

S P E C I F I C A T I O N S

for

MONKEY MOTION WALL EXHIBITS

NEW YORK WORLD'S FAIR EXHIBIT 1964-65

FORD MOTOR COMPANY

DEARBORN, MICHIGAN

December 3, 1962

A WALT DISNEY PRODUCTION

Exhibit Designed by

WED ENTERPRISES, INC.  
800 Sonora Avenue  
Glendale 1, California

PERFORMANCE DATA FOR MONKEY MOTION WALL EXHIBIT

This is the final display in the engineering research section of the Adventures in Science Area. The term Monkey Motion refers to the action of various types of machinery used to test the wear-ability of automobile components, to be furnished to the Display Contractor by Owner. This display consists of specific automobile parts arranged against a veri-colored background and animated as if being tested. The drive machinery actuating devices and electrical equipment shall be attached to the back side of the wall in such a way as to allow access for service adjustment.

The first animated component is a turning drive shaft and u-joint assembly mounted above a flexing rear leaf spring. Beside this, in a vertical panel, a distributor rotor, fuel pump, horns and front coil spring assembly all actuated as if their moving parts were being tested. Also a part of this panel is a shock absorber animated in a vertical up-and-down movement.

The next test area of display demonstrates the machinery and action devices used in testing a latch and hinge mechanism of an automobile door. This display is recessed in a pocket as indicated on the working drawings. Also a part of this door display is a window machinery testing device showing the inside of an automobile door with the inside panel removed to expose the animated window cranking machinery.

The next animated display is a seat-wear testing device, which consists of a simulated heavy metal ball rolling back-and-forth across the surface of the seat bouncing off the back rest. This is actuated by a long lever, which pierces the display wall and is connected to the drive machinery behind the wall. At approximately this point of the display, the wall begins to curve forming the end of the corridor. In a recessed pocket in this curved surface made water-proof by a plexiglas window is a front end suspension testing device which consists of a larger roller with an uneven surface, on which an automobile wheel turns and bounces continuously. There is also a water spray mechanism included in this display which saturates the suspension machinery with water as if being tested under adverse climatic conditions.

The next panel display illustrates the testing of various light components which flash on-and-off at random with the exception of the turn indicator lights and turn indicator control lever at the top of this panel. As the turn indicator control lever is actuated, the corresponding light mounted above will flash.

In the final panel of display simulated testing of the swing-out steering wheel mechanism and windshield wiper testing devices are shown.

Although no particular overall cycle is required, the various components of the display shall be actuated in a fairly excited manner creating overall effect of extreme animation. Areas of wall will be animated intermittently. There should be a provision for the attachment of static automobile parts, to be attached at random throughout the display panel to achieve visual continuity in pattern.

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It should be noted that this display occurs in duplicate, although the direction is the opposite, the sequency and arrangement of the components described above shall be the same from beginning to end.

Use this field - 1001

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LIST OF DRAWINGS AND ENCLOSURES

- X-30 - Plan and Elev. Monkey Motion Wall Exhibit
- X-43 - Monkey Motion Wall Exhibit - Electrical

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