

The schematic diagram illustrates a portable AM radio receiver and transmitter circuit. The system is powered by a BATT (battery) connected to a switch SW101. The power supply section includes a 100μF capacitor X101 and a 10V regulator IC101. A CMOS MICROCONTROLLER (IC102) is the central control unit, receiving input from a SOURCE OF MUSIC and a MIC (microphone). It controls various components via its OUT, CALL, and BELL lines. The receiver path starts with an ANT (antenna) connected to a Q1 RX MIXER, which is also connected to a Q2 RX O.S.C. (oscillator). The signal then passes through an AM IF (intermediate frequency) stage, an IC1 (AM IF AMP. DET., AUDIO AMP., POWER AMP.), and a Q3 TX O.S.C. (oscillator) to a Q4 TX POWER AMP. The transmitter path includes a Q5 RX SWITCHING CONTROL, a Q6 RX CONTROL BELL, and a Q7 RX WAIT IMPULSE SIGNAL. The receiver also features a Q8 RX VOLTAGE AMP. and a Q9 RX SWITCHING CONTROL. The transmitter path includes a Q10 TX VOLTAGE AMP. and a Q11 TX SWITCHING CONTROL. The receiver's audio output is connected to a SPK 320HM (speaker). The transmitter's audio output is connected to a Q12 TX VOLTAGE AMP. and a Q13 TX SWITCHING CONTROL. The receiver's control logic is managed by the CMOS MICROCONTROLLER (IC102), which is also connected to a Q14 RX CONTROL BELL and a Q15 RX WAIT IMPULSE SIGNAL. The receiver's power supply is regulated by IC101, which is connected to a 100μF capacitor X101 and a 10V regulator. The transmitter's power supply is regulated by IC102, which is connected to a 100μF capacitor X101 and a 10V regulator. The receiver's control logic is managed by the CMOS MICROCONTROLLER (IC102), which is also connected to a Q14 RX CONTROL BELL and a Q15 RX WAIT IMPULSE SIGNAL. The receiver's power supply is regulated by IC101, which is connected to a 100μF capacitor X101 and a 10V regulator. The transmitter's power supply is regulated by IC102, which is connected to a 100μF capacitor X101 and a 10V regulator.

BLOCK DIAGRAM	SHEET 1 OF 1
TITLE: WALKIE TALKIE	
MODEL NUMBER: 9350	SIZE:
DATE: APR-8-98	VER:
GOLDMEN ELECTRONIC CO., LTD.	