

TOSHIBA

Toshiba SX 2000 User Manual

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[Page 56](#) 5HVHW RSHUDWLRQ % VHWLQJ 6 WR 21 UHVHWLQJ WKH IUHH \$6&, PRGH RSHUDWLRQ LV DYDLODEOH 'XULQJ WKH UHVHW WKH IROORZLQJ UHQWLWLDOLDWLRQ LV SURFHVVHG ,QLWLDOJHV WKH VHULDO SRUW 56 ,QLWLDOJHV WKH UHFHLYH EXIIHU DQG WKH UHFHLYH HUURU LQIRUPDWLRQ 5HVHW WKH WUDLOLQJ FRGH EDVHG RQ WKH GDWD RI ORZHU E\WH RI 6 :KHQ WKH UHVHW RSHUDWLRQ LV FRPSOHWHG LV DXWRPDWLFDOO\ UHVHW WR 2) 7KH IUHH \$6&, PRGH RSHUDWLRQ VKRXOG EH UHVWDUWHG DIWHU FRQILUPLQJ 6 LV UHWXUQHG WR 2)...

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[Page 58](#))UHH \$6&OO PRGH RXUFH SDUDPHWHU 7UDQVIHU VLJH DQG VWDWXV 'HVWLQDWLRQ SDUDPHWHU %DQN &+ 7\SH 7UDQVIHU VLJH & %DQN &+ 7\SH /HDGLQJ DGGUHVV WDWXV IODJ & /HDGLQJ DGGUHVV PD ZRUGV % HIHU WR WKH IROORZLQJ WDEOH IRU FRQWHQWV RI HDFK GHVLJQDWLRQ 7KH VWDWXV IODJ LV FUHDWHG ZKHQ 6 LV GHVLJQDWHG DV WUDQVIHU VRXUFH RU 6 7 LV GHVLJQDWHG DV VRXUFHGHWLQDWLRQ)&...

[Page 59](#) KDSW 6VWHP RQILXUDWLRQ UDWVIHU SDUDPHWHU WDEOH :KHQ 6 LV WUDQVIHU VRXUFH WKH VFDQ KHDOWK PDS LV FUHDWHG PD ZRUGV ,Q FDVH RI 6 / 3 QR VWDWXV IODJ LV DGGHG :KHQ WKH OLQN SRUW LV WUDQVIHU VRXUFH UHFHLYLQJ WKH WUDQVIHU VLJH PXVW EH ILHG :KHQ WKH OLQN SRUW LV WUDQVIHU VRXUFH UHFHLYLQJ ZRUGV RI VWDWXV IODJ LV DGGHG :KHQ LW LV GHVLQDWLRQ WUDQVPLWWLQJ ZRUG RI VWDWXV IODJ LV DGGHG 38 7 KDV WKH H[SDQLRQ PHPRU\ DQG XVH QN ZRUGV H[SDQHG ILOH UHVLVWHU...

[Page 60](#) 38 UHJLVWHU RXUFH GHVLJQDWLRQ ' /LQN SRUW [HFXWLRQ VWDWXV HVVDJH OHQJWK 7KLV LQVWUXFWLRQ LV SURJUDPPHG LQ WKH VXE SURJUDP)& 6 7 OLQN SRUW ↔ 7UDQVIHU VLJH ' ILHG ' [HFXWLRQ VWDWXV ' 0HVVDJH OHQJWK 1RUPDO FRPSOHWH Q & FRPPXQLFDWLRQ HUURU

FRQVXPSWLRQ 7KHUH DUH W\SH PRGXOHV DV IROORZV...

[Page 72](#) □□ 3RZHU 6XSSO\ ORGXOH DQGDWRU\ SHUDWH WKH 6□7 DQG WKH UHODWHG PRGXOHV ZKLFK FORVLQJ WKH WHUPLQDO FRYHUV□ .HHS KDQGV DZD\ IURP WHUPLQDOV ZKLOH SRZHU RQ□ WR DYRLG WKH ULVN RI HOHFWULFDO VKRFN□ 7KLV SRZHU VXSSO\ PRGXOH LV GHGLFDWHG SRZHU VXSSO\ IRU WKH 6□7 DQG WKH PRGHO □□□□ 'R QRW XVH LW E\ LWVHOI IRU RWKHU SXUSRVHV□ 81 FRQWDFW 2SHUDWLRQ...

[Page 73](#) KDSW□□ 6\WVHP RQILXUDWLRQ □ :KLFK PRGXOH FRQWUROV WKH 58 FRQWDFW " 7KH RQO\ FRQWUROOEHU PRGXOHV RI VWDWLRQ PRGXOHV FDQ FRQWURO WKH 58 FRQWDFW□ □ 58 FRQWDFW FRQWURO 8VHU FDQ VHW WKH SDUDPHWHU WR FRQWURO WKH 58 FRQWDFW RSHUDWLRQ LQ RUGHU WR DSSO\ IRU YDULHW\ LQGXVWULDO V\WVHP□ 7KH 58 FRQWDFW LVQ\W RSHUDWHG HYHQ LI WKH FRQWUROOEHU VHW WR QR□YDOLG JRHV WR WKH +\$/ PRGH RU WKH DEQRUPDO PRGH□ 7KH SDUDPHWHU LV VHW WR EH YDOLG LQ WKH LQLWLDO PRGH□...

[Page 74](#) KH WDEOH EHORZ VKRZV WKH PD[LPXP FXUUHQW FRQVXPSWLRQ RI HDFK EDVH□PRGXOH□ :KHQ FRQILXULQJ WKH XQLWV□ FRQILUP WKDW WKH WRWDO FXUUHQW FRQVXPSWLRQ LV ZLWKLQ WKH SRZHU VXSSO\ RXWSXW FDSDFLW□ VR WKDW WKH IROORZLQJ HTXDWLRQ LV VDWLVLHG□ 0D[LPXP SRZHU FRQVXPSWLRQ DEOH□□□□ &XUUHQW FRQVXPSWLRQ □ :HLJKW DEOH (SDQVLRQ)□&□□□ □9GF...

[Page 75](#) KDSW□□ 6\WVHP RQILXUDWLRQ ± □□□□□□□□□□□□□□□□□□□□ ± □□□□□□ □□□□ ± □□□□□□□□...

[Page 76](#) □□ 3RZHU 6XSSO\ ORGXOH L 7KH H[WHUQDO □□9GF LQ WKH 7DEOH DUH QRW SRZHU VXSSOLHV IRU LQXSXW□RXWSXW V\JQDOV□ 7KH\ DUH WKH SRZHU VXSSOLHV UHTXLUHG IRU PRGXOH RSHUDWLRQ□ LL □ □ XQGDU GHYHORSPHQW□)□&□□□...

[Page 77](#) KDSW□□ 6\WVHP RQILXUDWLRQ DULRXV W\SHV RI GLUHFV ,□2 PRGXOHV DUH DYDLODEOH IRU WKH PRGHO □□□□ DV VKRZQ LQ WKH IROORZLQJ WDEOH□ 7KXV□ LW FDQ UHVSROG WR D ZLGH YDULHW\ RI DSSOLFDWLRQV□ 'LUHFV ,□2 PRGXOHV FDQ EH PRXQWHG RQ DQ\ VORW LQ WKH EDVH□ DQG LQ DQ\ RUGHU□ 6HH 6HFWRQ□ □□□ IRU UHFRPPHQGHG DUUDQJHPHQWV ,QSW□2XWSXO VWDWXV GLVSOD\ /('V...

[Page 78](#) □□ ,□2 ORGXOHV ×)□&□□□...

[Page 79](#) KDSW□□ 6\WVHP RQILXUDWLRQ \ DSSO\LQJ WKH IROORZLQJ □ W\SHV RI QHWZRUN PRGXOH DFFRUGLQJ WR WKH V\WVHP UHTXLUHPHQW□ WKH 6□7 FDQ FRQILXUH WKH IOH[LEOH DQG HIILFLHQW FRQWURO V\WVHP□ 726/,1(□)□ 7KH &RQWUROOEHU WR &RQWUROOEHU GDWD OLQNDJH DQG UHPRWH ,□2 V\WVHP DUH FRQILXUHG E\ WKH 726/,1(□)□ GDWD WUDQVPLVLRQ HTXLSPHQW□ 8S WR □ PRGXOHV PRGHO □□□ VWDWLRQV FDQ EH PRXQWHG RQ DQ\ VORW□ LQ WKH VDPH ZD\ DV ,□2 PRGXOHV□...

[Page 80](#) □□ 1HWZRUN ORGXOHV HYLPH1HW 7KH HYLPH1HW LV D ILHOG QHWZRUN□ ,W FDQ DFKLHYH GDWD OLQNDJH EHWZHHQ WKH 6□7 DQG DQ\ 2 9\$ FHUWLILHG GHYLFHV□ 7KH 6□7 FDQ XVH WKH HYLPH1HW VFDQQHU PRGXOH□ ,W LV HIHFWRULYH IRU FRQHFWLQJ WKH HYLPH1HW V\WVHP WR WKH 6□7□ 7KH PRGHO □□□ VWDWLRQV FDQ EH PRXQWHG RQ DQ\ VORW□ LQ WKH VDPH ZD\ DV IRU GLUHFV ,□2 PRGXOHV□ UDQVPLVLRQ VSHHG□...

[Page 81](#) KDSW□□ 6\WVHP RQILXUDWLRQ WKHUQHW 7KH WKHUQHW LV D VWDQGDUG /RFDO \$UHD 1HWZRUN □/\$1 QRW RQO\ IRU 2\$ EXW DOVR IRU IDFWRU\ DXWRPDWLRQ V\WVHP□ ,W FDQ DFKLHYH KLJK□VSHHG GDWD OLQNDJH EHWZHHQ 3/&V DQG FRPPXQLFDWLRQ ZLWK KLJKHU OHYHO FRPSXWHUV □ZRUNVWDWLRQ□SHUVRQDO FRPSXWHUV□ 7KH 6□7 VXSSRUWV 7□ VHULHV FRPSXWHUV OLQN IXQFWLRQ□ 3/&...

[Page 82](#) RWHV □ ,QVXODWHG &LUFXLWV EHWZHHQ 3RZHU VXSSO\ FLUFXLW DQG ,□2 FLUFXLW • EHWZHHQ \$FFHVVEOH PHWDO SDUWV DQG 3RZHU VXSSO\ FLUFXLW • EHWZHHQ \$FFHVVEOH PHWDO SDUWV DQG ,□2 FLUFXLW • EHWZHHQ 6(/9 FLUFXLW DQG 3RZHU VXSSO\ • EHWZHHQ 6(/9 FLUFXLW DQG ,□2 FLUFXLW •...

[Page 83](#) KDSW□□ 6SHFLILFDWLRQV RZHU 6XSSO\ 6SHFLILFDWLRQ 9ROWDJH GURS 9ROWDJH GURS 9ROWDJH GURS LQWHUYDO □ PRUH LQWHUYDO □ PRUH LQWHUYDO □ PRUH WKDQ □VHF□ WKDQ □VHF□ WKDQ □VHF□ Ω Ω HTXHQFH &RQWUROOEHU □7...

[Page 84](#) *HQUUDO 6SHFLILFDWLRQV XQFWLRQDO 6SHFLILFDWLRQV DEOH
)XQFWLRQDO 6SHFLILFDWLRQV)&...

[Page 85](#) KDSW 6SHFLILFDWLRQV DLQ EDVH IRU 6WDWLRQ RGXOHV%8(%8'
DLQ EDVH IRU &38 ZLWKRXW VWDWLRQ EXVH[SDQVLRQ EDVH%8 %8 %8
%8(%8 %8 %8 %8' %8 HTXHGFH &RQWUROOHU 7...

[Page 86](#) ([WHUQDO GLPHQVLRQV KHQ SRLQW ,2 PRGXOH LQVWDOOHG KHQ
SRLQW ,2 3, 0& LQVWDOOHG &RQHFWRU IRU ZLULQJ H[WHUQDO
FDEOHV)&...

[Page 87](#) KDSW 6SHFLILFDWLRQV /(' 'LVSOD\ &20 &20 &20 09 HTXHGFH
&RQWUROOHU 7...

[Page 88](#) &20 &20 &20 &20 &20 &20 &20 &20)& WHUPLQDO EORFN
&20 &20 &20 &20 &20 &20 &20 &20 ,2 0RGXOH 6SHFLILFDWLRQ
'LVSOD\ . &20...

[Page 89](#) KDSW 6SHFLILFDWLRQV 1XPEHU RI LQSWX 21 SRLQWV QSW W YRO WD J H >9
GF@ & & & & HTXHGFH &RQWUROOHU 7...

[Page 90](#) 1R RI LQSWX SRLQW QSW 9ROWDJH 5DQJH QSW FXUUHQW \S 0LQLXP 21
9ROWDJH 0D(LXP 2)) 9ROWDJH 'HOD\ WLP ([WHUQDO FRQHFWRQV &RPPRQ
FRQILJXUDWLRQ 'HUDWLQJ FRQGLWLRQ &XUUHQW FRQVXPSWLRQ :LWKVWDQG YROWDJH
:HLJW LUFXLW &1 &1)& SRLQWV 9GF \$\$SUR(P\$ DW 9GF 9 RU
PRUH 9 RU OHVV 21 'HOD\ 2)) WR 21...

[Page 91](#) KDSW 6SHFLILFDWLRQV RQHFWRU RQHFWRQV HTXHGFH &RQWUROOHU
7...

[Page 92](#) &20 &20)& /(' 'LVSOD\ &20 ,2 0RGXOH 6SHFLILFDWLRQ
,1 9DF+= ,1 9DF+=...

[Page 93](#) KDSW 6SHFLILFDWLRQV ± (' 'LVSOD\ 1 R RYHU ORDG SURWHFWLRQ IXVHV DUH
EXLOW LQWR WKLV P RGXOH 7KHUHIRUH FRQHFWRV IXVHV H[WHUQDO\ VXLWDEOH WR
WKH FXUUHQW FDSDFLW\ ;/. HTXHGFH &RQWUROOHU 7...

[Page 94](#) LIH FXUYHV RI WKH RXWSXW UHOD\ 52 526 127(7KH GDWD DUH
EDVHG RQ VZLWFKLQJ WLPHV KRXU)RU PRUH IUHJXHQWO\ RSHUDWLRQ WKH OLIH
RI WKH RXWSXW UHOD\ ZLOO EHFRPH VKRUWHU ,Q WKH FDVH RI 526 WKH GDWD
LQ WKH DERYH ILJXUH LV QRW DSSOLFDEOH ZKHQ WKH FRORU RI WKH ¶5(\$<...

[Page 95](#) KDSW 6SHFLILFDWLRQV 9 G F ± 1R RYHU ORDG SURWHFWLRQ IXVHV & 2 0
DUH EXLOW LQWR WKLV P RGXOH 7KHUHIRUH FRQHFWRV IXVHV H[WHUQDO\ VXLWDEOH
WR WKH FXUUHQW FDSDFLW\ & & 2 0 &20 &20 HTXHGFH &RQWUROOHU 7...

[Page 96](#))& Q /(' 'LVSOD\ 7UDQVLVWRU DUUD\ & 9GF ,2 0RGXOH
6SHFLILFDWLRQ &)XVH &RPPRQ...

[Page 97](#) KDSW 6SHFLILFDWLRQV :KHQ H[FXWLQJ GLUHFWRXWSXW RXW RI EDWFK
RXWSXW IRXU UHJLVWHUV RQH PRGXOH VKRXOG EH VSHFLILHG WR GLUHFWRXWSXW
%DWFKGLUHFWRXW SXW FDQ¶V EH PL[HG LQ RQH PRGXOH 'LVSOD\ 300/ &
300/ &1 /& 300+ +& 300+ +& 300/...

[Page 98](#) RQHFWRU RQHFWRQV 300+ 300+ &100/ <:Q &100+ <:Q &100/ <:Q
&100+ <:Q &RQHFWRUV RQ WKH 0RGXOH)&10003000\$ PDGH E\ XMLWVX &DEOH
VLGH FRQHFWRUV)& &1 %\$ 300/ 00 00 +& /& 00 00 00 00 00 00 00 +& &/
00...

[Page 99](#) KDSW 6SHFLILFDWLRQV /(' 'LVSOD\ 7UDQVLVWRU DUUD\ & 9GF
&)XVH &RPPRQ HTXHGFH &RQWUROOHU 7...

[Page 100](#))&□□□ □□□□ □□□□ /(' 'LVSOD\ □□HOHPHQW 665)XVH &□ &□ &□ &□ &□ □□ ,□2 ORGXOH 6SHFLILFDWLRQ...

[Page 101](#) KDSW□□ 6SHFLILFDWLRQV HUPQLQDO &RQQHFWLRQV Ω Ω □□□□. 3KRWR FRXSOHU □□□□. &20 □ ' & SRZHU VXSSO\ □ ,QSW VZLWFK VROLG□VWDWH GHYLFH RQO\ & &20 (' GLVSOD\ ,QWHUUXSW HTXHQFH &RQWUROOHU □7...

[Page 102](#) □□ ,□2 ORGXOH 6SHFLILFDWLRQ ,9, 1472,9)□&□□□...

[Page 103](#) KDSW□□ 6SHFLILFDWLRQV HTXHQFH &RQWUROOHU □7...

[Page 104](#) □□ ,□2 ORGXOH 6SHFLILFDWLRQ Ω Ω Ω 43;07907)□&□□□...

[Page 105](#) KDSW□□ 6SHFLILFDWLRQV □' &RQYHUVLRQ 'DWD)RUPDW 127(□□ ,Q WKH YROWDJH LQSW VSHFLILFDWLRQ□ WKH GDWD ELWV GR QRW EHRPH □ ZKHQ WKHUH LV DQ RSHQ FLUFXLW EHWZHHQ WKH LQSW WHUPLQDOV□ □7KH\ EHRPH LQGHWHUPLQDWH EHWZHHQ □ DQG □□□□ □□ ,W LV UHFRPPHQGHG WKDW XQXVHG FKDQQHOV DUH VKRUWHG EHWZHHQ WKH LQSW WHUPLQDOV□ HTXHQFH &RQWUROOHU □7...

[Page 106](#) □□ ,□2 ORGXOH 6SHFLILFDWLRQ Ω Ω Ω □ □ 43;07907)□&□□□...

[Page 107](#) KDSW□□ 6SHFLILFDWLRQV □' &RQYHUVLRQ 'DWD)RUPDW□,QSW □ ZRUGV □ □□□9□□□□□□ □ □□□9 127(□□ ,Q WKH YROWDJH LQSW VSHFLILFDWLRQ□ WKH GDWD ELWV GR QRW EHRPH □ ZKHQ WKHUH LV DQ RSHQ FLUFXLW EHWZHHQ WKH LQSW WHUPLQDOV□ □7KH\ EHRPH LQGHWHUPLQDWH EHWZHHQ □ DQG □□□□ □□ ,W LV UHFRPPHQGHG WKDW XQXVHG FKDQQHOV DUH VKRUWHG EHWZHHQ WKH LQSW WHUPLQDOV□ HTXHQFH &RQWUROOHU □7...

[Page 108](#) °)□&□□□ Ω Ω ° ° ° Ω &+□ &+□ 5HJXODWR 3□□9GF □ □ □□□9 &20 6 'HWHFWLRQ RI ðó ORZHULQJ H[WHUQDO SRZHU &+□ &+□ ,VRODWH H[WHUQDO SRZHU &+□ VXSSO\ OLQH □□□9GF IURP RWKHU VLJQDO OLQHV□ &+□ &+□ &+□ &+□ 8VH VKLHOGHG WZLVWHG□ &+□...

[Page 109](#) KDSW□□ 6SHFLILFDWLRQV □' &RQYHUVLRQ +□□□□ □□□□□□ 'DWD IRUPDW □,QSW □ZRUGV 127()RU GHWHLOV□ UHIHU WR WKH VHSUDUDWH PDXQDO □+LJK)XQFWLRQ QDORJ ORGXOH 8VHU¶V ODQXDO□□ Ô D %LSRODU PRGH E %LSRODU PRGH 'LJLWDO 9DOXH 'LJLWDO 9DOXH □□□9 +□'□□ □□□□□ +□)) +□)) □□□□□ □□□□□ \$QDORJ 9DOXH...

[Page 110](#))□&□□□ Ω Ω ° ° ° Ω • • • • 3KRWR□ &RQYHUWHU UDQVIRUPHU)RU &XUUHQW ,QSW □□□9 ' &□ & □□□9 8VH VKLHOGHG WZLVWHG□ SLDU FDEOHV IRU DQDORJ VLJQDOV□ DQG JURXQG WKH VKLHOGV VHFUXHO\□ 6KLHOGV □□ ,□2 ORGXOH 6SHFLILFDWLRQ Ω Ω ' &□9...

[Page 111](#) KDSW□□ 6SHFLILFDWLRQV DWD)RUPDW □,QSW □ ZRUGV □\$ □□□6 □\$ □□□6 HTXHQFH &RQWUROOHU □7...

[Page 112](#))□&□□□ ° Ω ° ° ° Ω 5HIHUHQF H YROWDJH &+□ &+□ &+□ □ &+□ 5HJXODWRU 3□□9GF □□□9 □ □ &2 0 ([WHUQDO SRZHU VXSSO\ Y ROWDJH GURS GHWHFWLRQ &+□ &+□ ,VRODWH H[WHUQDO SRZHU &+□ VXSSO\ OLQH □□□9GF &+□ IURP RWKHU VLJQDO OLQHV□ &+□ &+□...

[Page 113](#) KDSW□□ 6SHFLILFDWLRQV □' &RQYHUVLRQ □□ □□□9 +) □ 'DWD IRUPDW □,QSW □ZRUGV 127()RU GHWHLOV□ UHIHU WR WKH VHSUDUDWH PDXQDO □+LJK)XQFWLRQ QDORJ ORGXOH 8VHU¶V ODQXDO□□ 'LJLWDO 9DOXH □□ P9 +□)) □□□□□ \$QDORJ 9DOXH □□□□□9 □□ □□□□□9 □□ □□□□□9 +& □□□□□□ □□ P9 'LJLWDO 9DOXH...

[Page 114](#) &+□ □& &+□ □&)□&□□□ ° ° ° ° ° &XUUHQW VRXUFH 5HIHUHQFH UHVLVWHU 5HIHUHQFH UHVLVWHU 6KLHOGHG WZLVWHG□SDUFDEOH 3W □□ & 3W □□ □& 3W □□ □& 3W □□ □& □□ ,□2 ORGXOH 6SHFLILFDWLRQ '\$& 3& %UHDNDJH 3& GHWHFWLRQ Û '&□&...

[Page 115](#) KDSW□□ 6SHFLILFDWLRQV □' &RQYHUVLRQ 'DWD IRUPDW □,QSW □ZRUGV ;:Q : ;:Q□□ : ;:Q□□ : ;:Q□□ : 127()RU GHWHLOV□ UHIHU WR WKH VHSUDUDWH PDXQDO □+LJK)XQFWLRQ QDORJ ORGXOH 8VHU¶V ODQXDO□□ □□□□ □ □□ □□□□ □□□□ Ô \$ 5HVLVWDQFH 7HPSHURWXUH □□ \$□□□□□ □□□ \$□□□□ '□□ '□□ '□□ '□□ \$QDORJ LQSW YKOH□ FKDQQHO □

PRGXOH QSXW PRGXOH >P\$@ HTXHQFH &RQWUROOHU 7...

[Page 130](#) 3UHFDXWLRQV IRU '& ,QSW 0RGXOHV 7ZR ZLUH SUR[LPLW VZLWFK ,QSW PRGXOH &DEOH UHVLVWDQFH 5 6HQVRU &DEOH UHVLVWDQFH 5 &20 Ω)&...

[Page 131](#) KDSW 3UHFDXWLRQV IRU ,2 0RGXOHV ,I G\QDPLF VFDQ LQSW LV FRQILJXUHG XVLOJ D '& LQSW PRGXOH DQG D '& RXWSXW PRGXOH LQ DGGLWLRQ WR WKH UHVSQRVHG\GHOD\ RI RXWSXW DQG LQSW FRQVLGHU WKH GLIIHUHQFH RI WLPLQJ FDXVHG E\ WKH 67 VFDQ 0RUHRYHU GLRGHV PXVW EH LQVWDOOHG WR SUHYHQW HUURQHRXV LQSW FDXVHG E\ GHWRXU FLUFXLW WKH x...

[Page 132](#) \$& RXWSXW W\SH VHQRU)& ≥ → ≥ → %OHHGHU UHVLVWRU /HDNDJH FXUUHQW DW 2)) Ω x x > Ω + Ω] Ω → Ω x φ Ω >9@ 6HQVRU RXWSXW ORDG FXUUHQW 3UHFDXWLRQV IRU \$& ,QSW 0RGXOHV QSW PRGXOH Ω...

[Page 133](#) KDSW 3UHFDXWLRQV IRU ,2 0RGXOHV (OHFWURVWDWLF FRXSOLQJ ,I WKH \$& OLQHV DUH LQVWDOOHG LQ SDUDOOHO ZLWK KLJK IUHTXHQF\ RU SRZHU OLQHV LQGXFHG FXUUHQW PD\ FDXVH HUURQHRXV LQSW ,Q WKLV FDVH WDNH QHFHVVDU\ FRXQWUHPHDVXUH DV IROORZV &KDJH WKH LQVWDOODWLRQ URXWH RI \$& LQSW OLQHV VR WKDW WKH\ DUH QRW SDUDOOHO ZLWK SRZHU OLQHV DQG KLJK IUHTXHQF\ OLQHV ...

[Page 134](#) \SH RI PRGXOH '2'3 SRLQW RXWSXW '2'2 SRLQW RXWSXW)& 3URWHFWLRQ \$ IXVH RI \$ SHU FRPPRQ SRLQW LV EXLOW LQ WKLV '& RXWSXW PRGXOH)RU DQ RYHUORDG DQG ORDG VKRUW FLUFXLW WKH WUDQVLVWRU ZLOO QRW EH SURWHFWHG KLV IXVH KRZHYHU SURWHFW WKH '& RXWSXW PRGXOH DQG WKH H[WHUQDO FDEOH IURP EXUQRXW KH ORDG VKRUW FLUFXLW HWF\ ZLOO FDXVH EXUQRXW RI WKH PRGXOH DQG H[WHUQDO FDEOH EHFDXVH D SURWHFWLRQ IXVH LV QRW EXLOW LQ WKLV '&...

[Page 135](#) KDSW 3UHFDXWLRQV IRU ,2 0RGXOHV '& 2XWSXW PRGXOH &20 SRZHU VXSSO\ VKRXOG EH EDVLFDOO\ XVHG IRU 3 DQG 3 ,Q WKH DERYH FDVH LQVHUW D GLRGH IRU SUHYHQWLQJ D EDFN FXUUHQW LQ WKH SRVLWLRQ VR WKDW D EDFN FXUUHQW LV SUHYHQWHG IURP IORZLQJ LQWR 3 &DVH ! :KHQ WKH SRZHU FDEOH FRQHFWHG WR WKH 3 WHUPLQDO LV FXW RI H[WHUQDO ORDG PD\ EH GULYHQ EHFDXVH WKH ORDG FXUUHQW RI 2)) RXWSXW...

[Page 136](#))& 3UHFDXWLRQV IRU '& 2XWSXW 0RGXOHV UDQVLVWRU 2XWSXW PRGXOH Ω μ...

[Page 137](#) KDSW 3UHFDXWLRQV IRU ,2 0RGXOHV \$& RXWSXW PRGXOH LGLUHFWRQDO RYHUROWDJH DEVRUSWLRQ HOHPHQW ZLWK D UDWHG YROWDJH RI DSSUR\ WLPV RI WKH PD\ YROWDJH SHDN YROWDJH 5: '& UHVLVWDQFH YDOXH RI WKH ORDG &) → → 6XUJH DEVRUSWLRQ HOHPHQW , SHDN YDOXH RI ORDG FXUUHQW LQ RUGLQDU\ WLPH HTXHQFH &RQWUROOHU 7...

[Page 138](#) 7KH UHOD\ RXWSXW PRGXOH IRU GULYLQJ UHOD\)RU GHWDLOV VHH ,2 PRGXOH VSHFLILFDWLRQ %HFDXVH WKH UHOD\ RXWSXW PRGXOH GRHV QRW KDYL D EXLOW LQ IXVH WR SURWHFW IURP RYHUFXUUHQW LQVWDOO D IXVH DSSURSULDWH WR WKH ORDG FXUUHQW RQ WKH H[WHUQDO ZLUH ,I WKH SURWHFWLYH IXVH LV QRW LQVHUWHG PRGXOH SDWWHUQV FRXOG EH EXUQ RXW ZKHQ D ORDG LV VKRUWHG 7KH UHOD\ RXWSXW PRGXOH GRHV QRW KDYL D EXLOW LQ VXUJH DEVRUSWLRQ HOHPHQW 7R FRQQHFH DQ LQGXFWLYH ORDG DOZD\ LQVWDOO D VXUJH DEVRUSWLRQ HOHPHQW LQ...

[Page 139](#) KDSW 3UHFDXWLRQV IRU ,2 0RGXOHV 8VH D VKLHOGHG WZLVWHG SDLU FDEOH IRU WKH DQDORJ LQSW VLJQDO OLQH DQG ZLUH RYHU WKH PLQLXP GLVWDQFH :LUH WKH JURXGLOJ RI WKH FDEOH VKLHOG RQ WKH DQDORJ LQSW VLGH WKH 67 VLGH 6RPHWLPV RSHUDWLRQ LV PRUH VWDEOH LI WKH ZLULQJ LV DV LQ 6RPHWLPV WKH FRQYHUVLRQ YDOXH DUH XQVWDEOH GHSHQLQJ RQ WKH YROWDJH VWDWH RI WKH H[WHUQDO 9GF SRZHU VXSSO\ ,I WKH FRQYHUVLRQ UHVXOW LV QRW VWDEOH XVH D GHGLFDWHG SRZHU VXSSO\ IRU...

[Page 140](#) 8VH D VKLHOGHG WZLVWHG SDLU FDEOH IRU WKH DQDORJ RXWSXW VLJQDO OLQH DQG ZLUH RYHU WKH PLQLXP GLVWDQFH :LUH WKH JURXGLOJ RI WKH FDEOH VKLHOG RQ WKH ORDG VLGH 6RPHWLPV RSHUDWLRQ LV PRUH VWDEOH LI WKH ZLULQJ

LV DV LQ 6RPHWLPV WKH FRQYHUVLRQ YDOXHV DUH XQVWDEOH GHSHQGLQJ RQ WKH YROWDJH VWDWH RI WKH H[WUHQDO 9GF SRZHU VXSSO\ ,I WKH FRQYHUVLRQ UHVXOW LV QRW VWDEOH XVH D GHGLFDWHG SRZHU VXSSO\ IRU DQDORJ...

[Page 141](#) KDSW\ 3UHFDXWLRQV IRU ,2 ORGXOHV HTXHGFH &RQWUROOHU 7...

[Page 142](#) ° ° ° ° (FHVW WHPSHUDWXUH KXPLGLW\ YLEUDWLRQ VKRFNV RU GXVW DQG FRUURVLYH JDV HQYLURQPHQW FDQ FDXVH HOHFWULFDO VKRFN ILUH RU PDOIXQFWLRQ ,QVWDOO DQG XVH WKH 67 DQG UHODWHG HTXLS PHQW LQ WKH HQYLURQPHQW GHVFULEHG LQ WKLV PDQXDO ,PSURSHU LQVWDOODWLRQ GLUHFWLRQV RU LQVXIIFLHQW LQVWDOODWLRQ FDQ FDXVH ILUH RU WKH XQLWV WR GURS ,QVWDOO WKH 67 DQG UHODWHG HTXLSPHQW LQ DFFRUGDQFH ZLWK WKH LQVWUXFWLRQV GHVFULEHG LQ WKLV PDQXDO)&...

[Page 143](#) KDSW\ ,QVWDOODWLRQ DQG :LULQJ %8(%8 %8 %8 D >PP@ E >PP@ HJJKW >J@ 5HPDUNV 8QGHU GHYHORSPHQW HTXHGFH &RQWUROOHU 7...

[Page 144](#) KHUH DUH WKUHH W\SHV RI PRGXOH VORW ZLGWK PRGXOH VXFK DV WKH 6 &38 DQG GLUHFV ,2V VORW ZLGWK PRGXOH DQG QDUURZ ZLGWK PRGXOH VXFK DV WKH H[SDQVLRQ LQWHUIDFH %DVLFD\ HDFK PRGXOH LV VLPLODU VWUXFWXUH DQG VLPLODU KDQGOLQJ H[FHSW VRFH VSHFLDO PRGXOHV KH PRGXOHV DUH IL[HG WR WKH EDVH ZLWK ERWK XSSHU ORZHU ORFN OHYHUV DQG PRXQWLQJ VFUHZV XUQ SRZHU 2) EHIRUH LQVWDOOLQJ DQG UHPRYLQJ PRGXOHV...

[Page 145](#) KDSW\ ,QVWDOODWLRQ DQG :LULQJ HTXHGFH &RQWUROOHU 7...

[Page 146](#) 7XUQ RII SRZHU RI WKH 67 DQG H[WUHQDO SRZHU VXSSOLHG WR ,2 PRGXOHV 5HPRYH WKH FRYHU RI PRGXOHV 'LVFRQQHFW WKH FDEOHV IURP WKH PRGXOHV ([SDQVLRQ LQWHUIDFH 3RZHU VXSSO\ PRGXOH 6WDWLRQ PRGXOH 67 &38 ZLWKRXW VWDWLRQ EXV ,2 PRGXOHV /RRVHQ WKH VFUHZ DW WKH WRS RI PRGXOH 3XVK WKH XSSHU ORFN OHYHU RI PRGXOH E\ RQH KDQGLQJ...

[Page 147](#) KDSW\ ,QVWDOODWLRQ DQG :LULQJ \$IWHU LQVWDOOLQJ WKH PRGXOHV VHFUXH WKH EDVHV VR WKDW LW FDQ EH PRXQWHG YHUWLFDO\ LQFOXGLQJ ZKHQ LQ WUDQVSRUW ,QVWDOO WKH 67 PRGXOHV SRZHU VXSSO\ &38 GLUHFV ,2V RQ WKH GHGLFDWHG EDVH 'R QRW XVH DQ PRGXOHV RI WKH 67 IRU WKH SXUSRVH RWKHU WKDQ VSHFLILHG 7KLW FDQ FDXVH HOHFWULFDO VKRFN RU LQMXU\)RU VDIHW\ DOZDV WXUQ SRZHU 2) EHIRUH LQVWDOOLQJ DQG UHPRYLQJ PRGXOHV RU LQVWDOOLQJ DQG UHPRYLQJ WHUPLQDO EORFNV...

[Page 148](#) 3XVK WKH PDUN RQ WKH WRS RI PRGXOH FRYHU 5HPRYH WKH FRYHU KDQJLQJ WKH ERWWRP DV VXSSRUWLQJ SRLQW +DQJ WKH ERWWRP KRRN RI WKH FRYHU DW ILUVW DQG ORFN WKH WRS ZKHQ LQVWDOOLQJ 3XVK WKH PDUN RQ WKH ERW WRP RI PRGXOH FRYHU HPRYH WKH FRYHU KDQJLQJ WKH WRS DV VXSSRUWLQJ SRLQW +DQJ WKH WRS KRRN RI WKH FRYHU DW ILUVW DQG ORFN WKH ERWWRP ZKHQ LQVWDOOLQJ...

[Page 149](#) KDSW\ ,QVWDOODWLRQ DQG :LULQJ S WR WKUHH H[SDQVLRQ XQLWV FDQ EH FRQQHFWHG WR WKH 67 EDVLF XQLW 7KH H[SDQVLRQ LQWHUIDFH PRGXOHV DUH PRXQWHG LQ ERWK WKH EDVLF XQLW DQG WKH H[SDQVLRQ XQLWV DQG FRQQHFW HDFK RWKHU ZLWK H[SDQVLRQ FDEOHV 7KLW SURFHGXUH LV VKRZQ DV IROORZV 7XUQ RII WKH SRZHU RI WKH 67 0RXQW WKH H[SDQVLRQ LQWHUIDFH PRGXOHV RQ WKH EDVHV 5HPRYH WKH FRYHU DQG VHW WKH XQLW DGGUHVW WKHQ FRQQHFW WKH H[SDQVLRQ FDEOHV...

[Page 150](#) DGYLVD EOH JURXQGLQJ ZKLFK LV LVRODWHG IURP WKDW RI SRZHU \VWHPV DQG WR FDUU\ RXW VLQJOH SRLQW JURXQGLQJ EHWZHHQ RU PRUH HOHFWURQLF GHYLFHV 7KH 67 LV GHVLJQHG WR DSSO\ WR (0& ZKLFK WDNHV WKH DFWXDO DSSOLFWDWLRQ LQWR DFFRXQW DQG LW KDV D VDWLVIDFWRU\ QRLVH LPPXQLW\ ZLWKRXW SUHFDXWLRQV FRUHFV JURXQGLQJ LV UHFRPPHQGHG IURP WKH YLHZSRLQW RI UHOLDELQW...

[Page 151](#) KDSW\ ,QVWDOODWLRQ DQG :LULQJ *URXQGLQJ RI FRQWURO SDQHO 3RZHU SDQHO PRGHO URXQG FXUUHQW FKDQJH SRZHU SDQHO PRGHO ,VRODWH WKH 67 PRXQWLQJ SDQHO DQG FRQQHFW WR WKH JURXQG SRLQW VHSUDUDWHO\ FKDQJH

SRZHU SDQHO PRGHO ,VRODWH WKH 6 IURP WKH PRXQWLQJ IUDPH DQG FRQQHFW WR WKH JURXQG SRLQW VHSUDUDWHO\ HTXHGFH &RQWUROOHU 7...

[Page 152](#) *URXQGLQJ EHWZHHQ XQLWV &RQQHFW WKH)* WHUPLQDO RI WKH SRZHU VXSSO\ PRGXOH WR WKH XQLW PRXQWLQJ VFUHZ DQG WR WKH JURXQG EDU LQ WKH SDQHO E\ PPP RU ODUJHU ZLUH LQ VKRUWHVW SRVVLEOH GLVWDQFH 8VH D GHGLFDWHG JURXQG IRU WKH FRQWURO FLUFXLW DQG NHHS WKH JURXQG FDEOH DZD\ IURP WKDW IRU KLJKSRZHU V\VVHPV .

[Page 153](#) KDSW ,QVWDOODWLRQ DQG :LULQJ %DVLF XQLW 6KLHOGHG 1RLVH ILOWHU WUDQVIRUPHU 3RZHU 9DF [SDQVLRQ XQLW HTXHGFH &RQWUROOHU 7...

[Page 154](#) 36 9DF ZLWK %DWWHU\ 58 FRQWDFW RXWSXW ,QSWX SRZHU VXSSO\ 9DF 36 9DF 9 RXWSXW WKH SRZHU FRQVXPSWLRQ RI LQWHUQDO 9 DQG 9 RXWSXW PXVW EH OHVV WKDQ : LQ WRWDO \$OVR GR QRW XVH DQRWKHU SRZHU VXSSO\ ,QSWX SRZHU VXSSO\ 9DF /LQH)LOWHU *URXQG 7HUPLQDO /*...

[Page 155](#) KDSW ,QVWDOODWLRQ DQG :LULQJ HTXHGFH &RQWUROOHU 7...

[Page 156](#) D\ DWWHQWLRQ WR WKH IROORZLQJ SRLQWV ZKHQ PRXQWLQJ DQG ZLULQJ WKH ,2 PRGXOHV /RZSRZHU VLJQDO GXFW RZSRZHU V\VVHP ,2 ' & LQSWX PRGXOH \$QDORJ LQSWX PRGXOH \$QDORJ RXWSXW PRGXOH 3XOVH LQSWX PRGXOH 3RVLWLRQLQJ FRQWURO PRGXOH 6HULDO ,QWHUIDFH 7UDQVPLVLRQ PRGXOH 7R LPSURYH WKH XQLW V\VVHP WR VLJQDO LQWHUIHUHQFH LQVWDOO PRGXOHV IRU ORZ YROWDJH VLJQDOV WRZDUG WKH OHIW RI WKH XQLW DQG PRGXOHV IRU SRZHU VLJQDOV WRZDUG WKH ULJKW \$OVR VHSUDUDWH WKH ZLUHV RI HDFK \$OORZ DW OHDVW PP FOHDUDQFH EHWZHHQ WKH XQLWV DQG EHWZHHQ RWKHU FRQWURO...

[Page 157](#) KDSW ,QVWDOODWLRQ DQG :LULQJ 7KH 0 VFUHZ LV XVHG DV D WHUPLQDO VFUHZ 8VH DQ DSSURSULDWH FULPS\WH WHUPLQDO ZLWK D ZLGWK RI PP PPP LQ RU OHVV IRU WKH 0 VFUHZ 'R QRW EOLQG WKH ,2 VLJQDO FDEOHV DQG KLJKYROWDJH RU SRZHU FDEOHV 6HSDUDWH WKHP DV IDU DV SRVVLEOH ,I VHSUDUDWLRQ LV GLIILFXOW XVH VKLHOGHG FDEOHV IRU WKH ,2 VLJQDOV DQG JURXQG WKH VKLHOG DW WKH OHDGLQJ LQ SRLQW RI WKH FRQWURO SDQHO 3DW DWWHQWLRQ WR 6HFWLRQ ,2 3UHFDXWLRQV IRU ,2 PRGXOHV...

[Page 158](#) QH WR RQH FRQILJXUDWLRQ ODVWHU FRPSXWHU & 6 & ' 56 & PD)& 56 & 56 FRQYHUWHU \$'3 % & 6 & ' 56 PD [NP SLQ HUPLQDO FRQQHFWRU EORFN :LULQJ RI WKH FRPSXWHU OLQN HUPLQDO EORFN...

[Page 159](#) KDSW ,QVWDOODWLRQ DQG :LULQJ QH WR 1 FRQILJXUDWLRQ 2Q WKH 67 UHPRYDEOH WHUPLQDO EORFN LV SURYLGHG IRU FDEOH FRQQHFWLRQ &RQQHFW WHUPLQDWLRQ UHVLVWRU 7;\$ DQG 7;% DW WKH ERWK WHUPLQDO VWDWLRQV VKLHOGHG VWDQGDUG 7KH FDEOH VKLHOG VKRXOG EH FRQQHFWHG WR VLQJOH SRLQW JURXQG .

[Page 160](#) XUQ RQ SRZHU RU WXUQ RII SRZHU RI WKH 6 DFFRUGLQJ WR WKH IROORZLQJ VHTXHGFH VR WKDW WKH 6 LV XVHG VDIHO\ DQG VHFUHO\ 3RZHU XS VHTXHGFH 7XUQ RQ WKH 6 V SRZHU XUQ RQ SRZHU RI WKH 6 DW ILUVW :KHQ XVLQJ H[SDQVLRQ XQLWV DUUDQJH IRU SRZHU WR EH VXSSOLHG VLPXOWDQHRXVO\ WR WKH EDVLF XQLW DQG WKH H[SDQVLRQ XQLWV 8VH WKH VDPH SRZHU OLQHV IRU WKHP ,I LW LV GLIILFXOW WXUQ RQ SRZHU RI WKH H[SDQVLRQ XQLWV EHIRUH WXULQJ RQ WKDW RI WKH...

[Page 161](#) KDSW ,QVWDOODWLRQ DQG :LULQJ RQILJXUH HPHUJHF\ VWRS DQG VDIHW\ LQWHUORFNLQJ FLUFXLWV RXW RI WKH 6 DJDLQVW IDXOW\ RI WKH 6 RU EUHDNLQJ ZLUHV (PHUJHF\ VWRS FLUFXLW 6DIHW\ LQWHUORFNLQJ FLUFXLW IRUZDUG DQG UHYHUVH HWF RQILJXUH HPHUJHF\ VWRS DQG VDIHW\ LQWHUORFNLQJ FLUFXLWV RXWVLGH WKH 6 2WKHUZLVH PDOIXQFWLRQ RI WKH 6 FDQ FDXVH LQMXU\ RU VHULRXV DFFLGHQWV WUDQVIRUPHU)

[Page 162](#) R PDLQWDLQ WKH V\VVHP DQG WR SUHYHQW WURXEOHV FKHFN WKH IROORZLQJ SRLQWV RQ GDLO\ EDVLP KHFN WKDW WKH LQSWX WHP LQDO EORFN LV QRW ORRVH)&...

[Page 163](#) KDSW 0DLQWHQDQFH DQG KHFNLQJ KHFN WKH 6 EDVHG RQ WKH IROORZLQJ SRLQWV HYHU\ VL[PRQWKV \$OVR SHUIRUP FKHFNV ZKHQ WKH RSHUDWLQJ HQYLURQPHQW LV FKDJHG HTXHQFH &RQWUROOHU 7...

[Page 164](#) 0DLQWHQDQFH SDUWV R UHFYHU IURP IDLOXUH TXLFNO\ LW LV UHFRRPHQGHG WR NHHS WKH IROORZLQJ VSDUH SDUWV °)&...

[Page 165](#) KDSW 0DLQWHQDQFH DQG KHFNLQJ HTXHQFH &RQWUROOHU 7...

[Page 166](#) ,QVHUW WKH EDWWHU\ PRGXOH LQ WKH EDWWHU\ SRFNHW DORQJ WKH JXLGH :ULWH WKH LVWDOOHG GDWH RQ WKH VKHHW +RRN WKH SDUW RQ WKH ULJKW HQG RI WKH EDWWHU\ FRYHU RQ WKH PRGXOH DQG KROG WKH OHIW HQG WR PRXQW WKH FRYHU)& %DWWHU\ 5HSODFPHQW...

[Page 167](#) KDSW 0DLQWHQDQFH DQG KHFNLQJ LVSRVH RI WKH EDWWHU\ LQ WKH VDPH ZD\ DV JHQHUDO SXUSRVH GU\ EDWWHULHV 7KHUH LV D ULVN RI H[SORVLRQ LI GLVPDQWOHG RU EXUQW ,I WKH DQG RI D OLWKLXP EDWWHU\ DUH DOORZHG WR VKRUW WKLW PD\ OHDG WR LJQLWLQJ DQG IXPHV RQ QRW FXW WKH OHDG ZLUHV DQG GR QRW GLVPDQWOH WKH FRQHFWRUV)RUELGGHQ...

[Page 168](#) KH IROORZLQJ PRGXOHV KDYH EXLOW LQ SURWHFWLRQ IXVHV\ SH RI PRGXOH '& RXWSXW'2'2'3 \$& RXWSXW\$& KH \$& DQG '& SRZH VXSSO\ PRGXOHV KDYH D EXLOW LQ SURWHFWLYH IXVH WR SUHYHQW EXUQ RXW RI LQWHUQDO FLUFLWV RI WKH PRGXOHV 2YHU ORQJ WHUP XVH 212)) FKDJHV RI WKH SRZHU PD\ FDXVH IDWLJXH FKHFN WKH IXVH SHULRGLFDOO\ KH DYRYH RXWSXW PRGXOHV KDYH SURWHFWLYH IXVHV WR SUHYHQW WKHLU LQWHUQDO FLUFXLWV IURP EXUQRXW ZKHQ VKRUW FLUXOW RFFXU...

[Page 169](#) KDSW 0DLQWHQDQFH DQG KHFNLQJ HTXHQFH &RQWUROOHU 7...

[Page 170](#) I D WURXEOH RFFXUV GHWHUPLQH ZKHWKHU WKH FDXVH OLHV RQ WKH PHFKDQLFDO VLGH RU RQ FRQWURO VVWHP WKHUHIRUH WU\ WR GHWHUPLQH WKH FDXVH RI WKH WURXEOH E\ FRQLGHULQJ WKH ZKROH VVWHP I WKH SUREOHP LV IRXQG LQ WKH 6 RU LQ WKH 67V SRLQW 7KH 32:5 /(' RI WKH SRZHU VXSSO\ PRGXOH LV OLW...

[Page 171](#) KDSW 7URXEOHVKRRWLQJ 7XUQ RII SRZHU EHIRUH LQVWDOOLQJ RU UHPRYLQJ DQ\ XQLWV PRGXOHV UDFNV RU WHUPLQDO EORFNV)DLOXUH WR GR VR FDO FDXVH HOHFWULFDO VKRFN RU GDPDJH WR WKH 6 DQG UHODWHG HTXLSPHQW &KHFN E\ UHIHUUHQJ '7URXEOHVKRRWLQJ' VHFWRQ RI WKLW PDQXDO ZKHQ RSHUDWLQJ LPSURSHUO\ &RQWDFW 7RVKLED IRU UHSDLULQJ LI WKH 6 RU UHODWHG HTXLSPHQW LV IDLOHG 7RVKLED ZLOO QRW JXDUDQWHH SURSHU RSHUDWLQJ QRU VDIHW\ IRU XQDXWKRULJHG UHSDLULQJ HTXHQFH &RQWUROOHU 7...

[Page 172](#) &KHFNLQJ WKH SRZHU VXSSO\ I WKH 32:5 /(' LQ WKH IURQW RI WKH SRZHU VXSSO\ PRGXOH GRHV QRW OLJKW DIWHU SRZHU 21 FKHFN WKH IROORZLQJ SRLQWV :KHQ FDUU\LQJ RXW WKH DERYH FKHFNV DOZDV FKHFN HDFK VWHS DIWHU VZLWFKLQJ WKH SRZHU VXSSO\ 2)) DJDLQ)&...

[Page 173](#) KDSW 7URXEOHVKRRWLQJ KHQ WKH 32 (5 /(' RI WKH SRZHU VXSSO\ PRGXOH LV OLW EXW WKH 581 /(' RI WKH &38 PRGXOH LV RXW FKHFN WKH IROORZLQJ LWHPV HTXHQFH &RQWUROOHU 7...

[Page 174](#) KHFN WKH SURJUDP EDVHG RQ WKH IROORZLQJ SRLQWV LI LW LV UXQQLQJ EXW WKH RSHUDWLQJ GRHV QRW ZRUN DV LQWHQGHG 2XWSXW LV QRW FDUULHG RQ WKH VDPH FRLO RU UHJLVWHU RU YDULDEOH RI WZR RU PRUH ORFDWLRQV GXULQJ RQH VFDQQLQJ WKH GHYLFHV RU YDULDEOHV IRU FRLO LQVWUXFWLRQV DQG IRU IXQFWLRQ LQVWUXFWLRQV DUH QRW RYHUODSSLQJ 7KH VLQDO ZKLFK FKDJHV IDVWHU WKDQ WKH VFDQQLQJ FFOH LV QRW LQSXW 7KH LQVWQDFH QDPH DV WLPHFRXQWHU LQVWUXFWLRQ LV QRW GXSOLFDWHG...

[Page 175](#) KDSW 7URXEOHVKRRWLQJ I WKH SURJUDP LV UXQQLQJ EXW WKH LQSXW VLQDO LV QRW UHGD QRUPDOO\ FKHFN WKH IROORZLQJ SRLQWV 7KH /(' RI WKH LQSXW PRGXOHV WXUQ 212)) ZKHQ DQ H[WHUQDO HTXLSPHQW LV WXUQH 212)) 7KH

LQVWDOODWLRQ VWDWXV RI ,2 PRGXOHV DQG WKH VWDWXV RI ,2 DOORFDWLRQV RQ WKH FRQILJXUDWLRQ HGLWRU RI WKH HQJLQHULQJ WRRO DUH...

[Page 176](#) KHQ WKHUH LV D SUREOHP ZLWK WKH DFWXDO RSHUDWLRQ RI RXWSXW HTXLSPHQW DOWKRXJK FRU\ UHFWO\ RXWSXWWLQJ WR UHJLVWHUV DQG YDULDEOHV RQ WKH SURJUDP\ FDUU\ RXW WKH IROORZLQJ LQ SUHSDUDWLRQ IRU FKHFNV\ 6DYH WKH SURJUDP\ ,Q D +' 02 &'520 '9'5\$0 HWF &OHDU WKH &38 PHPRU\ 3XW WKH 520\$0 VKLIW VZLWFK WR 5\$0 21 \$IWHU PDNLQJ WKH DERYH SUHSDUDWLRQV\ FDUU\ RXW FKHFNV LQ WKH IROORZLQJ VHTXHQFH...

[Page 177](#) KDSW\ 7URXEOHVKRRWLQJ KHQ D SUREOHP ZLWK WKH 67 V\WHP RFFXUV DV RQH RI WKH IROORZLQJ SKHQRPHQD\ H[WHUQDO IDFWRUV VKRXOG EH VXSHFWHG\ ,I DQ DEQRUPDOLW\ RFFXUV \QFKURQRXVO\ ZLWK WKH RSHUDWLRQ RI ,2 HTXLSPHQW\ 7KH QRLVH FDXVHG DW 212)) RI WKH RXWSXW HTXLSPHQW PD\ EH WKH VRXUFH RI WKH DEQRUPDOLW\ 7DNH QHFHVVDU\ PHDVXUHV PHQWLRQHG LQ 6HFWLRQ 3UHFDXWLRQV IRU ,2 PRGXOHV\ ,I DQ DEQRUPDOLW\ RFFXUV \QFKURQRXVO\ ZLWK WKH RSHUDWLRQ RI VXUURXQGLQJ...

[Page 178](#))&...

[Page 179](#) HTXHGFH &RQWUROOHU 7...

[Page 180](#) QWHJUDWHG &RQWUROOHU VHULHV PRGHO 6HTXHGFH &RQWUROOHU 67 8VHU V ODQXDO %DVLV +DUGZDUH\ QG HGLWLRQ\ WK\)HEUXDU\ ...

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