## Electrical Test Program - Survey of Electrical Limit Switch Signals

Operational Sequence: Opening Soft Top

| Limit switches engaged | Soft top compartment cover |  |  | Soft top |  |  | Fabric bow |  |  | Roll bar <br> retracted | Side windows <br> down |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | locked | closed | open | locked | up | open | locked | closed | raised |  |  |
|  | A24s2 <br> A25s2 | A24s1 <br> A25s1 | S84/5 | $\begin{aligned} & \mathrm{S} 84 / 1 \\ & \mathrm{~S} 84 / 2 \end{aligned}$ | S84/4 | S84/3 | $\begin{aligned} & \mathrm{A} 22 \mathrm{~s} 2 \\ & \mathrm{~A} 23 \mathrm{~s} 2 \end{aligned}$ | $\begin{aligned} & \mathrm{A} 22 \mathrm{~s} 1 \\ & \mathrm{~A} 23 \mathrm{~s} 1 \end{aligned}$ | S84/6 | S83/1 | $\begin{aligned} & \mathrm{S} 21 / 9 \\ & \mathrm{~S} 21 / 8 \end{aligned}$ |
| Connection Diagram - Socket Box (Y) ( 22, Figure 2) <br> Control module in diagnostic mode 22 | $Y$ $\square$ $\begin{array}{ll} \perp & 20 \\ \perp & 21 \end{array}$ | $\begin{array}{ll} \hline Y & \text { We:" } \\ \perp & 25 \\ \perp & 26 \end{array}$ | $Y \mid$ $\square$ $\perp \quad 30$ |  | $Y$ $\square$ $\perp \quad 28$ | $Y$ $\square$ $\perp \quad 27$ | $\begin{aligned} & Y=\% \pi \\ & \perp \\ & \perp \\ & \perp \\ & \perp \end{aligned}$ | $\left\lvert\, \begin{array}{ll} Y & 23 \\ \perp & 24 \end{array}\right.$ | $Y$ $\square$ $\perp \quad 29$ | $\begin{aligned} & \mathrm{Y}=: \%: \pi \\ & \perp \quad 31 \end{aligned}$ | $\begin{aligned} & Y=\% \times \pi \\ & \perp \\ & \perp \\ & \perp \\ & \hline \end{aligned}$ |
| Roll bar retracted, side windows down | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V |
| Fabric bow unlocked | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V |
| Fabric bow raised | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top compartment cover unlocked | 11-14 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top compartment cover open | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top unlocked in front | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top open | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 0-1 V | $11-14 \mathrm{~V}$ | $11-14 \mathrm{~V}$ | $11-14 \mathrm{~V}$ | 0-1 V | 0-1 V | 0-1 V |
| Soft top retracted into soft top compartment | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top compartment cover closed | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top compartment cover locked | 0-1 V | 0-1 V | $11-14 \mathrm{~V}$ | 11-14 V | $11-14 \mathrm{~V}$ | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Roll bar up, side windows up | 0-1 V | 0-1 V | $11-14 \mathrm{~V}$ | 11-14 V | $11-14 \mathrm{~V}$ | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V |

Electrical Test Program - Survey of Electrical Limit Switch Signals

## Operational Sequence: Closing Soft Top

| Limit switches engaged | Soft top compartment cover |  |  | Soft top |  |  | Fabric bow |  |  | Roll bar <br> retracted | Side windows <br> down |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | locked | closed | open | locked | open | up | locked | closed | raised |  |  |
|  | A24s2 <br> A25s2 | A24s1 <br> A25s1 | S84/5 | $\begin{aligned} & \text { S84/1 } \\ & \text { S84/2 } \end{aligned}$ | S84/4 | S84/3 | $\begin{aligned} & \text { A22s2 } \\ & \text { A23s2 } \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{A} 22 \mathrm{~s} 1 \\ \mathrm{~A} 23 \mathrm{~s} 1 \end{array}$ | S84/6 | S83/1 | $\begin{aligned} & \mathrm{S} 21 / 9 \\ & \mathrm{~S} 21 / 8 \end{aligned}$ |
| Connection Diagram - Socket Box (Y) ( 22, Figure 2) <br> Control module in diagnostic mode 22 | $Y$ $\square$ $\begin{array}{ll} \perp & 20 \\ \perp & 21 \end{array}$ | $\begin{array}{ll} \hline Y & \text { Om:m } \\ \perp & 25 \\ \perp & 26 \end{array}$ | $\mathrm{Y}$ $\square$ $\perp \quad 30$ | $\begin{array}{ll} \hline Y & \text { Wem: } \\ \perp & 16 \\ \perp & 17 \end{array}$ | $\mathrm{Y}$ $\square$ $\perp \quad 28$ |  | $Y$ $\square$ $\begin{array}{ll} \perp & 18 \\ \perp & 19 \end{array}$ | $\begin{array}{ll} \hline Y & \text { \#\#m: } \\ \perp & 23 \\ \perp & 24 \end{array}$ | $\mathrm{Y}$ $\square$ $\perp \quad 29$ |  | $\begin{array}{ll} \hline Y & \text { Wem: } \\ \perp & 10 \\ \perp & 22 \end{array}$ |
| Roll bar retracted, side windows down | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top compartment cover unlocked | 11-14 V | 11-14 V | 11-14 V | 11-14 V | $11-14 \mathrm{~V}$ | 0-1 V | 11-14 V | $11-14 \mathrm{~V}$ | 0-1 V | 0-1 V | 0-1 V |
| Soft top compartment cover open | $11-14 \mathrm{~V}$ | $11-14 \mathrm{~V}$ | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top open (out of soft top compart.) | $11-14 \mathrm{~V}$ | $11-14 \mathrm{~V}$ | 0-1 V | $11-14 \mathrm{~V}$ | 11-14 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top closed (Differential) | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top locked in front | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Soft top compartment cover closed | $11-14 \mathrm{~V}$ | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V |
| Soft top compartment cover locked | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V | 0-1 V |
| Fabric bow raised | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V |
| Fabric bow locked | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V |
| Roll bar up, side windows up | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 0-1 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V |

Electrical Test Program－Survey of Electrical Limit Switch Signals

## Operational Sequence：Hardtop Locking

| Limit switches engaged | Soft top compartment cover |  |  | Soft top |  |  | Fabric retention bow |  |  | Roll bar <br> retracted | Side windows down |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | locked | closed | open | locked | open | up | locked | closed | raised |  |  |
|  | A24s2 <br> A25s2 | $\begin{aligned} & \mathrm{A} 24 \mathrm{~s} 1 \\ & \mathrm{~A} 25 \mathrm{~s} 1 \end{aligned}$ | S84／5 | $\begin{aligned} & \mathrm{S} 84 / 1 \\ & \mathrm{~S} 84 / 2 \end{aligned}$ | S84／4 | S84／3 | $\begin{aligned} & \text { A22s2 } \\ & \text { A23s2 } \end{aligned}$ | $\begin{aligned} & \text { A22s1 } \\ & \text { A23s1 } \end{aligned}$ | S84／6 | S83／1 | $\begin{aligned} & \mathrm{S} 21 / 9 \\ & \mathrm{~S} 21 / 8 \end{aligned}$ |
| Connection Diagram－Socket Box（Y） （ 22，Figure 2） <br> Control module in diagnostic mode 22 | $Y$ $\square$ $\begin{array}{ll} \perp & 20 \\ \perp & 21 \end{array}$ | $\begin{array}{ll} \hline Y & 25 \\ \perp & 26: \% \\ \hline \perp & 26 \end{array}$ | $\begin{aligned} & \mathrm{Y}=\% \text { 華 } \\ & \perp \quad 30 \end{aligned}$ | $\begin{aligned} & \hline \mathrm{Y} \text { Wm:m } \\ & \perp \\ & \perp \\ & \perp \\ & \perp \end{aligned}$ | $Y$ $\square$ $\perp \quad 28$ | $\begin{aligned} & \mathrm{Y} \text { \#\#:" } \\ & \perp \quad 27 \end{aligned}$ | $\begin{aligned} & \hline Y \text { Wem: } \\ & \perp \\ & \perp \\ & \perp \\ & \hline \end{aligned}$ | $\begin{array}{ll} \hline \mathrm{Y} & \mathrm{Omm} \\ \perp & 23 \\ \perp & 24 \end{array}$ | $Y$ $\square$ $\perp \quad 29$ |  | $\begin{aligned} & \hline Y \text { Om: } \\ & \perp \\ & \perp \\ & \perp \\ & \perp \end{aligned}$ |
| Rear locks（locked） | 0－1 V | 0－1 V | 11－14 V | 11－14 V | 11－14 V | 0－1 V | 0－1 V | 0－1 V | 0－1 V | 0－1 V | 11－14 V |
| Front locks（locked） | 0－1 V | 0－1 V | 11－14 V | 0－1 V | 11－14 V | 0－1 V | 0－1 V | 0－1 V | 0－1 V | 0－1 V | 11－14 V |

Operational Sequence：Hardtop Unlocking

| Limit switches engaged | Soft top compartment cover |  |  | Soft top |  |  | Fabric retention bow |  |  | Roll bar <br> retracted | Side windows <br> down |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | locked | closed | open | locked | open | up | locked | closed | raised |  |  |
|  | $\begin{aligned} & \text { A24s2 } \\ & \text { A25s2 } \end{aligned}$ | A24s1 A25s1 | S84／5 | $\begin{array}{\|l\|} \hline \text { S84/1 } \\ \text { S84/2 } \end{array}$ | S84／4 | S84／3 | $\begin{aligned} & \text { A22s2 } \\ & \text { A23s2 } \end{aligned}$ | $\begin{array}{\|l} \mathrm{A} 22 \mathrm{~s} 1 \\ \text { A23s1 } \end{array}$ | S84／6 | S83／1 | $\begin{aligned} & \text { S21/9 } \\ & \text { S21/8 } \end{aligned}$ |
| Connection Diagram－Socket Box（Y） （ 22，Figure 2） <br> Control module in diagnostic mode $22$ | $\begin{aligned} & \hline \mathrm{Y}=\% \\ & \perp \quad 20 \\ & \perp \quad 21 \end{aligned}$ | $\begin{array}{ll} \hline Y & \text { Om:\# } \\ \perp & 25 \\ \perp & 26 \end{array}$ | $\mid \mathrm{Y}$ $\square$ $\perp 30$ | $\begin{array}{ll} \hline Y & \text { Om:\# } \\ \perp & 16 \\ \perp & 17 \end{array}$ | $Y$ $\square$ $\perp \quad 28$ | $Y$ $\square$ $\perp \quad 27$ | $\begin{array}{ll} \hline Y & \text { \#mem } \\ \perp & 18 \\ \perp & 19 \end{array}$ | $\begin{array}{ll} \hline Y & \text { \%men } \\ \perp & Y 23 \\ \perp & 24 \end{array}$ | $\mathrm{Y}$ $\square$ $\perp \quad 29$ | $\begin{aligned} & \mathrm{Y} \text { : } \\ & \perp \quad 31 \end{aligned}$ |  |
| Front（unlock） | 0－1 V | 0－1 V | 11－14 V | 11－14 V | 11－14 V | 0－1 V | 0－1 V | 0－1 V | 0－1 V | 0－1 V | 11－14 V |
| Rear（unlock） | 0－1 V | 0－1 V | 11－14 V | 11－14 V | 11－14 V | 0－1 V | 11－14 V | 0－1 V | 0－1 V | 0－1 V | $11-14 \mathrm{~V}$ |

