

Requirement 4H: List of active circuit devices, their symbols, and their functions.

G25RMV100 GUARDIAN MOBILE VHF RADIO

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| 10 | Q9 | 125-00000 | FINAL ASSY,GUARDIAN 50W MOBILE |
| 60 | NR | 899651 | BOX,SHIPPING,GUARDIAN MOBILE |
| 70 | NR | 899652 | FOAM,SHIPPING,GUARDIAN MOBILE |
| 80 | A | G25AXK002 | WARRANTY CARD |

125-00000 FINAL ASSY,GUARDIAN 50W MOBILE

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|-----|-----|-------------|--------------------------------|
| 10 | Q9 | 125-10000 | FRONT PANEL ASSY,GUARDIAN |
| 20 | Q11 | 125-20000 | CHASSIS ASSY,GUARDIAN MOBILE |
| 30 | A | 942589 | COVER,BOTTOM,GUARDIAN MOBILE |
| 40 | Q4 | 920031 | LABEL SET,GUARDIAN MOBILE |
| 50 | | 812411 | SCREW,PAN,PH,4-40X3/8,SEMS |
| 55 | NR | 812656 | SCREW,PPH 6-32X5/16 SEMS BK SS |
| 60 | | 870130 | CAP,CONN,ESD PROTECTION DB25S |
| 70 | | 870132 | CAP,CONN,ESD PROTECT 5/8THD BK |
| 90 | Q | TP125-00000 | TEST PROCEDURE |
| 100 | Q | A125-00000 | ASSY DWG,FINAL,GUARDIAN MOBILE |

125-10000 FRONT PANEL ASSY,GUARDIAN

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|-----|----|------------|--------------------------------|
| 10 | Q7 | 125-14000 | PCA,INTERFACE |
| 20 | Q2 | 125-15000 | PCA,KEYPAD/DISPLAY,GUARD MOB |
| 60 | A | 942593 | LIGHT PIPE,GUARDIAN MOBILE |
| 70 | B | 942594 | PLATE,REAR,FR PNL,GUARDIAN MOB |
| 80 | A | 942595 | KEYPAD,AUX SW,GUARDIAN MOBILE |
| 90 | A | 942596 | COVER,TOGGLE,ABC,GUARDIAN MOB |
| 100 | A | 942597 | COVER,TOGGLE,EBI,GUARDIAN MOB |
| 105 | | 942612 | GASKET,FRONT PANEL PLATE G25RM |
| 110 | | 701005 | SPEAKER,50MM,ROUND,5W |
| 140 | | 891019 | KNOB,POINTER,BLACK,.68TALL |
| 160 | A | 942598 | COVER,ROTARY SWITCH |
| 161 | | 870136 | CAP,PROTECTIVE,RJ PHONE JACK |
| 171 | A | 125-16001 | MODIFIED HOUSING,FRONT PANEL |
| 175 | | 812402 | SCREW,PAN PHIL,4-40x5/16,SEMS |
| 180 | | 813401 | SCREW FLAT PHL 4-40X5/16 BKSS |
| 190 | | 872301 | THREAD LOCKER,222 REMOVABLE |
| 200 | Q | A125-10000 | ASSY DWG,FR PNL,GUARDIAN MOB |

125-20000 CHASSIS ASSY,GUARDIAN MOBILE

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| 10 | A | 124-10000 | RECVR EXCITER CONTROL MODULE |
| 30 | Q11 | 125-20001 | CHASSIS SUBASSY,GUARDIAN MBL |
| 60 | A | 942585 | BRACKET,RESTRAINING,BOAT ASSY |
| 90 | | 812402 | SCREW,PAN PHIL,4-40x5/16,SEMS |
| 130 | | 840446 | STD OFF,4-40X.375,RD187,SS,M/F |
| 135 | | 872300 | THREAD LOCKER,PLASTIC SAFE |
| 300 | Q | A125-20000 | ASSY DWG,CHASSIS,GUARDIAN MOB |

125-14000 PCA,INTERFACE

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|----|---|--------|--------------------------------|
| 10 | Q | 738520 | PCB,FR PNL INTFC,GUARDIAN MOB |
| 20 | Q | 994467 | SCHEM,FR PNL INTFC,GUARDIAN MO |
| 30 | | 520037 | SWITCH,TOG,1P3T,0N-OFF-ON |
| 40 | | 510038 | SWITCH,ROTARY,16POS,HEXADECIMA |
| 50 | | 610669 | CONN,MODULAR JACK,8-POS |

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| 100 | | 013102000 | RES SM CF 1K 0.1W 5 |
| 110 | | 013101000 | RES SM CF 100R 0.1W 5 |
| 130 | | 021101000 | CAP SM C 100P NPO |
| 150 | | 621112 | SOCKET,2X10,0.1IN,SSW11001GD |
| 160 | | 035500003 | LED,SM,RED,1206,APT3216ID |
| 170 | | 035500004 | LED,SM,RED/GREEN,APB3025ESGC |
| 190 | | 045000000 | BEAD FERRITE |
| 210 | | 013560000 | RES SM CF 56 OHM 0. |
| 220 | NR | 613230 | CONN,SKT,50P,DIL,.1SP,VRT,SAM |
| 240 | | 760205 | CONTACT STRIP, BERYLM COPPER |
| 6110 | Q | ST0089 | STENCIL,PASTE PRINT 125-14000 |
| 6120 | Q | PP0089 | PRGM,PICK & PLACE 125-14000 |
| 6130 | Q | RF0089 | PRGM,REFLOW 125-14000 |

125-15000 PCA,KEYPAD/DISPLAY,GUARD

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|----|----|-----------|--------------------------------|
| 10 | Q | 738519 | PCB,KYPD/DISPLAY/GUARDIAN MOB |
| 20 | Q | 994466 | SCHEM,KYPD/DISPLAY,GUARDIAN MO |
| 30 | NR | 320803 | LCD,GUARDIAN |
| 40 | | 080010002 | CONN,ZIF,0.5MM,10CIR,SM,BOTCON |
| 50 | | 620171 | HEADER,2X10,0.1IN,STACKING |

124-10000 RECVR EXCITER CONTROL MODULE

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| 10 | A | 124-11000 | PCA,REC EXC CNTRL MODULE |
| 20 | A | 942572 | SPACER,BATT CONN,GUARDIAN |
| 30 | A | 942548 | CASTING,MACHINED |
| 40 | Q | 942574 | SHIELD,PCA,GUARDIAN |
| 50 | | 700203 | CONN ASSY,ANTENNA,SMA |
| 60 | | 700200 | CONNECTOR,BATTERY,GUARDIAN |
| 70 | | 700201 | GASKET,BATTERY CONN,GUARDIAN |
| 100 | A | S995065 | SPEC,RECVR EXCITR CNTRL MODULE |

125-20001 CHASSIS SUBASSY,GUARDIAN

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| 10 | Q16 | 125-27000 | PCA,MOTHERBOARD,GUARDIAN MOBIL |
| 15 | Q7 | 125-24000 | CABLE ASSY,DC INPUT,GM |
| 20 | B | 942586 | HEATSINK,GUARDIAN MOBILE |
| 25 | B | 942587 | PANEL,REAR,GUARDIAN MOBILE |
| 30 | B | 942602 | PLATE,SPACER,HEATSINK/PWR MDGL |
| 35 | NR | 942606 | PLATE,INTERFACE,HS/FRONT PANEL |
| 40 | | 701363 | RF POWER MODULE,60W M68702 |
| 50 | | 165100 | RES,ATTEN,10DB,25W,FLANGED |
| 60 | | 310110 | XISTOR,MFTP,E,IRF4905 TO220 |
| 70 | | 330448 | IC,LM350T REGULATOR |
| 75 | | 330643 | IC,LIN,AUDIO AMP,TDA1516BQ |
| 80 | NR | 330406 | IC TEMP SENSOR LM35DT TO220 |
| 90 | | 870078 | INSUL SILPAD TO220 K4AC-58 |
| 94 | | 870216 | O'RING STOCK .040 ODX.015ID |
| 95 | NR | 942628 | GASKET,CONNECTOR DB25 |
| 100 | | 830036 | WASHER SHLDR #4 200X03X06 NYL |
| 105 | | 610003 | SOCKET ANTENNA SO 239 |
| 110 | | 812402 | SCREW,PAN PHIL,4-40x5/16,SEMS |
| 111 | | 812411 | SCREW,PAN,PH,4-40X3/8,SEMS |
| 114 | | 812404 | SCREW PAN PHIL 4-40X1/2 SS |
| 115 | | 812405 | SCREW PAN PHL 4-40X5/16 BK SS |
| 120 | | 812412 | SCREW PAN PHIL 4-40X1/4 SS |
| 121 | | 833401-1 | WASHER,FLAT,#4,.209 ODX.016 SS |
| 122 | | 872300 | THREAD LOCKER,PLASTIC SAFE |

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| 125 | 813621 | SCR FH 6-32X1/4 100D SS BLK |
| 126 | 821403 | NUT HEX 4-40X1/4 SS |
| 127 | 831401 | WASHER SPLIT LOCK #4 SS |
| 128 | 860402 | LUG SOLDER #4 2 HOLE |
| 129 | 872241 | THERMAL JOINT COMPOUND |
| 130 | 610406 | SCREW LOCK,FEMALE,PAIR,.312 |
| 135 | 761018 | WIRE BUSS 18 AWG TC |
| 200 | Q A125-20001 | ASSY DWG,CHAS SUBASSY,GUARD MO |

124-11000 PCA,REC EXC CNTRL MODULE

30 610352 CONN,80PIN,RECEPT,.025PITCH

125-27000 PCA,MOTHERBOARD,GUARDIAN MOBIL

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| 10 | | 013000000 RES,SM,CF,0K,0805 19 |
| 20 | | 013100 RES,SMT,10ohm,1/8W,5%,1206 |
| 30 | | 013101000 RES SM CF 100R 0.1W 5% 0805 |
| 40 | | 013101001 RES,SM,TK,100,1/4W,1%,1206 |
| 50 | | 013102000 RES SM CF 1K 0.1W 5% 0805 |
| 60 | | 013103002 RES,SM,TK,10K,1%,1/8W,0805 |
| 70 | | 013104001 RES SM CF 100K 0.1W 1% 0805 |
| 80 | | 013105000 RES SM CF 1M 0.1W 5% 0805 |
| 90 | | 013123001 RES,SM,TK,12.7K,1/10W,1%,0805 |
| 100 | | 013127100 RES,SM,1.27K 1% 0805 |
| 110 | | 013153000 RES SM CF 15K 0.1W 5% 0805 |
| 120 | | 013183000 RES SM CF 18K 0.1W 5% 0805 |
| 130 | | 013203000 RES,SM,CF,20.5K,.01W,1%,0805 |
| 140 | | 013222000 RES SM CF 2.2K 0.1W 5% 0805 |
| 150 | | 013224000 RES,SM,CF,220K 0.1W 5% 0805 |
| 160 | | 013249000 RES,SM,CF,249OHM,.1W,1%,0805 |
| 170 | | 013274000 RES SM CF 270K 0.1W 5% 0805 |
| 180 | | 013303000 RES SM CF 30.1K 0.1W 1% 0805 |
| 190 | NR | 013402300 RES,SM,TK,402K,.1W,5%,0805 |
| 200 | | 013472000 RES SM CF 4.7K 0.1W 5% 0805 |
| 210 | | 013473001 RES,SM,CF,47.5K,0.1W,1%,0805 |
| 220 | | 013510000 RES SM 51R 0.1W 5% 0805 CF |
| 230 | | 013513000 RES,SM,CF,51.1K,0.1W,1%,0805 |
| 240 | | 013561000 RES SM CF 560 0.1W 5% 0805 |
| 250 | | 013562100 RES SM CF 0.1W 5.62K 1% 0805 |
| 260 | | 013619100 RES SM CF 0.1W 6.19K 1% 0805 |
| 270 | | 013681000 RES SM CF 680R 0.1W 5% 0805 |
| 280 | | 013683000 RES,SM,CF,68K 0.1W 5% 0805 |
| 290 | | 013751000 RES SM CF 750R 0.1W 5% 0805 |
| 300 | | 0138R2000 RES,TF,8.25K,1%,.1W,0805 |
| 310 | | 013912000 RES SM CF 9.1K 0.1W 5% 0805 |
| 320 | | 019001001 RES,SM,0.01OHM,2W,1% WSR2 |
| 330 | | 021070000 CAP SM C 6.8P 100V 5% N 0805 |
| 340 | | 021101000 CAP SM C 100P NPO 100V 5% 0805 |
| 350 | | 0211102 CAP,.001MF 50V 10% SMT 1206 |
| 360 | | 021102000 CAP,1N(.001)100V,5%,0805 |
| 370 | | 021103000 CAP SM .01U 5% 0805 |
| 380 | | 021104000 CAP SM C 0.1U 25V 5% 0805 |
| 390 | | 021105000 CAP,SM,CER,1UF,16V,0805,Y5V |
| 400 | | 021105004 CAP,SM,CER,1UF,25V,X7R,1206 |
| 410 | | 021106000 CAP,SM,CER,10UF,25V,Y5V,1210 |
| 415 | | 022106001 CAP SM T 10UF 16V 10% 6032 |
| 420 | | 021120002 CAP,SM,CER,12PF,2%,100V 0805 |
| 430 | | 021150000 CAP SM C 15P 100V 5% N 0805 |

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| 440 | | 021180000 | CAP,SM,C,18P,100V,5%,N,0805 |
| 450 | | 021181000 | CAP SM C 180P 100V 5% N 0805 |
| 460 | | 021471003 | CAP SM C .47UF 25V 0805 5 |
| 470 | | 021479000 | CAP,SM,CER,4.7pf,+/- .25PF,0805 |
| 480 | | 021680000 | CAP SM C 68P 100V 5% N 0805 |
| 490 | | 022476000 | CAP,SM,TANT,47uF,20V,20% 7343 |
| 510 | | 031006 | DIODE,HSMS-2800 SCHOT SOT-23AK |
| 520 | | 031102011 | MOSFET,P,30V,SI4425DY,SO-8 |
| 530 | | 031105002 | XISTOR SM PNP 10K/10K SOT23 |
| 540 | | 031105003 | XISTOR SM PNP 47K/47K SOT23 |
| 550 | | 032005 | XISTOR,2N7002 SMT SOT-23 |
| 560 | | 033303087 | IC,DIG,SM,4-16 DEMUX 74HC4514 |
| 570 | | 033303088 | IC,SM,DIG,QUAD SWITCH 74HC4016 |
| 580 | | 033304020 | IC,SM,DUAL OP AMP,LM2904M,MO8A |
| 590 | | 033304061 | IC,SM,LIN,COMPAR,DUAL,LM2903MX |
| 600 | | 033304063 | IC,SM,LIN,CURRENT SENSE INA168 |
| 610 | | 033305021 | IC SM INT CM88L70CSI DTMF S018 |
| 620 | | 034403011 | IC SM VR MIC2920A-3.3BS 1 |
| 630 | | 037700005 | DIODE,SM,MMBD4148,SOT-23 |
| 640 | | 037703007 | DIODE,ZENER,12V,SOT-23,A1,K3 |
| 650 | | 041101000 | INDUCTOR SM 100nH 20% 1210 |
| 660 | | 045000000 | BEAD FERRITE SMT 0805 |
| 670 | | 071000002 | RELAY,DPDT,5V,COIL,SMT |
| 680 | | 080002000 | CONN,RF RECPT,OSMT,SMT |
| 690 | | 320227 | DIODE,TRANSORB 16V IN6278 |
| 710 | | 361081 | CRYSTAL,3.579545 MHZ |
| 720 | B | 459334 | IND ASSY,1-490330,4T-20GA,62uH |
| 730 | B | 459418 | XFMR ASSY,MOBILE |
| 740 | A | 459419 | INDUCTOR,47nH |
| 750 | A | 459420 | INDUCTOR,MOBILE,40nH |
| 760 | | 610354 | CONN,80PIN,PLUG,.025PITCH,16MM |
| 770 | | 610670 | CONN,DB25 RCPT,RT ANG,4-40 THD |
| 780 | | 613228 | CONN,SOCKET 50 PIN RANGLE PCMT |
| 800 | Q | 738527 | PCB,MOTHERBOARD,GUARDIAN MOBIL |
| 805 | | 840648 | STDOFF,.143IDX.125H SS PCB MTG |
| 810 | Q | 994473 | SCHEM,MOTHERBOARD,GUARDIAN MOB |
| 820 | Q | PP0087 | PRGM,PICK & PLACE 125-27000 |
| 830 | Q | RF0087 | PRGM,REFLOW 125-27000 |
| 840 | Q | ST0087 | STENCIL,PASTE PRINT 125-27000 |

125-27000 MOTHERBOARD,GUARDIAN MOBIL

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| 10 | | 013000000 | RES,SM,CF,0K,0805 19 |
| 20 | | 013100 | RES,SMT,10ohm,1/8W,5%,1206 |
| 30 | | 013101000 | RES SM CF 100R 0.1W 5% 0805 |
| 40 | | 013101001 | RES,SM,TK,100,1/4W,1%,1206 |
| 50 | | 013102000 | RES SM CF 1K 0.1W 5% 0805 |
| 60 | | 013103002 | RES,SM,TK,10K,1%,1/8W,0805 |
| 70 | | 013104001 | RES SM CF 100K 0.1W 1% 0805 |
| 80 | | 013105000 | RES SM CF 1M 0.1W 5% 0805 |
| 90 | | 013123001 | RES,SM,TK,12.7K,1/10W,1%,0805 |
| 100 | | 013127100 | RES,SM,1.27K 1% 0805 |
| 110 | | 013153000 | RES SM CF 15K 0.1W 5% 0805 |
| 120 | | 013183000 | RES SM CF 18K 0.1W 5% 0805 |
| 130 | | 013203000 | RES,SM,CF,20.5K,.01W,1%,0805 |
| 140 | | 013222000 | RES SM CF 2.2K 0.1W 5% 0805 |
| 150 | | 013224000 | RES,SM,CF,220K 0.1W 5% 0805 |
| 160 | | 013249000 | RES,SM,CF,249OHM,.1W,1%,0805 |

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| 170 | | 013274000 | RES SM CF 270K 0.1W 5% 0805 |
| 180 | | 013303000 | RES SM CF 30.1K 0.1W 1% 0805 |
| 190 | NR | 013402300 | RES,SM,TK,402K,.1W,5%,0805 |
| 200 | | 013472000 | RES SM CF 4.7K 0.1W 5% 0805 |
| 210 | | 013473001 | RES,SM,CF,47.5K,0.1W,1%,0805 |
| 220 | | 013510000 | RES SM 51R 0.1W 5% 0805 CF |
| 230 | | 013513000 | RES,SM,CF,51.1K,0.1W,1%,0805 |
| 240 | | 013561000 | RES SM CF 560 0.1W 5% 0805 |
| 250 | | 013562100 | RES SM CF 0.1W 5.62K 1% 0805 |
| 260 | | 013619100 | RES SM CF 0.1W 6.19K 1% 0805 |
| 270 | | 013681000 | RES SM CF 680R 0.1W 5% |
| 280 | | 013683000 | RES,SM,CF,68K 0.1W 5% |
| 290 | | 013751000 | RES SM CF 750R 0.1W 5% |
| 300 | | 0138R2000 | RES,TF,8.25K,1%,.1W,0805 |
| 310 | | 013912000 | RES SM CF 9.1K 0.1W 5% 0805 |
| 320 | | 019001001 | RES,SM,0.01OHM,2W,1% WSR2 |
| 330 | | 021070000 | CAP SM C 6.8P 100V 5% N 0805 |
| 340 | | 021101000 | CAP SM C 100P NPO 100V 5% 0805 |
| 350 | | 021102 | CAP,.001MF 50V 10% SMT 1206 |
| 360 | | 021102000 | CAP,1N(.001)100V,5%,0805 |
| 370 | | 021103000 | CAP SM .01U 5% 0805 |
| 380 | | 021104000 | CAP SM C 0.1U 25V 5% 0805 |
| 390 | | 021105000 | CAP,SM,CER,1UF,16V,0805,Y5V |
| 400 | | 021105004 | CAP,SM,CER,1UF,25V,X7R,1206 |
| 410 | | 021106000 | CAP,SM,CER,10UF,25V,Y5V,1210 |
| 415 | | 022106001 | CAP SM T 10UF 16V 10% 6032 |
| 420 | | 021120002 | CAP,SM,CER,12PF,2%,100V 0805 |
| 430 | | 021150000 | CAP SM C 15P 100V 5% N 0805 |
| 440 | | 021180000 | CAP,SM,C,18P,100V,5%,N,0805 |
| 450 | | 021181000 | CAP SM C 180P 100V 5% N 0805 |
| 460 | | 021471003 | CAP SM C .47UF 25V 0805 5 |
| 470 | | 021479000 | CAP,SM,CER,4.7pf,+/- .25PF,0805 |
| 480 | | 021680000 | CAP SM C 68P 100V 5% N 0805 |
| 490 | | 022476000 | CAP,SM,TANT,47uF,20V,20% 7343 |
| 510 | | 031006 | DIODE,HSMS-2800 SCHOT SOT-23AK |
| 520 | | 031102011 | MOSFET,P,30V,SI4425DY,SO-8 |
| 530 | | 031105002 | XISTOR SM PNP 10K/10K SOT23 |
| 540 | | 031105003 | XISTOR SM PNP 47K/47K SOT23 |
| 550 | | 032005 | XISTOR,2N7002 SMT SOT-23 |
| 560 | | 033303087 | IC,DIG,SM,4-16 DEMUX 74HC4514 |
| 570 | | 033303088 | IC,SM,DIG,QUAD SWITCH 74HC4016 |
| 580 | | 033304020 | IC,SM,DUAL OP AMP,LM2904M,MO8A |
| 590 | | 033304061 | IC,SM,LIN,COMPAR,DUAL,LM2903MX |
| 600 | | 033304063 | IC,SM,LIN,CURRENT SENSE INA168 |
| 610 | | 033305021 | IC SM INT CM88L70CSI DTMF S018 |
| 620 | | 034403011 | IC SM VR MIC2920A-3.3BS 1 |
| 630 | | 037700005 | DIODE,SM,MMBD4148,SOT-23 |
| 640 | | 037703007 | DIODE,ZENER,12V,SOT-23,A1,K3 |
| 650 | | 041101000 | INDUCTOR SM 100nH 20% 1210 |
| 660 | | 045000000 | BEAD FERRITE SMT 0805 51 |
| 670 | | 071000002 | RELAY,DPDT,5V,COIL,SMT |
| 680 | | 080002000 | CONN,RF RECPT,OSMT,SMT |
| 690 | | 320227 | DIODE,TRANSORB 16V IN6278 |
| 710 | | 361081 | CRYSTAL,3.579545 MHZ |
| 720 | B | 459334 | IND ASSY,1-490330,4T-20GA,62uH |
| 730 | B | 459418 | XFMR ASSY,MOBILE |
| 740 | A | 459419 | INDUCTOR,47nH |

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| 750 | A | 459420 | INDUCTOR,MOBILE,40nH |
| 760 | | 610354 | CONN,80PIN,PLUG,.025PITCH,16MM |
| 770 | | 610670 | CONN,DB25 RCPT,RT ANG,4-40 THD |
| 780 | | 613228 | CONN,SOCKET 50 PIN RANGLE PCMT |
| 800 | Q | 738527 | PCB,MOTHERBOARD,GUARDIAN MOBIL |
| 805 | | 840648 | STDOFF,.143IDX.125H SS PCB MTG |
| 810 | Q | 994473 | SCHEM,MOTHERBOARD,GUARDIAN MOB |
| 820 | Q | PP0087 | PRGM,PICK & PLACE 125-27000 |
| 830 | Q | RF0087 | PRGM,REFLOW 125-27000 |
| 840 | Q | ST0087 | STENCIL,PASTE PRINT 125-27000 |