

**NUMERICAL INDEX — DIVISION 159**

**ENGINES AND ENGINE SETS, MOTORS, DYNAMOTORS, AND DRIVES**

**1. GENERAL**

- 1.01** This section provides an index of System-issued sections in Division 159.
- 1.02** A bullet (●) indicates an item that has been added or changed since the previous issue of the index.
- 1.03** A square (□) indicates a canceled item. Information relating to the cancellation, if necessary, will be shown in a note following the item. Canceled items and related notes will be deleted upon reissue of the index.
- 1.04** A spade (♠) indicates an item not on microfiche. This index indicates the latest issue for hard-copy BSPs. In some cases, the microfiche BSP will reflect the next higher issue as a result of the reduced distribution interval.
- 1.05** "Add" is the abbreviation for Addendum.

**2. LAYERS**

**2.01** This division is arranged in layers as follows:

- 159-0 Indexes and Equipment Test Lists
  - 1 Engines and Engine Sets
  - 4 Motors and Dynamotors
  - 7 Drives

**3. INDEX**

Section Number	Issue	Subject
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**159-0 INDEXES AND EQUIPMENT TEST LISTS**

- ♠ 159-000-000 28 Numerical Index — Division 159 — Engines and Engine Sets, Motors, Dynamotors, and Drives

**159-001 Equipment Test Lists (ETL)**

- 159-001-011 5 Gasoline Engines — Power Systems Equipment
- 159-001-012 9 Motors — Power Systems Equipment
- 159-001-013 5 Drives — Power Systems Equipment

**159-1 ENGINES AND ENGINE SETS**

- |             |   |   |
|-------------|---|---|
| 159-108-301 | 1 | Gasoline Engines — Buffalo Type "ATT" — Operating Methods                                 |
| 159-108-701 | 3 | Gasoline Engines — Buffalo Type "ATT" — Requirements and Adjusting Procedures             |
| 159-108-801 | 2 | Gasoline Engines — Buffalo Type "ATT" — Replacement Parts and Procedures                  |
| 159-110-101 | 1 | Gasoline Engines — Types "ATT", "R" and "BA" — Description                                |
| 159-110-301 | 3 | Gasoline Engines — Buffalo Type "R" — Method of Operation                                 |
| 159-110-701 | 3 | Gasoline Engines — Buffalo Type "R" — Requirements and Adjusting Procedures               |
| 159-110-711 | 1 | Gasoline Engine Radiator Units — Buffalo Type "R" — Requirements and Adjusting Procedures |

Section Number	Issue	Subject
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|-------------|---|---|
| 159-110-801 | 2 | Gasoline Engines — Buffalo Type "R" — Replacement Parts and Procedures  |
| 159-110-811 | 1 | Gasoline Engine Radiator Units — Buffalo Type "R" — Replacement Parts and Procedures  |
| 159-115-301 | 3 | High-Speed Gasoline Engines — Hercules Types — Manual Start — Operating Methods   |
| 159-115-701 | 3 | High-Speed Gasoline Engines — Hercules Types — Manual Start — Requirements and Adjusting Procedures                               |
| 159-115-801 | 2 | High-Speed Gasoline Engines — Hercules Types — Replacement Parts and Procedures   |
| 159-150-701 | 3 | Foos Horizontal Type "SE" Gas and Gasoline and Type "SEK" Kerosene and Distillate Engines — Requirements and Adjusting Procedures |
| 159-151-301 | 1 | Foos Type "T" Engines — KS-5014 and KS-5102 — Method of Operation   |
| 159-151-701 | 2 | Gasoline Engines — Foos Type "T" — Requirements and Adjusting Procedures  |
| 159-155-701 | 1 | White and Middleton Gas and Gasoline Engines — Requirements and Adjusting Procedures  |
| 159-180-301 | 4 | KS-5525 Engine Sets — Gasoline — Automatic Operation — 5 and 6 KW DC and 12 KW AC — Operating Methods                             |
| 159-180-701 | 5 | KS-5525 Engine Sets — Gasoline — Automatic Operation — 5 and 6 KW DC and 12 KW AC — Requirements and Adjusting Procedures         |
| 159-180-801 | 2 | KS-5525 Engine Sets — Gasoline — Automatic Operation — 5 and 6 KW DC and 12 KW AC — Replacement Parts and Procedures              |

**159-4 MOTORS AND DYNAMOTORS**

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|-------------|---|--|
| 159-405-101 | 1 | Motors — Direct Current — 1/4 Horsepower or Larger — Description                           |
| 159-405-301 | 1 | Motor — Direct Current — 1/4 Horsepower or Larger — Operating Method                       |
| 159-405-701 | 3 | Motors — Direct Current — 1/4 Horsepower or Larger — Requirements and Adjusting Procedures |
| 159-405-801 | 2 | Motors — Direct Current — 1/4 Horsepower or Larger — Replacement Parts and Procedures      |
| 159-406-301 | 1 | Induction Motors — Two and Three Phase — Operating Methods                                 |
| 159-406-701 | 4 | Induction Motors — Two and Three Phase — Requirements and Adjusting Procedures             |

**NOTICE**

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**SECTION 159-000-000**

Section Number	Issue	Subject
159-406-801	2	Induction Motors — Two or Three Phase — Replacement Parts and Procedures
159-408-701	2	1/30 H.P. — 110 Volt Dc Drive Motor for 5-D and 6-A Distributors — Requirements and Adjusting Procedures
159-408-801	2	1/30 H.P. — 110 Volt DC Drive Motor for 5-D and 6-A Distributors — Replacement Parts and Procedures
159-410-301	1	Synchronous Motors With Direct Connected Exciters — Per KS-5123 — Description and Operation
159-410-701	2	Synchronous Motors — Requirements and Adjusting Procedures
159-410-801	2	Synchronous Motors — Replacement Parts and Procedures
159-413-701	2	1/50 Horsepower Drive Motor Used With Distributors and 155 Type and Similar Interrupters — Requirements and Adjusting Procedures
159-414-701	2	1/60 Horsepower Drive Motor — KS-5196 — Requirements and Adjusting Procedures
159-416-701	2	1/10 and 1/8 HP DC Motors — Requirements and Adjusting Procedures
159-416-801	2	1/10 and 1/8 HP DC Motors — Replacement Parts and Procedures
159-418-701	2	AC Unit Drive Motors — Panel Machine Switching Systems — Requirements and Adjusting Procedures
159-420-701	2	1/8 HP DC Drive Motors for Test Frames — Requirements and Adjusting Procedures
159-422-701	1	AC Power Failure Control Motor — Requirements and Adjusting Procedures
159-422-801	1	AC Power Failure Control Motor — Replacement Parts and Procedures
159-424-101	1	AC-DC Duplex Motors — Description
159-424-701	5	AC-DC Duplex Motors — Requirements and Adjusting Procedures
Add 159-424-801	1	
159-424-801	7	AC-DC Duplex Motors — Replacement Parts and Procedures
159-426-701	5	KS-5559 Gear Motor — Reversible AC Type — Requirements and Adjusting Procedures
159-426-801	2	KS-5559 Gear Motor — Reversible AC Type — Replacement Parts and Procedures
Add 159-428-701	1	
159-428-701	2	KS-5748 Motor — Requirements and Adjusting Procedures
159-429-701	1	KS-5753 Motor — Requirements and Adjusting Procedures
159-431-701	2	KS-5773 Motor — Requirements and Adjusting Procedures

Section Number	Issue	Subject
159-431-801	2	KS-5773 Motor — Replacement Parts and Procedures
159-432-701	1	KS-5777 Motor and KS-5778 Speed Regulator — Requirements and Adjusting Procedures
159-440-701	7	Output Motor Drive Unit — ED-40263-71, Groups 1, 2, and 3 — Requirements and Adjusting Procedures
159-440-801	4	Output Motor Drive Unit — ED-40263-71, Groups 1, 2, and 3 — Piece-Part Data and Replacement Procedures
159-441-701	2	Output Motor Drive Unit — ED-40026-01, Group 1 and Group 2 — Requirements and Adjusting Procedures
159-441-702	2	Output Motor Drive Unit — ED-40026-01, Group 3 — Requirements and Adjusting Procedures
159-441-801	2	Output Motor Drive Unit — ED-40026-01, Group 1 and Group 2 — Piece-Part Data and Replacement Procedures
159-441-802	2	Output Motor Drive Unit — ED-40026-01, Group 2 Modified by Group 3 Parts — Piece-Part Data and Replacement Procedures
159-442-701	1	Input Motor Drive Unit — ED-40026-01, G1 — Requirements and Adjusting Procedures
159-442-801	2	Input Motor Drive Unit — ED-40027-01, G1 — Piece-Part Data and Replacement Procedures
159-443-701	6	Input Motor Drive Unit — ED-40218-70, Groups 1, 2, 3, and 4 and ED-40301-70, Group 1 — Requirements and Adjusting Procedures
159-443-801	6	Input Motor Drive Units — ED-40218-70, Groups 1, 2, 3, and 4 and ED-40301-70, Group 1 — Piece-Part Data and Replacement Procedures
159-462-701	2	KS-15609 Motor — Requirements and Adjusting Procedures
159-462-801	2	KS-15609 Motor — Replacement Parts and Procedures
159-464-701	1	KS-15780 Motor — Requirements and Adjusting Procedures
159-480-701	6	Telechron Motors — Lubrication and Replacement
159-490-701	1	KS-15632 Dynamotor — Requirements and Adjusting Procedures
159-490-801	1	KS-15632 Dynamotor — Piece-Part Data and Replacement Procedures
<b>159-7 DRIVES</b>		
159-705-701	3	16-A — Requirements and Adjusting Procedures
159-705-801	1	16-A — Replacement Parts and Procedures
159-706-701	3	16-C and D-78675 — Requirements and Adjusting Procedures

Section Number	Issue	Subject	Section Number	Issue	Subject
159-706-801	1	16-C and D-78675 — Replacement Parts and Procedures	159-720-816	1	Friction Roll Drive Bearing Boxes — Procedure for Restoring Oil Closure Lip Clearance
Add 159-720-701	1		159-720-817	1	Repair of Vertical Drive Shafts
159-720-701	5	Friction Roll Drives — Requirements and Adjusting Procedures	159-725-701	3	Gear Reduction Drives, Horizontal Connecting Shafts, and Associated Bearings — Requirements and Adjusting Procedures
Add 159-720-801	1		Add 159-725-801	1	
159-720-801	4	Friction Roll Drives and Associated Brackets — Piece-Part Data and Replacement Procedures	159-725-801	3	Gear Reduction Drives, Horizontal Connecting Shafts, and Associated Bearings and Brackets — Piece-Part Data and Replacement Procedures
159-720-811	2	Procedure for Installing Bushings in Friction Roll and Gear Reduction Drive Shafts	159-730-701	2	Synchronous Motor Drive for KS-5073 Multi-Frequency Motor-Generator Sets — Requirements and Adjusting Procedures
159-720-812	2	Installing Stops on Gear Cases and Bearing Boxes of Friction Roll Drives	Add 159-735-701	1	
Add 159-720-813	1		159-735-701	6	Vertical Drive Shafts and Associated Apparatus — Requirements and Adjusting Procedures
159-720-813	2	Modification of Friction Roll Drive Gear Case to Prevent Loss of Oil At Oil Guard	159-735-801	7	Vertical Drive Shafts and Associated Apparatus — Piece-Part Data and Replacement Procedures
159-720-814	3	Procedure for Relieving Over-heating of Bearings — Friction Roll Drive Worm Case Housing Bearings			
159-720-815	2	Repair of Cork on Friction Roll Drives — Panel Offices			