

# ASTM F3021/F3022 UDFE/IF Data Form

## TEST INSTITUTION

Test Lab Name \_\_\_\_\_ Address \_\_\_\_\_  
 Phone No \_\_\_\_\_  
 Report prepared by: \_\_\_\_\_ Report Date \_\_\_\_\_  
 Signature of Person Responsible \_\_\_\_\_ Date range of testing\* \_\_\_\_\_

\*The specific date or date range for each section of testing should be indicated on the test's page.

## TEST EQUIPMENT

<b>Aerobic equipment:</b> <input type="checkbox"/> Recumbent Bicycle <input type="checkbox"/> Upright Bicycle <input type="checkbox"/> Elliptical <input type="checkbox"/> Treadmill <input type="checkbox"/> Upper body ergometer <input type="checkbox"/> Other: _____ _____	<b>Upper body strength equipment:</b> <input type="checkbox"/> Pulley machine <input type="checkbox"/> Lat pulldown <input type="checkbox"/> Chest press <input type="checkbox"/> Rear delt/pec fly <input type="checkbox"/> Bicep curl <input type="checkbox"/> Tricep extension <input type="checkbox"/> Abdominal crunch <input type="checkbox"/> Rotary torso <input type="checkbox"/> Lower back <input type="checkbox"/> Other: _____ _____	<b>Lower body strength equipment:</b> <input type="checkbox"/> Pulley machine <input type="checkbox"/> Leg extension <input type="checkbox"/> Leg flexion <input type="checkbox"/> Leg press <input type="checkbox"/> Hip abduction <input type="checkbox"/> Hip adduction <input type="checkbox"/> Hip flexion <input type="checkbox"/> Hip extension <input type="checkbox"/> Other: _____ _____	<b>Other Equipment:</b> <input type="checkbox"/> _____ _____
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## REFERENCED STANDARDS

Tests were conducted according to:  ASTM F3021 – 13

## GENERAL REQUIREMENTS

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
	Is the testing equipment power driven?	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	
	Is the equipment in compliance with all other applicable ASTM standards?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	
	Is the equipment in the start position?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Note 1 – sections 5.1.1.7/8.1.1.7, 5.1.1.11/8.1.1.11, 5.1.2.10/8.1.2.10, 5.1.3.8/8.1.3.8, 5.1.3.12/8.1.3.12, 5.1.4.4/8.1.4.4, 5.1.6.7/8.1.6.7, 5.2.4.3/8.2.4.3, 5.2.6.2/8.2.6.2 and 5.2.7.5/8.2.7.5 require an additional Color Contrast Data form.				
Note 2 – With every measurement taken circle the unit used				

## 5.1.1 ACCESS AND SETUP

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.1.1.1 / 8.1.1.1	Access path is clear of obstructions	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.2 / 8.1.1.2	Indicate number of approach positions for access and egress			N/A
5.1.1.2 / 8.1.1.2	Indicate which approach directions for access and egress possible	<input type="checkbox"/> Front <input type="checkbox"/> Rear <input type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> N/A		
5.1.1.2 / 8.1.1.2	Indicate approach bias left or right position?	<input type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> N/A		
5.1.1.3 / 8.1.1.3	Measure the Step-On Height	mm / in	Less than 170 mm (6.7 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.4 / 8.1.1.4	Measure the Step-Over Height	mm / in	Less than 400 mm (15.7 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.4 / 8.1.1.4	Measure the width of the Step-Over Height	mm / in	at least 300 mm (11.8 in.) width	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.5 / 8.1.1.5	Indicate the use of an integral surface or separate step that reduces the Step-On height	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	
5.1.1.5 / 8.1.1.5	Indicate the use of an integral surface or separate step that reduces the Step-Over height	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	
5.1.1.6 / 8.1.1.6	Measure the length of the integral surface / separate step	mm / in	Greater than 500 mm (19.7 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.6 / 8.1.1.6	Measure the width of the integral surface / separate step	mm / in	Greater than 300 mm (11.8 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.6 / 8.1.1.6	Measure the height of the integral surface / separate step	mm / in	Greater than 170 mm (6.7 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.7 / 8.1.1.7	Measure the contrast between the integral surface / separate step and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.8 / 8.1.1.8	Indicate whether separate steps have a means to prevent unintentional movement during use	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.8 / 8.1.1.8	Indicate force required to move or remove the separate step	kg / lb	Less than 7.5 kg (16.5 lb.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.1.1.9 / 8.1.1.9	For Seated cardio equipment with back support, measure the height of the walk through structure (Not rowing machines)	mm / in	Less than 125 mm (4.9 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.10 / 8.1.1.10	Measure the height of the walk through transition area box	mm / in	Greater than 635 mm (25.0in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.10 / 8.1.1.10	Measure the width of the walk through transition area box	mm / in	Greater than 300 mm (11.8in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.11 / 8.1.1.11	Indicate the presence of an adjustment mechanism that locks the foot and hand supports for use during mounting and dismounting	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.1.12 / 8.1.1.12	Measure the contrast level for potential trip hazards	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

### 5.1.2 SEATS, SITTING SURFACES, AND BACK SUPPORTS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.1.2.1 / 8.1.2.1	Measure the width at the widest point on the seat / sitting surface	mm / in	At least 380 mm (15.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.1 / 8.1.2.1	Measure the depth at the centerline on the seat / sitting surface	mm / in	At least 255 mm (10.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.1 / 8.1.2.1	Indicate the presence of a back support	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	N/A
5.1.2.1 / 8.1.2.1	Measure the seat angle	degrees	At least 5°	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.2 / 8.1.2.2	Measure the fixed seat height (minus the integral or separate step surface height if present)	mm / in	Maximum 450 mm (17.7 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.3 / 8.1.2.3	Measure the minimum seat height (For lower or upper body equipment)	mm / in	Maximum 430 mm (16.9 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.3 / 8.1.2.3	Measure the maximum seat height (For lower or upper body equipment)	mm / in	Minimum 485 mm (19.1 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.4 / 8.1.2.4	Indicate the presence of an adjustable seat height (Seated upper body equipment)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.5 / 8.1.2.5	Indicate the presence of a removable / movable seat (Seated upper body equipment)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.5 / 8.1.2.5	With the seat removed, measure the length of the accessible clear space	mm / in	Minimum 1300 mm (51.2 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.1.2.5 / 8.1.2.5	With the seat removed, measure the width of the accessible clear space	mm / in	Minimum 975 mm (38.4 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.5 / 8.1.2.5	With the seat removed, measure the height of any physical obstruction that remains in the floor clear space area that may pose a trip hazard	mm / in	Maximum 19 mm (0.6 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.6 / 8.1.2.6	With the seat removed, measure the minimum distance between the start position of the hand grips and the back support?	mm / in	Minimum 300 mm (11.8in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.7 / 8.1.2.7	Indicate whether the removable seat has a means to prevent unintentional movement during use.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.7 / 8.1.2.7	Indicate whether the seat has a handgrip in to enable the seat to be moved easily	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.7 / 8.1.2.7	Indicate whether the removable seat has a means to easily move over the floor surface.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.7 / 8.1.2.7	Indicate force required to move or remove the separate step	kg / lb	Less than 7.5 kg (16.5 lb.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.8 / 8.1.2.8	Indicate the presence of a physical locating or locking mechanisms or a visual reference to indicate the correct seat alignment	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.9 / 8.1.2.9	Indicate whether the postural supports/surfaces are cleanable	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.9 / 8.1.2.9	Measure the depth of the padding	mm / in	Minimum 12.7 mm (0.5 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.9 / 8.1.2.9	Measure the density of the padding	Kg/m <sup>3</sup>	Minimum 75 kg/m <sup>3</sup>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.9 / 8.1.2.9	Measure the hardness of the padding	N / lbf	Minimum 315 N (70.81 lbf)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.2.10 / 8.1.2.10	Measure the contrast between the seat and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

### 5.1.3 ADJUSTMENT MECHANISMS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.1.3.1 / 8.1.3.1	Indicate whether the adjustment mechanisms are visible in a clear line of sight to the user when approaching the equipment or from the primary exercise position	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	!! FORMC HECKB OX <sup>⊥</sup>
5.1.3.2 / 8.1.3.2	Indicate adjustment bias left or right handed	<input type="checkbox"/> Left <input type="checkbox"/> Right <input type="checkbox"/> Both	Both N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.3 / 8.1.3.3	Indicate the required simultaneous use of both hands to make adjustments	<input type="checkbox"/> Yes <input type="checkbox"/> No	No N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.1.3.4 / 8.1.3.4	Indicate whether adjustment mechanisms required for set up are easy to reach, use, insert, or remove, or combinations thereof, and not requiring fine finger control, excessive wrist rotation, tight grasp, or a pinch grip.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.5 / 8.1.3.5	Measure the force required to activate adjustment mechanisms	N / lbf	Maximum 30.0 N (6.7 lbf)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.6 / 8.1.3.6	Indicate the use of a mechanism that avoids freefall of adjustment mechanisms during adjustment	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.7 / 8.1.3.7	Indicate whether detachable controls and adjustments are tethered where structure permits and do not interfere with access, egress, or performance of the exercise or have a storage position on the framework of the equipment	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.8 / 8.1.3.8	Measure the contrast between the adjustment mechanisms and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.9 / 8.1.3.9	Indicate, more than three positions, whether the fixed position settings on adjustments are clearly identified with distinctive markings. Raised iconography is not solely in Braille.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.10 / 8.1.3.10	Measure the size/height of the adjustment markings	mm / in	Minimum 15 mm (0.6 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.10 / 8.1.3.10	Indicate that the font is sans serif and non-italic	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.11 / 8.1.3.11	Measure the tactile raised height of the adjustment markings	mm / in	Minimum 4 mm (0.016 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.3.12 / 8.1.3.12	Measure the contrast between the adjustment markings and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

#### 5. 1.4 HAND GRIPS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.1.4.1 / 8.1.4.1	Measure the length of the fixed hand grips or other appropriate structural components to assist with transfers	mm / in	Minimum 150 mm (5.9 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.4.2 / 8.1.4.2	Indicate that fixed hand grips adjacent to sitting surfaces are flush or below the horizontal seat height	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.4.2 / 8.1.4.2	Measure from the inside edge of the hand grip to the outside edge of the seat	mm / in	Between 45 & 60 mm (1.8 to 2.4 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.4.2 / 8.1.4.2	Measure the length of the fixed hand grips	mm / in	Minimum 150 mm (5.9 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.1.4.3 / 8.1.4.3	Measure the gripping surface circumference of all hand grips	mm / in	Between 100 & 150 mm (3.9 to 5.9 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.4.3 / 8.1.4.3	Measure the length of the hand grips	mm / in	Minimum 150 mm (5.9 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.4.4 / 8.1.4.4	Measure the contrast between the hand grips and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.4.5 / 8.1.4.5	Indicate that active or dynamic hand grips are of a different hue or contrast pattern than fixed hand grips	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

**5.1.5 INSTRUCTIONS FOR USE**

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.1.5.1 / 8.1.5.1	Indicate that Instructions for Use are available in an accessible electronic format	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.5.2 / 8.1.5.2	Indicate that owner's/training manual(s) are available in an accessible electronic format	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

**5.1.6 LABELING REQUIREMENTS**

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.1.6.1 / 8.1.6.1	Indicate that the material(s) used for the instruction panel(s) are opaque and printed with a matt, non-glare finish	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.6.2 / 8.1.6.2	Measure the printed smallest lower case letter text on all instruction panels	mm / in	Minimum 2 mm (0.08 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.6.3 / 8.1.6.3	Indicate that the main headings are written in a sentence case, sans serif, and non-italic font	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.6.4 / 8.1.6.4	Indicate that all of the body text elements are aligned left and unjustified and horizontal without flowing around graphic elements or images	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.6.5 / 8.1.6.5	Indicate that spacing between words and characters is increased by a minimum of 20 % from standard font spacing	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.1.6.5 / 8.1.6.5	Indicate that spacing between lines is a minimum of 1.5 times the standard font space between the words on a line	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.6.6 / 8.1.6.6	Indicate that arrows used on the equipment are positioned in between the instructions and the component, with the arrow pointing to the component.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.1.6.7 / 8.1.6.7	Measure the contrast between the text, graphics, and at a minimum, the edge or border of each main instruction panel/label and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

## 5.2 CONTROL PANELS/CONSOLES

### 5.2.1 GENERAL POSITIONING

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.2.1.1 / 8.2.1.1	Indicate whether the control panels/consoles are visible in a clear line of sight in front of the user and do not pose a physical obstruction to interfere with access	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.1.2 / 8.2.1.2	Measure the distance from the centerline of the console to centerline of the main control buttons. (control buttons repeated on both the left and right side of the control panel/console are exempt)	mm / in	Minimum 180 mm (7.1 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.1.3 / 8.2.1.3	Indicate whether the main controls buttons grouped/paired	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

### 5.2.2 BUTTON REQUIREMENTS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.2.2.1 / 8.2.2.1	Indicate that individual buttons are used for all available main controls	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.2 / 8.2.2.2	Indicate the presence of a "Quick Start" button	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.3 / 8.2.2.3	Indicate that the equipment is activated in manual mode and at the lowest speed by the means of a single push/press of a start button	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.2.2.4 / 8.2.2.4	Indicate that incremental increase or decrease in main control functions has an option that is achievable through a single actuation	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.5 / 8.2.2.5	Measure the diameter of round quick start control	mm / in	Minimum 25 mm (1.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.5 / 8.2.2.5	Measure the length of non-round quick start control	mm / in	Minimum 25 mm (1.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.5 / 8.2.2.5	Measure the width of non-round quick start control	mm / in	Minimum 25 mm (1.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.5 / 8.2.2.5	Measure the diameter of round stop control	mm / in	Minimum 25 mm (1.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.5 / 8.2.2.5	Measure the length of non-round stop control	mm / in	Minimum 25 mm (1.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.5 / 8.2.2.5	Measure the width of non-round stop control	mm / in	Minimum 25 mm (1.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.5 / 8.2.2.5	Measure the diameter of round controls (not quick start or stop)	mm / in	Minimum 20 mm (0.8 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.2.6 / 8.2.2.6	Indicate the number of preset training programs that are provided	Qty		
5.2.2.6 / 8.2.2.6	Indicate the number of preset training programs that are through individual actuator buttons displayed on the console	Qty		<input type="checkbox"/> Pass <input type="checkbox"/> Fail

### 5.2.3 LABELING REQUIREMENTS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.2.3.1 / 8.2.3.1	Indicate that all text on the labels is a sans serif, non-italic font, and is in sentence case	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.3.2 / 8.2.3.2	Indicate that all main controls have a label indicating the button function on or in close proximity of the button	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.3.2 / 8.2.3.2	Measure the height of the label indication smallest lower case letter of the button functions with every button	mm / in	Minimum 2 mm (0.08 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.3.2 / 8.2.3.2	Measure the height of the label indication smallest upper case letter of the button functions with every button	mm / in	Minimum 3 mm (0.12 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.3.2 / 8.2.3.2	Measure the height of the main control label indication smallest lower case letter of the button function	mm / in	Minimum 4 mm (0.16 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.3.2 / 8.2.3.2	Measure the height of the main control label indication smallest upper case letter of the button function	mm / in	Minimum 5 mm (0.2 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail



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### 5.2.4 COLOR REQUIREMENTS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.2.4.1 / 8.2.4.1	Indicate that start controls have incorporated the color green into either the background or text	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.4.1 / 8.2.4.1	Indicate that stop controls have incorporated the color red into either the background or text	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.4.2 / 8.2.4.2	Indicate unified color coding of color pairs, increase/decrease resistance or level, increase/decrease speed, and increase/decrease gradient or equivalent	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.4.2 / 8.2.4.2	Indicate that the above color pairs are not using red or green	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Yes N/A	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.4.3 / 8.2.4.3	Measure the contrast between the text, graphics, and at a minimum, the edge or border of each main instruction panel/label and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

### 5.2.5 TACTILE REQUIREMENTS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.2.5.1 / 8.2.5.1	Measure the height of the tactile border of all main controls or	mm / in	Minimum 4 mm (0.16 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.1 / 8.2.5.1	Measure the height of the whole button from the background surface of all main controls	mm / in	Minimum 2 mm (0.08 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.2 / 8.2.5.2	Indicate that all buttons have raised iconography identifying the button function (Icon or up to 2 letters)	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.2 / 8.2.5.2	Measure the top of the raised iconography to the button background	mm / in	Minimum 4 mm (0.16 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.2 / 8.2.5.2	Measure the width of the raised iconography	mm / in	Minimum 10 mm (0.4 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.3 / 8.2.5.3	If the raised iconography is a more than 2 characters in length, measure the font size of the lower case letters?	mm / in	Minimum 11 mm (0.4 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.3 / 8.2.5.3	If the raised iconography is a more than 2 characters in length, measure the font size of the upper case letters?	mm / in	Minimum 15 mm (0.6 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.3 / 8.2.5.3	Indicate that the raised iconography solely in Braille?	<input type="checkbox"/> Yes <input type="checkbox"/> No	No	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.2.5.4 / 8.2.5.4	Cycle test raised iconography for 48,600 cycles. Measure the top of the raised iconography to the button background	mm / in	Minimum 4 mm (0.16 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.5.5 / 8.2.5.5	Indicate that tactile or kinesthetic feedback is provided on main controls	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

### 5.2.6 VISUAL FEEDBACK REQUIREMENTS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.2.6.1 / 8.2.6.1	Measure the font size of the numeric readouts on the display related to the main controls	mm / in	Minimum 10 mm (0.4 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.6.1 / 8.2.6.1	Indicate that the numeric readouts are labeled to indicate function	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.6.1 / 8.2.6.1	Indicate that the correct units of measurement are displayed.	<input type="checkbox"/> Yes <input type="checkbox"/> No	N/A	N/A
5.2.6.2 / 8.2.6.2	Measure the contrast between the numeric readout and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.6.3 / 8.2.6.3	Indicate the length of time each segment remains static when scrolling or scanning type feedback is used	Seconds	Minimum 3 Sec	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.6.4 / 8.2.6.4	Indicate that visual feedback concerning performance is provided numerically at the end of exercise	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.6.4 / 8.2.6.4	Indicate the length of time that visual feedback is displayed	Seconds	Minimum 5 Sec	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.6.5 / 8.2.6.5	Indicate that visual feedback and non-visual feedback are provided immediately prior to a moving surface starting and stopping for all programs	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

### 5.2.7 AUDIO FEEDBACK REQUIREMENTS

Testing Date(s): \_\_\_\_\_

Testing Clause	Description of Test Procedure	Obtained Results	Required Result	Indicate Pass or Fail
5.2.7.1 / 8.2.7.1	Indicate that the equipment with a visual display is equipped with a standard US 3.5 mm (0.14 in.) headphone jack	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.7.2 / 8.2.7.2	Measure the location of the headphone jack from the bottom center of the nearest main control	mm / in	Minimum 76 mm (3.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.7.3 / 8.2.7.3	Indicate the presence of a tactile border around the headphone jack	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

5.2.7.3 / 8.2.7.3	Measure the top of the raised border to the console background.	mm / in	Minimum 0.4 mm (0.016 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.7.4 / 8.2.7.4	Indicate the presence of a headphone symbol in raised iconography adjacent to the headphone jack	<input type="checkbox"/> Yes <input type="checkbox"/> No	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.7.4 / 8.2.7.4	Measure the top of the headphone symbol to the console background	mm / in	Minimum 10 mm (0.4 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.7.5 / 8.2.7.5	Measure the contrast between the headphone jack and adjacent surface	%	Greater than 70%	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
5.2.7.6 / 8.2.7.6	Measure the distance from the headphone jack to the audio control buttons	mm / in	Minimum 150 mm (6.0 in.)	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

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