FIGURE O1
NECK FLEXION TEST SETUP SPECIFICATIONS

- PENDULUM CENTERLINE
- PENDULUM (REF. FIG. 22 CFR 49 §572.33)
- ACCELEROMETER
- DIRECTION OF PENDULUM FLIGHT
- 3.2 ±0.5 mm (0.125 ± 0.02 in)
- BRACKET - NECK ADJUSTING - UPPER (P/N 880105-207)
- BIB SIMULATOR (P/N 880105-210)
- NECK ASSY (P/N 880105-250)
- BRACKET - NECK ADJUSTING - LOWER (P/N 880105-208)
- MOUNTING SCREW CENTERLINE
- 6-AXIS UPPER NECK LOAD CELL (SA572-S11)
- OCCIPITAL CONDYLES
- D-PLANE * PERPENDICULAR TO PENDULUM CENTERLINE ±1°
- * D-PLANE IS DEFINED AS AN IMAGINARY PLANE PERPENDICULAR TO THE SKULL CAP/SKULL INTERFACE.
- HEAD ASS'Y (P/N 880105-100X)
FIGURE O2
NECK EXTENSION TEST SETUP SPECIFICATIONS

* D-PLANE IS DEFINED AS AN IMAGINARY PLANE PERPENDICULAR TO THE SKULL CAP/SKULL INTERFACE.
FIGURE 03
THORAX IMPACT TEST SETUP SPECIFICATIONS

"0" INDEX MARKS ALIGNED
(REF. DWG. 880105-207 AND 880105-208)

NO. 3 RIB CENTERLINE
HORIZONTAL ±0.5°

PELVIC ANGLE MEASUREMENT
REFERENCE SURFACE (7° ±2°)

PELVIC ADAPTER BLOCK
(P/N 880105-1094)

COMPLETE DUMMY ASSEMBLY 880105-000

12.7 ±1.0 mm
(0.50 ±0.04 in)

IMPACT PROBE SUPPORT CABLES

ACCELEROMETER MOUNTED WITH SENSITIVE AXIS IN LINE WITH CENTERLINE OF TEST PROBE LONGITUDINAL AXIS (REF. SA572-S4)

CENTERLINE OR ARMS HORIZONTAL ±2°

TEST PROBE CENTERLINE HORIZONTAL ±0.5°

IMPACT PROBE WEIGHT INCLUDING ALL INSTRUMENTATION AND 1/3 OF SUPPORT CABLE WEIGHT *
13.97 ±0.023 kg (30.8 ± 0.05 lb)

FLAT, SMOOTH, RIGID, CLEAN, DRY SEATING SURFACE HORIZONTAL ± 0.5°

* 1/3 CABLE WEIGHT NOT TO EXCEED 5% OF THE TOTAL IMPACT PROBE WEIGHT
FIGURE O5
KNEE IMPACT TEST SETUP SPECIFICATIONS

- MOUNTING BOLTS TORQUE TO 40.7 Nm (30 lb. ft.)
- IMPACT PROBE SUPPORT CABLES
- ADJUST KNEE PIVOT JOINT TO 1-2 g PRIOR TO EACH TEST
- ACCELEROMETER MOUNTED WITH SENSITIVE AXIS IN LINE WITH CENTERLINE OF TEST PROBE LONGITUDINAL AXIS
- TEST PROBE CENTERLINE HORIZONTAL ±2°
- IMPACT PROBE WEIGHT INCLUDING ALL INSTRUMENTATION AND 1/3 OF SUPPORT CABLE WEIGHT * 2.99 ±0.023 kg (6.6 ± 0.05 lb.)
- COMPLETE LEG ASSEMBLY (880105-560-1 [LH], 880105-560-2 [RH]) WITH UPPER LEG WELDMENT AND UPPER LEG FLESH REMOVED.
- FOOT ASSEMBLY (880105-650 [LH], 880105-651 [RH])

* 1/3 CABLE WEIGHT NOT TO EXCEED 5% OF THE TOTAL IMPACT PROBE WEIGHT