Figure N1
HEAD DROP TEST SET-UP SPECIFICATIONS

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

D - PLANE
PERPENDICULAR
TO SKULL CAP/
SKULL INTER-
FACE

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 N3

NECK EXTENSION TEST SET-UP SPECIFICATIONS

PENDULUM CENTERLINE

26.1 mm (1.028 in)

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)

NECK EXTENSION PENDULUM STANDARD 49 CFR § 572.33 FIG. 22

NECK ADAPTER BRACKET (TE-2208-001 REF.)

BIB SIMULATOR (TE 127-1025 REF.)

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 N 4
THORAX IMPACT TEST SET-UP SPECIFICATIONS

IMPACT PROBE SUPPORT CABLES

IMPACT PROBE WEIGHT INCLUDING ALL INSTRUMENTATION AND 1/3 OF SUPPORT CABLE WEIGHT*
2.86±0.02 kg (6.3±0.05 lb)

ALL RIBS HORIZONTAL

CENTERLINE OF IMPACT PROBE IS 12.7±1mm (0.5±0.04 in) BELOW HORIZONTAL CENTERLINE OF THIRD RIB

COMPLETE ASSEMBLY (127-0000)

PELVIC ANGLE ** 8° ±1° FROM HORIZONTAL (127-3012)

* 1/3 CABLE WEIGHT NOT TO EXCEED 5% OF THE TOTAL IMPACT PROBE WEIGHT
** PELVIS LUMBAR JOINING SURFACE
FIGURE N 5
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 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°

METAL TABLE

INITIAL POSITION OF ANGLE REF. PLANE

FINAL POSITION OF ANGLE REF. PLANE 45°

PIVOT PIN (78051-339 REF.)

LOAD CELL

PULL CABLE

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

CENTERLINE OF PIVOT PIN

90.4mm (3.56in)

31.8mm (1.25in)

175.5mm (6.91in)