

**SAMSUNG**

# PORTABLE DIGITAL AUDIO PLAYER

YP-T6 H (128MB)

YP-T6 V (256MB)

YP-T6 X (512MB)

# ***SERVICE*** *Manual*

## PORTABLE DIGITAL AUDIO PLAYER



## CONTENTS

1. Exploded Views and Parts List
2. Electrical Parts List
3. Block Diagrams
4. Schematic Diagrams

### Notice !!

You can search for the updated part code through ITSELF web site.  
URL; <http://itself.sec.samsung.co.kr>

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YP-T6H(128MB)  
YP-T6V(256MB)  
YP-T6X(512MB)

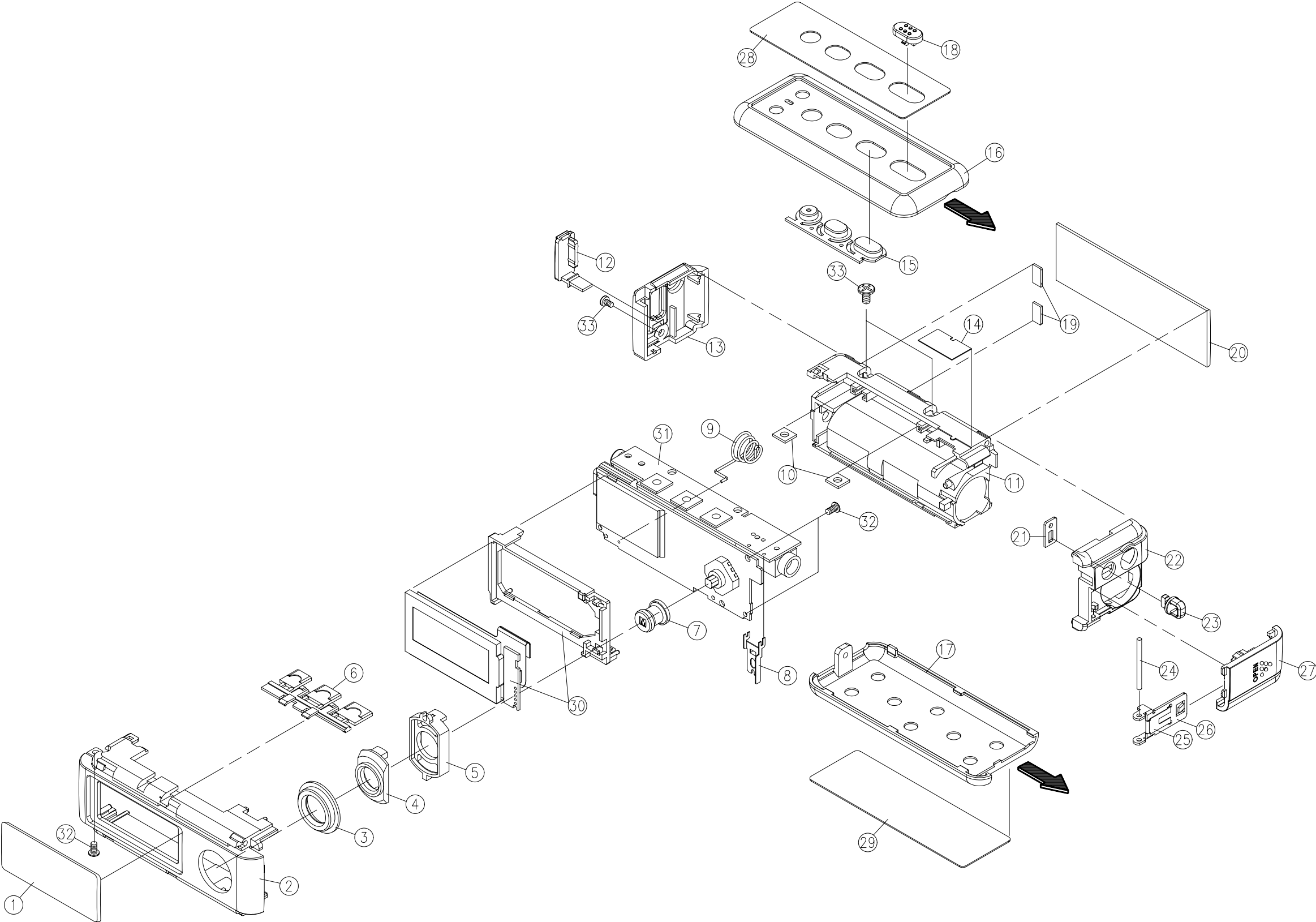


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1.Exploded Views and Parts List

1-1. Total Exploded View and Parts List



**\* Parts List of Total Exploded view**

| No. | Code No.    | Description    | Specification  | Q'ty | REMARK |
|-----|-------------|----------------|----------------|------|--------|
| 1   | AH64-03256A | WINDOW-LCD     | ACRYL 1.0T WHT | 1    | WHT    |
|     | AH64-03256B |                | ACRYL 1.0T BLK |      | BLK    |
| 2   | AH64-03231B | CABINET-FRONT  | PC ABS WHT     | 1    | WHT    |
|     | AH64-03231C |                | PC ABS BLK     |      | BLK    |
| 3   | AH64-03229B | DECO-VOLUME    | ABS NATURAL    | 1    |        |
| 4   | AH67-00328A | LENS-VOLUME    | PMMA MILKY     | 1    |        |
| 5   | AH61-01798A | HOLDER-LENS    | ABS GRAY       | 1    |        |
| 6   | AH61-01817A | HOLDE-PLAY     | ABS BLK        | 1    |        |
| 7   | AH64-03224B | KNOB-MENU      | ABS NATURAL    | 1    |        |
| 8   | AH61-01612A | BRKT-SPRING    | Be-Cu 0.2T     | 1    |        |
| 9   | AH61-01629A | SPRING-BATTERY | SWPB •i0.5     | 1    |        |
| 10  | AH61-01633A | BRKT-B         | SECC 0.5T      | 2    |        |
| 11  | AH64-03230A | CABINET-BOTTOM | PC ABS BLK     | 1    |        |
| 12  | AH63-00864A | COVER-USB      | Elastomer WHT  | 1    |        |
|     | AH63-00864B |                | Elastomer BLK  |      |        |
| 13  | AH63-00866B | COVER-ENC      | PC ABS WHT     | 1    |        |
|     | AH63-00866C |                | PC ABS BLK     |      |        |
| 14  | AH63-00742B | SHEET-HOLD     | PC 0.125T EMBO | 1    |        |
| 15  | AH64-03227B | KNOB-PLAY      | ABS NATURAL    | 1    |        |
| 16  | AH64-03226B | DECO-SIDE,L    | Zn             | 1    | GREEN  |
|     | AH64-03226C |                |                |      | BLUE   |
|     | AH64-03226D |                |                |      | RED    |
|     | AH64-03226E |                |                |      | SILVER |
| 17  | AH64-03225B | DECO-SIDE,R    | Zn             | 1    | GREEN  |
|     | AH64-03225C |                |                |      | BLUE   |
|     | AH64-03225D |                |                |      | RED    |
|     | AH64-03225E |                |                |      | SILVER |
| 18  | AH64-03228B | KNOB-HOLD      | ABS GRAY       | 1    |        |
| 19  | AH61-01821A | BRKT-REAR      | SUS 0.5T       | 2    |        |
| 20  | AH63-00867B | COVER-REAR     | PC ABS WHT     | 1    | 128MB  |
|     | AH63-00867C |                | PC ABS WHT     |      | 256MB  |
|     | AH63-00867D |                | PC ABS BLK     |      | 512MB  |
|     | AH63-00867E |                | PC ABS WHT     |      | 1GB    |
|     | AH63-00867F |                | PC ABS BLK     |      | 256MB  |

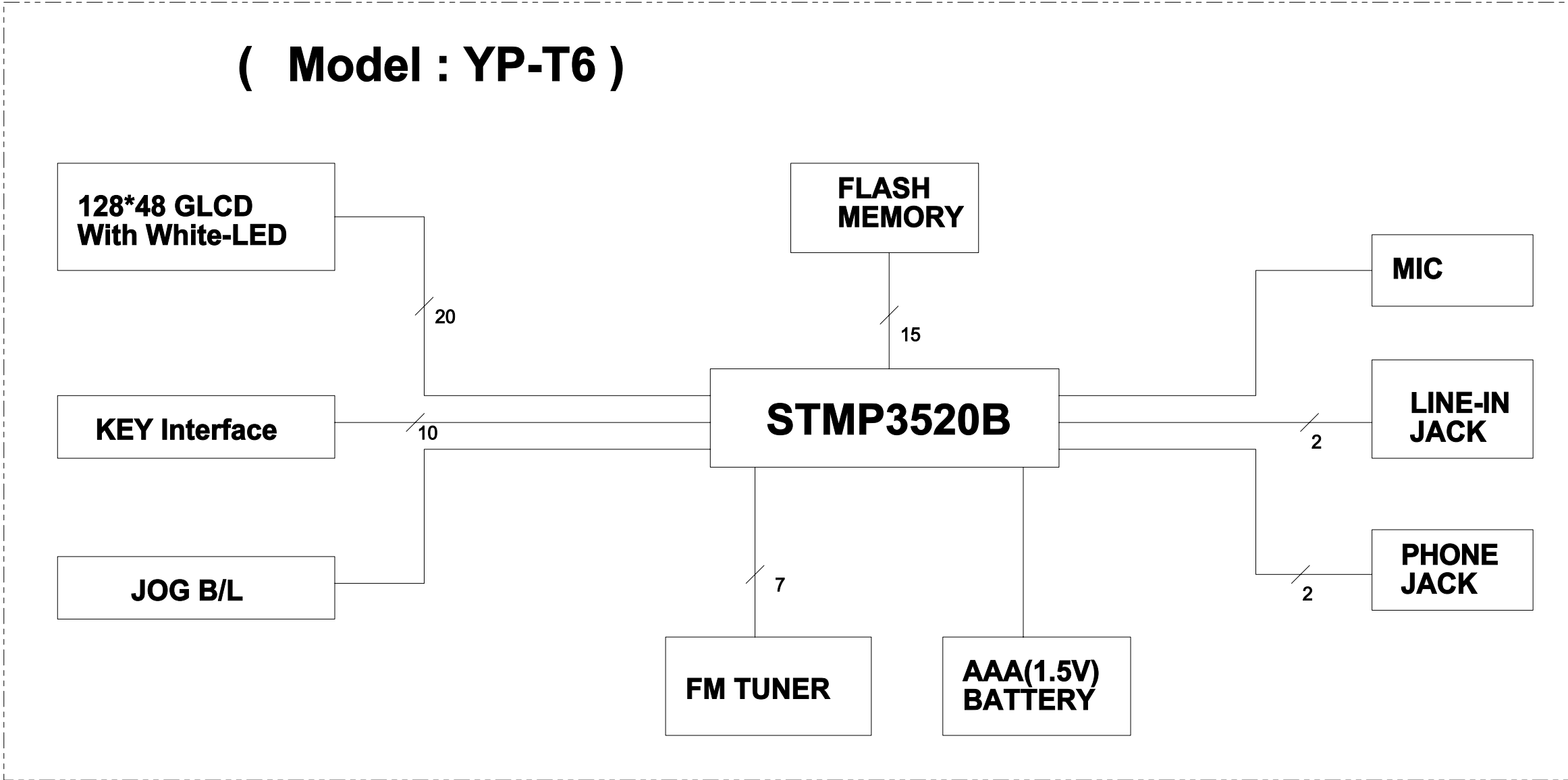
| No. | Code No.    | Description    | Specification       | Q'ty | REMARK               |
|-----|-------------|----------------|---------------------|------|----------------------|
|     | AH63-00867G |                | PC ABS WHT          |      | 512GB                |
| 21  | AH61-01827A | BRKT-STOPPER   | SUS 0.5T            | 1    |                      |
| 22  | AH63-00868B | COVER-TOP      | PC ABS WHT          | 1    |                      |
|     | AH63-00868C |                | PC ABS BLK          |      |                      |
| 23  | AH61-01799A | BRKT-STRAP     | Zn                  | 1    |                      |
| 24  | AH61-01631A | PIN-BATTERY    | SUS 303             | 1    |                      |
| 25  | AH61-01611A | BRKT-BATTERY B | PBS 0.5T            | 1    |                      |
| 26  | AH61-01800A | BRKT-BATTERY,A | PBS 0.5T            | 1    |                      |
| 27  | AH63-00865B | COVER-BATTERY  | PC ABS WHT          | 1    | WHT+GREEN            |
|     | AH63-00865C |                | PC ABS WHT          |      | WHT+BLUE             |
|     | AH63-00865D |                | PC ABS WHT          |      | WHT+RED              |
|     | AH63-00865E |                | PC ABS BLK          |      | BLK+SILVER           |
|     | AH63-00865F |                | PC ABS WHT          |      | WHT+SILVER           |
| 28  | AH63-00863B | COVER-DECO,L   | AL 0.3T             | 1    | GREEN                |
|     | AH63-00863C |                |                     |      | BLUE                 |
|     | AH63-00863D |                |                     |      | RED                  |
|     | AH63-00863E |                |                     |      | BLK                  |
|     | AH63-00863F |                |                     |      | SILVER               |
| 29  | AH63-00862B | COVER-DECO,R   | AL 0.3T             | 1    | GREEN                |
|     | AH63-00862C |                |                     |      | BLUE                 |
|     | AH63-00862D |                |                     |      | RED                  |
|     | AH63-00862E |                |                     |      | BLK                  |
|     | AH63-00862F |                |                     |      | SILVER               |
|     | AH63-00862G |                |                     |      | GREEN : ONLY America |
|     | AH63-00862H |                |                     |      | BLUE : ONLY America  |
|     | AH63-00862J |                |                     |      | BLK : ONLY America   |
|     | AH63-00862K |                |                     |      | SILVER: ONLY America |
| 30  | AH97-01371A | ASSY-LCD       | YP-T6               | 1    |                      |
| 31  |             | ASSY-PCB       | YP-T6H              | 1    |                      |
| 32  | 6003-001508 | SCREW-TAP TITE | M1.4,L3, Ni Coating | 3    |                      |
| 33  | 6003-001490 | SCREW-MACHINE  | M1.7,L3, Ni Coating | 3    |                      |

## 2. Electrical Parts List

\*S.N.A. : Service Not Available

| Location no.               | Code no.    | Description & Specification                   | Remarks | Location no. | Code no.                                  | Description & Specification | Remarks |
|----------------------------|-------------|-----------------------------------------------|---------|--------------|-------------------------------------------|-----------------------------|---------|
| **** YP-T6 Parts List **** |             |                                               |         |              |                                           |                             |         |
| AA000                      | AH64-03230B | CABINET-BOTTOM,ASSY,-,,-,,-,,-,,-             |         | AH63-00894B  | SHEET-LED;YP-T6,PORON,0.3,-,,-,,-         |                             |         |
| AB055                      | AH61-01800A | BRACKET-BATTERY A;YP-T6,PBS,-,,-,,-,,-        |         | AH61-01618A  | CASE-CARRYING-CASE;YP-T5,-,,-,,-,,-,YP-T5 |                             |         |
| AB181                      | AH61-01631A | BRACKET-HDD;YP-T5,SUS -,-,-,-,,-,PIN-BAT.     |         | AH63-00866E  | COVER-ENC,ASSY,Y,-,,-,,-,,-,,-            |                             |         |
| AB285                      | AH61-01821B | BRACKET-REAR,-,,-,,-,,-,,-                    |         | 4301-000115  | BATTERY-ALKALINE;1.5V,750mAh,AAA,10.5x44  |                             |         |
| AB321                      | AH61-01612A | BRKT-SPRING;YP-T5,-,,-,,-,,-,,-,BRKT          |         | AH30-00065D  | PHONE-EAR(EP-360);BLACK,EP-360,16ohm,NOR  |                             |         |
| AB326                      | AH61-01827A | BRACKET-STOPPER;YP-T6,SUS,0.3,-,,-,,-         |         | AH39-00488A  | CBF CABLE-STEREO CORD;NOA-C130G(D&S),YP-  |                             |         |
| AB327                      | AH61-01799A | BRACKET-STRAP;YP-T6,Zn,-,,-,,-,,-,,-SILVER    |         | AH39-00690B  | CBF CONNECTOR-USB ADAPTOR;USB ADAPTOR,YP  |                             |         |
| AC010                      | AH64-03231C | CABINET-FRONT;YP-T6,PC ABS,-,,-,,-,,-,BLK,-   |         | AH39-00692A  | CBF CABLE-USB;SCB-656-1,YEPP ALL MODEL,-  |                             |         |
| AC010                      | AH64-03231E | CABINET-FRONT;YP-T6,-,,-,,-,,-,BLK,ASSY       |         | AH68-00508D  | LABEL BAR CODE,-,-,ART PAPER,-,80x95mm,-  |                             |         |
| AC180                      | AH63-00865E | COVER-BATTERY;YP-T6,PC ABS,-,,-,,-,,-,BLK     |         | AH68-00701J  | LABEL SERIAL;YP-W3,-,,-,,-,,-,,-          |                             |         |
| AC225                      | AH63-00863E | COVER-DECO,L;YP-T6,AL,-,,-,,-,,-,,-,BLK,-     |         | AH68-01633L  | MANUAL USERS;YP-T6X,SEA,ENG(US),- ,PAPER, |                             |         |
| AC226                      | AH63-00862J | COVER-DECO,R;YP-T6,AL,0.3,-,,-,,-,,-,BLK,XA   |         | AH68-01647F  | MANUAL-QG;YP-T6X,SEA,ENG(US),- ,115,115   |                             |         |
| AC290                      | AH63-00867J | COVER-REAR;YP-T6,-,,-,,-,,-,,-,128MB          |         | AH68-50119B  | LABEL-EAN(B);ART-PAPER,T0.05,L29,W47,WHT  |                             |         |
| AC310                      | AH63-00868C | COVER-TOP;YP-T6,PC ABS,-,,-,,-,,-,,-,BLK,-    |         | AH68-00955M  | PAD-ASSY;yp-m16xaa,-,,-,,-,,-,,-          |                             |         |
| AD330                      | AH64-03226E | DECORATION-SIDE,L;YP-T6,Ni,-,,-,,-,,-,,-SILVE |         | AH80-00078A  | INSTALL-CD,KOR;YP-T6,-,CD,KOR,1.3,-,,-    |                             |         |
| AD340                      | AH64-03225E | DECORATION-SIDE,R;YP-T6,Ni,-,,-,,-,,-,,-SILVE |         | AH92-02256A  | ASSY PCB;YP-T6H,128M,ASSY-CHIP            |                             | YP-T6 H |
| AD370                      | AH64-03229B | DECORATION-VOLUME;YP-T6,ABS,-,,-,,-,,-,,-PL   |         | AH92-02257A  | ASSY PCB;YP-T6V,256M,ASSY-CHIP            |                             | YP-T6 V |
| AH010                      | AH61-01414B | HANGER-NECK;YP-T6,PVC,-,,-,,-,,-,,-,SAMSUNG   |         | AH92-02258A  | ASSY PCB;YP-T6X,512M,ASSY-CHIP            |                             | YP-T6 X |
| AH315                      | AH61-01798A | HOLDER-LENS;YP-T6,ABS,-,,-,,-,,-,,-,WHITE     |         |              |                                           |                             |         |
| AH355                      | AH61-01817A | HOLDER-PLAY;YP-MT6,ABS 94HB,-,,-,,-,,-,,-     |         |              |                                           |                             |         |
| AK200                      | AH64-03228B | KNOB-HOLD;YP-T6,ABS,-,,-,,-,,-,,-,SILVER      |         |              |                                           |                             |         |
| AK240                      | AH64-03224B | KNOB-MENU;YP-T6,ABS,-,,-,,-,,-,,-,PLATING     |         |              |                                           |                             |         |
| AK280                      | AH64-03227B | KNOB-PLAY;YP-T6,ABS,-,,-,,-,,-,,-,PLATING     |         |              |                                           |                             |         |
| AL210                      | AH67-00328A | LENS-VOLUME;YP-T6,PMMA,TRANSPARENT,-,-,-      |         |              |                                           |                             |         |
| AS040                      | 6003-001479 | SCREW-TAPTITE;BH,+B,M1.7,L4,ZN                |         |              |                                           |                             |         |
| AS040                      | 6003-001508 | SCREW-TAPTITE;PH,+B,M1.4,L3,Ni PLT,SWRC       |         |              |                                           |                             |         |
| AS082                      | AH63-00742B | SHEET-HOLD;YP-T6,PC,0.125,-,,-,,-,,-          |         |              |                                           |                             |         |
| AS100                      | AH63-00894A | SHEET-LCD;YP-T6,PORON,0.3,-,,-,,-,,-          |         |              |                                           |                             |         |
| AS106                      | AH63-00894E | SHEET-MIC;YP-T6,PORON,0.3,-,,-,,-,,-          |         |              |                                           |                             |         |
| AS235                      | AH61-01630A | SPRING ETC;YP-T5,PHOSPHOR BRONZE 0.1,-,-      |         |              |                                           |                             |         |
| AS235                      | AH61-01611A | SPRING ETC;YP-T5,-,,-,,-,,-,,-,BRKT           |         |              |                                           |                             |         |
| AS310                      | AH61-01629A | SPRING-BATTERY;YP-T5,SWPB P10.5,-,,-,,-,,-    |         |              |                                           |                             |         |
| AW120                      | AH64-03256B | WINDOW-LCD;YP-T6,ACRYL,1.0,-,,-,,-,,-,BLK,-   |         |              |                                           |                             |         |
| C20                        | 2203-000438 | C-CER,CHIP;1nF,10%,50V,X7R,1005               |         |              |                                           |                             |         |
| C29                        | 2203-002793 | C-CER,CHIP;1000nF,+80-20%,25V,Y5V,2012        |         |              |                                           |                             |         |
| C31                        | 2203-002717 | C-CER,CHIP;10nF,+80-20%,50V,Y5V,TP1005        |         |              |                                           |                             |         |
| C32                        | 2203-006090 | C-CER,CHIP;10000nF,10%,6.3V,X5R,2012          |         |              |                                           |                             |         |
| C37                        | 2203-006093 | C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,1005       |         |              |                                           |                             |         |
| C42                        | 2203-002709 | C-CER,CHIP;100nF,+80-20%,16V,Y5V,1005         |         |              |                                           |                             |         |
| C46                        | 2203-006390 | C-CER,CHIP;4pF,0.1pF,50V,NPO,TP1005,-         |         |              |                                           |                             |         |
| C7                         | 2203-000330 | C-CER,CHIP;0.012nF,5%,50V,C0G,TP1005          |         |              |                                           |                             |         |
| CON2                       | 3708-001069 | CONNECTOR-FPC/FPC;PIC20P,0.5mm,SMD-A,SN       |         |              |                                           |                             |         |
| CON3                       | 3722-001954 | ACK-MINI USB;5P1C,AU30U,-,SMD-A,-             |         |              |                                           |                             |         |
| DR2                        | 2007-000162 | R-CHIP;100Kohm,5%,1/16W,TP1005                |         |              |                                           |                             |         |
| DR3                        | 2007-000142 | R-CHIP;2.7Kohm,5%,1/16W,TP1005                |         |              |                                           |                             |         |
| IC2                        | 0902-001743 | IC-MICROPROCESSOR;STMP3520B,24MHZ,24BIT,      |         |              |                                           |                             |         |
| IC3                        | 1107-001341 | IC-FLASH MEMORY;K9F1G08U0A,128Mx8Bit,TSO      |         |              |                                           |                             |         |
| IC5                        | AH40-00015L | TUNER-FM-MODULE;DA-202,YP-T5,FM,-,225 #       |         |              |                                           |                             |         |
| J1                         | 3722-001605 | JACK-PHONE;3P,-,AG,BLK,-                      |         |              |                                           |                             |         |
| J2                         | 3722-001952 | JACK-EAR PHONE;5P,-,AU,BLK,-                  |         |              |                                           |                             |         |
| J3                         | 3003-001069 | MIC-CONDENSOR;2V,0.5mA,-40dB,2.2Kohm          |         |              |                                           |                             |         |
| L3                         | 2703-001513 | INDUCTOR-SMD;100nH,5%,1608                    |         |              |                                           |                             |         |
| L4                         | 3301-001328 | BEAD-SMD;1000ohm,1608,100mA,TP,780ohm/6       |         |              |                                           |                             |         |
| L5                         | 2703-002346 | INDUCTOR-SMD;4.7uH,20%,3225                   |         |              |                                           |                             |         |
| L6                         | 3301-001477 | BEAD-SMD;60ohm,2.0x1.2x0.6mm,3000mA,TP,       |         |              |                                           |                             |         |
| LED1                       | 0601-001602 | LED-SMD,BLUE,1.1X0.8MM,472.5NM,1.6            |         |              |                                           |                             |         |
| PF1                        | 2901-001307 | FILTER-EMI SMD;25V2A,-,-2.0x1.25x0.8mm        |         |              |                                           |                             |         |
| Q5                         | 0505-001174 | FET-SILICON;SI2302ADS,N,20V,2.4A,65mohm,      |         |              |                                           |                             |         |
| Q8                         | 0505-001426 | FET-SILICON;IRLML6401,P,-12V,-4.3A,0.05o      |         |              |                                           |                             |         |
| Q9                         | 0504-000211 | TR-DIGITAL-DTC143TU,NPN,200mW,4.7K,SC-70      |         |              |                                           |                             |         |
| R17                        | 2007-002965 | R-CHIP;15OHM,5%,1/16W,DA,TP1005               |         |              |                                           |                             |         |
| R2                         | 2007-000171 | R-CHIP;0ohm,5%,1/16W,TP1005                   |         |              |                                           |                             |         |
| R25                        | 2007-000137 | R-CHIP;2KOHM,5%,1/16W,TP1005                  |         |              |                                           |                             |         |
| R27                        | 2007-001313 | R-CHIP;330OHM,5%,1/16W,TP1005                 |         |              |                                           |                             |         |
| R29                        | 2007-000141 | R-CHIP;2.2Kohm,5%,1/16W,TP1005                |         |              |                                           |                             |         |
| R48                        | 2007-000148 | R-CHIP;10Kohm,5%,1/16W,TP1005                 |         |              |                                           |                             |         |
| R57                        | 2007-000157 | R-CHIP;47Kohm,5%,1/16W,TP1005                 |         |              |                                           |                             |         |
| R60                        | 2007-000140 | R-CHIP;1Kohm,5%,1/16W,TP1005                  |         |              |                                           |                             |         |
| R62                        | 2007-007155 | R-CHIP;620OHM,5%,1/16W,TP1005                 |         |              |                                           |                             |         |
| R75                        | 2007-000172 | R-CHIP;10ohm,5%,1/16W,TP1005                  |         |              |                                           |                             |         |
| SW3                        | 3404-001121 | SWITCH-TACT;12V DC,50mA,160gf,4.8x4.8x0.      |         |              |                                           |                             |         |
| SW4                        | 3408-001038 | SWITCH-SLIDE;4V,300mA,SPST,ON-ON,-            |         |              |                                           |                             |         |
| SW5                        | 3404-001268 | SWITCH-TACT;Min 1V,Max 50mA,2350gf,7.5 *      |         |              |                                           |                             |         |
| TC1                        | 2404-001338 | C-TA,CHIP;220UF,20%,4V,WT,TP3528              |         |              |                                           |                             |         |
| TC4                        | 2404-001064 | C-TA,CHIP;10UF,20%,6.3V,WT,TP2012             |         |              |                                           |                             |         |
| TC9                        | 2404-001134 | C-TA,CHIP;100UF,20%,6.3V,LZ,TP4028            |         |              |                                           |                             |         |
| V5                         | 1405-001093 | VARIATOR;14V,20A,1x0.5x0.8mm,TP               |         |              |                                           |                             |         |
| Y1                         | 2801-004277 | CRYSTAL-SMD;24MHz,50ppm,28-ACF,12pF,50oh      |         |              |                                           |                             |         |
|                            | AH97-01206E | ASSY-SPRING,-,YP-T6,-                         |         |              |                                           |                             |         |
|                            | AH97-01371A | ASSY-LCD ASSY;YP-T6,FSTN,96*64,PA040630-      |         |              |                                           |                             |         |
|                            | AH63-00786A | SHEET-CLAMSHELL BACK;YP-55,ART PAPER,-,-      |         |              |                                           |                             |         |
|                            | AH61-00901C | HOLDER-BAND;YP-T6,Fe,-,,-,,-,,-               |         |              |                                           |                             |         |

3. Block Diagram



4-1 Main

