ALL NEW PAL VFO-PLUS MONITOR-SCANNER Made in U.S.A.

"SOLID AS A ROCK"
WITH
2-6 & 36 TO 1 VERNIER
DUAL TUNING
"NO DRIFT"
"SUPERIOR QUALITY"
Size: 4" High, 5%" Wide,
5%" Deep
Operates both 12 Volts no

(Pos. Neg. Ground)

and 117 AC



This PAL VFO is great for monitoring stations in the USA and tereign countries now on 11 Meters. Will operate on AM or SSB, the

same as your radio's

capabilities.

List

MODEL	FREQUENCY MONITORED	THE ONLY VEO THAT USES A CRYSTAL FOR NO DRIFT STABILITY TUNES VARIABLE 1 KC AT A TIME FROM 27.115 to 27.505 PLUS
Α	11,150	Pearce-Simpson Cheetah & Simba, Courier Gladistor & Centurion
A-1	11,0035	Cobra 138 & Midland 13-893, 13-89¢, 13-895
В	11.850	SBE CB-12 Sidebander II, Sidebander III, Console II, SBE Sidebander 16, Pace 1923, Johnson 382
C	11.855	Pal Coyote 23-AM-SSB, Midland 13-873, 13-880, 13-885, SBE-6CB, SBE-8CB, SBE 14-CB, Cobra 130, 131, 132A
C-1 -	11.955	Pearce-Simpson Panther & Bengal, Courier Spartan
C-2	16.420	Browning Mark II SSB-15, Browning Mark III
C-3	11.890	Pace 1000M, Page 1000B -
D	23.440	Midland 13-868, SBE-7CB Sierrs, Pearce-Simpson Cougar Lafayette Comstat 25 & 25B, Hy-Gain 670-71-72-73-Classic III
E	23.480 7.9266	Lafayette SSB 25, 25A, SSB 50, Midland 13-698, 13-698B, Royce 1-631 or 1-640, Radio Shack TRC-48
, G.	37.750	Pearce-Simpson Lynk 23 ^{to} Courter Classic II Midland 13-864 Pearce-Simpson Bearcat 23 Courter 23 Midland 13-872 SBE 11GB Midland 13-877
H	16.115	Cobra 135B, 132B, LTD Browning, Tram Dia, 60
1	17.115	PAL Roadrunner 23 Mobile or Base - PAL Ridgerunner Mobile

PAL Products warranted for 1 year parts — 6 mo. labor ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT

PAL ELECTRONICS CO. Fire Comm. Corp. PHOENIX: ARIZONA 8501

DISTRIBUTED BY :

CONGRATULATIONS

You have just purchased the new Pal VFO "PLUS" designed to monitor as high as 27.505 plus. By removing one crystal your transceiver will now monitor 25 channels above the CB band. By being crystal controlled for stability and frequency drift, it is the finest VFO made.

Please follow instructions for best performance.

PRELIMINARY PROCEDURE

 Check your transceiver schematic with your dealer to determine the particular type of oscillator circuit used.
 Remove the crystal which operates channels 13 thru 16 or in some cases 13-17-21-23.

VFO INSTALLATION

 If your crystal oscillator uses crystals which are grounded to the chassis, then the special coax cable can be inserted into the crystal holder. Be sure the center of the cable is on the HOT side and the shield on the GROUND side. Make firm connections.

If your crystal oscillator circuit has a floating ground, then the center of cable should be inserted in the HOT side of the crystal holder and the shield connected to the closest chassis ground.

ADJUSTMENT OF VFO VARIABLE OUTPUT CONTROL

- 1. Remove cover from the VFO.
- Set your receiver to any channel showing a strong signal on the front panel meter.
- Reset your receiver to channel 13, now on VFO, and tune the VFO dial to the same channel as in step 2.
- Adjust the variable output control so that the needle swing is the same as in step 2. This is very important to minimize harmonics. The variable output control is a yellow, blue or white thumbwheel located near rearend of circuit board standing out about 3/4 inch on right

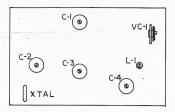
side. Replace cover. NOTE: Many synthesized transceivers move up 10 kc's each

on ch-14 & 15 and 20 kc's on ch-18.

With this VFO installed and it is covering such a high range in frequency, possibly your transceiver should be aligned at the too end of the band, or channel 23. This is to increase

sensitivity across the new range of frequencies received.

Good luck with your new Pal VFO and happy monitoring.



ALIGNMENT INSTRUCTIONS - VFO DIAL

- Adjust VFO dial to channel 13.
- Set coil, L-1, to transceiver channel 13 crystal frequency. Clockwise lowers & counterclockwise raises.
- Readjust VFO dial to channel frequency 27.435. (Dial reads 435) which remains through steps 4. through 8.
- Frequency on counter should read 320 kHz above transceiver crystal frequency.
- 5. If the counter reads low, multiply the difference of step 4. by 9 and add to the counter reading.
- 6. If counter reads high, multiply difference of step
- by 9 and subtract from the counter reading.
 Addust C-1 to read the compensating error frequency
- calculated in step 5. or 6.
- Adjust L-1 to read the correct frequency, 320 kHz above the transceiver crystal frequency.
- Repeat above steps until the VFO dial properly tracks, completing the alignment.
- Adjust C-3 and C-4 for maximum output signal near mid-band dial setting. Typical output is near 4 volts P-P with VC-1 set to max.

* * * NOTE * *

The above alignment is to be done only by qualified and properly equipped dealers and technicians.