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Superseding J961 FEB2001

Marine Control Cable Connection—Engine Throttle Lever

1. **Scope**—The purpose of this SAE Recommended Practice is to provide guides toward standard conditions for operating marine engine throttles (gasoline or diesel) where push-pull cable control is applicable.

For control cable information see SAE J917.

- a. Maximum desirable force required to make or maintain a throttle setting, 22 N (5 lb), as applied by the control cable.
- b. Amount of travel required for the engine throttle lever is as follows:
 1. Two holes in the engine throttle lever at radii to provide 44.5 mm (1-3/4 in) and 70 mm (2-3/4 in) linear travel, idle to full throttle.
 2. The engine throttle lever may be adjustable in length.
- c. The holes in the engine throttle lever for attaching the cable terminal should be 6.35 mm (1/4 in) diameter. The engine throttle lever at these holes should not be more than 6.35 mm (1/4 in) thick. Common cable terminals used are ball joints, clevises, and pivots.
- d. Provide clear cable path to the engine throttle lever.
- e. Provide choice of cable paths from different angles. This can be done by having the engine throttle lever repositionable on the engine throttle shaft.
- f. Provide bracket support on or near the carburetor or governor. This can be a hub, bolt holes, bolts, or other means for use in attaching a cable anchor bracket.
A bolt pattern concentric with the engine throttle shaft is desirable.

2. **References**

- 2.1 **Applicable Publication**—The following publication forms a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

- 2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J917—Marine Push-Pull Control Cables

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