Figure U1

NECK/LUMBAR SPINE ATTACHED TO HEADFORM

MOUNTING BASE, LOWER
(PART #175-9027),
FASTEN TO TOP OF LUMBAR
SPINE USING
(3) 1/4-20 x 1 SHCS
OR
FASTEN TO BASE OF NECK
USING (4) M6 x 40 SHCS

LUMBAR SPINE
(PART #175-5500)
OR
NECK ASSEMBLY
(PART #175-2000)

(4) M6 x 20.5 SHCS

NECK AND LUMBAR SPINE
MOUNTING BASE
(PART #175-9029)
FASTEN TO BASE OF SPINE
OR
FASTEN TO TOP OF NECK
USING (4) M6 x 12 SHCS

ES-2x HEADFORM
ASSEMBLY
(PART #175-9000)
Figure U2-A
NECK/LUMBAR SPINE/HEADFORM ATTACHED TO PENDULUM

DIRECTION OF MOTION

PART 572
SUBPART E
PENDULUM
(Figure #22)

(4) M6 x 12 SHCS

MOUNTING BASE LOWER

AFT BASE ANGLE POT ASSEMBLY

LUMBAR SPINE
(PART #175-5500)
OR
NECK ASSEMBLY
(PART #175-2000)

FORE BASE ANGLE POT ASSEMBLY
(CONNECT TO HEADFORM ANGLE POT)

HEADFORM
(PART #175-9000)
Figure U2-B

ANGLE MEASUREMENTS WITH HEADFORM SET-UP

DIRECTION OF MOTION

PENDULUM BASE PLATE
FORE BASE ANGLE POT ASSEMBLY
AFT BASE ANGLE POT ASSEMBLY

HEADFORM FLEXION ANGLE EQUATION:
\[ \beta = d\Theta_a + d\Theta_c \]
WHERE:
- \( d\Theta_a \) = CHANGE IN FORE BASE ANGLE
- \( d\Theta_c \) = CHANGE IN HEADFORM ANGLE

HEADFORM ANGLE POT ASSEMBLY
HEADFORM (PART #175-9000)
Figure U3
SHOULDER IMPACT

Figure U4
THORAX IMPACT

RIB DETAIL
(REF. DWO. 175-4004)
Figure U5

ABDOMEN IMPACT

- PART 572 SUBPART E PENDULUM
- PENDULUM HORIZONTAL AT IMPACT ±0.5°
- SEE FIGURE U5-A
- LEGS HORIZONTAL
- ARMS HORIZONTAL
- THORAX VERTICAL ±2°
- TWO SHEETS OF 2mm THICK PTFE (TEFLON®)

AXLE-TO-ANKLE: ±5mm
Figure U5-A
ABDOMEN IMPACT - VIEW A
Figure U6
PELVIS IMPACT

- ANKLE-TO-ANKLE
- PENDULUM CENTERLINE ALIGNED WITH H-POINT CENTER
- PENDULUM AT IMPACT ± 0.5°
- THORAX VERTICAL ± 2°
- ARMS HORIZONTAL
- LEGS HORIZONTAL
- TWO SHEETS OF 2mm THICK PTFE (TEFLON®)
Subpart V—SID–IIsD Side Impact Crash Test Dummy, Small Adult Female

Source: 71 FR 75370, Dec. 14, 2006, unless otherwise noted.

§ 572.190 Incorporated materials.

(a) The following materials are hereby incorporated into this Subpart by reference:

(1) A parts/drawing list entitled, "Parts/Drawings List, Part 572 Subpart V, SID–IIsD, July 1, 2008,"

(2) A drawings and inspection package entitled “Drawings and Specifications for the SID–IIsD Small Female Crash Test Dummy, Part 572 Subpart V, July 1, 2008,” consisting of:

(i) Drawing No. 180–0000, SID–IIsD Complete Assembly;

(ii) Drawing No. 180–1000, 6 Axis Head Assembly;

(iii) Drawing No. 180–2000, Neck Assembly;