

Detailed diode description IC-9100

This is a short description about the diode matrix of the IC-9100

Diode	Description
D1501	needs to be installed for 6m band RX/TX
D1502	needs to be removed for 30MHz-50MHz RX/TX
D1503	always needs to be installed to make an expansion possible
D1504	needs to be removed for HF RX coverage
D1505	needs to be removed for VHF/UHF/SHF RX coverage
D1506	
D1507	
D1508	needs to be removed for genral extended HF TX coverage (1.6MHz-30MHz and 50MHz-54MHz)
D1509	needs to be removed to cover 108MHz-136MHz
D1510	needs to be removed to cover 136MHz-174MHz
D1511	needs to be removed to cover 420MHz-480MHz
D1512	needs to be removed to cover 1240MHz-1320MHz
D1513	
D1514	
D1515	needs to be removed for 5MHz band operation
D1516	needs to be removed for 7.0MHz-7.2MHz TX coverage
D1517	needs to be removed for 7.0MHz-7.3MHz TX coverage
D1518	
D1519	
D1520	
D1521	
D1522	
D1523	needs to be installed for 1750Hz repeater tone
D1524	empty
D1525	
D1526	empty
D1527	
D1528	
D1529	needs to be installed to enable crossband-repeater
D1530	
D1531	
D1532	

Diodenmatrix IC-9100

Concerning the frequency expansion here some latest news:

It seems that the "*" symbols in the schematic don't say anything.

I succeeded in doing the frequency expansion as well as the possibility to make D-Star on all shortwave bands and to enable the crossband-repeater function.

The solution is to remove all diodes besides D1501, D1503, D1523 (this one is for the 1750Hz repeater tone) and D1529 (this one is for crossband).

