

	SURFACE VEHICLE RECOMMENDED PRACTICE	SAE J1079 OCT2012
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Overcenter Clutch Spin Test Procedure		

RATIONALE

The technical report covers technology, products, or processes which are mature and not likely to change in the foreseeable future.

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1. **Scope**—This SAE Recommended Practice applies to driving ring type overcenter clutches such as are used in industrial power takeoffs.
- 1.1 **Purpose**—This document is intended to provide a uniform test procedure for overcenter clutches to determine either the rotative speed at which they will burst or a specified speed they will withstand without burst.
2. **References**
 - 2.1 **Applicable Publication**—The following publication forms a part of the specification to the extent specified herein. Unless otherwise indicated the latest revision of SAE publications shall apply.
 - 2.1.1 SAE PUBLICATION—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J1240—Flywheel Spin Test Procedure
3. **Test Equipment**—Refer to SAE J1240 for a description of test equipment requirements.
4. **Test Procedure**
 - 4.1 Prior to spin testing, the item to be tested is to be identified, checked for material and dimensional defects, and balanced to print specification. Hardness readings should be recorded on all critical areas.
 - 4.2 Test should be performed in a minimum ambient temperature of 15 °C (60 °F). Record ambient temperature.
 - 4.3 **Mountings**—For items 4.3.2 through 4.3.5, use enough clamping force to hold the test piece in place on the fixture but not enough to counteract centrifugal force.
 - 4.3.1 CLUTCH ASSEMBLIES—Mount the clutch assembly on the test shaft in new clutch engaged or new clutch released position. Suitable spacers may be used to simulate a drive disc. The release bearing and bearing carrier may be removed.
 - 4.3.2 PRESSURE PLATE OR MULTIPLE-PLATE CLUTCH INTERMEDIATE PLATE—Mount the specimen on a test fixture piloting either by the same methods used in the clutch or by the ID.