than 3 times the frequency range of the applicable channel class.

(o) Limb joints shall be set at 1G, barely restraining the weight of the limbs when they are extended horizontally. The force required to move a limb segment shall not exceed 2G throughout the range of limb motion.

(p) Performance tests of the same component, segment, assembly, or fully assembled dummy shall be separated in time by a period of not less than 30 minutes unless otherwise noted.

(q) Surfaces of dummy components are not painted except as specified in this part or in drawings subtended by this part.
Figure P1
HEAD DROP TEST SET-UP SPECIFICATIONS

HEAD SUSPENSION CABLES
QUICK RELEASE
HEAD ASSEMBLY (210-1000 REF.) WITH HEAD ACCELEROMETERS (210-0000 SHT. 3 OF 7 REF.)
1/2 NECK TRANSDUCER MASS SIMULATOR (TE-107-001 REF.)
D-PLANE PERPENDICULAR TO SKULL CAP/ SKULL INTERFACE
DROP HEIGHT
376 mm ± 1 mm (14.76 in ± .04 in)
IMPACT SURFACE
62° ± 1°
Figure P2
NECK FLEXION TEST SET-UP SPECIFICATIONS

DIRECTION OF PENDULUM FLIGHT

PENDULUM (REF. FIGURE 22 SUBPART E)

NECK MOUNTING PLATE (TE-250-021)

BIB SIMULATOR (TE-208-050)

LOAD CELL (SA572-S19)

D-PLANE PERPENDICULAR TO CENTER LINE OF PENDULUM

HEADFORM (TE-208-000)

NOTE: MOUNT NECK AT LEADING EDGE OF PENDULUM TO AVOID INTERFERENCE WITH HEADFORM MOTION. PENDULUM SHOWN IN VERTICAL ORIENTATION.
Figure P3
NECK EXTENSION TEST SET-UP SPECIFICATIONS

NOTE: MOUNT NECK AT LEADING EDGE OF PENDULUM TO AVOID INTERFERENCE WITH HEADFORM MOTION. PENDULUM SHOWN IN VERTICAL ORIENTATION.
Figure P4

THORAX IMPACT TEST SET-UP SPECIFICATIONS

NOTES:
1) MIDDLE RIB LEVEL ± 1°
2) MIDSAGITTAL PLANE VERTICAL WITHIN ±1°
3) IMPACT POINT OF LONGITUDINAL CENTERLINE OF PROBE COINCIDES WITH MIDSAGITTAL PLANE OF DUMMY.
4) ALIGN PROBE TO CENTER OF MIDDLE RIB ±2.5mm (0.1in) WITHIN 0.5° OF HORIZONTAL PLANE.
5) UPPER BACK PLATE OF SPINE BOX AT 90° ±1° FROM HORIZONTAL

IMPACT PROBE SUPPORT CABLES

IMPACT PROBE

ACCELEROMETER

IMPACT PROBE WEIGHT INCLUDING INSTRUMENTATION AND 1/3 WEIGHT OF SUPPORT CABLES* 1.70 ±0.02 kg (3.75 ±0.05 lbs.)

DUMMY ASS'Y. (210-0000 REF.)

TORSO ASS'Y. (210-3000 REF.)

90.00° ±1°

METAL TABLE

* 1/3 WEIGHT OF PROBE SUPPORT CABLES AND THEIR ATTACHMENTS TO THE IMPACT PROBE NOT TO EXCEED 5% OF THE TOTAL IMPACT PROBE WEIGHT.
Figure P5
TORSO FLEXION TEST SET-UP SPECIFICATION

ATTACHED LOADING ADAPTER BRACKET TO MACHINED SPINE BOX WELDMENT (210-8020, DETAIL IN 210-3107) WITH (4) 8-32 SCREWS.

COMPLETE DUMMY ASSEMBLY (210-0000 REF.)

PELVIS-LUMBAR JOINING SURFACE HORIZONTAL ≤1°

ATTACH PELVIS (REF. DWG. 210-3000) TO TABLE MOUNTED FIXTURE WITH FOUR 1/4-20 BOLTS AT THE LUMBAR LOAD CELL STRUCT. REPLACEMENT (210-4510)

VERTICAL

INITIAL POSITION OF TORSO REFERENCE PLANE

15° MAX.

FINAL POSITION OF TORSO REF. PLANE 45°

LOAD CELL

PULL CABLE

CENTERLINE OF OCCIPITAL CONDYLE LOCATION. ALSO AXIS OF LOAD APPLICATION.

FLAT RIGID SURFACE

COMBINED WEIGHT OF LOAD CELL, LOADING ADAPTER BRACKET, PULL CABLE AND ATTACHMENT HARDWARE ≤ 0.70kg. (1.54 lb.)