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

DIRECTION OF MOTION

(4) M6 x 12 SHCS

MOUNTING BASE LOWER

AFT BASE ANGLE POT ASSEMBLY

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

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

HEADFORM (PART #175-9000)

PART 572
SUBPART E
PENDULUM (FIGURE #22)
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-A

ABDOMEN IMPACT - VIEW A

- IMPACTOR FACE (SIDE VIEW)
- PENDULUM
- CENTERLINE OF FORCE TRANSUDER AND IMPACTOR ±5mm
- IMPACTOR FACE (FRONTAL VIEW)
- ABDOMEN TEST SET-UP
Figure U6
PELVIS IMPACT

- PART 572 SUBPART E PENDULUM
- PENDULUM HORIZONTAL AT IMPACT ± 0.5°
- ANKLE-TO-ANKLE ± 5mm
- PENDULUM CENTERLINE ALIGNED WITH H-POINT CENTER ± 5mm
- ARMS HORIZONTAL
- LEGS HORIZONTAL
- THORAX VERTICAL ± 2°
- 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;