color is different. In this case click <b>ReTry</b><br>4. When the initial data write is finish, camera is reset automatically. |                                                 |                                |

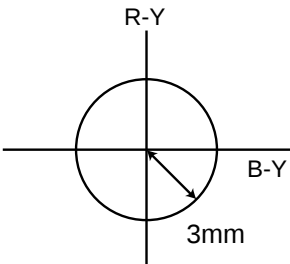
### 4-3) Zoom Lens Offset Adjustment

| <b>Adjustment Equipment</b>                                                                                                                                                                                                                                                                                                                                        | 1) PC (more than Intel 486DX Class)<br>3) Focus chart | 2) Adjustment Program(Ver 1.0)<br>4) Monitor |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------|
| Measurement Point                                                                                                                                                                                                                                                                                                                                                  | Adjustment Point                                      | Specification                                |
| -                                                                                                                                                                                                                                                                                                                                                                  | -                                                     | -                                            |
| <b>• Adjustment procedure</b><br>1. Camera shoot the focus chart at 2meter distance. And execute adjust software (Ver.1.0)<br>2. In the initial menu, Click <b>Adjustment</b> → <b>Lens Offset Adjustment</b> → <b>START</b><br>3. When adjustment is complete, confirm “LENS OFFSET ADJUSTMENT END!!!!”<br>4. For Escape this menu, click the right mouse button. |                                                       |                                              |

### 4-4) Hall Adjustment

| <b>Adjustment Equipment</b>                                                                                                                                                                                                                                                                                                                  | 1) PC(more than Intel 486DX Class)<br>3) Monitor | 2) Adjustment Program(Ver 1.0) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------|
| Measurement Point                                                                                                                                                                                                                                                                                                                            | Adjustment Point                                 | Specification                  |
| -                                                                                                                                                                                                                                                                                                                                            | -                                                | -                              |
| <b>• Adjustment procedure</b><br>1. Connect the camera as fig. 1. And execute adjustment software (Ver.1.0) with turn on the power.<br>2. In the initial menu, Click <b>Adjustment</b> → <b>Hall/WB Adjustment</b> → <b>Hall_ADJ</b><br>3. When adjustment is complete, confirm “ADJUST OK”<br>4. If fail, PC monitor display “ADJUST ERROR” |                                                  |                                |

#### 4-5) White Balance Adjustment

| Adjustment Equipment                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1) PC(more than Intel 486DX Class)<br>3) Monitor/Vectorscope | 2) Adjustment Program<br>4) Light box (3200°K/5100°K)                                                                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Measurement Point                                                                                                                                                                                                                                                                                                                                                                                                                                              | Adjustment Point                                             | Specification                                                                                                                             |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -                                                            |  <p>The white vector point of center is within 3mm</p> |
| <b>• Adjustment procedure</b><br>1. Connect the camera as fig. 1. And execute adjust software (Ver.1.0) with turn on the power.<br>2. In the initial menu, Click <b>Adjustment</b> → <b>Hall/WB Adjustment</b> → <b>Hall_ADJ</b><br>3. Camera shoot the Light box (3200 °K White chart)<br>4. Click the <b>INDOOR WB ADJ</b> then confirm “ADJUST OK”<br>5. Camera shoot the Light box (5100 °K)<br>6. Click the <b>INDOOR WB ADJ</b> then confirm “ADJUST OK” |                                                              |                                                                                                                                           |

## THE ADJUSTED EEPROM TABLE

A : CC1400HZ16-4/2  
B : CC1400HZ16-4X/2X

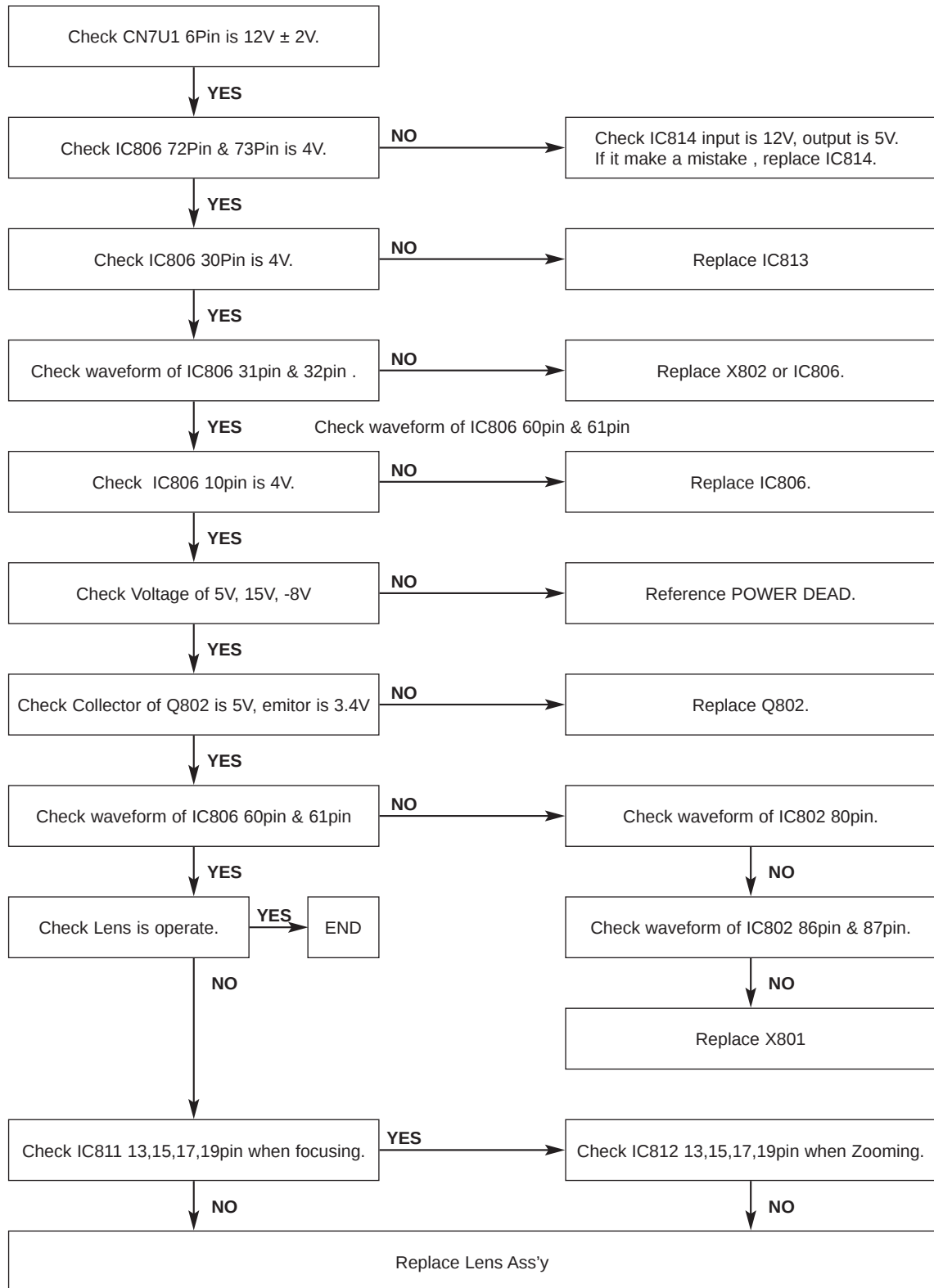
| Adress | Description   | A  | B  | Adress | Description   | A  | B  |
|--------|---------------|----|----|--------|---------------|----|----|
| 00     | eEVR_Sadr     | AA | AA | 3E     | eIN_R_POS     | 7F | 7F |
| 01     | eVREF_Y       | 57 | 58 | 3F     | eIN_B_POS     | 7F | 7F |
| 02     | eVREF_C       | 4C | 3C | 40     | eCOR4_SEL     | 00 | 00 |
| 03     | eAGC_MIN      | 33 | 33 | 41     | eCOR4_COFF    | 1D | 26 |
| 04     | eAD_OFFSET    | 22 | 2B | 42     | eCOR4_CWID    | 0C | 0B |
| 05     | eHALL_OFFSET  | 82 | 82 | 43     | eCOR4_WBYUP   | FA | FA |
| 06     | eREF_2V       | 64 | 64 | 44     | eCOR4_WBYDWN  | 00 | 00 |
| 07     | eHALL_GAIN    | 32 | 32 | 45     | eCOR5_HBON    | 00 | 00 |
| 08     | eIRIS_EVR     | FF | FF | 46     | eCOR5_HOFF    | 49 | 4A |
| 09     | eNEGA_LED     | 00 | 00 | 47     | eCOR5_HWID    | 15 | 15 |
| 0A     | eMONO_LED     | 00 | 00 | 48     | eCOR5_WNDAH   | F0 | F0 |
| 0B     | eFAM_LED      | FF | FF | 49     | eCOR5_WNDBH   | A5 | A5 |
| 0C     | ePWR_LED      | 00 | 00 | 4A     | eCOR5_WNDAV   | E1 | E1 |
| 0D     | eIC_WR_OK     | AA | AA | 4B     | eCOR5_WNDBV   | B4 | B4 |
| 0E     | eCOR0_CAMVTR  | 46 | 47 | 4C     | eCOR5_HBTH    | 6E | CE |
| 0F     | eCOR0_PS      | 00 | 00 | 4D     | eOUT_R_POS    | 80 | 80 |
| 10     | eCOR0_DETACCT | 0C | 0C | 4E     | eOUT_B_POS    | 7F | 7F |
| 11     | eCOR0_DETREF  | 00 | 00 | 4F     | eCOR7_MIRROR  | 23 | 23 |
| 12     | eCOR0_CLPPOS  | 9C | 9C | 50     | eCOR7_VSTART  | 66 | 46 |
| 13     | eCOR0_SDH     | 19 | 15 | 51     | eCOR7_HSTART  | 06 | 07 |
| 14     | eCOR0_SDV     | 0C | 0C | 52     | eCOR7_PSTART  | 15 | 18 |
| 15     | eCOR0_WKEY    | C8 | C8 | 53     | eCOR7_PSTOP   | BD | BC |
| 16     | eCOR0_EXMODE  | 05 | 05 | 54     | eTG_CTL       | 00 | 02 |
| 17     | eCOR0_AJST    | 00 | 00 | 55     | eTG_SHUTTER   | F9 | F9 |
| 18     | eCOR0_PG      | E8 | E8 | 56     | eTG_MOD       | 21 | 21 |
| 19     | eCOR0_DISP    | 00 | 00 | 57     | eZTG_MAG      | 00 | 00 |
| 1A     | eCOR0_EXSPOL  | 00 | 00 | 58     | eV_OFFSET     | 0A | 09 |
| 1B     | eCOR1_BLK1S1  | 00 | 00 | 59     | eOFF_ADJ_OK   | 55 | 55 |
| 1C     | eCOR1_BLK2S2  | 00 | 00 | 5A     | ePEAK_OFFSET  | 0E | 0C |
| 1D     | eCOR1_VHAPCGS | 3A | 3A | 5B     | eZP_OFFSET    | 02 | FF |
| 1E     | eCOR1_BCONT   | 2A | 2B | 5C     | eFP_OFFSET    | D2 | C9 |
| 1F     | eCOR1_RCONT   | 48 | 48 | 5D     | eZMPL_ADR     | 01 | E1 |
| 20     | eCOR1_GCONT   | 30 | 30 | 5E     | eZMPH_ADR     | 00 | 01 |
| 21     | eCOR1_BYGM    | 14 | 1C | 5F     | eFMPL_ADR     | 01 | F0 |
| 22     | eCOR1_RYHM    | 01 | 00 | 60     | eFMPH_ADR     | 01 | 02 |
| 23     | eCOR1_BYHM    | FD | FB | 61     | eZMP_W_END    | 01 | 01 |
| 24     | eCOR1_RYGM    | 25 | 32 | 62     | eZMP_T_ENDL   | 27 | 27 |
| 25     | eCOR1_BYGP    | 1A | 29 | 63     | eZMP_T_ENDH   | 02 | 02 |
| 26     | eCOR1_RYHP    | FA | F7 | 64     | eF1FV_THLD    | 30 | 30 |
| 27     | eCOR1_BYHP    | 09 | 0C | 65     | eF2FV_THLD    | 38 | 38 |
| 28     | eCOR1_RYGP    | 22 | 34 | 66     | eCOL_SUPP     | 90 | 90 |
| 29     | eCOR2_SETUP   | 56 | 55 | 67     | eWB_ADJ_ERR   | 02 | 02 |
| 2A     | eCOR2_YDLY    | AD | A9 | 68     | eYOUME_SETUP  | 06 | 05 |
| 2B     | eCOR2_VAPC    | 7D | 7D | 69     | eCRV_NUM      | 65 | 65 |
| 2C     | eCOR2_REM     | 00 | 00 | 6A     | eDIF_A        | BA | BA |
| 2D     | eCOR2_BSTLVL  | 6B | 6B | 6B     | eDIF_A1       | CA | CA |
| 2E     | eCOR2_RMATC   | C0 | C0 | 6C     | eD_ALPA       | 6F | 6F |
| 2F     | eCOR2_RMATY   | 40 | 40 | 6D     | eD_ALPA1      | E3 | E3 |
| 30     | eCOR2_BMATC   | C0 | C0 | 6E     | eINS_PRESET_1 | 00 | 00 |
| 31     | eCOR2_BMATY   | 40 | 40 | 6F     | eINS_PRESET_2 | 00 | 00 |
| 32     | eCOR2_FDOC    | 00 | 00 | 70     | ePC_TRS_CNT   | 0A | 0A |
| 33     | eCOR2_YGAIN   | E3 | E3 | 71     | eCR_32        | 90 | 1E |
| 34     | eCOR2_MOSAICH | 34 | 34 | 72     | eCR_32h       | 1E | 20 |
| 35     | eCOR2_MOSAICV | 3D | 3D | 73     | eCB_32        | 75 | 7E |
| 36     | eCOR2_YMDL    | 00 | 00 | 74     | eCB_32h       | 0C | 0C |
| 37     | eCOR3_SPOT    | 00 | 00 | 75     | eCR_51        | FD | 87 |
| 38     | eCOR3_YOFF    | 1D | 26 | 76     | eCR_51h       | 13 | 14 |
| 39     | eCOR3_YWID    | 0C | 0B | 77     | eCB_51        | 17 | 6A |
| 3A     | eCOR3_REF0    | 40 | 40 | 78     | eCB_51h       | 12 | 12 |
| 3B     | eCOR3_REF1    | 00 | 00 | 79     | eRi_Cont      | 30 | 30 |
| 3C     | eCOR3_SPADR   | 00 | 00 | 7A     | eBi_Cont      | 3B | 3C |
| 3D     | eCOR3_SPWID   | 00 | 00 | 7B     | eRo_Cont      | 4C | 4A |

A : CC1400HZ16-4/2  
B : CC1400HZ16-4X/2X

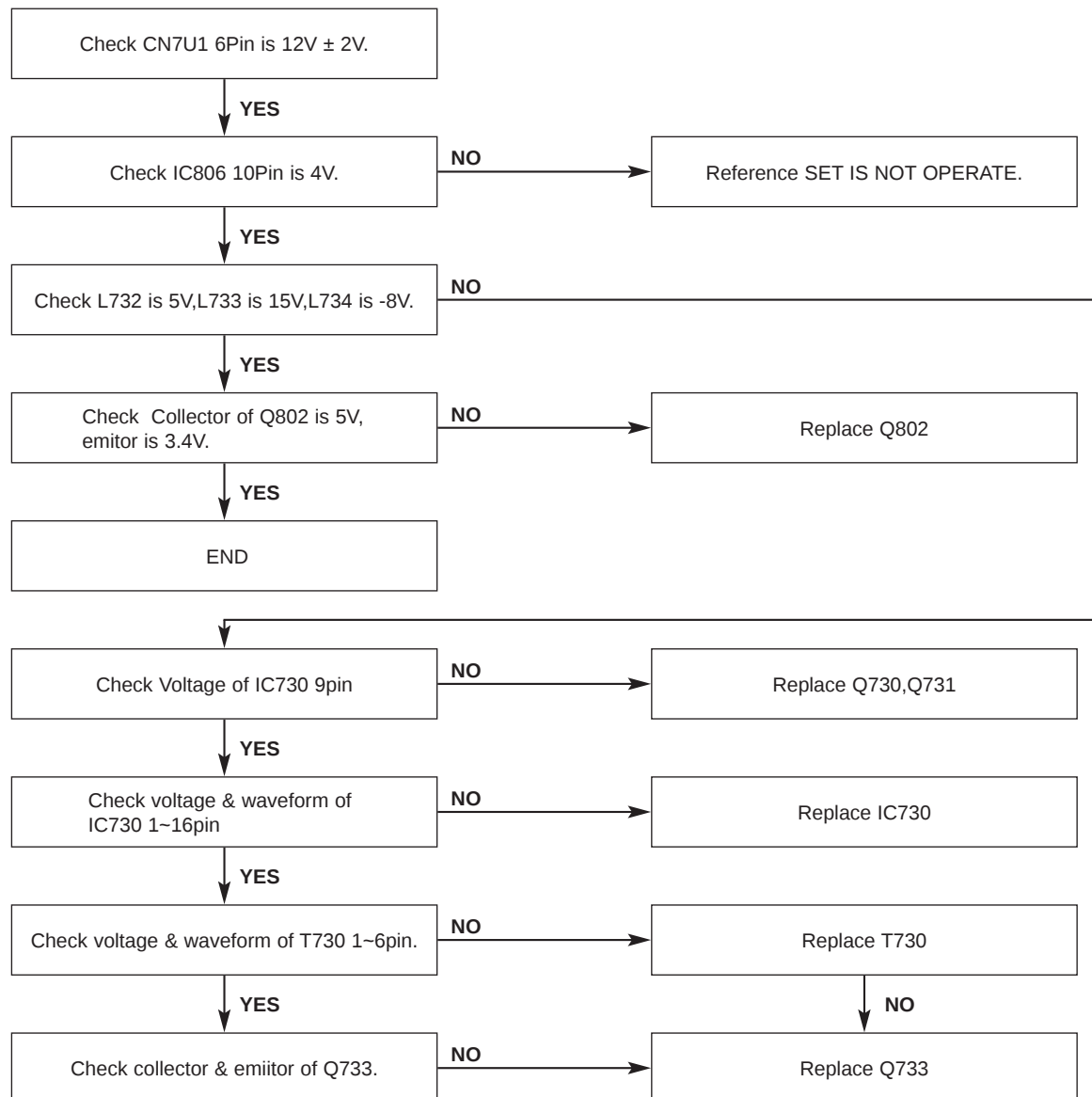
| Adress | Description      | A  | B  | Adress | Description     | A  | B  |
|--------|------------------|----|----|--------|-----------------|----|----|
| 7C     | eBo_Cont         | 2A | 29 | BE     | ePKadr4         | 00 | 00 |
| 7D     | eABLC_ON_THD     | 31 | 31 | BF     | eCK1adr0        | 02 | 02 |
| 7E     | eABLC_OFF_THD    | 28 | 28 | C0     | eCK1adr1        | 00 | 00 |
| 7F     | eFBWB_RPT        | 80 | 80 | C1     | eCK1adr2        | 00 | 00 |
| 80     | eFBWB_BPT        | 80 | 80 | C2     | eCK1adr3        | 00 | 00 |
| 81     | eDNP_CR_32       | 00 | 00 | C3     | eCK1adr4        | 00 | 00 |
| 82     | eDNP_CR_32h      | 00 | 00 | C4     | eCK1adr5        | 00 | 00 |
| 83     | eDNP_CB_32       | 00 | 00 | C5     | eCK1adr6        | 00 | 00 |
| 84     | eDNP_CB_32h      | 00 | 00 | C6     | eCK1adr7        | 04 | 04 |
| 85     | eDNP_CR_51       | 00 | 00 | C7     | eCK2adr0        | 58 | 58 |
| 86     | eDNP_CR_51h      | 00 | 00 | C8     | eCK2adr1        | 00 | 00 |
| 87     | eDNP_CB_51       | 00 | 00 | C9     | eCK2adr2        | 00 | 00 |
| 88     | eDNP_CB_51h      | 00 | 00 | CA     | eCK2adr3        | 00 | 00 |
| 89     | eDNP_Ri_Cont     | 02 | 02 | CB     | eCK2adr4        | 00 | 00 |
| 8A     | eDNP_Bi_Cont     | FF | FF | CC     | eCK2adr5        | 00 | 00 |
| 8B     | eDNP_Ro_Cont     | 00 | 00 | CD     | eCK2adr6        | 00 | 00 |
| 8C     | eDNP_Bo_Cont     | 00 | 00 | CE     | eCK2adr7        | 00 | 00 |
| 8D     | eAWBmod_F        | 00 | 00 | CF     | eRcontADD       | 02 | 02 |
| 8E     | eWBadj_Ok        | AA | AA | D0     | eBcontADD       | 04 | 04 |
| 8F     | eWB_IN_ADR       | 0E | 0E | D1     | eAEmodeUSE      | 1E | 1E |
| 90     | eWB_OUT_ADR      | 1A | 1A | D2     | eAE_MODE        | 00 | 00 |
| 91     | ePWB_Rcont       | 50 | 30 | D3     | eAEMiris        | C8 | C8 |
| 92     | ePWB_Bcont       | 2E | 40 | D4     | eAEMagc         | 3C | 3C |
| 93     | eTAR_MEAN        | 30 | 30 | D5     | eDFT_AE_MODE    | 00 | 00 |
| 94     | eAGC_MAX         | B0 | B5 | D6     | eDT_IRIS_TH     | 04 | 04 |
| 95     | eHALL_MIN_RESULT | 45 | 47 | D7     | eCAM_CON2       | 80 | 80 |
| 96     | eHALL_MAX_RESULT | B8 | B8 | D8     | eSYNCFadeCNT    | 6A | 65 |
| 97     | eHALL_MIN_TARGET | 47 | 47 | D9     | eSFT_CRDELT     | 06 | 06 |
| 98     | eHALL_MAX_TARGET | B8 | B8 | DA     | eSFT_CBDELT     | F9 | F9 |
| 99     | eHALLadjOK       | AA | AA | DB     | eSFT_MOD60      | 40 | 40 |
| 9A     | eNEGA100level    | 08 | 08 | DC     | eSFT_MOD61      | 00 | 00 |
| 9B     | eNEGA80level     | 04 | 04 | DD     | eSFT_MOD62      | C0 | C0 |
| 9C     | eN100_YGAIN      | B0 | B0 | DE     | eSFT_MOD63      | FF | FF |
| 9D     | eN80_YGAIN       | A0 | A0 | DF     | eCAM_ID         | 00 | 00 |
| 9E     | eMOBILE_TIME     | B4 | 96 | E0     | eDFT_COR1_VHAPC | 3A | 3A |
| 9F     | eBLC_LEVEL       | 10 | 10 | E1     | eDFT_CAM_CON1   | C7 | C7 |
| A0     | eSTNBdlyCNT      | 10 | 10 | E2     | eDFT_DEFT_CON   | 00 | 00 |
| A1     | eFVperTH         | 02 | 02 | E3     | eDFT_SSC_CNT    | 00 | 00 |
| A2     | eTHLD_LIM        | 3F | 3F | E4     | eDFT_MWB_BUF    | 32 | 32 |
| A3     | eM24errTHD       | 41 | 41 | E5     | eDFT_TAR_MEAN   | 30 | 30 |
| A4     | eM6F1THD         | 18 | 18 | E6     | eDFT_WB_MODE    | 05 | 05 |
| A5     | eM6F2THD         | 30 | 30 | E7     | eDFT_CAM_CON2   | 80 | 80 |
| A6     | eM6errTHD        | 20 | 20 | E8     | eVPOSI_RAM      | 0B | 12 |
| A7     | eAF_MODF         | 00 | 00 | E9     | eHPOSI_RAM      | 05 | 05 |
| A8     | eHLGHT_THD       | 03 | 03 | EA     | eFADEoffCNT     | 96 | A6 |
| A9     | ePKadr5          | 25 | 25 | EB     | eAREA_WTG       | 45 | 45 |
| AA     | eV_LINE0         | E5 | 3F | EC     | eADJ_H_WHITE    | 89 | 89 |
| AB     | eV_LINE1         | 01 | 02 | ED     | ;/              | 00 | 00 |
| AC     | eV_CENT0         | 80 | 80 | EE     | eADJ_H_CYAN     | 9E | 9E |
| AD     | eV_CENT1         | 79 | 91 | EF     | ;/              | 00 | 00 |
| AE     | eV_CENT2         | 00 | 00 | F0     | eADJ_H_BLUE     | AE | AE |
| AF     | eASPECT0         | 8F | 4F | F1     | eOSSC_CNT       | 00 | 00 |
| B0     | eASPECT1         | 01 | 01 | F2     | eMDLoption      | 03 | 03 |
| B1     | eH_CENT0         | 00 | 00 | F3     | eWB_MODE        | 05 | 05 |
| B2     | eH_CENT1         | 7A | 73 | F4     | eSSC_CNT        | 00 | 00 |
| B3     | eH_CENT2         | 01 | 01 | F5     | eMWB_BUF        | 32 | 32 |
| B4     | eH_PIXEL0        | F4 | F0 | F6     | eWRenbR1        | FF | FF |
| B5     | eH_PIXEL1        | 02 | 02 | F7     | eWRenbR2        | 8A | 8A |
| B6     | eV_MAG           | 00 | 00 | F8     | eDEFT_CON       | 00 | 00 |
| B7     | eV_MAG_MAX       | E0 | E0 | F9     | eCAM_CON1       | C7 | C7 |
| B8     | eV_PWR_MAXL      | 00 | 00 | FA     | eWBmodeENB      | 3F | 3F |
| B9     | eV_PWR_MAXH      | 08 | 08 | FB     | eDefENB         | 00 | 00 |
| BA     | ePKadr0          | 00 | 00 | FC     | eOSD_MODE_CNT   | 03 | 03 |
| BB     | ePKadr1          | 00 | 00 | FD     | eCAM_IMOD       | E6 | E2 |
| BC     | ePKadr2          | 00 | 00 | FE     | eID_ADR         | 01 | 01 |
| BD     | ePKadr3          | 00 | 00 | FF     | ePC_ADJ_OK      | AA | AA |

# TROUBLESHOOTING GUIDE

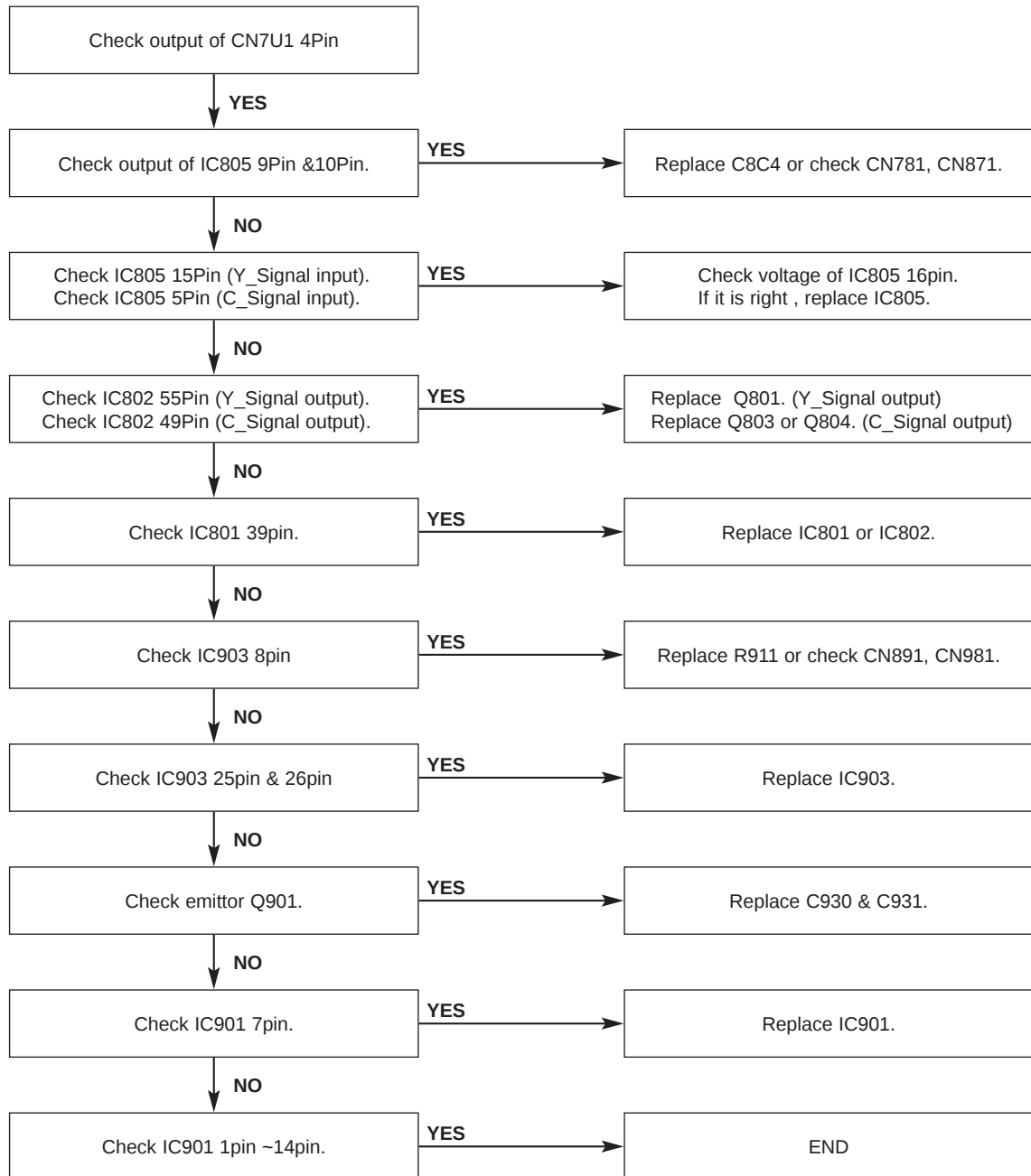
## 1. SET IS NOT OPERATE



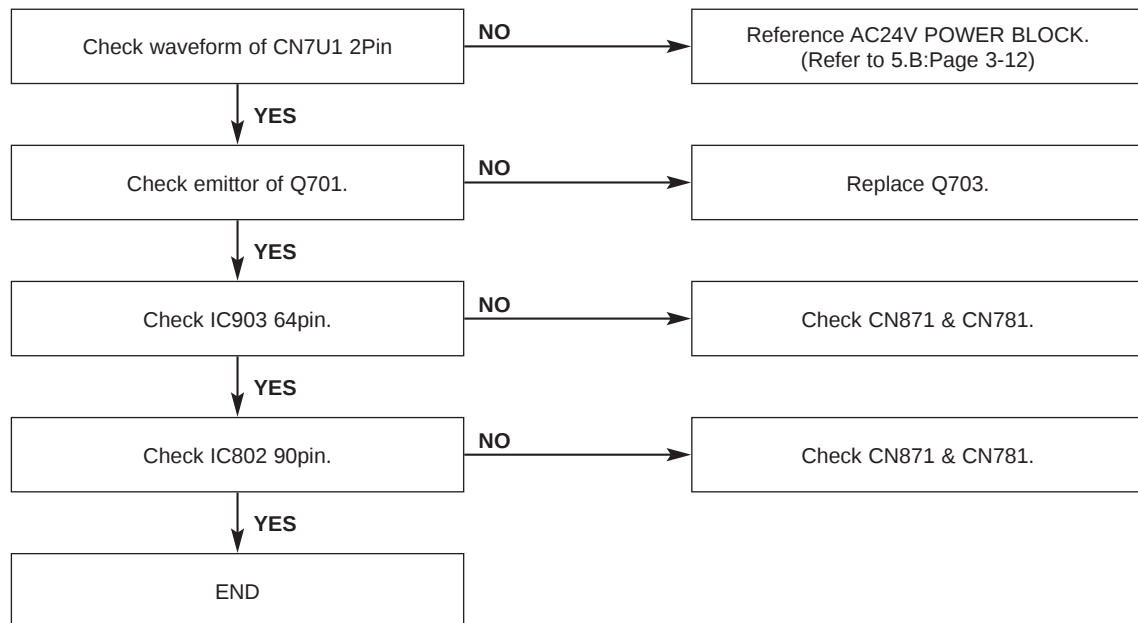
## 2.POWER DEAD



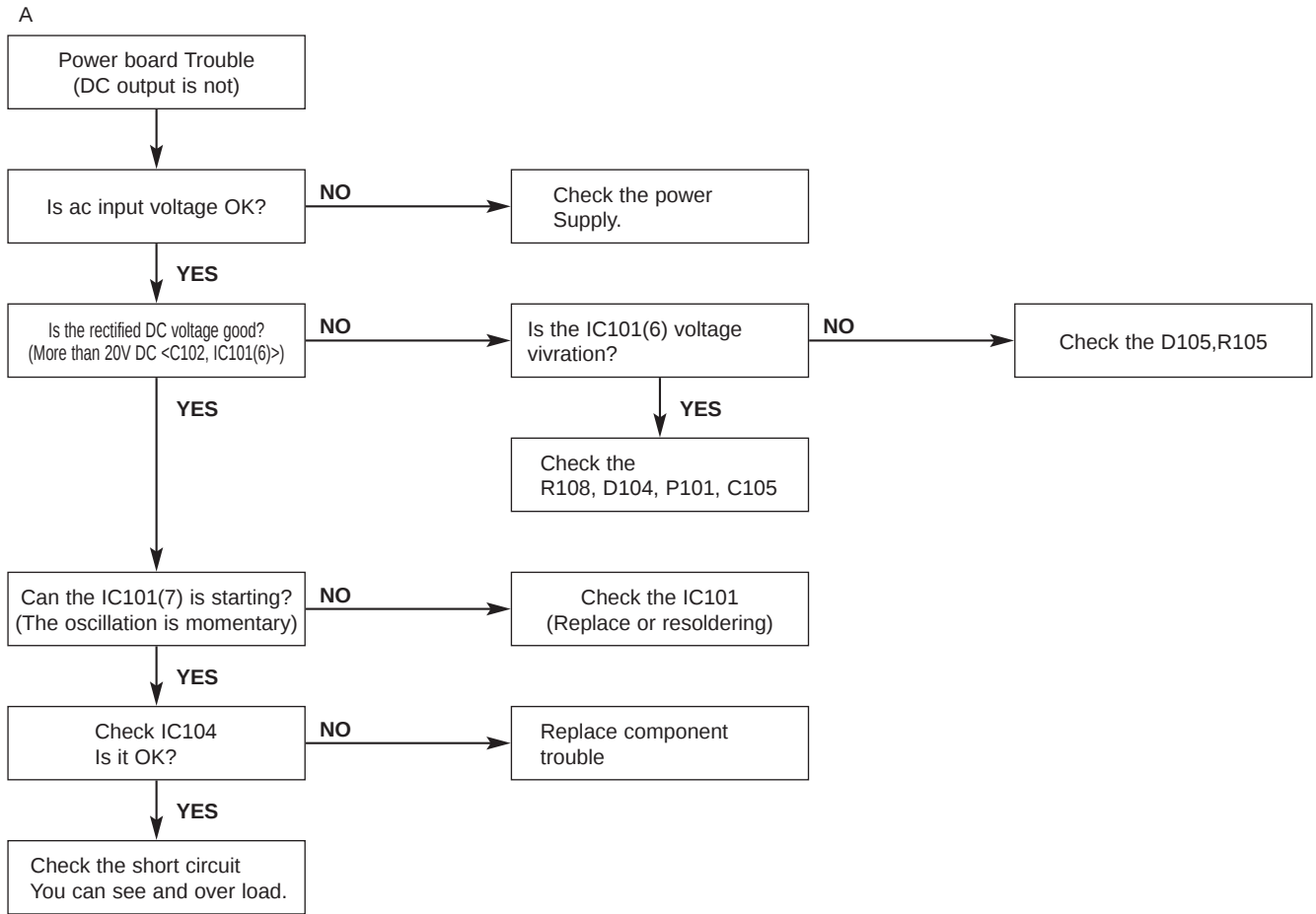
### 3. PICTURE DEAD



#### 4. EXTERNAL SYNCHRONISM IS NOT OPERATE.



## 5. AC/DC POWER BOARD TROUBLE



B

