

Designation: F770-06a Designation: F770 - 11

Standard Practice for Ownership and Operation of Amusement Rides and Devices Ownership, Operation, Maintenance, and Inspection of Amusement Rides and Devices¹

This standard is issued under the fixed designation F770; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

1. Scope

- 1.1 This practice covers and establishes information for operating procedures of amusement rides and devices.
- 1.2 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:²

F853 Practice for Maintenance Procedures for Amusement Rides and Devices

F1193 Practice for Quality, Manufacture, and Construction of Amusement Rides and Devices

3. Significance and Use

3.1 The purpose of this practice is to delineate information and to establish procedures for the operation of amusement rides and devices.

4. Owner/Operator's Responsibility

- 4.1 Each owner/operator of an amusement ride or device shall read and become familiar with the contents of the manufacturer's recommended operating instructions and specifications, when received. Each owner/operator shall prepare an operating fact sheet. This fact sheet shall be made available to each ride or device operator and attendant of the amusement ride or device. The owner's/operator's fact sheet (on a ride-by-ride basis) shall include but not be limited to:
 - 4.1.1 Specific ride or device operation policies and procedures with pertinent information from the manufacturer's instructions.
 - 4.1.1.1 Description of the ride or device operation.
 - 4.1.1.2 Duties of the specific assigned position of the ride or device operator or attendant. 7 f6 [78] d/astm-[770-11
 - 4.1.1.3 General safety procedures.
 - 4.1.1.4 Additional recommendations of the owner/operator.
 - 4.1.2 Specific emergency procedures in the event of an abnormal condition or an interruption of service.
- 4.1.3 The owner/operator shall provide training for each ride or device operator and attendant of an amusement ride or device. This training shall include but not be limited to the following, where applicable:
 - 4.1.3.1 Instruction on ride or device operating procedures.
 - 4.1.3.2 Instructions on specific duties of the assigned position.
 - 4.1.3.3 Instructions on general safety procedures.
 - 4.1.3.4 Instructions on emergency procedures.
 - 4.1.3.5 Demonstration of the physical ride or device operation.
 - 4.1.3.6 Supervised observation of the ride or device operator's physical operation of the ride or device.
 - 4.1.3.7 Additional instructions deemed necessary by the owner/operator.
- 4.1.4 The ride or device operator of each amusement ride or device shall conduct a daily pre-opening inspection of each ride or device prior to carrying passengers. This inspection shall include but not be limited to the following:
 - 4.1.4.1 Visual check of all passenger-carrying devices, including restraint devices and latches.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.



- 4.1.4.2 Visual inspection of entrances, exits, stairways, and ramps.
- 4.1.4.3 Test of all communications equipment necessary for the operation of the ride or device.
- 4.1.4.4 Prior to carrying passengers, the ride or device shall be operated for a minimum of one complete operating cycle.
- 4.2 The owner/operator of an amusement ride or device may deny entry to the ride or device to any person, if in the opinion of the owner/operator the entry may cause above normal exposure to risk of discomfort or injury to the person who desires to enter, or if in the opinion of the owner/operator the entry may jeopardize the safety of other patrons or employees.
- 4.2.1 Ride or device operators should be given guidelines on the special considerations concerning patron size, and the special considerations applicable to physically disabled and mentally impaired patrons, related to their particular ride or device.
- 4.3 Signs presented by the owner/operator for instruction to the public shall be prominently placed, bold in design, with wording short, simple, and to the point.
- 4.3.1 Signs to display operational instructions or requirements, or both, for use of the amusement ride or device may be posted at the waiting/loading area or other appropriate location and may include height requirements and other duties and obligations of the passengers such as but not limited to those listed in Section 5.
- 4.3.2 Entrances to machinery rooms or restricted areas, or both, should be posted when necessary to warn unauthorized persons not to enter.
- 4.4 The owner/operator shall be responsible for implementing a program of testing based on the recommendations of the section on Non-Destructive Testing Requirements of Practice F1193.

5. Patron Responsibility

- 5.1 There are inherent risks in the participation in or on any amusement ride, device, or attraction. Patrons of an amusement ride, device, or attraction, by participation, accept the risks inherent in such participation of which the ordinary prudent person is or should be aware. Patrons have a duty to exercise good judgment and act in a responsible manner while using the amusement ride, device, or attraction and to obey all oral or written warnings, or both, prior to or during participation, or both.
- 5.2 Patrons have a duty to not participate in or on any amusement ride, device, or attraction when under the influence of drugs or alcohol.
 - 5.3 Patrons have a duty to properly use all ride or device safety equipment provided.

6. Maintenance Program Requirements (from Practice F853)

- 6.1 Each owner/operator of an amusement ride or device shall read and become familiar with the contents of the manufacturer's maintenance instructions and specifications when received, as provided in 3.1. Based on the manufacturer's recommendations, each owner/operator shall implement a program of maintenance, testing, and inspection providing for the duties and responsibilities necessary in the care of each amusement ride or device. This program of maintenance shall include a checklist to be made available to each person performing the regularly scheduled maintenance on each ride or device. The owner/operator's checklist (on a ride-by-ride basis) shall include but not be limited to:
 - 6.1.1 Description of preventive maintenance assignments to be performed.4ae0-84c4-61a77f6f78fd/astm-f770-11
 - 6.1.2 Description of inspections to be performed.
 - 6.1.3 Special safety instructions, where applicable.
 - 6.1.4 Any additional recommendations of the owner/operator.
- 6.2 The owner/operator of the amusement ride or device shall provide training for each person performing the regularly scheduled maintenance on the ride or device, pertaining to their assigned duties. This training shall include, but not be limited to, the following:
 - 6.2.1 Instruction on inspection and preventive maintenance procedures.
 - 6.2.2 Instruction on the specific duties of the assigned position.
 - 6.2.3 Instruction on general safety procedures.
 - 6.2.4 Demonstration of the physical performance of the assigned regularly scheduled duties and inspections.
- 6.2.5 Supervised observation of the maintenance person's physical performance of their assigned regularly scheduled duties and inspections.
 - 6.2.6 Additional instructions deemed necessary by the owner/operator.
- 6.3 Prior to carrying passengers, the owner/operator shall conduct or cause to be conducted a daily documented and signed preopening inspection, based on provided instructions, to ensure the proper operation of the ride or device. The inspection program shall include, but not be limited to, the following:
 - 6.3.1 Inspection of all passenger-carrying devices, including restraint devices and latches.
 - 6.3.2 Visual inspection of entrances, exits, stairways, and ramps.
 - 6.3.3 Functional test of all communication equipment necessary for the operation of the ride.
 - 6.3.4 Inspection or test of all automatic and manual safety devices.
 - 6.3.5 Inspection or test of the brakes, including service brakes, emergency brakes, parking brakes, and back stops.
 - 6.3.6 Visual inspection of all fencing, guarding, and barricades.
 - 6.3.7 Visual inspection of the ride structure.
 - 6.3.8 The ride or device shall be operated for a minimum of one complete operating cycle.