



# Galaxy Saturn

## Circuit Theory

**PLL Circuitry.** PLL is an abbreviation of the phase-locked loop which is fundamental composed of a closed loop feedback circuit. The feedback component is the balance of frequency drift and the PLL circuit acts to cancel it out. To detect out the frequency drift of the PLL output, a fixed reference oscillator (10 kHz, 1/1024 divided down from 10.240 MHz) is compared constantly with the input frequency (10 kHz). The input frequency is obtained by dividing the VCO frequency. A functional block diagram is provided below under "PLL Circuit" for the easier understanding.

**Off-Set frequency oscillator IC10.** The off-set-frequency oscillator IC10 oscillates at 14.460 MHz for all band. Switching between these oscillating frequencies is made by biasing the diodes D34 to D36. The off-set frequency signal is obtained at IC10 Oscillator and flows into IC10 Mixer where it is beat with the VCO signal. The VCO signal is obtained from the following:

$$f_{vco} = f_{offset} + N \times f_r$$

Where,  $f_{vco}$  = VCO frequency,  $N$  = programming code for divider output, and  $f_r$  = reference frequency step (10kHz).

ie.: At channel #1 in band A, and band corresponding  $N$  code is 91:

$$f_{vco} = 14.010 + 91 \times 0.01 = 14.920\text{MHz.}$$

Since the mixer output determined by two factors the off-set frequency output (dependent on band selector switch) and the VCO output, the mixer output contains the subtracted frequency of 0.91 to 2.25 MHz. These frequencies appears in pin #2 of IC5, and divided by the programmable divider in IC5 down to 10 kHz which is compared with another 10kHz signal obtained from the reference oscillator TR24 (10.240MHz). The VCO output is mixed with the off-set frequency signal and applied to the TX mixer IC9 through band-pass filters.

ie.: At channel 1 in band A, and AM band, the TX mixer IC9 accepts  $14.920 + 10.695\text{MHz} = 25.615\text{MHz}$  is TX frequency.

When receiving channel 1 in band A (26.065MHz), the 1st RX mixer TR18 accepts 15.370 local signal at its base, and converts down it down to 10.695MHz IF (for AM/FM mode, this is the 1st intermediate frequency). TR18 off-sets the 10.695MHz signal so that TR30 can oscillate at 10.6975MHz for LSB.

# Galaxy Saturn Instruction Manual

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