## 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 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| When testing with HHT | locked | up | locked | closed | up | locked | closed | raised | lowered |
| Open corresponds to 11-14V |  |  |  |  |  |  |  |  |  |
| Closed corresponds to $0-1 \mathrm{~V}$ | A25s2 | S84/5 | $\begin{aligned} & \mathrm{S} 84 / 1 \\ & \mathrm{~S} 84 / 2 \end{aligned}$ | S84/4 | S84/3 | $\begin{array}{\|l\|} \mathrm{A} 22 \mathrm{~s} 2 \\ \mathrm{~A} 23 \mathrm{~s} 2 \end{array}$ | A22s1 | S84/6 | S83/1 |
| Connection Diagram - Socket Box to Connector (X2) ( 22, Figure 2) <br> Control module in diagnostic mode 22 |  |  |  |  |  |  |  | $\begin{array}{ll} \text { X2 } & \text { \#!ent } \\ \perp & 44 \end{array}$ |  |
| Roll bar retracted, side windows down | 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 |
| Fabric bow unlocked | 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 |
| Fabric bow raised | 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 |
| Soft top compartment cover unlocked | 11-14 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 |
| Soft top compartment cover open | 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 |
| Soft top unlocked in front | 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 |
| Soft top open | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V |
| Soft top retracted into soft top compartment | 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 |
| Soft top compartment cover locked | 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 |
| Roll bar up, side windows up | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 0-1 V | 11-14 V |

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| When testing with HHT | locked | up | locked | closed | open | locked | closed | raised | lowered |
| Open corresponds to 11-14V |  |  |  |  |  |  |  |  |  |
| Closed corresponds to $0-1 \mathrm{~V}$ | A25s2 | S84/5 | $\begin{aligned} & \text { S84/1 } \\ & \text { S84/2 } \end{aligned}$ | S84/4 | S84/3 | $\begin{aligned} & \text { A22s2 } \\ & \text { A23s2 } \end{aligned}$ | A22s1 | S84/6 | S83/1 |
| Connection Diagram - Socket Box to Connector (X2) ( 22, Figure 2) <br> Control module in diagnostic mode 22 | $\begin{aligned} & \hline \text { X2 } \\ & \perp \\ & \perp \end{aligned}$ |  |  | $\begin{aligned} & \hline \text { X2 } \\ & \hline \perp \quad 29 \end{aligned}$ | $\begin{aligned} & \hline \text { X2 } \\ & \hline \perp \quad 46 \\ & \perp \end{aligned}$ | $\begin{array}{\|ll\|} \hline \text { X2 } & \text { \#!nel } \\ \perp & 28 \\ \perp & 45 \end{array}$ | $\begin{aligned} & \hline \text { X2 } \% \text { 㤟 } \\ & \perp \\ & \perp \end{aligned}$ | $\begin{aligned} & \hline \text { X2 } \\ & \hline \perp \quad 44 \\ & \hline \end{aligned}$ |  |
| Roll bar retracted, side windows down | 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 |
| Soft top compartment cover unlocked | 11-14 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 |
| Soft top compartment cover open | 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 |
| Soft top out of soft top compartment | 11-14 V | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V |
| Soft top closed (differential operation) | 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 |
| Soft top locked in front | 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 |
| Soft top compartment cover locked | 0-1 V | 11-14 V | $0-1 \mathrm{~V}$ | 0-1 V | 11-14 V | 11-14 V | 11-14 V | 0-1 V | 0-1 V |
| Fabric bow closed | 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 |
| Fabric bow locked | 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 |
| Roll bar up, side windows up | 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 |

Electrical Test Program－Survey of Electrical Limit Switch Signals

Operational sequence，hardtop locking

| Limit switches engaged <br> When testing with HHT | Soft top compartment cover |  | Soft top |  |  | Fabric bow |  |  | Roll bar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | locked | up | locked | closed | up | locked | closed | raised | lowered |
| Open corresponds to 11－14V |  |  |  |  |  |  |  |  |  |
| Closed corresponds to 0－1V | A25s2 | S84／5 | $\begin{aligned} & \mathrm{S} 84 / 1 \\ & \mathrm{~S} 84 / 2 \end{aligned}$ | S84／4 | S84／3 | A22s2 <br> A23s2 | A22s1 | S84／6 | S83／1 |
| Connection Diagram－Socket Box to Connector（X2） （ 22，Figure 2） <br> Control module in diagnostic mode 22 | $\begin{array}{ll} \hline \text { X2 } & \text { 高 } \\ \perp & 7 \end{array}$ |  |  |  |  | $\begin{array}{\|ll} \hline \text { X2 } & \text { 㤟带 } \\ \perp & 28 \\ \perp & 45 \end{array}$ |  |  | $\begin{aligned} & \text { X2 } \\ & \hline \\ & \perp \quad 4 \end{aligned}$ |
| rear | 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 |
| front | 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 |

Operational sequence，hardtop unlocking

| Limit switches engaged | Soft top compartment cover |  | Soft top |  |  | Fabric bow |  |  | Roll bar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| When testing with HHT | locked | up | locked | closed | up | locked | closed | raised | lowered |
| Open corresponds to 11－14V |  |  |  |  |  |  |  |  |  |
| Closed corresponds to 0－1V | A25s2 | S84／5 | $\begin{aligned} & \mathrm{S} 84 / 1 \\ & \mathrm{~S} 84 / 2 \end{aligned}$ | S84／4 | S84／3 | $\begin{aligned} & \text { A22s2 } \\ & \text { A23s2 } \end{aligned}$ | A22s1 | S84／6 | S83／1 |
| Connection Diagram－Socket Box to Connector（X2） （ 22，Figure 2） <br> Control module in diagnostic mode 22 | $\begin{array}{ll} \text { X2 } \\ \perp \\ \hline \end{array}$ | $\begin{aligned} & \text { X2 } \\ & \hline \perp \\ & \hline \end{aligned}$ | $\begin{array}{\|ll\|} \hline \text { X2 } & \text { 煎制 } \\ \perp & 30 \\ \perp & 11 \end{array}$ | $\begin{aligned} & \text { X2 } \\ & \hline \perp \\ & \hline \end{aligned}$ |  |  | $\begin{array}{lr} \text { X2 } & \text { \#!en } \\ \perp & 8 \end{array}$ | $\begin{array}{\|l\|l\|} \hline \text { X2 } & \text { \#nell } \\ \perp & 44 \end{array}$ | $\begin{array}{ll} \text { X2 } \\ \perp \\ \perp \end{array}$ |
| front | 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 |
| rear | 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 |

