APPENDIX A TO SUBPART U OF PART 572—FIGURES

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

HEADFORM (PART #175-9000)
Figure U5
ABDOMEN IMPACT

PART 572 SUBPART E PENDULUM
PENDULUM HORIZONTAL AT IMPACT ±0.5°
THORAX VERTICAL ±2°
LEGS HORIZONTAL
TWINS SHEETS OF 2mm THICK PTFE (TEFLO®)

100 ±5mm
ANKLE-TO-ANKLE

SEE FIGURE U5-A
Figure U5-A

ABDOMEN IMPACT - VIEW A

IMPACTOR FACE (SIDE VIEW)

PENDULUM

IMPACTOR FACE (FRONTAL VIEW)

CENTERLINE OF FORCE TRANSUDER AND IMPACTOR ±5mm

ABDOMEN TEST SET-UP

80.0
60.0

70 ±1

150
Figure U6
PELVIS IMPACT

100 mm
ANKLE-TO-ANKLE

PENDULUM CENTERLINE ALIGNED WITH H-POINT CENTER ±5 mm

PENDULUM HORIZONTAL AT IMPACT ± 0.5°

PART 572 SUBPART E PENDULUM

ARMS HORIZONTAL

LEGs HORIZONTAL

THORAX VERTICAL ±2°

TWO SHEETS OF 2 mm THICK PTFE (TEFLON)
Subpart V, SID–IIIsD 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–IIIsD, July 1, 2008,"

(2) A drawings and inspection package entitled "Drawings and Specifications for the SID–IIIsD Small Female Crash Test Dummy, Part 572 Subpart V, July 1, 2008," consisting of:
   (i) Drawing No. 180–0000, SID–IIIsD Complete Assembly;
   (ii) Drawing No. 180–1000, 6 Axis Head Assembly;
   (iii) Drawing No. 180–2000, Neck Assembly;