



SURFACE VEHICLE RECOMMENDED PRACTICE

J92™

JUN2019

Issued 1976-09
Reaffirmed 1995-05
Revised 2019-06

Superseding J92 AUG2010

Snowmobile Throttle Control Systems

RATIONALE

Changes reflect additional consideration related to electronic throttle control "Throttle by Wire" (5.4.1).

1. SCOPE

This SAE Recommended Practice is intended to provide the minimum acceptable criteria for snowmobile hand throttle control systems. This recommendation is not intended to cover competition vehicles, nor is it intended to limit development of new and/or improved technology in controls. Although these recommendations are primarily addressed to hand-control systems using an outer flexible conduit with a multiple strand inner cable, the basic requirements of freedom of movement, strength, material, etc., will apply to any system.

2. REFERENCES

2.1 Applicable Documents

The following publication forms a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

SAE J33 Snowmobile Definitions and Nomenclature - General

SAE Technical Standards Board Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2019 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
Tel: +1 724-776-4970 (outside USA)
Fax: 724-776-0790
Email: CustomerService@sae.org
<http://www.sae.org>

SAE WEB ADDRESS:

Full document details: SAE J92_201906

SAE values your input. To provide feedback on this Technical Report, please visit http://standards.sae.org/J92_201906

Documents
Document Sharing Hub

3. DEFINITIONS

3.1 SNOWMOBILE

As defined in SAE J33.

3.2 THROTTLE CONTROL

A hand-controlled device mounted on the steering control; either a lever type (squeeze grip) or a twist grip type. (See Figure 1.)

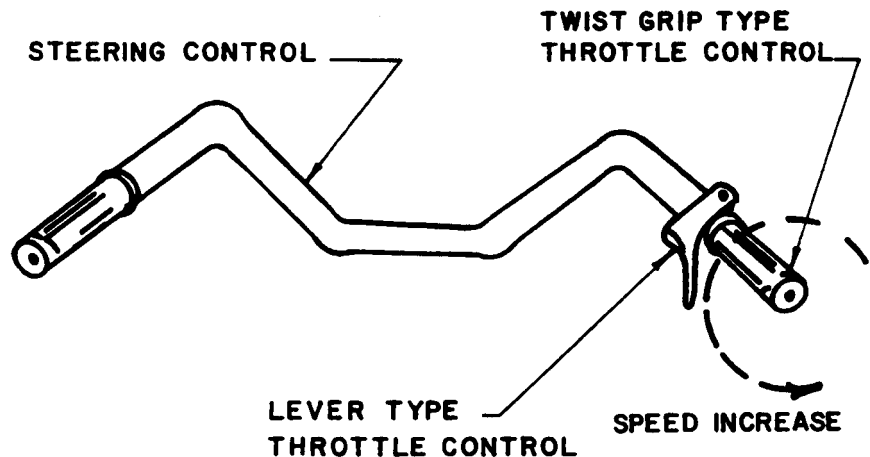


Figure 1 - Throttle control

3.3 SPEED CONTROLLER

A device such as a carburetor(s), fuel injection valves, sensors, electronic control device, etc., used to control the supply of energy (fuel) to the prime mover (engine-motor).

3.4 CONTROL TRANSFER

A means of transmitting mechanical motion or electronic command (throttle by wire) between two or more points.

3.4.1 CONTROL CABLE ASSEMBLY

A linkage consisting of a flexible assembly with an outer housing or conduit and an inner cable, usually multiple stranded; capable of transmitting motion between two points. This assembly is provided with connection means on both ends of housing and cable.

3.4.2 ELECTRONIC CONTROL

A control interface by means of direct electronic connection or remote control.

3.5 THROTTLE CONTROL SYSTEM

A complete system used to control engine(s) speed. This includes the throttle control, control linkage, sensors, electronic controller, speed controller input linkage, springs, brackets, etc., necessary for operation of the system. Any attachment to the system that affects its operation such as a warning light switch, safety switch, etc., shall be considered as part of the system.

3.6 RIGHT-RIGHT HAND, LEFT-LEFT HAND

Designation refers to orientation of the vehicle when the operator is seated in the operator's position, facing forward.