FIGURE O1
NECK FLEXION TEST SETUP SPECIFICATIONS

PENDULUM CENTERLINE

PENDULUM (REF. FIG. 22 CFR 49 §572.33)

ACCELEROMETER

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
(SA572-511)

PENDULUM STRIKER PLATE

DIRECTION OF PENDULUM FLIGHT

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**

- **PENDULUM CENTERLINE**
- **PENDULUM** (REF. FIG. 22 CFR 49 §572.33)
- **ACCELEROMETER**
- **BRACKET - NECK ADJUSTING - LOWER** (P/N 880105-208)
- **BRACKET - NECK ADJUSTER - UPPER** (P/N 880105-207)
- **BIB SIMULATOR** (P/N 880205-210)
- **NECK ASS'Y** (P/N 880105-250)
- **MOUNTING BOLT CENTERLINE**
- **6-AXIS UPPER NECK LOAD CELL** (SA572-S11)
- **OCCIPITAL CONDYLES**
- **D-PLANE * PERPENDICULAR TO PENDULUM CENTERLINE ±1°**
- **HEAD ASS'Y** (P/N 880105-100X)

* 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.)

FEMUR LOAD CELL (SA572-S14, SINGLE AXIS, OR SA572-S29, SIX CHANNEL) OR STRUCTURAL REPLACEMENT (78051-319) HORIZONTAL ±0.5°

COMPLETE LEG ASSEMBLY (880105-560-1 (LH), 880105-560-2 (RH)) WITH UPPER LEG WELDMENT AND UPPER LEG FLESH REMOVED.

ANKLE PIVOT

FOOT ASSEMBLY (880105-650 (LH), 880105-651 (RH))

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