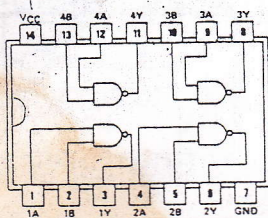
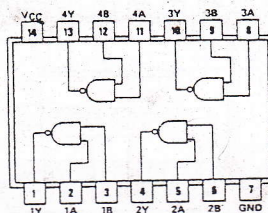


# TTL Logic Diagrams

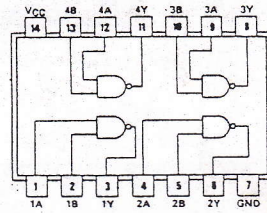
Diag. 1 Fig. D6  
ECG7400, ECG74C00, ECG74H00,  
ECG74LS00, ECG74S00



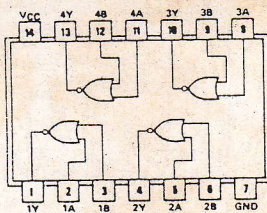
Diag. 2 Fig. D6  
ECG7401, ECG74LS01



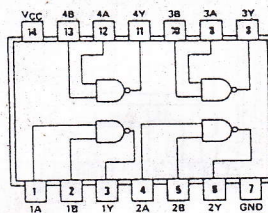
Diag. 3 Fig. D6  
ECG74H01



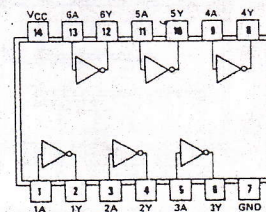
Diag. 4 Fig. D6  
ECG7402, ECG74C02, ECG74LS02,  
ECG74S02



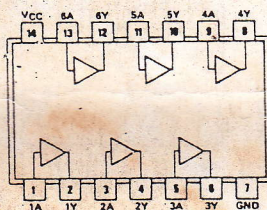
Diag. 5 Fig. D6  
ECG7403, ECG74LS03, ECG74S03



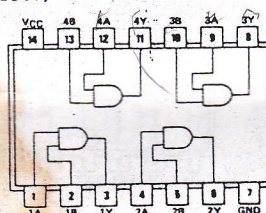
Diag. 6 Fig. D6  
ECG7404, ECG74C04, ECG74H04,  
ECG74LS04, ECG74S04, ECG7405,  
ECG74H05, ECG74LS05, ECG74S05,  
ECG7406



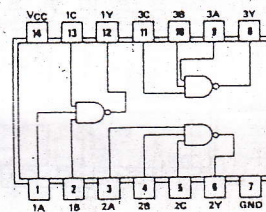
Diag. 7 Fig. D6  
ECG7407



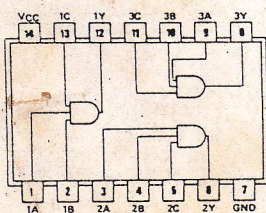
Diag. 8 Fig. D6  
ECG7408, ECG74C08, ECG74H08,  
ECG74LS08, ECG74S08, ECG7409,  
ECG74LS09, ECG74S09



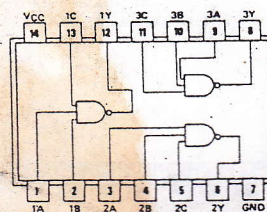
Diag. 9 Fig. D6  
ECG7410, ECG74C10, ECG74H10,  
ECG74LS10, ECG74S10



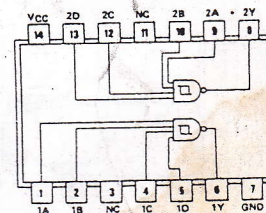
Diag. 10 Fig. D6  
ECG7411, ECG74H11, ECG74LS11,  
ECG74S11



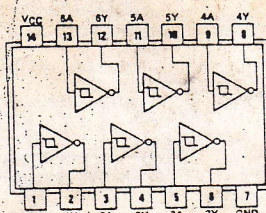
Diag. 11 Fig. D6  
ECG7412, ECG74LS12



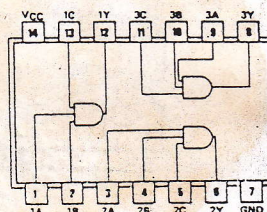
Diag. 12 Fig. D6  
ECG7413, ECG74LS13



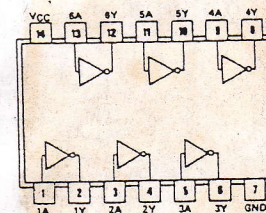
Diag. 13 Fig. D6  
ECG7414, ECG74C14, ECG74LS14



Diag. 14 Fig. D6  
ECG74LS15, ECG74S15



Diag. 15 Fig. D6  
ECG7416





# TTL Logic Diagrams (cont'd)

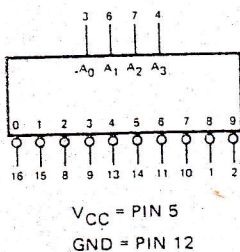
<p>Diag. 16 ECG7417</p>	<p>Diag. 17 ECG7420, ECG74C20, ECG74H20, ECG74LS20, ECG74S20</p>	<p>Diag. 18 ECG7421, ECG74H21, ECG74LS21</p>
<p>Diag. 19 ECG7422, ECG74H22, ECG74LS22, ECG74S22</p>	<p>Diag. 20 ECG7423</p>	<p>Diag. 21 ECG7425</p>
<p>Diag. 22 ECG7426, ECG74LS26</p>	<p>Diag. 23 ECG7427, ECG74LS27</p>	<p>Diag. 24 ECG7428</p>
<p>Diag. 25 ECG7430, ECG74C30, ECG74H30, ECG74LS30, ECG74S30</p>	<p>Diag. 26 ECG7432, ECG74C32, ECG74LS32</p>	<p>Diag. 27 ECG7433</p>
<p>Diag. 28 ECG7437, ECG74LS37, ECG7438, ECG74LS38</p>	<p>Diag. 29 ECG7439</p>	<p>Diag. 30 ECG7440, ECG74H40, ECG74LS40, ECG74S40</p>



# TTL Logic Diagrams (cont'd)

Diag. 31  
ECG7441

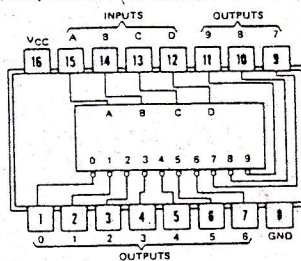
Fig. D8



Diag. 32

Fig. D8

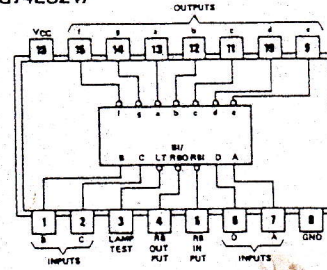
ECG7442, ECG74C42, ECG74LS42,  
ECG7443, ECG7444, ECG7445



Diag. 33

Fig. D8

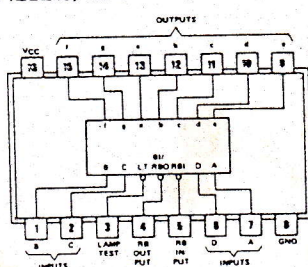
ECG7446, ECG7447, ECG74LS47  
ECG74LS247



Diag. 34

Fig. D8

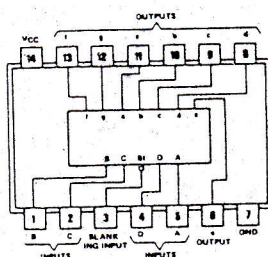
ECG7448, ECG74C48, ECG74LS48,  
ECG74LS248, ECG74249, ECG74LS249



Diag. 35

Fig. D6

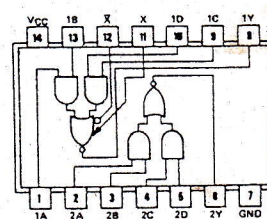
ECG74LS49



Diag. 36

Fig. D6

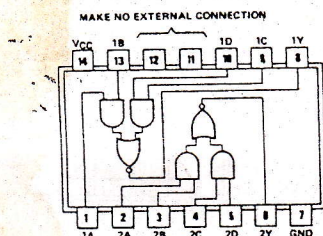
ECG7450, ECG74H50



Diag. 37

Fig. D6

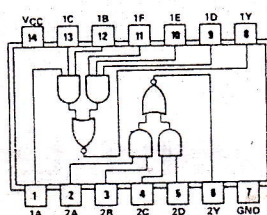
ECG7451, ECG74H51



Diag. 38

Fig. D6

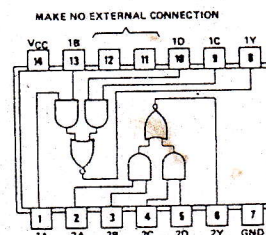
ECG74LS51



Diag. 39

Fig. D6

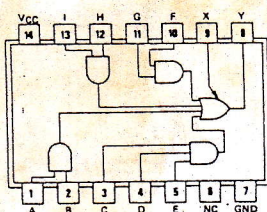
ECG74S51



Diag. 40

Fig. D6

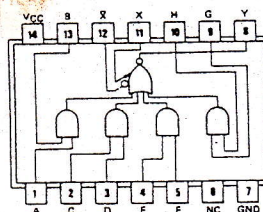
ECG74H52



Diag. 41

Fig. D6

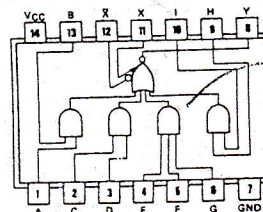
ECG7453



Diag. 42

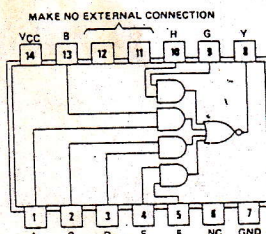
Fig. D6

ECG74H53



Diag. 43  
ECG7454

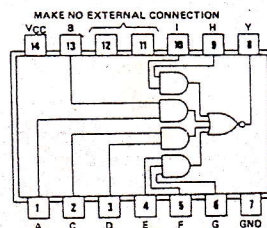
Fig. D6



Diag. 44

Fig. D6

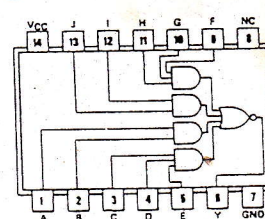
ECG74H54



Diag. 45

Fig. D6

ECG74LS54

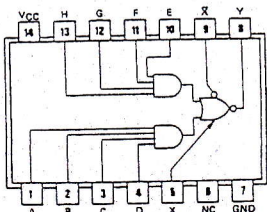




# TTL Logic Diagrams (cont'd)

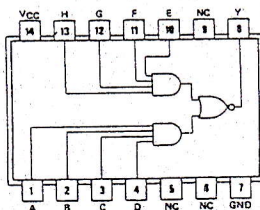
Diag. 46  
ECG74H55

Fig. D6



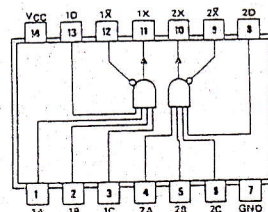
Diag. 47  
ECG74LS55

Fig. D6



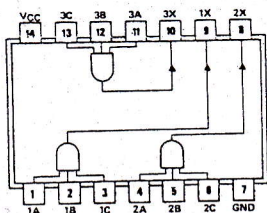
Diag. 48  
ECG74H60, ECG74H60

Fig. D6



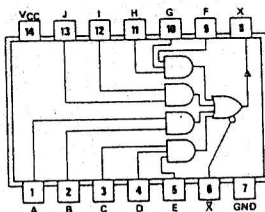
Diag. 49  
ECG74H61

Fig. D6



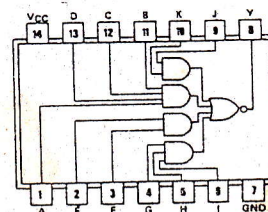
Diag. 50  
ECG74H62

Fig. D6



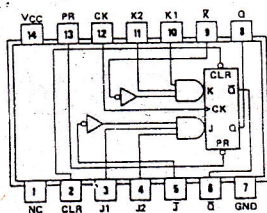
Diag. 51  
ECG74S64, ECG74S65

Fig. D6



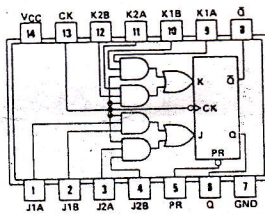
Diag. 52  
ECG7470

Fig. D6



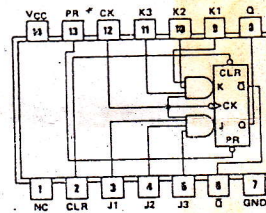
Diag. 53  
ECG74H71

Fig. D6



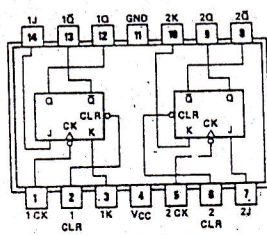
Diag. 54  
ECG7472, ECG74H72

Fig. D6



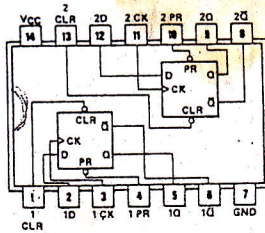
Diag. 55  
ECG7473, ECG74C73, ECG74H73,  
ECG74LS73

Fig. D6



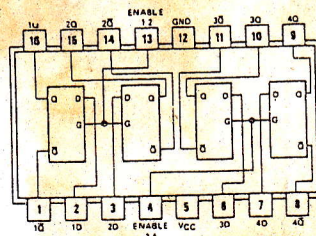
Diag. 56  
ECG7474, ECG74C74, ECG74H74,  
ECG74LS74A, ECG74S74

Fig. D6



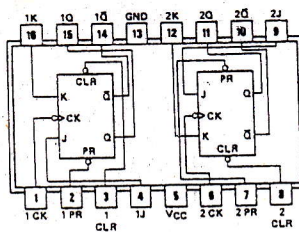
Diag. 57  
ECG7475, ECG74LS75

Fig. D8



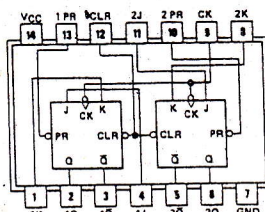
Diag. 58  
ECG7476, ECG74C76, ECG74H76,  
ECG74LS76A

Fig. D8



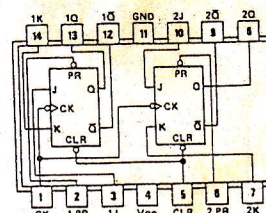
Diag. 59  
ECG74H78

Fig. D6



Diag. 60  
ECG74LS78

Fig. D6

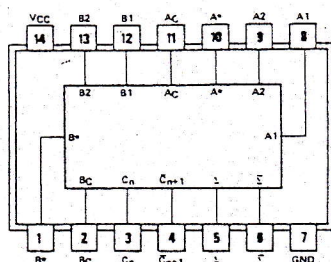




# TL Logic Diagrams (cont'd)

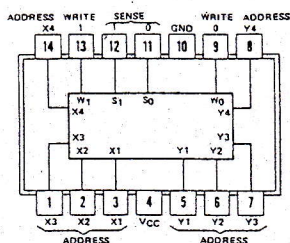
Diag. 61  
ECG7480

Fig. D6



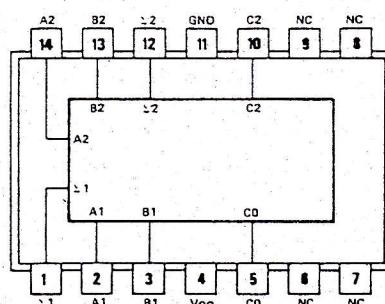
Diag. 62  
ECG7481

Fig. D6



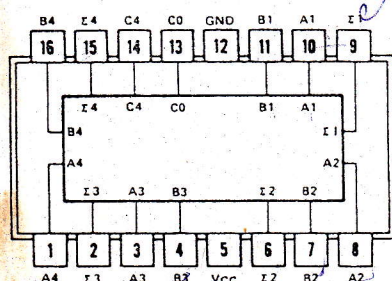
Diag. 63  
ECG7482

Fig. D6



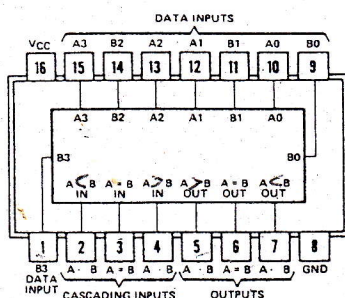
Diag. 64  
ECG7483, ECG74LS83A

Fig. D8



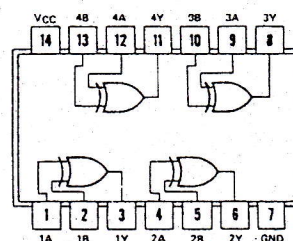
Diag. 65  
ECG7485, ECG74C85, ECG74LS85

Fig. D8



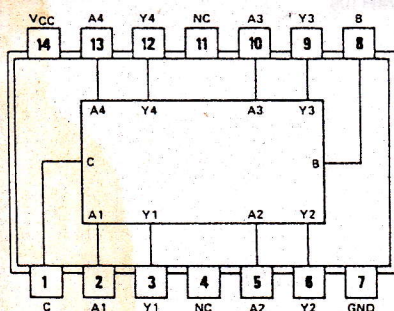
Diag. 66  
ECG7486, ECG74H86, ECG74LS86, ECG74S86

Fig. D6



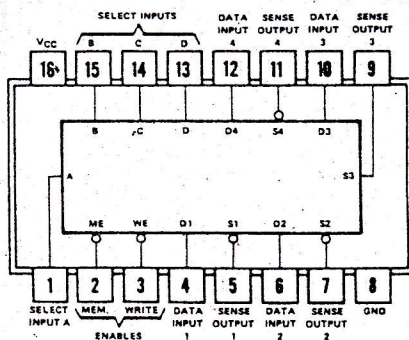
Diag. 67  
ECG74H87

Fig. D6



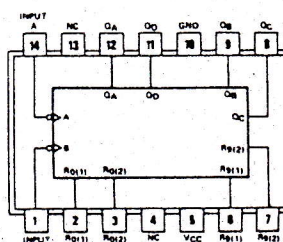
Diag. 68  
ECG7489

Fig. D8



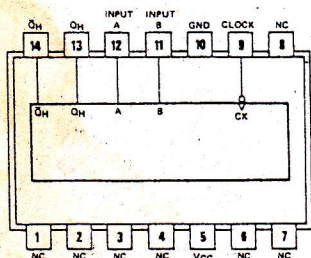
Diag. 69  
ECG7490, ECG74C90, ECG74LS90

Fig. D6



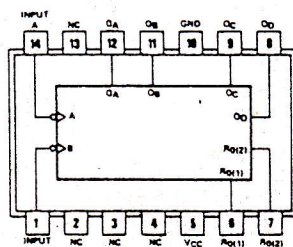
Diag. 70  
ECG7491

Fig. D6



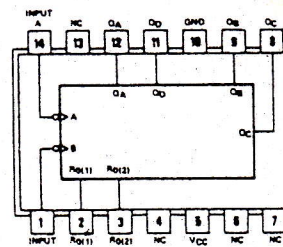
Diag. 71  
ECG7492, ECG74LS92

Fig. D6



Diag. 72  
ECG7493A, ECG74C93, ECG74LS93

Fig. D6

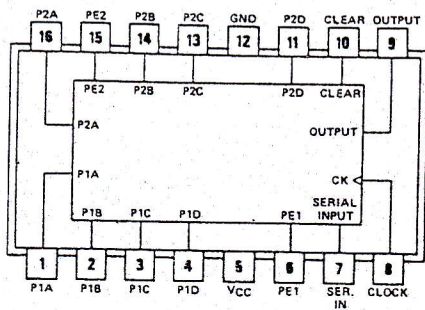




## TTL Logic Diagrams (cont'd)

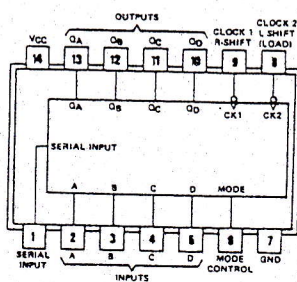
Diag. 73  
ECG7494

Fig. D8



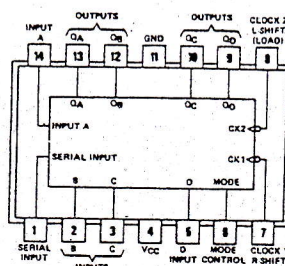
Diag. 74  
ECG7495

Fig. D6



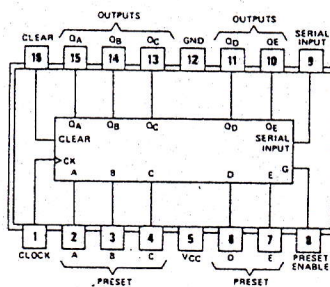
Diag. 75  
ECG74C95

Fig. D6



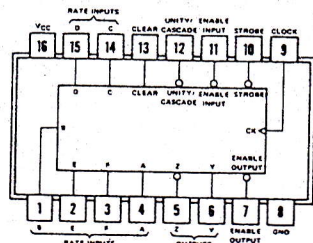
Diag. 76  
ECG7496

Fig. D8



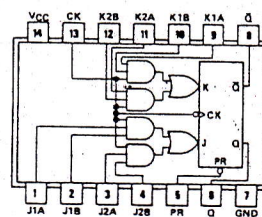
Diag. 77  
ECG7497

Fig. D8



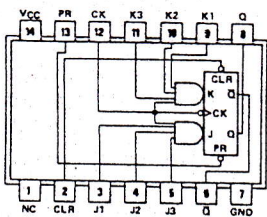
Diag. 78  
ECG74H101

Fig. D6



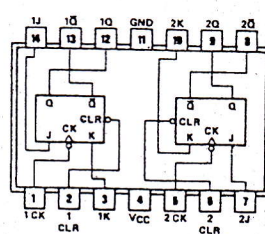
Diag. 79  
ECG74H102

Fig. D6



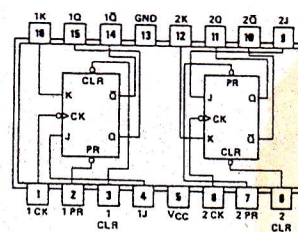
Diag. 80  
ECG74H103

Fig. D6



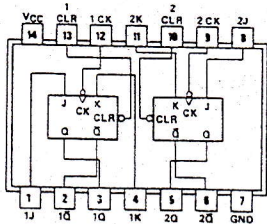
Diag. 81  
ECG74H106

Fig. D8



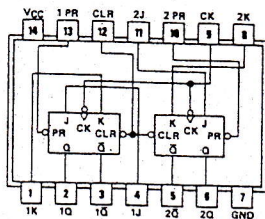
Diag. 82 Fi  
ECG74107, ECG74C107, ECG74LS107

Fig. D6



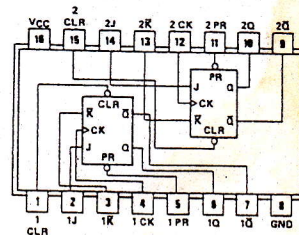
Diag. 83  
ECG74H108

Fig. D6



Diag. 84  
ECG74109, ECG74LS109A

Fig. D8

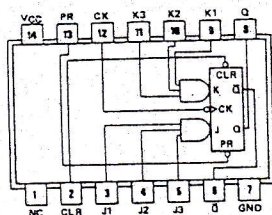




# TTL Logic Diagrams (cont'd)

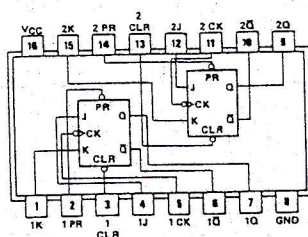
Diag. 85  
ECG74110

Fig. D6



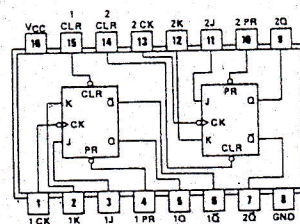
Diag. 86  
ECG74111

Fig. D8



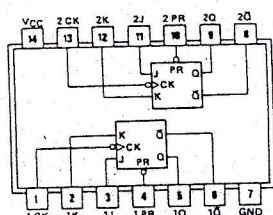
Diag. 87  
ECG74LS112A, ECG74S112

Fig. D8



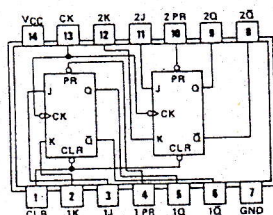
Diag. 88  
ECG74LS113, ECG74S113

Fig. D6



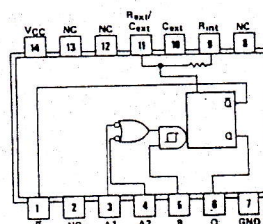
Diag. 89  
ECG74LS114, ECG74S114

Fig. D6



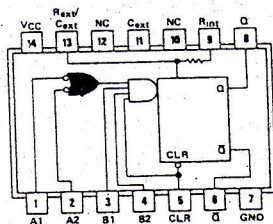
Diag. 90  
ECG74121

Fig. D6



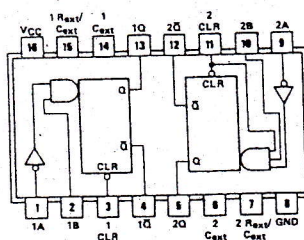
Diag. 91  
ECG74122

Fig. D6



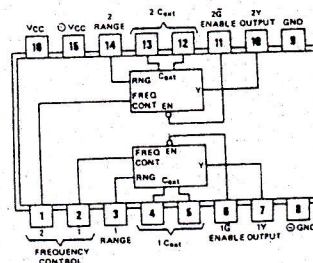
Diag. 92  
ECG74123, ECG74LS123

Fig. D8



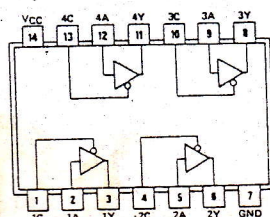
Diag. 93  
ECG74S124, ECG74LS629

Fig. D8



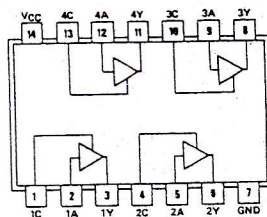
Diag. 94  
ECG74125, ECG74LS125A

Fig. D6



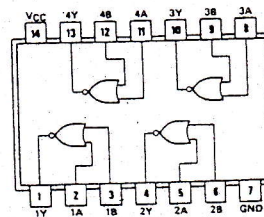
Diag. 95  
ECG74126, ECG74LS126

Fig. D6



Diag. 96  
ECG74128

Fig. D6

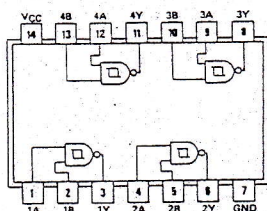




# TTL Logic Diagrams (cont'd)

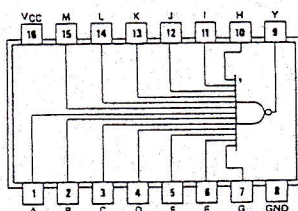
Diag. 97  
ECG74132, ECG74LS132

Fig. D6



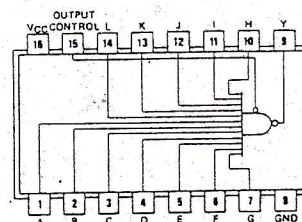
Diag. 98  
ECG74S133

Fig. D8



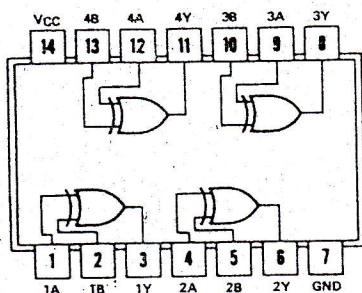
Diag. 99  
ECG74S134

Fig. D8



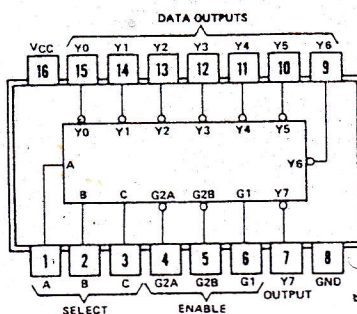
Diag. 100  
ECG74136, ECG74LS136

Fig. D6



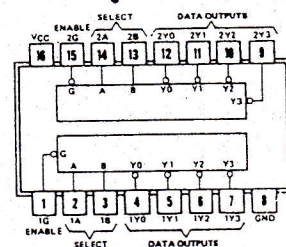
Diag. 101  
ECG74LS138, ECG74S138

Fig. D8



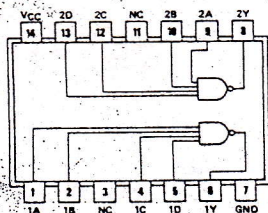
Diag. 102  
ECG74LS139

Fig. D8



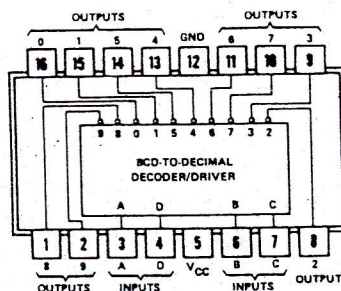
Diag. 103  
ECG74S140

Fig. D6



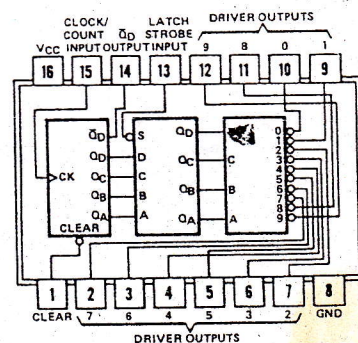
Diag. 104  
ECG74141

Fig. D8



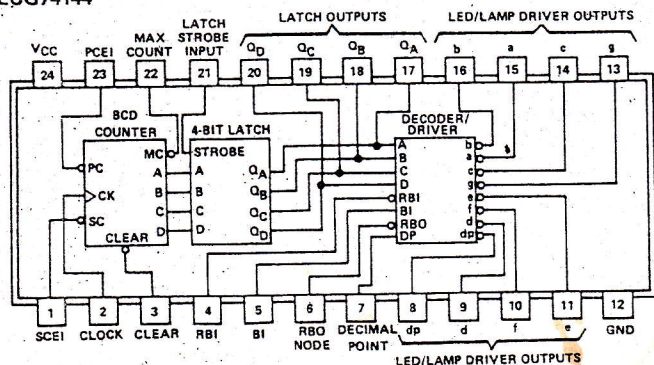
Diag. 105  
ECG74142

Fig. D8



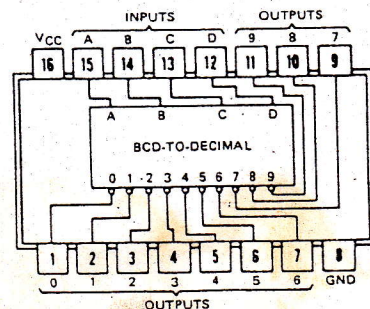
Diag. 106  
ECG74143, ECG74144

Fig. D15



Diag. 107  
ECG74145

Fig. D8



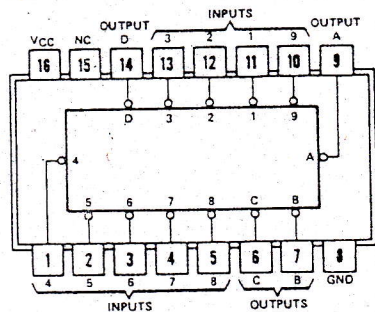


# TTL Logic Diagrams (cont'd)

Diag. 108

Fig. D8

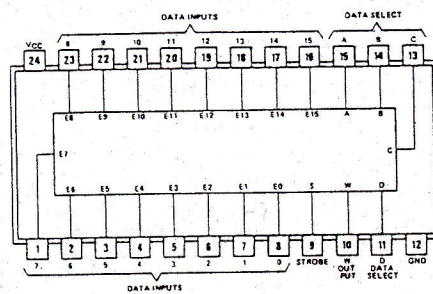
ECG74147, ECG74LS147



Diag. 109

Fig. D15

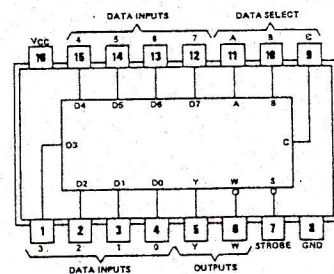
ECG74150



Diag. 110

Fig. D8

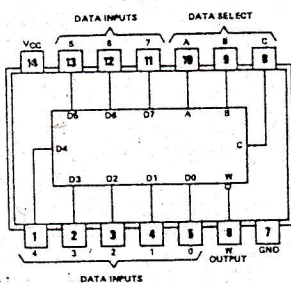
ECG74151, ECG74C151, ECG74LS151, ECG74S151



Diag. 111

Fig. D6

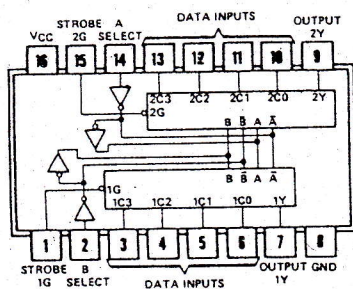
ECG74152



Diag. 112

Fig. D8

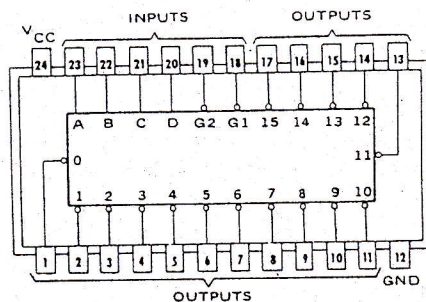
ECG74153, ECG74LS153, ECG74S153



Diag. 113

Fig. D15

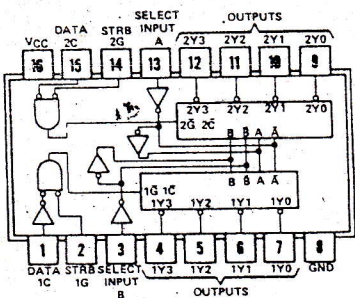
ECG74154, ECG74C154



Diag. 114

Fig. D8

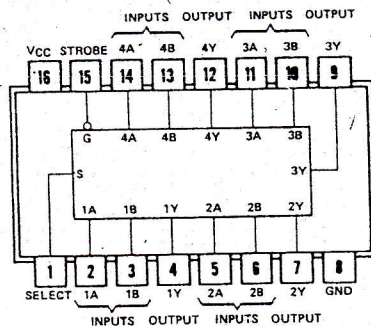
ECG74155, ECG74LS155, ECG74156, ECG74LS156



Diag. 115

Fig. D8

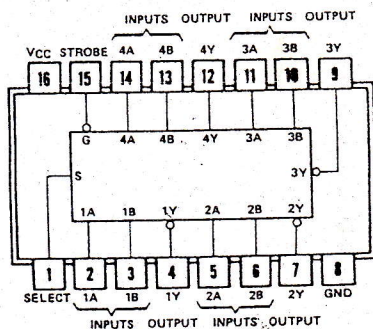
ECG74157, ECG74C157, ECG74LS157, ECG74S157



Diag. 116

Fig. D8

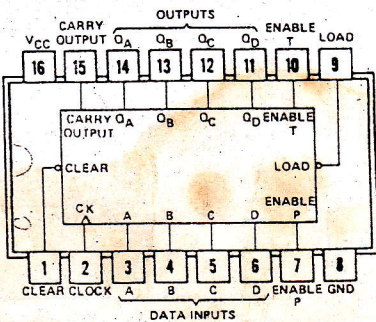
ECG74158, ECG74LS158, ECG74S158



Diag. 117

Fig. D8

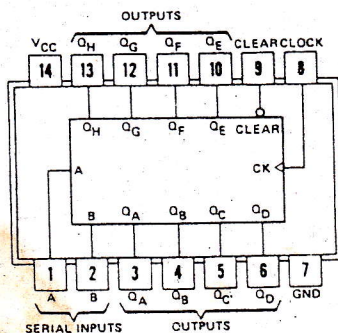
ECG74160, ECG74LS160A, ECG74161, ECG74C161, ECG74LS161A, ECG74162, ECG74LS162A, ECG74163, ECG74LS163A



Diag. 118

Fig. D6

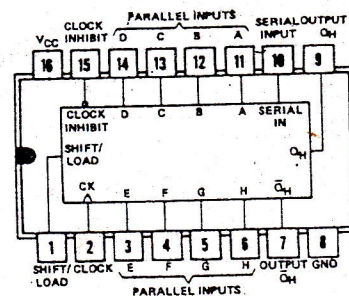
ECG74164, ECG74C164, ECG74LS164



Diag. 119

Fig. D8

ECG74165

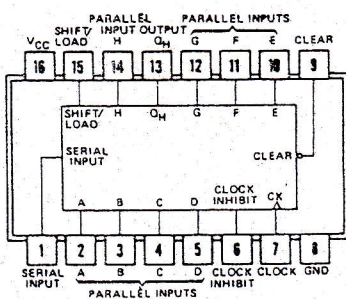




# TTL Logic Diagrams (cont'd)

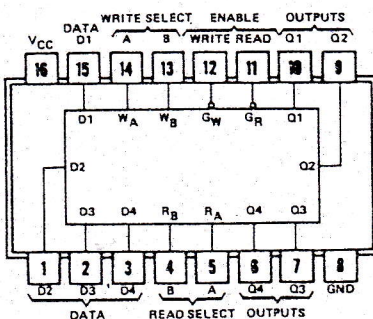
Diag. 120  
ECG74166

Fig. D8



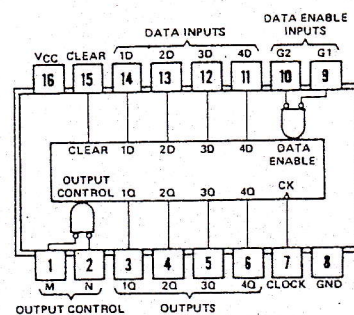
Diag. 121  
ECG74170, ECG74LS170

Fig. D8



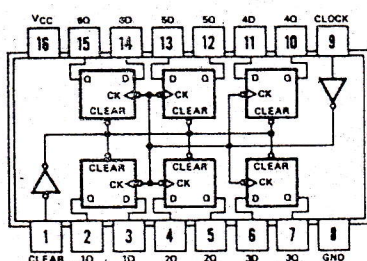
Diag. 122  
ECG74173, ECG74C173, ECG74LS173

Fig. D8



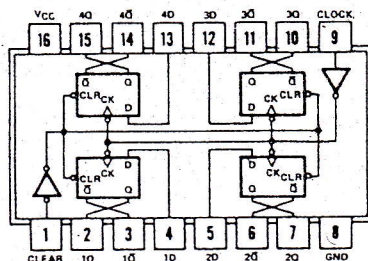
Diag. 123  
ECG74174, ECG74C174, ECG74LS174,  
ECG74S174

Fig. D8



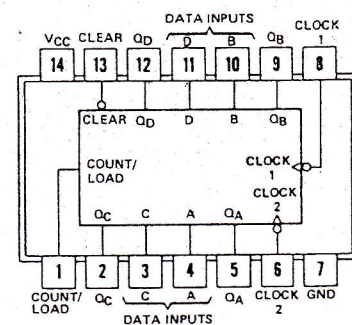
Diag. 124  
ECG74175, ECG74C175, ECG74LS175,  
ECG74S175

Fig. D8



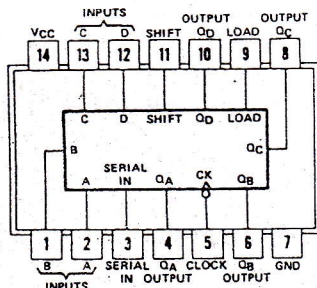
Diag. 125  
ECG74176, ECG74177

Fig. D6



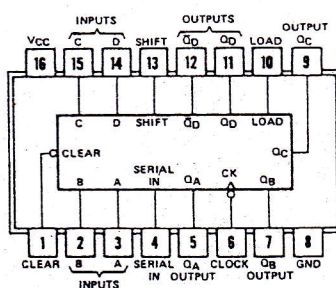
Diag. 126  
ECG74178

Fig. D6



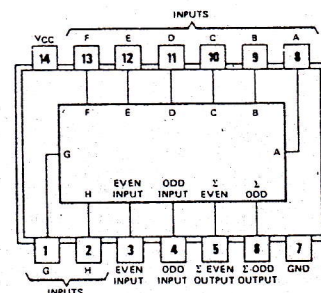
Diag. 127  
ECG74179

Fig. D8



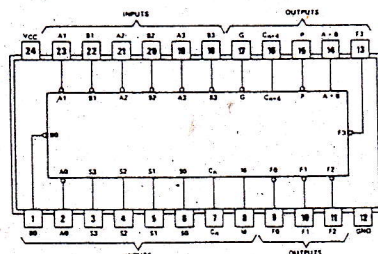
Diag. 128  
ECG74180

Fig. D6



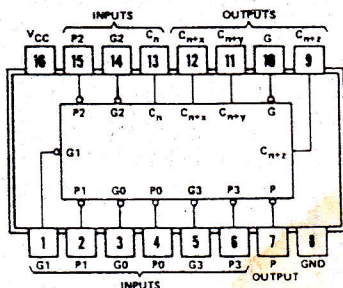
Diag. 129  
ECG74181, ECG74S181

Fig. D15



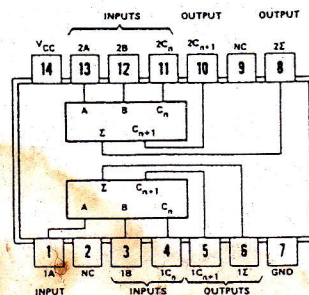
Diag. 130  
ECG74182

Fig. D8



Diag. 131  
ECG74H183

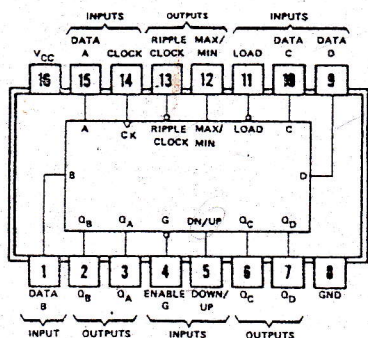
Fig. D6



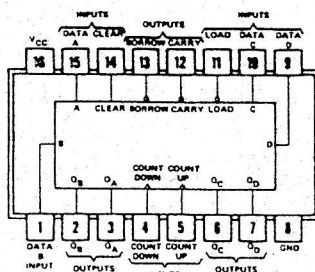


# TTL Logic Diagrams (cont'd)

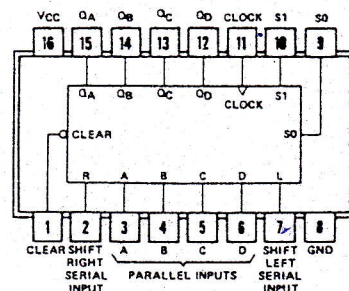
Diag. 132 Fig. D8  
ECG74190, ECG74LS190, ECG74191,  
ECG74LS191



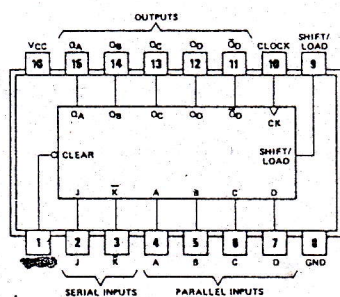
Diag. 133 Fig. D8  
ECG74192, ECG74C192, ECG74LS192,  
ECG74193, ECG74C193, ECG74LS193



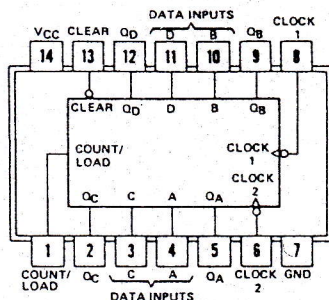
Diag. 134 Fig. D8  
ECG74S194



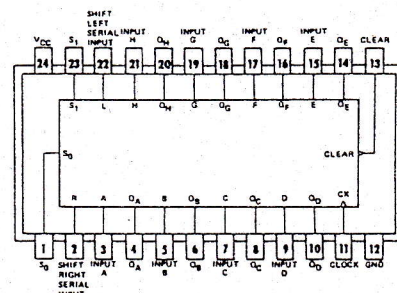
Diag. 135 Fig. D8  
ECG74195, ECG74LS195A



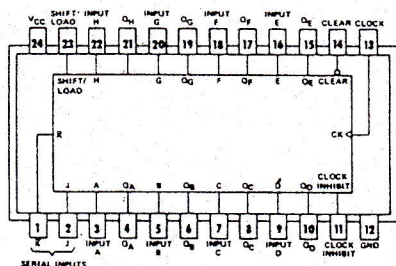
Diag. 136 Fig. D6  
ECG74196, ECG74LS196, ECG74197,  
ECG74LS197



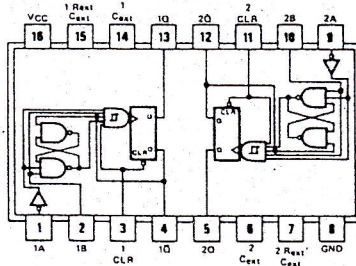
Diag. 137 Fig. D15  
ECG74198



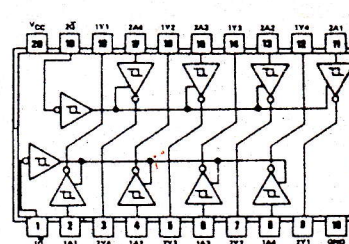
Diag. 138 Fig. D15  
ECG74199



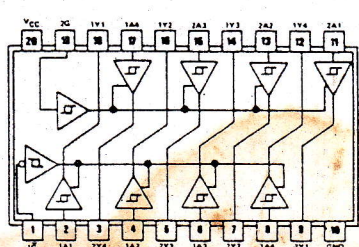
Diag. 139 Fig. D8  
ECG74221, ECG74C221, ECG74LS221



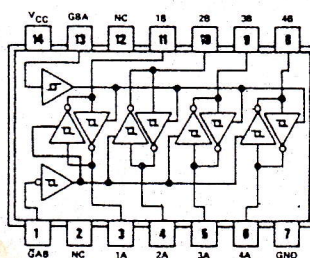
Diag. 140 Fig. D12  
ECG74C240, ECG74LS240



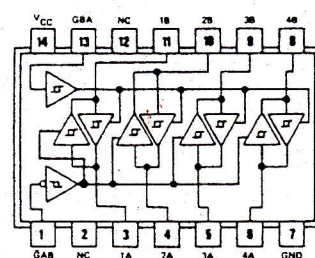
Diag. 141 Fig. D12  
ECG74LS241



Diag. 142 Fig. D6  
ECG74LS242



Diag. 143 Fig. D6  
ECG74LS243

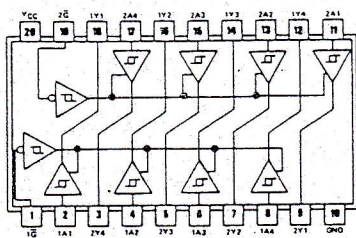




# TTL Logic Diagrams (cont'd)

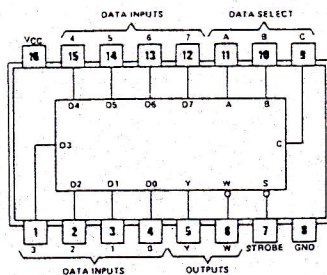
Diag. 144  
ECG74C244, ECG74LS244

Fig. D12



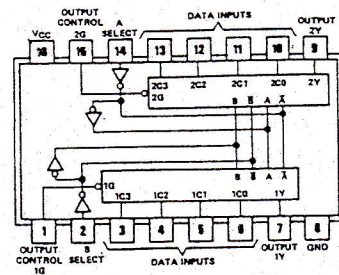
Diag. 145  
ECG74251, ECG74LS251, ECG74S251

Fig. D8



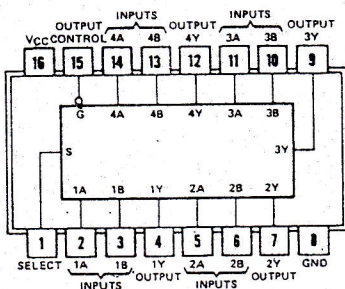
Diag. 146  
ECG74LS253

Fig. D8



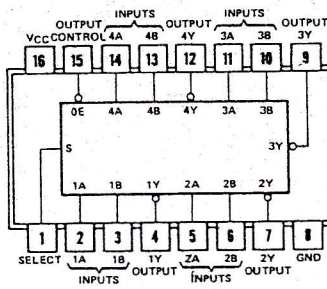
Diag. 147  
ECG74LS257

Fig. D8



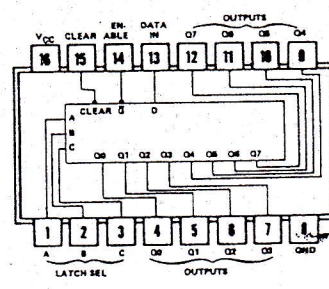
Diag. 148  
ECG74LS258, ECG74S258

Fig. D8



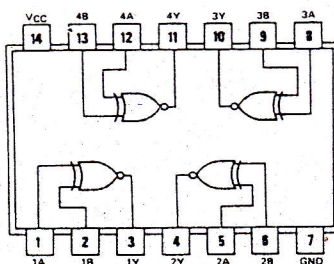
Diag. 149  
ECG74LS259

Fig. D8



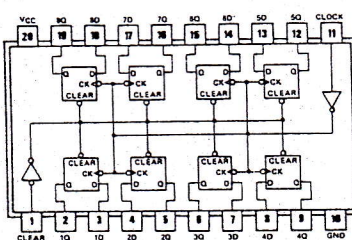
Diag. 150  
ECG74LS266

Fig. D6



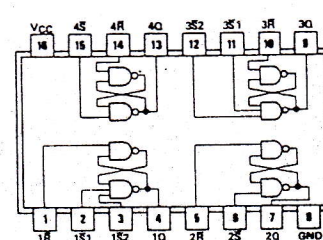
Diag. 151  
ECG74LS273

Fig. D12



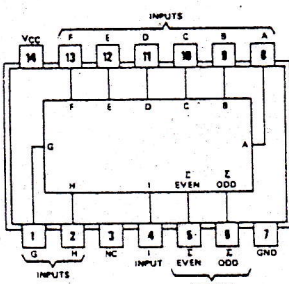
Diag. 152  
ECG74LS279

Fig. D8



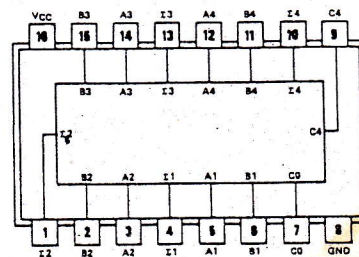
Diag. 153  
ECG74LS280

Fig. D6



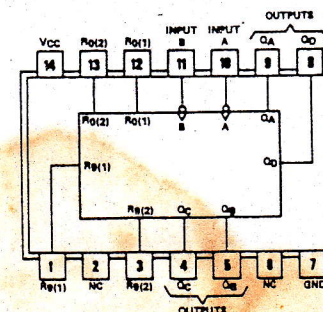
Diag. 154  
ECG74LS283

Fig. D8



Diag. 155  
ECG74290, ECG74LS290

Fig. D6



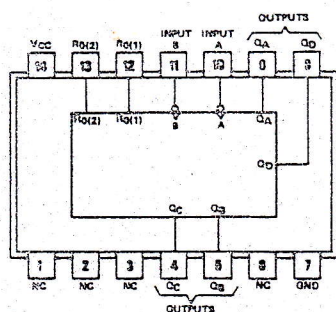


# TTL Logic Diagrams (cont'd)

Diag. 156

Fig. D6

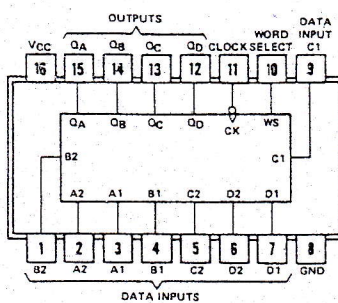
ECG74LS293, ECG74LS293



Diag. 157

Fig. D8

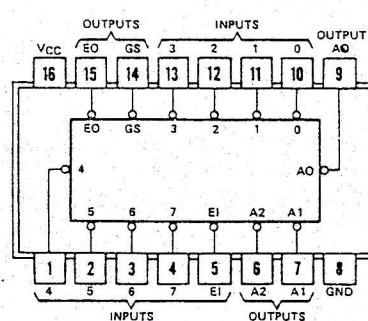
ECG74LS298



Diag. 158

Fig. D8

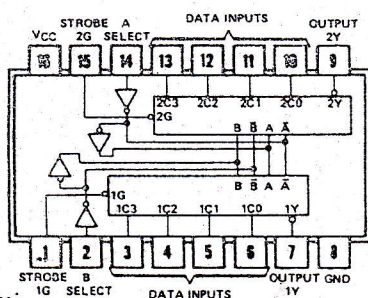
ECG74LS348



Diag. 159

Fig. D8

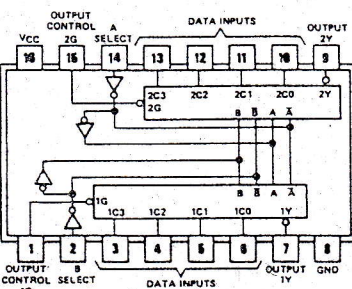
ECG74LS352



Diag. 160

Fig. D8

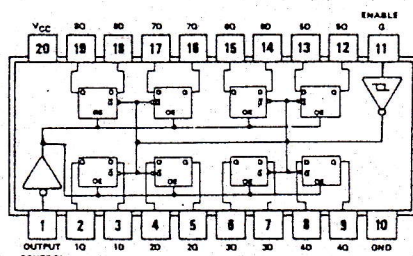
ECG74LS353



Diag. 161

Fig. D12

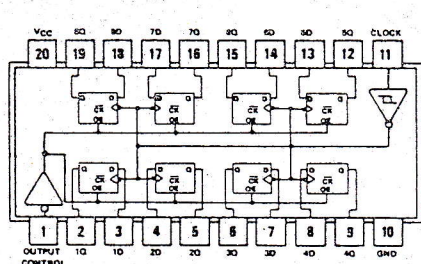
ECG74LS363



Diag. 162

Fig. D12

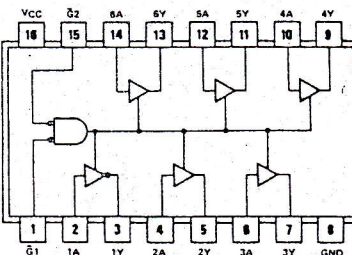
ECG74LS364



Diag. 163

Fig. D8

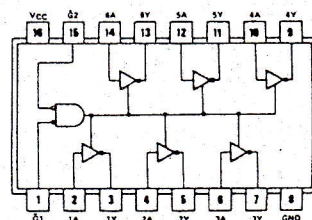
ECG74365, ECG74LS365A



Diag. 164

Fig. D8

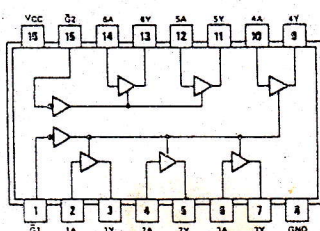
ECG74366, ECG74LS366A



Diag. 165

Fig. D8

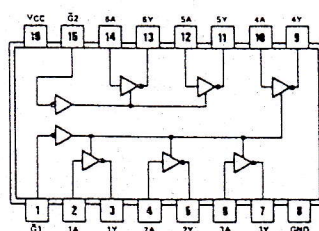
ECG74367, ECG74LS367



Diag. 166

Fig. D8

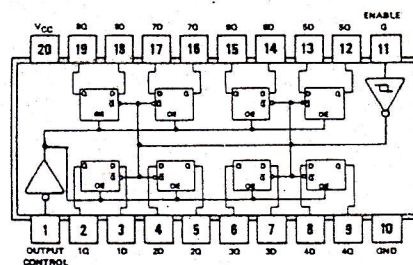
ECG74368, ECG74LS368



Diag. 167

Fig. D12

ECG74LS373



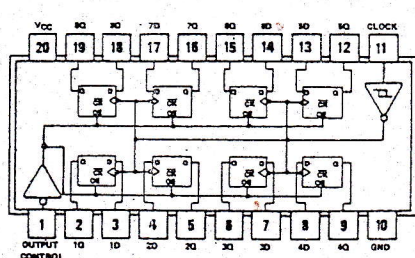


# TTL Logic Diagrams (cont'd)

Diag. 168

Fig. D12

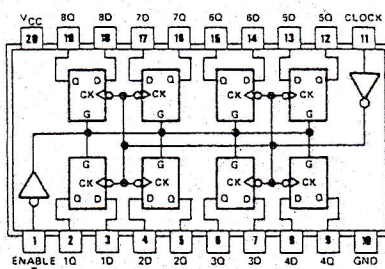
ECG74LS374



Diag. 169

Fig. D12

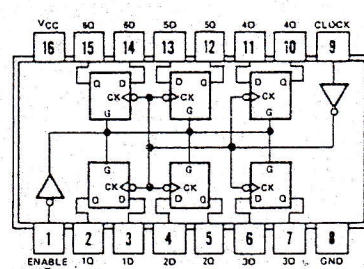
ECG74LS377



Diag. 170

Fig. D8

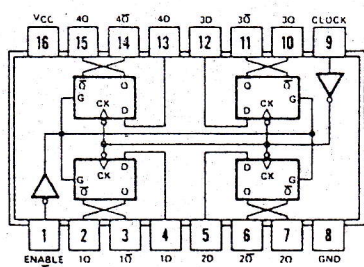
ECG74LS378



Diag. 171

Fig. D8

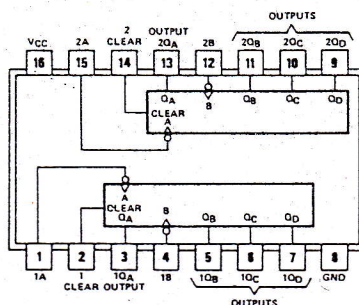
ECG74LS379



Diag. 172

Fig. D8

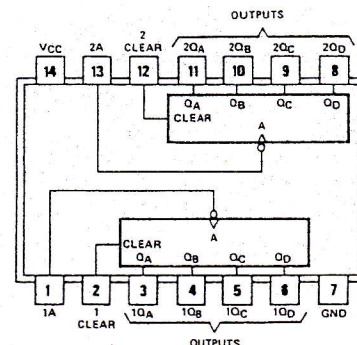
ECG74390, ECG74LS390



Diag. 173

Fig. D6

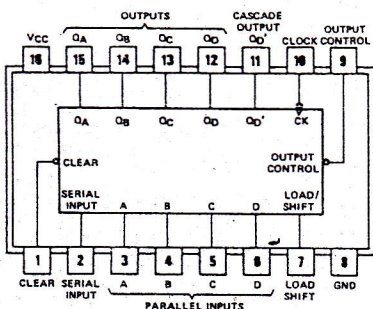
ECG74393, ECG74LS393



Diag. 174

Fig. D8

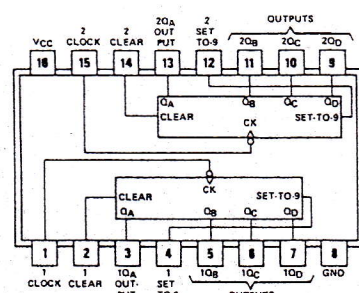
ECG74LS395A



Diag. 175

Fig. D8

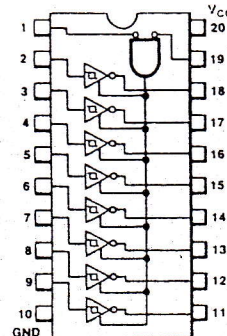
ECG74490, ECG74LS490



Diag. 176

Fig. D12

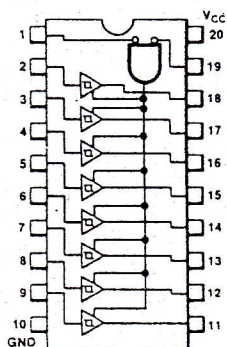
ECG74LS540



Diag. 177

Fig. D12

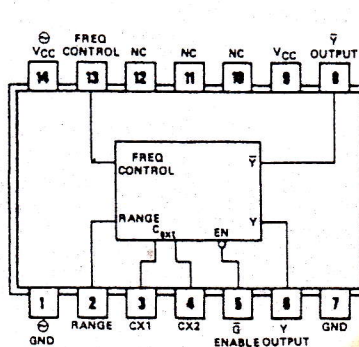
ECG74LS541



Diag. 178

Fig. D6

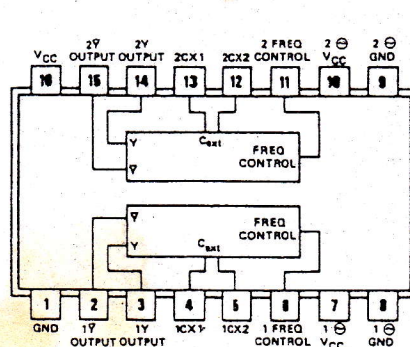
ECG74LS624



Diag. 179

Fig. D8

ECG74LS625

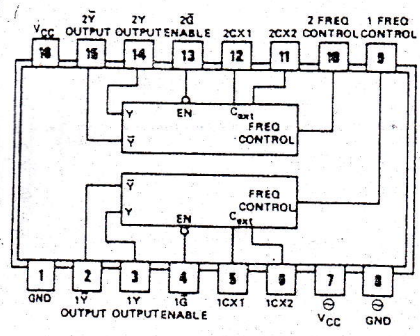




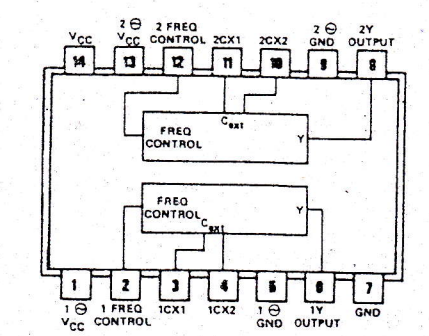
*Iron Salazar Camion*  
6th Ed.

# TL Logic Diagrams (cont'd)

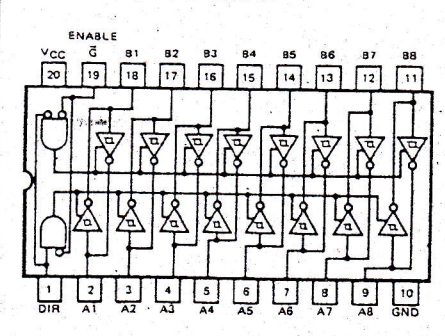
Diag. 180 Fig. D8  
ECG74LS626



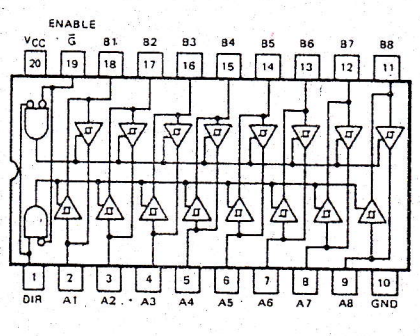
Diag. 181 Fig. D6  
ECG74LS627



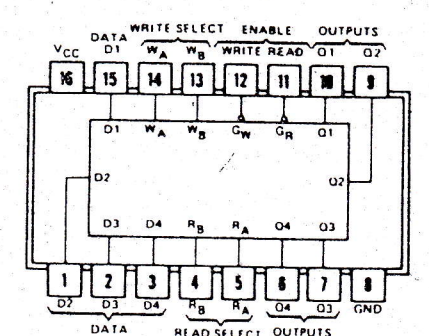
Diag. 182 Fig. D12  
ECG74LS640, ECG74LS642



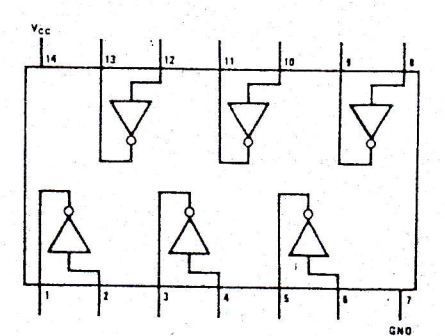
Diag. 183 Fig. D12  
ECG74LS641, ECG74LS645



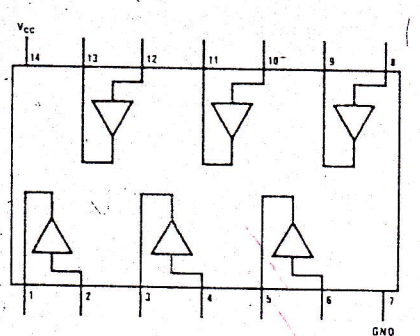
Diag. 184 Fig. D8  
ECG74LS670



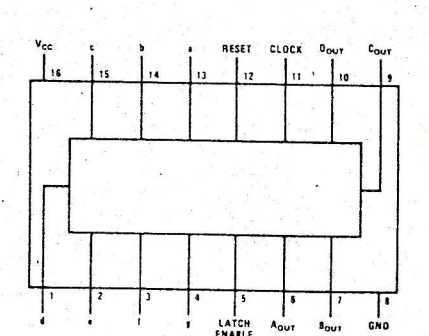
Diag. 185 Fig. D6  
ECG74C901, ECG74C903



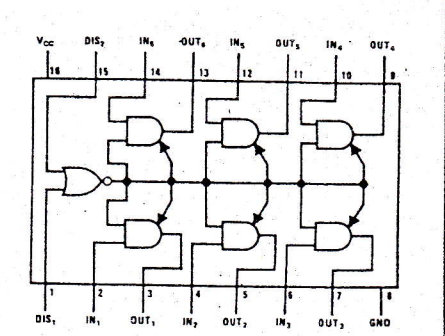
Diag. 186 Fig. D6  
ECG74C902, ECG74C904



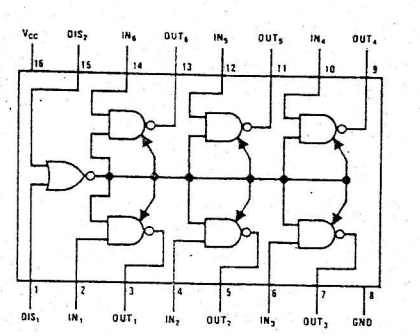
Diag. 187 Fig. D8  
ECG74C925



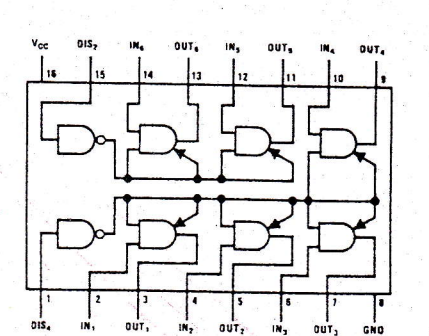
Diag. 188 Fig. D8  
ECG80C95



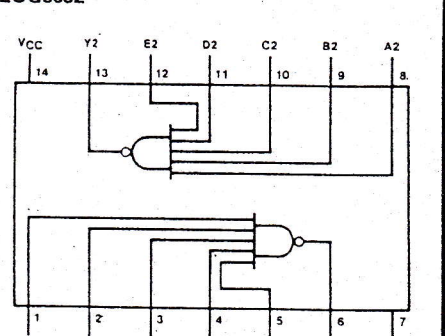
Diag. 189 Fig. D8  
ECG80C96



Diag. 190 Fig. D8  
ECG80C97



Diag. 191 Fig. D6  
ECG8092



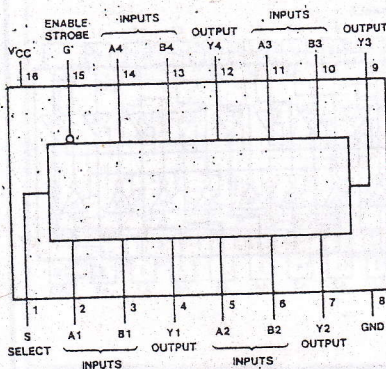
12



# TTL Logic Diagrams (cont'd)

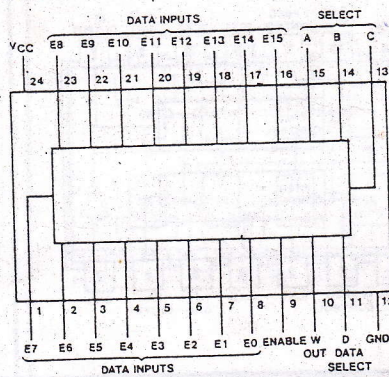
Diag. 192  
ECG8123

Fig. D8



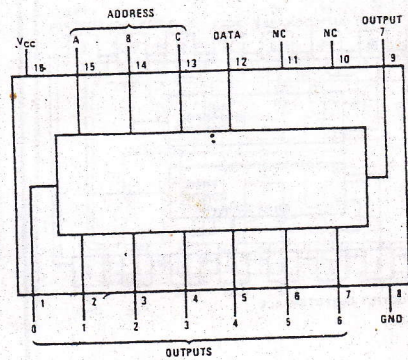
Diag. 193  
ECG8219

Fig. D15



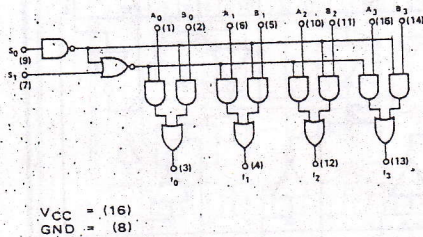
Diag. 194  
ECG8223

Fig. D8



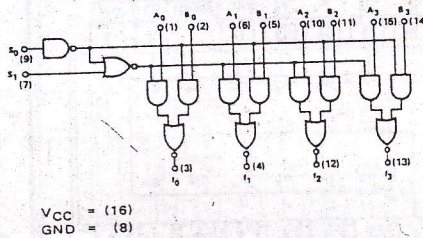
Diag. 195  
ECG8233

Fig. D8



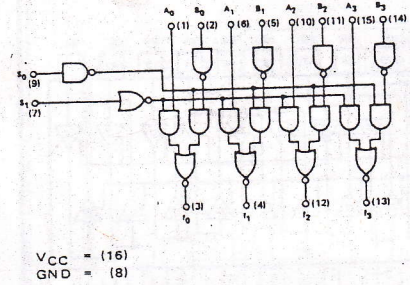
Diag. 196  
ECG8234

Fig. D8



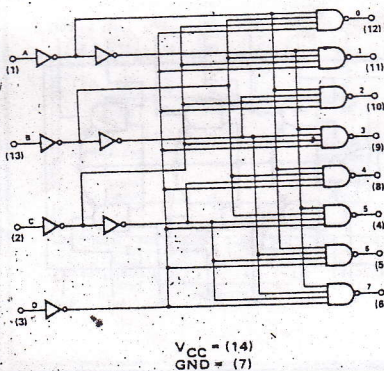
Diag. 197  
ECG8235

Fig. D8



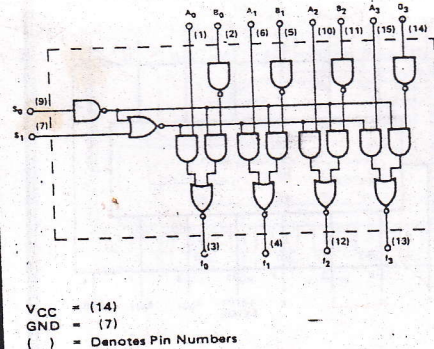
Diag. 198  
ECG8250

Fig. D6



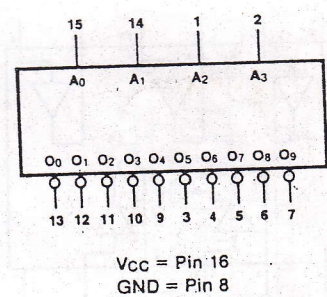
Diag. 199  
ECG3266

Fig. D6



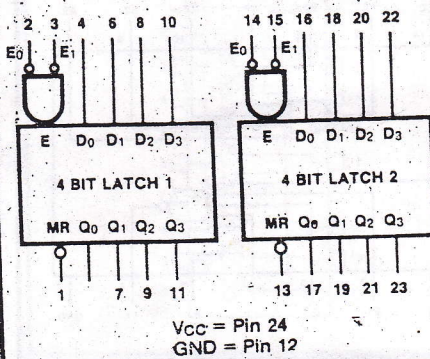
Diag. 200  
ECG8301

Fig. D8



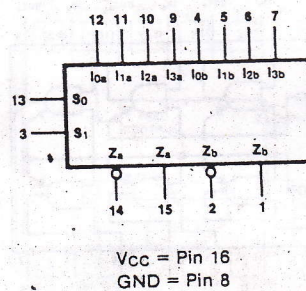
Diag. 201  
ECG8308, ECG93L08

Fig. D15



Diag. 202  
ECG8309

Fig. D8



Diag. 203  
ECG8314

Fig. D8

