The DC resistance for a single Rhodes pickup is $\approx 180\Omega$

The pickups are wired in a series – parallel arrangement that includes parallel groups of various numbers.

PARALLEL RESISTANCE:

1/(1/R1+1/R2+1/R3....)

DC resistance of Rhodes pickups in parallel:

2 Pickups $\cong 90\Omega$ 3 Pickups $\cong 60\Omega$ 4 Pickups $\cong 45\Omega$

You can measure the DC resistance of a group to determine if there are any open or shorted pickups within it.

OPEN PICKUP MEASUREMENTS:

Parallel group of 2 pickups with 1 open will read $\approx 180\Omega$

Parallel group of 3 pickups with 1 open will read $\cong 90\Omega$ 2 open will read $\cong 180\Omega$

Parallel group of 4 pickups with 1 open will read $\cong 60\Omega$ 2 open will read $\cong 90\Omega$ 3 open will read $\cong 180\Omega$

If all the pickups in a parallel group are open, the measurement will read infinite resistance or over-limit.

If any of the pickups in a parallel group are shorted, the measurement will read 0Ω , or a short-circuit.

TROUBLESHOOTING:

If the measurement of a parallel group reveals a fault, the pickups in that parallel group can then be isolated from one another and measured individually to find the bad pickup(s).