Figure N 1
HEAD DROP TEST SET-UP SPECIFICATIONS

HEAD COMPLETE
(127-1000)
WITH HEAD
ACCELEROMETER ASS'Y.
(127-1550 REF.)

DROP HEIGHT
62 ± 1°

STEEL PLATE
50.8x610mm x610mm
(2x24x24 in)
IMPACT SURFACE
FINISH
203 to 2032 μm/mm
(8 to 80 RMS μin/in)

CENTERLINE
OF 1.57mm
(0.062 in) DIA.
HOLES IN SKULL

DISTANCE "A" - DISTANCE "B" = 0.0±0.1 mm
(0±0.004 in)
Figure N2

NECK FLEXION TEST SET-UP SPECIFICATIONS

NOTE:
PENDULUM SHOWN IN VERTICAL ORIENTATION
Figure N 3

NECK EXTENSION TEST SET-UP SPECIFICATIONS

PENDULUM CENTERLINE

NECK EXTENSION
PENDULUM
STANDARD 49 CFR
§ 572.33 FIG. 22

DIRECTION OF
PENDULUM FLIGHT

POSTERIOR ATTACHMENT
BOLT CENTERLINE
PART #9001265 SCREW,
SHCS #10-24 x 7/16

NECK BRACKET ASSY. (127-8221)

NECK ASSY. (127-1015)

6-AXIS UPPER NECK LOAD CELL (SA372-S11)

PIVOT PIN (78051-339)

D-PLANE (REF. FIG. N1)
PERPENDICULAR TO PENDULUM CENTERLINE ± 1°

HEAD COMPLETE (127-1000)
WITH ACCELEROMETER ASSY. (127-1550)

NOTE:
PENDULUM SHOWN IN VERTICAL ORIENTATION
FIGURE N5
TORSO FLEXION TEST SET-UP SPECIFICATIONS

ATTACH LOADING ADAPTER BRACKET TO MACHINED SURFACE (127-8000, DETAIL IN 127-2022) WITH FOUR 6-32 SCREWS TO MATCH THE POINT OF LOAD APPLICATION WITH THE LEVEL OF THE UNDISTURBED NECK OCCIPITAL CONDYLE PIVOT AXIS

COMPLETE DUMMY ASSEMBLY (127-0000)

ATTACH PELVIS (REF. 127-3012) TO TABLE MOUNTED FIXTURE WITH FOUR 1/4-20 x 1/2" BOLTS

PELVIS-LUMBAR JOINING SURFACE HORIZONTAL ±1°

INITIAL POSITION OF ANGLE REF. PLANE

FINAL POSITION OF ANGLE REF. PLANE 45°

PIVOT PIN (78051-339 REF.)

LOAD CELL

PULL CABLE

METAL TABLE

COMBINED WEIGHT OF LOAD CELL, LOADING ADAPTER BRACKET, PULL CABLE AND ATTACHMENT HARDWARE ≤ 0.77 kg (1.7 lb)