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INTERNATIONAL
400 Commonwealth Drive, Warrendale, PA 15096-0001

# SURFACE VEHICLE RECOMMENDED PRACTICE

SAE J960

REAF. FEB2001

Issued 1966-06
Reaffirmed 2001-02

Superseding J960 JUN1991

Submitted for recognition as an American National Standard

## Marine Control Cable Connection—Engine Clutch Lever

***1.*** ***Scope—***The purpose of this SAE Recommended Practice is to provide guides toward standard conditions for operating marine hydraulic transmissions where push-pull cable control is applicable.

For control cable information see SAE J917.

a. Provide suitable detents at forward, neutral, and reverse positions. Approximately 22 N (5 lb) of cable force are required to move the engine clutch lever out of the detent positions.
b. Provide an engine clutch lever with a 6.35 mm (1/4 in) diameter hole at a radius to provide 70 mm (2-3/4 in) linear travel from forward to reverse, with neutral at the center.
   The engine clutch lever (at 6.35 mm [1/4 in] diameter hole) to have 6.35 mm (1/4 in) maximum thickness.
   Common cable terminals used are ball joints, clevises, and pivots.
c. Provide clear cable path to engine clutch lever.
d. Provide choice of cable paths from different angles. This can be done by providing a sector type of lever with a series of holes equidistant from the centerline of the shaft. It can also be done by having the engine clutch lever repositionable on the engine clutch control shaft.
e. Provide bracket support near the engine clutch control shaft. This can be a hub, bolt holes, bolt, or other means for use for attaching a cable anchor bracket.
   A bolt pattern concentric with the engine clutch control 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 PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J917—Marine Push-Pull Control Cables



PREPARED BY THE SAE MARINE CONTROLS SUBCOMMITTEE
OF THE SAE MARINE TECHNICAL COMMITTEE



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