

Service Manual

Stereo Radio Cassette Player

Mini Radio Cassette
RQ-V460



Color

(K)... Black Type

Area

Country Code	Area	Color
(E)	Continental Europe.	(K)
(EG)	F.R. Germany & Italy.	
(GC)	Asia, Latin America, Middle Near East and Africa.	
(GN)	Oceania.	

RQ-S11 MECHANISM SERIES (AR90)

■ SPECIFICATIONS

General:

Power Requirement: Battery; 3V (two "AA" size batteries, not included)
(Panasonic UM-3/R6P, AM3/LR6 or equivalent, not included)
AC; with optional Panasonic AC adaptor RP-AC33 [For (E, EG, GN) areas.]

Power Output: 15mW + 15mW

Input: DC IN; 3V (mini jack, ⊖ ⊕)

Output: Headphones; 16Ω (φ3.5)

Dimensions: (W × H × D) 114 × 89.8 × 25.5mm

Weight: 200g without batteries

Radio Section:

Radio Frequency Range: FM; 87.5~108MHz
AM; 531 ~ 1602kHz (9kHz step)
530 ~ 1600kHz (10kHz step)
[For (GC) area.]
AM; 522 ~ 1611kHz
[For (E, EG, GN) areas.]

Intermediate Frequency: FM; 10.7MHz
AM; 450kHz [For (GC) area.]
AM; 459kHz
[For (E, EG, GN) areas.]

Sensitivity: FM; 3.2μV/(-3dB Limit sense)
AM; 1122μV/m/0.1mW output

Tape Section:

Frequency Response: 30~18,000Hz (with a normal tape)
30~18,000Hz (with a CrO₂ type tape)
30~18,000Hz (with a Metal tape)

Motor: Electrical governor motor

Track System: 4-track 2-channel stereo playback

Tape Speed: 4.8cm/s

Design and specifications are subject to change without notice.

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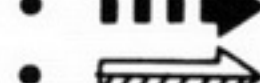
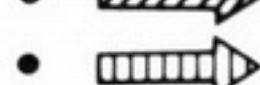
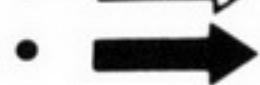



Panasonic®

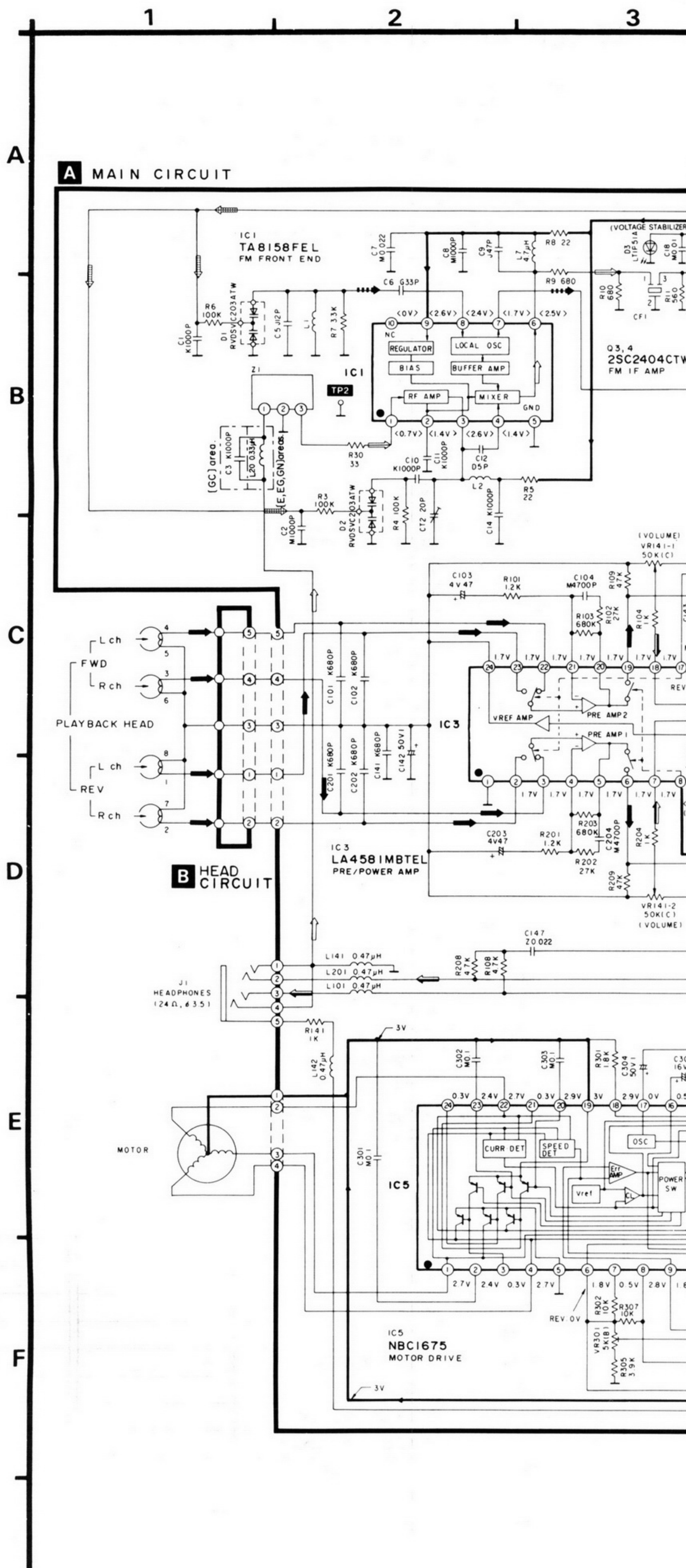
SCHEMATIC DIAGRAM

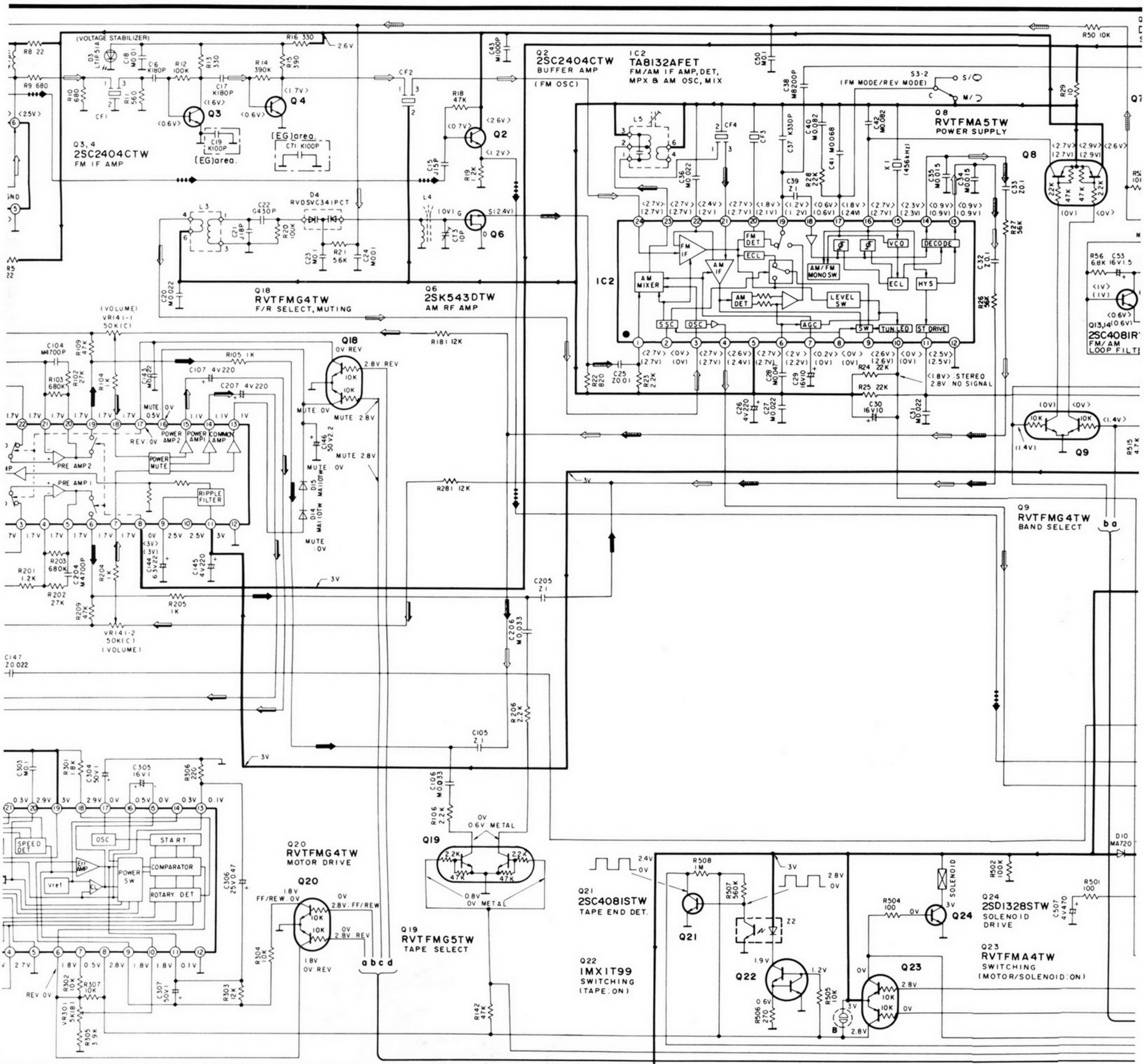
(See parts list on pages 21~24.)

• This schematic diagram may be modified at any time with the development of new technology.

Notes:

- **S2** : Hold (HOLD) switch in "ON" position.
- **S3-1** : Reverse mode selector (REV MODE) switch in "↶" position.
- **S3-2** : FM mode selector (FM MODE) switch in "MONO" position.
- **S5** : Playback/direction (PLAY/DIR) switch/ Memory select/memory scan (M. SELECT/M. SCAN) switch.
- **S6** : Stop (STOP) switch/ Memory (MEMORY) switch.
- **S7** : Fast forward (FF) switch/ Tuning (TUNING +) switch.
- **S8** : Rewind (REW) switch/ Tuning (TUNING -) switch.
- **S9** : Radio on/off • band select (OFF•ON RADIO; AM/FM BAND) switch.
- **S10~12** : Direct tuning (1, 2, 3) switches. [S10: 1, S11: 2, S12: 3]
- **S13** : FWD/REV switch in "R" position. (F...FWD, R...REV)
- **S14** : Leaf (open/close) switch.
- **S15** : Leaf (METAL) switch.
- **VR141** : Volume control VR.
- **VR301** : Tape speed adjustment VR.
- DC voltage measurements are taken with electronics voltmeter from negative terminal of battery.
 - < >...FM, ()...AM, No mark...Playback
- Battery current
 - Tape playback...160~170mA
 - Radio
 - No signal 400Hz 30% MOD
 - (AM) 80mA 90mA
 - (FM) 92mA 100mA
-  : FM SIGNAL
-  : AM SIGNAL
-  : FM OSC SIGNAL
-  : AM OSC SIGNAL
-  : Vcap CONTROL SIGNAL
-  : PLAYBACK SIGNAL
-  : MAIN (TAPE/RADIO) SIGNAL
-  : ⊕ B LINE





※ Caution

- Two types of IC for IC6 has been used, UPD1724GB549 and UPD1724GB556, and Q60 is used together with UPD1724GB549.
- Only UPD1724GB556 is supplied as replacement part.
- When UPD1724GB549 is replaced with UPD1724GB556, Q60 can be remained at it is.

