

1 Remove front cover. Avoid contact with high voltage points at top of coils and high voltage insulator.

3 Check meter indications of FORWARD REFLECTED PWR on test meter. When compared to TX meter indications values should be within 10%

2 Inspect capacitors for visual signs of lightning damage.

Capacitor values are frequency dependent - see technical instruction manual for NDB or DGPS values.

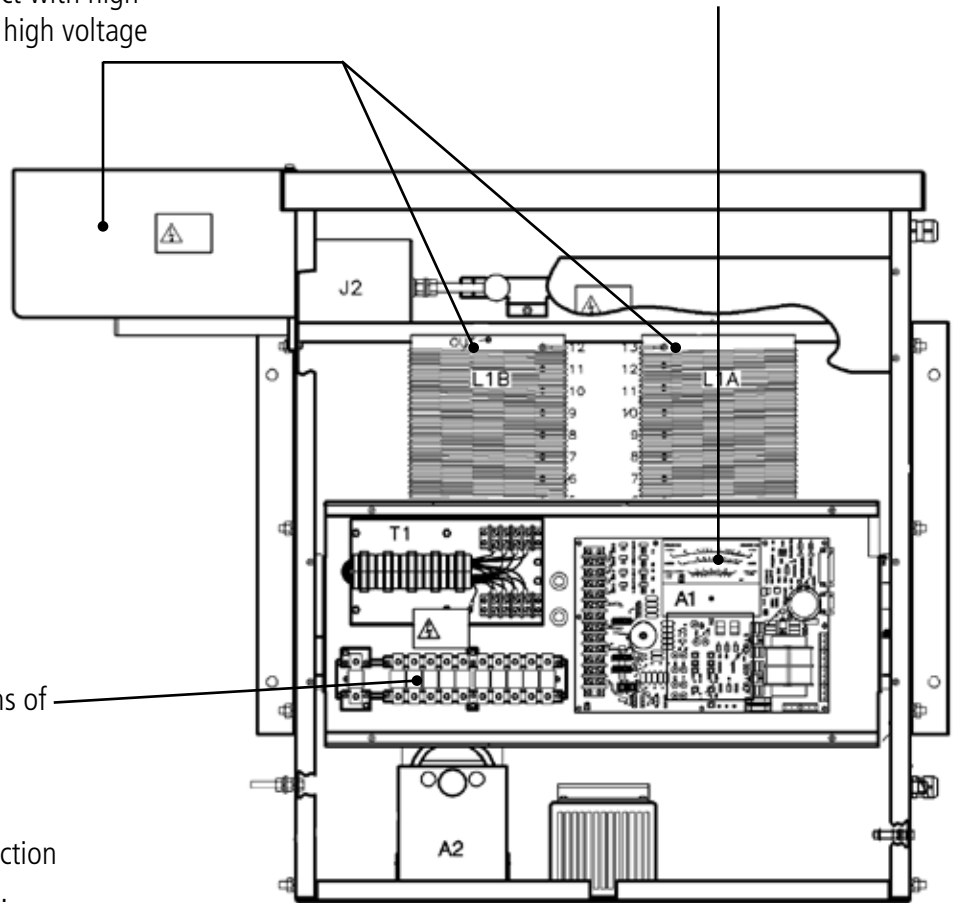


Fig. 1

4 Ensure the TUNE SETUP and INHIBIT LEDs **A** are OFF. Ensure the +5V, +12V-A and +12V-B LEDs **B** are on and the CPU OK LED **C** is flashing.

6 Press INCREASE or DECREASE L TUNING switch, verify auto tune moves coils back to previous location.

If coils do not return to previous position consult tuning procedure in ATU manual or repeat tuning procedure from step 1

5 Select LOCAL control (LED ON) to activate INCREASE and DECREASE switches.

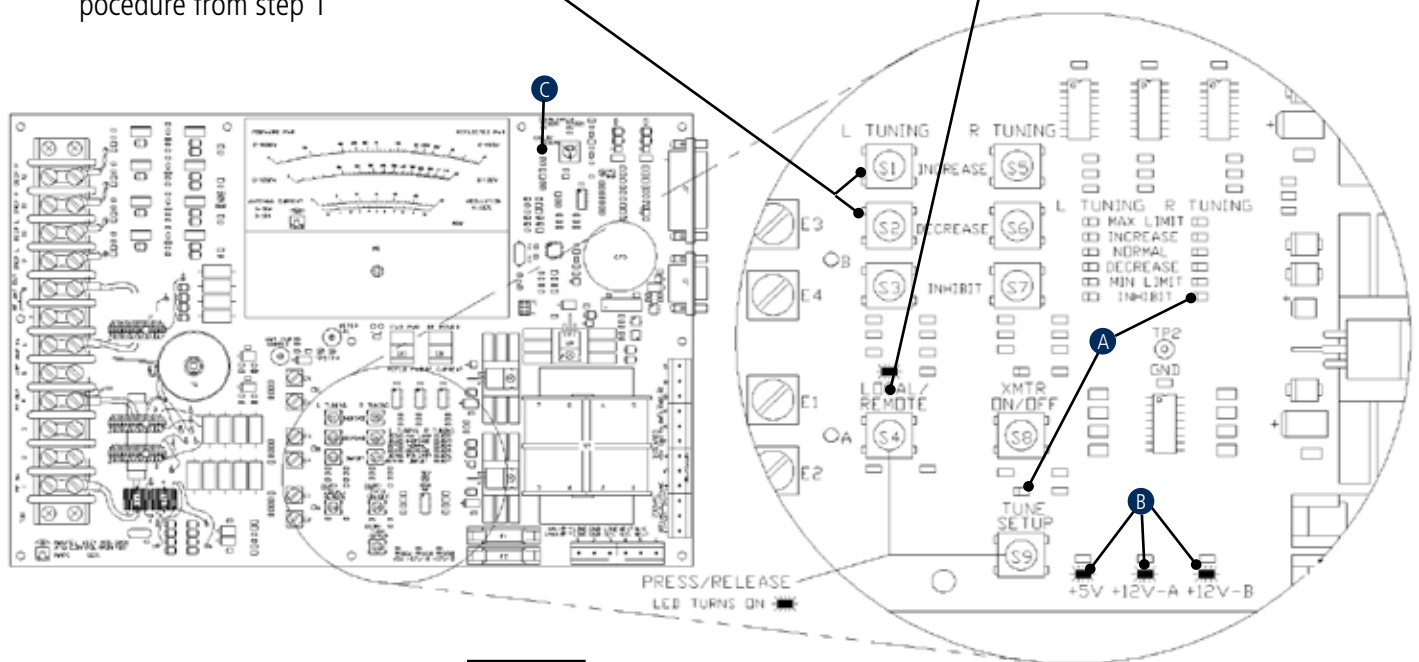


Fig. 2

7 Determine what the TUNING and LIMIT LEDs indicate for both the L and R tuning. L and R TUNING MAX and MIN LIMIT LEDs should turn ON only at extremes of travel (see figure 4 & 5). Otherwise limit sensor may be defective.

Note: L tune error may also cause R tune error so check L tune first.

Note: If necessary switch OFF transmitter and change coil taps to increase or decrease the inductance as described in the Technical Instruction Manual.

8 If L coils are at limit, turn TX off and adjust coil taps as per ATU manual

Vane interrupts a light beam at limits of travel.

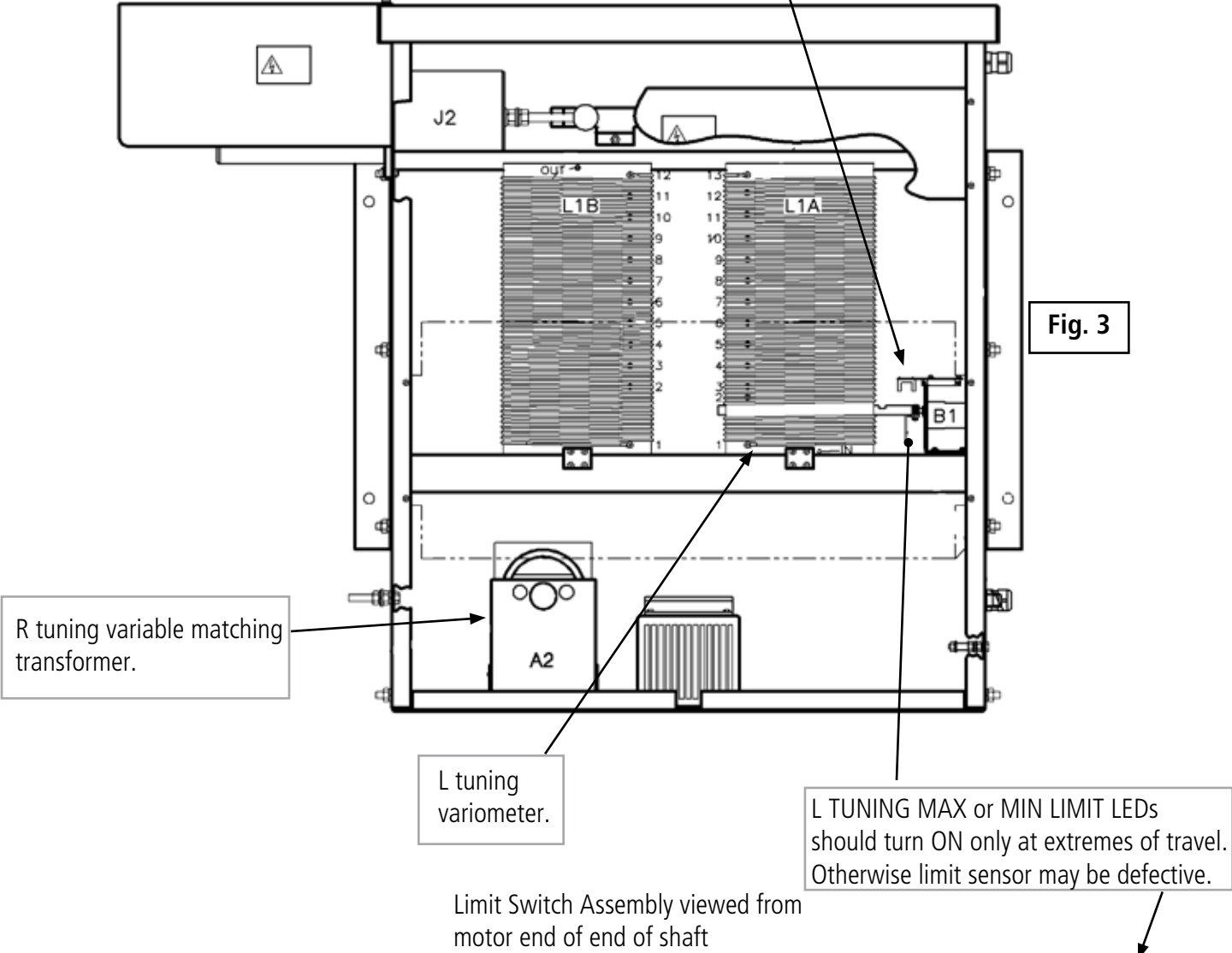


Fig. 3

L TUNING MAX or MIN LIMIT LEDs should turn ON only at extremes of travel. Otherwise limit sensor may be defective.

Limit Switch Assembly viewed from motor end of end of shaft

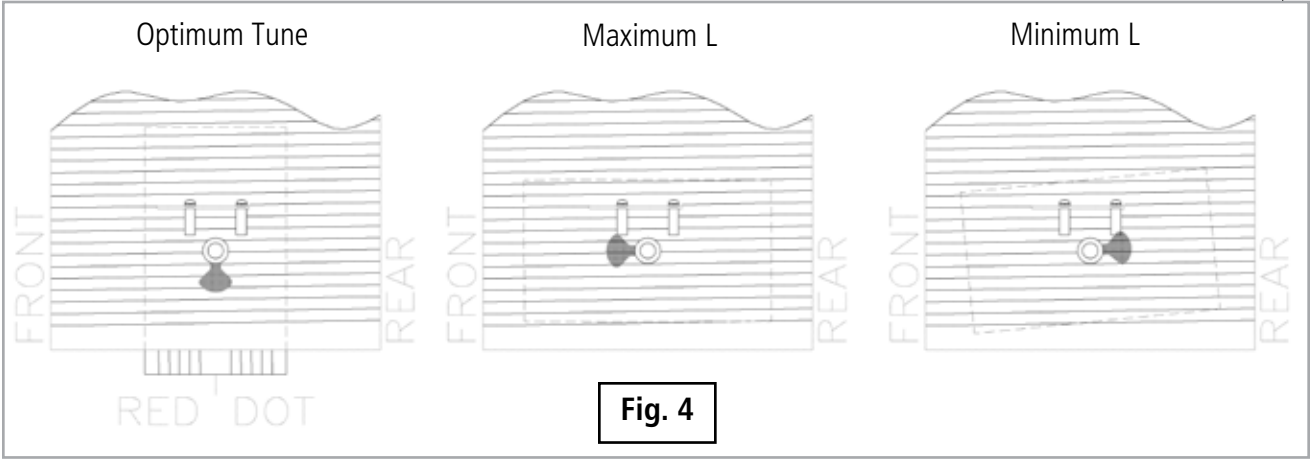


Fig. 4

Do not proceed to optimize the R tuning until the L TUNING NORMAL LED is ON.

9 R tuning procedure - use the R TUNING LEDs and the REFLECTED PWR indication of test meter M1 as a guide.

10 In Local Control press R TUNING INCREASE or DECREASE switch to minimise REFLECTED PWR on test meter.

Moving coil goes in to INCREASE the ATU's input resistance.

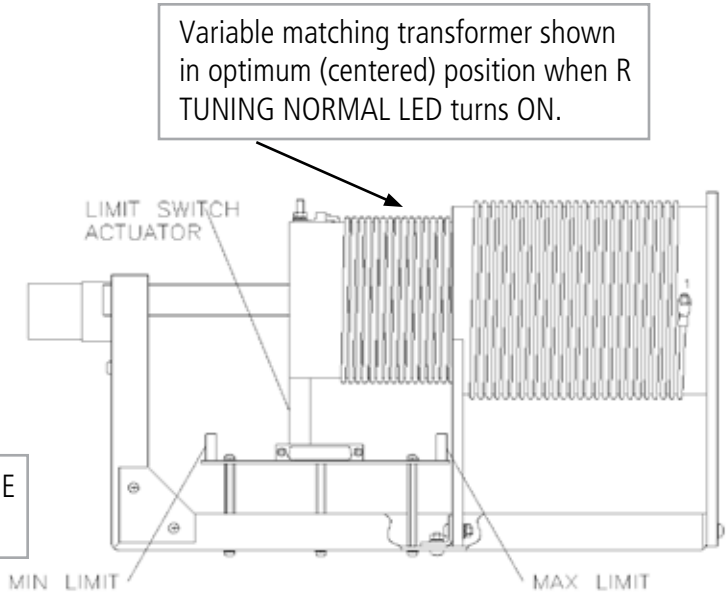


Fig. 5

11 The input and output taps on transformer T1 controls the final "tuned" position of the variable matching transformer. If necessary change the input (green) and output (red) tap positions to center its tuned position between the MAX and MIN limits. Choose a higher resistance position to move toward the MIN limit.

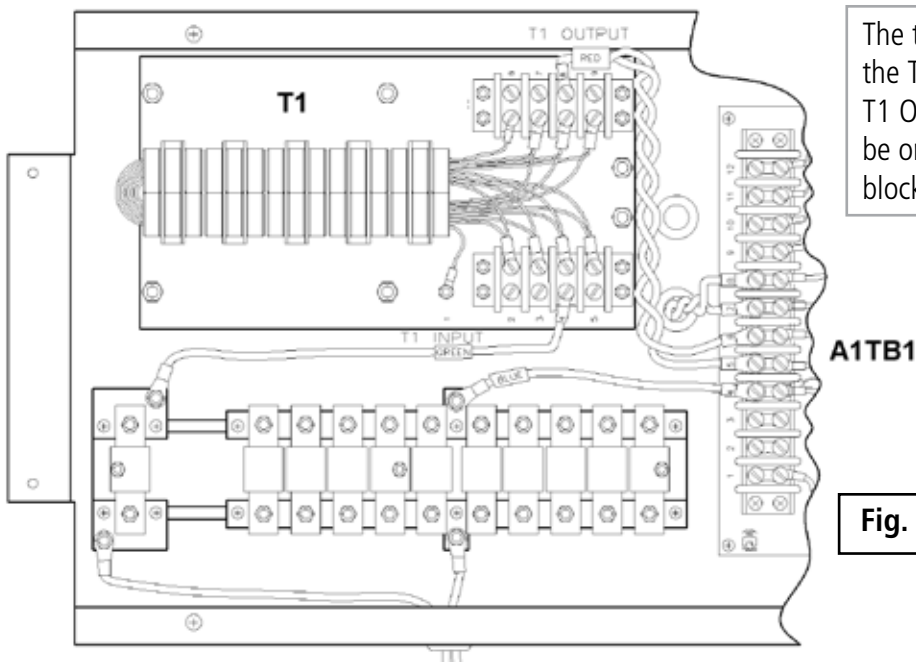


Fig. 6

T1 Connections	Antenna System Resistance (Ω)																	
	2	3	4	5.6	7	8	9	12.5	16	18	20	22	25	28	32	35	37	39
In (Green wire)	3	6	5	4	6	3	5	6	5	3	6	4	5	6	3	4	5	6
Out (Red wire)	7	8	8	8	9	8	9	2	2	9	3	2	3	4	2	3	4	5

12 Ensure that the ATU is left in the REMOTE Control position (LOCAL/REMOTE LED OFF) on completion of this adjustment process.