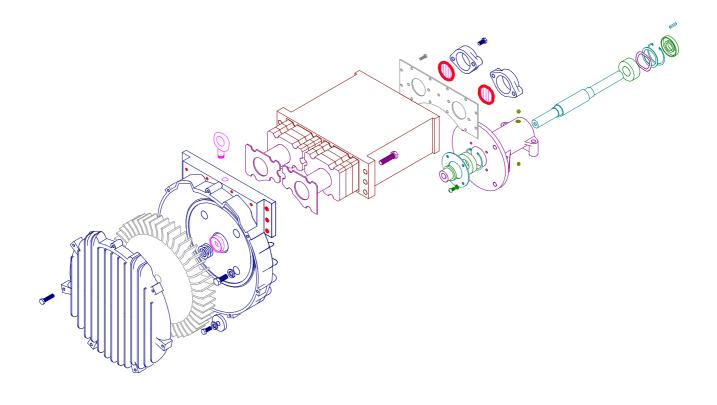
SERVICE AND PARTS MANUAL FOR BLOWER MODEL

EN523RDL - EN858RDL

REMOTE DRIVE REGENERATIVE BLOWER







AMETEK Dynamic Fluid Solutions 100 East Erie St., Kent, Ohio 44240

Telephone: 330-673-3452 Fax: 330-677-3306

email: dfs.information@ametek.com internet: www.ametekdfs.com

Your Choice. Our Commitment.™

WARRANTY, INSTALLATION, MAINTENANCE AND TROUBLESHOOTING INSTRUCTIONS



AMETEK

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1. AMETEK Rotron DR, EN and HiE regenerative direct drive blowers are guaranteed for one full year from the date of installation (limited to 18 months from the date of shipment) to the original purchaser only. Should the blower fail we will evaluate the failure If failure is determined to be workmanship or material defect related, we will at our option repair or replace the blower.

- 2. AMETEK Rotron Minispiral, Revaflow, Multiflow, Nautilair, remote drive blowers, moisture separators, packaged units, CP blowers, Nasty Gas™ models and special built (EO) products are guaranteed for one full year from date of shipment for workmanship and material defect to the original purchaser only. Should the blower fail, If failure is determined to be workmanship or material defect related, we will at our option repair or replace the blower.
- 3. **Parts Policy** AMETEK Rotron spare parts and accessories are guaranteed for three months from date of shipment for workmanship and material defect to the original purchaser only. If failure is determined to be workmanship or material defect related we will at our option repair or replace the part.

Corrective Action - A written report will be provided indicating reason(s) for failure, with suggestions for corrective action. Subsequent customer failures due to abuse, misuse, misapplication or repeat offense will not be covered. AMETEK Rotron will then notify you of your options. Any failed unit that is tampered with by attempting repair or diagnosis will void the warranty, unless authorized by the factory.

Terms and Conditions - Our warranty covers repairs or replacement of regenerative blowers only, and will not cover labor for installation, outbound and inbound shipping costs, accessories or other items not considered integral blower parts. Charges may be incurred on products returned for reasons other than failures covered by their appropriate warranty. Out-of-warranty product and in warranty product returned for failures determined to be caused by abuse, misuse, or repeat offense will be subject to an evaluation charge. Maximum liability will in no case exceed the value of the product purchased. Damage resulting from mishandling during shipment is not covered by this warranty. It is the responsibility of the purchaser to file claims with the carrier. Other terms and conditions of sale are stated on the back of the order acknowledgement.

Installation Instructions for SL, DR, EN, CP, and HiE Series Blowers

- 1. **Bolt It Down** Any blower must be secured against movement prior to starting or testing to prevent injury or damage. The blower does not vibrate much more than a standard electric motor.
- 2. **Filtration** All blowers should be filtered prior to starting. Care must be taken so that no foreign material enters the blower. If foreign material does enter the blower, it could cause internal damage or may exit at extremely high velocity.

Should excessive amounts of material pass through the blower, it is suggested that the cover(s) and impeller(s) be removed periodically and cleaned to avoid impeller imbalance. Impeller

imbalance greatly speeds bearing wear, thus reducing blower life. Disassembling the blower will void warranty, so contact the factory for cleaning authorization.

3. **Support the Piping** - The blower flanges and nozzles are designed as connection points only and are not designed to be support members.

Caution: Plastic piping should not be used on blowers larger than 1 HP that are operating near their maximum pressure or suction point. Blower housing and nearby piping temperatures can exceed 200°F. Access by personnel to the blower or nearby piping should be limited, guarded, or marked, to prevent danger of burns.

- 4. **Wiring** Blowers must be wired and protected/fused in accordance with local and national electrical codes. All blowers must be grounded to prevent electrical shock. Slo-Blo or time delay fuses should be used to bypass the first second of start-up amperage.
- 5. Pressure/Suction Maximums The maximum pressure and/or suction listed on the model label should not be exceeded. This can be monitored by means of a pressure or suction gage (available from Rotron), installed in the piping at the blower outlet or inlet. Also, if problems do arise, the Rotron Field representative will need to know the operating pressure/suction to properly diagnose the problem.
- 6. **Excess Air** Bleed excess air off. DO NOT throttle to reduce flow. When bleeding off excess air, the blower draws less power and runs cooler.

Note: Remote Drive (Motorless) Blowers - Properly designed and installed guards should be used on all belts, pulleys, couplings, etc. Observe maximum remote drive speed allowable. Due to the range of uses, drive guards are the responsibility of the customer or user. Belts should be tensioned using belt gauge.

Maintenance Procedure

When properly piped, filtered, and applied, little or no routine maintenance is required. Keep the filter clean. Also, all standard models in the DR, EN, CP, and HiE series have sealed bearings that require no maintenance. Bearing should be changed after 15,000 to 20,000 hours, on average. Replacement bearing information is specified on the chart below.

| Bearing Part Number | Size | Seal Material | Grease | Heat Stabilized |
|--|--|---------------|-------------------------------------|-----------------|
| 510217 510218 510219 | 205 206 207 | Polyacrylic | Nye Rheotemp 500 30% +/- 5% Fill | Yes – 325 F |
| 510449 516440 516648 | 203 202 307 | Buna N | Exxon Polyrex Grease | NO |
| 516840 516841 516842 516843 516844 516845 516846 516847 | 206 207 208 210 309 310 311 313 | Buna N | Exxon Polyrex Grease | NO |

Troubleshooting

| | | РО | SSIBLE CAUSE | OU | T OF WARRANTY REMEDY *** | | | | | | |
|---------------|--|----------|---|----|--------------------------------------|--|--|--|--|--|--|
| — | ы | 1. | * One phase of power line not connected | 1. | Connect | | | | | | |
| NOT | uno | 2. | * One phase of stator winding open | 2. | Rewind or buy new motor | | | | | | |
| ES | g S | 3. | Bearings defective | 3. | Change bearings | | | | | | |
| N N | Humming Sound | 4. | Impeller jammed by foreign material | 4. | Clean and add filter | | | | | | |
| | шr | 5. | Impeller jammed against housing or cover | 5. | Adjust | | | | | | |
| IMPELLER | | 6. | ** Capacitor open | 6. | Change capacitor | | | | | | |
| NPE | No Soun d | 1. | * Two phases of power line not connected | 1. | | | | | | | |
| = | oS N | 2. | * Two phases of stator winding open | 2. | Rewind or buy new motor | | | | | | |
| | Blown Fuse | 1. 2. | Insufficient fuse capacity Short circuit | 1. | Use time delay fuse of proper rating | | | | | | |
| | BI | | | 2. | Repair | | | | | | |
| _ | | 1. | High or low voltage | 1. | Check input voltage | | | | | | |
| | s S | 2. | * Operating in single phase condition | 2. | Check connections | | | | | | |
| | ate | 3. | Bearings defective | 3. | Check bearings | | | | | | |
| | Motor Overheated Or Protector Trips | 4. | Impeller rubbing against housing or cover | 4. | Adjust | | | | | | |
| SN | Ove | 5. | Impeller or air passage clogged by foreign material | 5. | Clean and add filter | | | | | | |
| MPELLER TURNS | or (rot | 6. | Unit operating beyond performance range | 6. | Reduce system pressure/vacuum | | | | | | |
| X | Mot | 7. | Capacitor shorted | 7. | Change capacitor | | | | | | |
| " | | 8. | * One phase of stator winding short circuited | 8. | Rewind or buy new motor | | | | | | |
| L E | lal I | 1. | Impeller rubbing against housing or cover | 1. | Adjust | | | | | | |
| Ž | Abnormal Sound | 2. | Impeller or air passages clogged by foreign | 2. | Clean and add filter | | | | | | |
| | so So | _ | material | 3. | Change bearings | | | | | | |
| | , | 3. | Bearings defective | | | | | | | | |
| | ce | 1. | Leak in piping | 1. | Tighten | | | | | | |
| | Performance Below Standard | 2. | Piping and air passages clogged | 2. | Clean | | | | | | |
| | orn v St | 3. | Impeller rotation reversed | 3. | Check wiring | | | | | | |
| | Perf slov | 4. | Leak in blower | 4. | Tighten cover, flange | | | | | | |
| | B H | 5. | Low voltage | 5. | Check input voltage | | | | | | |

^{* 3} phase units

Blower Disassembly:

WARNING: Attempting to repair or diagnose a blower may void Rotron's warranty. It may also be difficult to successfully disassemble and reassemble the unit.

- 1) Disconnect the power leads. **CAUTION:** Be sure the power is disconnected before doing any work whatsoever on the unit.
- 2) Remove or separate piping and/or mufflers and filters from the unit.
- 3) Remove the cover bolts and then the cover. **NOTE:** Some units are equipped with seals. It is mandatory that these seals be replaced once the unit has been opened.
- 4) Remove the impeller bolt and washers and then remove the impeller. **NOTE:** Never pry on the edges of the impeller. Use a puller as necessary.
- 5) Carefully note the number and location of the shims. Remove and set them aside. NOTE: If the disassembly was for inspection and cleaning the unit may now be reassembled by reversing the above steps. If motor servicing or replacement and/or impeller replacement is required the same shims may not be used. It will be necessary to re-shim the impeller according to the procedure explained under assembly.

^{** 1} phase units

^{***} Disassembly and repair of new blowers or motors will void the Rotron warranty. Factory should be contacted prior to any attempt to field repair an in-warranty unit.

- 6) Remove the housing bolts and remove the motor assembly (arbor/.housing on remote drive models).
- 7) Arbor disassembly (Applicable on remote drive models only):
 - a) Slide the bearing retraining sleeve off the shaft at the blower end.
 - b) Remove the four (4) screws and the bearing retaining plate from the blower end.
 - c) Lift the shaft assembly far enough out of the arbor to allow removal of the blower end snap ring.
 - d) Remove the shaft assembly from the arbor.
 - e) If necessary, remove the shaft dust seal from the pulley end of the arbor.

Muffler Material Replacement:

- 1) Remove the manifold cover bolts and them manifold cover.
- 2) The muffler material can now be removed and replaced if necessary. On blowers with fiberglass acoustical wrap the tubular retaining screens with the fiberglass matting before sliding the muffler pads over the screens.
- 3) Reassemble by reversing the procedure.

NOTE: On DR068 models with tubular mufflers it is necessary to remove the cover and impeller accessing the muffler material from the housing cavity.

Blower Reassembly:

- 1) Place the assembled motor (assembled arbor assembly for remote drive models) against the rear of the housing and fasten with the bolts and washer.
- 2) To ensure the impeller is centered within the housing cavity re-shim the impeller according to the procedure outlined below.
- 3) If blower had a seal replace the seal with a new one.
- 4) Place the impeller onto the shaft making sure the shaft key is in place and fasten with the bolt, washer and spacer as applicable. Torque the impeller bolt per the table below. Once fastened carefully rotate the impeller to be sure it turns freely.
- 5) Replace the cover and fasten with bolts.
- 6) Reconnect the power leads to the motor per the motor nameplate.

| Bolt Size | Torque |
|-----------|------------------|
| | Pound-Force-Foot |
| 1/4-20 | 6.25 +/- 0.25 |
| 5/16-18 | 11.5 +/- 0.25 |
| 3/8-16 | 20.0 +/- 0.5 |
| 1/2-13 | 49.0 +/- 1 |
| 5/8 –11 | 90.0 +/- 2 |

Impeller Shimming Procedure:

WARNING: This unit may be difficult to shim. Extreme care may be exercised.

Tools Needed: Machinist's Parallel Bar

Vernier Caliper with depth measuring capability Feeler gauges or depth gauge

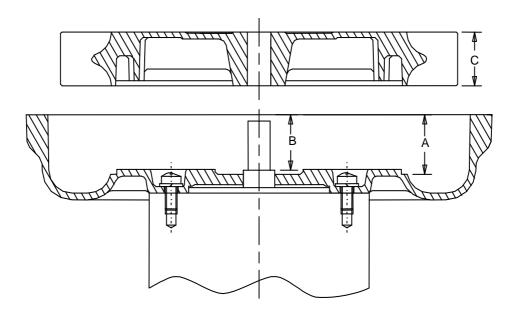
Measure the Following:

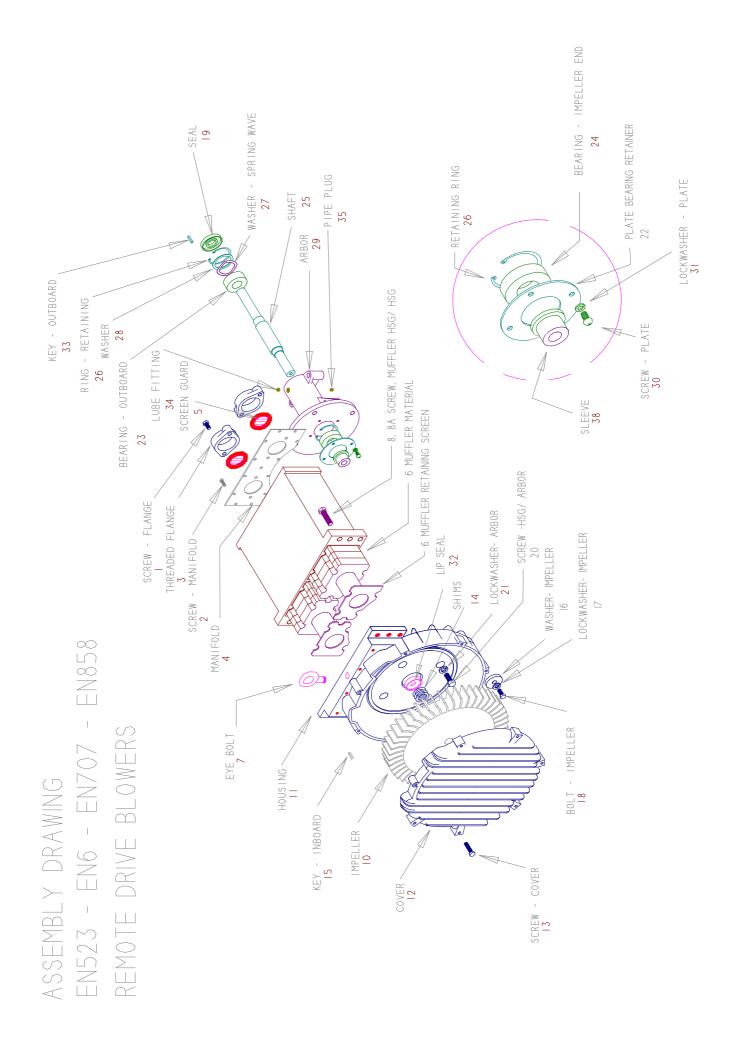
Distance from the flange face to the housing (A)
Distance from the flange face to the motor shaft shoulder (B)
Impeller Thickness (C)

Measurements (A) and (B) are made by laying the parallel bar across the housing flange face and measuring to the proper points. Each measurement should be made at three points, and the average of the readings should be used.

Shim Thickness = B - (A+C)/2

After the impeller installation (step #4 above) the impeller/cover clearance can be checked with feeler gauges, laying the parallel bar across the housing flange face. This clearance should nominally be (A-C)/2.





Remote Drive EN523,EN6,EN707,EN858 Service and Parts Manual

| e and Pa | e and Parts Manual | Model: Part No.: | EN523RDL 038342 | Parts B ENGRDL 038343 | Breakdown EN707RDML 038714 |
|----------|---------------------------------------|---------------------|--------------------|-----------------------------|----------------------------------|
| Q Vtv | | | | | |
| Req'd | d Description | | | | |
| 4 | Screw, Flange | | 120162 | 120065 | 155067 |
| 10 | Screw, Manifold |) | (10 pcs) 120214 | Not Used | Not Used |
| 2 | Flange | | 510354 | 478341 | 511614 |
| _ | Manifold | | 529868 | Not Used | Not Used |
| 2 | Screen Guard | | Not Used | 511479 | Not Used |
| 4 | Muffler Material (Dark Grey) | | 516560 | Not Used | (7) 551720 |
| 1 | Screen, Muffler Retaining, Right (**) | | 511718 | Not Used | 551723 |
| 1 | Screen, Muffler Retaining, Left (**) | | 511718 | Not Used | 551723 |
| 2 | Muffler Material (White Piece) | | Not Used | Not Used | 551721 |
| 1 | Eyebolt | | Not Used | Not Used | Not Used |
| 9 | Screw, Muffler Hsg/Hsg | | Not Used | Not Used | 120251 |
| 4 | Screw, Muffler Hsg/Hsg | | Not Used | Not Used | 120325 |
| 1 | Impeller | | (2 pcs) 516562 | 515484 | 515461 |
| 1 | Center Annulus | | 516555 | Not Used | Not Used |
| 1 | Housing | | 529446 | 516747 | 516752 |
| 1 | Muffler Housing | | Not Used | Not Used | 550024 |
| 1 | Cover | | 516559 | 515488 | 515462 |
| 8 | Screw, Cover | | 155098 | 155170 | (7 pcs) 155236 |
| * | | | 510292 | 272703 | 272703 |
| * | | | 500664 | 272704 | 272704 |
| * | | | 500665 | 272705 | 272705 |
| * | | | 200666 | 272706 | 272706 |
| * | Shim .025" | | 200667 | Not Used | Not Used |
| 1 | Key, Shaft Inboard | | 155099 | 510212 | 510212 |
| 1 | Washer Flat Impeller | | 510355 | 478336 | 478336 |
| 1 | Lockwasher Impeller | | 120203 | 251787 | 251787 |
| 1 | Bolt, Impeller | | 120214 | 251791 | 251791 |
| | Spacer, Shaft/Impeller | | Not Used | Not Used | Not Used |
| 1 | Seal, Shaft/Arbor | | 511446 | 510282 | 510282 |
| | Retainer Seal | | 511440 | Not Used | Not Used |
| | | | | | |

10 10B 11B

Remote Drive EN523, EN6, EN707, EN858

Service and Parts Manual

Model: EN523RDL EN6RDL EN707RDML Part No.: 038342 038343 038714

| Item | Qty. | | | |
|------|-------|--------------------------|-------------------|----------|
| No. | Red'd | Description | | |
| 20 | 4 | Screw, Hsg/Arbor | 251791 251792 | 251792 |
| 21 | 4 | Lockwasher, Hsg/Arbor | Not Used Not Used | Not Used |
| 22 | _ | Plate, Bearing Retainer | 511442 510287 | 510287 |
| 23 | _ | Bearing Outboard | 529191 529192 | 529192 |
| 24 | _ | Bearing, Impeller End | 510217 510218 | 510218 |
| 25 | _ | Shaft | 516591 510284 | 510284 |
| 26 | 2 | Ring Retainer | 140004 120202 | 120202 |
| 27 | 1 | Washer, Wave Spring | 120247 120201 | 120201 |
| 28 | | Washer | Not Used Not Used | Not Used |
| 29 | 1 | Arbor | 511434 510286 | 510286 |
| 30 | 4 | Screw, Plate | 251207 120204 | 120204 |
| 31 | 4 | Lockwasher, Plate | 140009 120203 | 120203 |
| 32 | 1 | Lip Seal, Shaft/Hsg | 516691 516691 | 516691 |
| 33 | 1 | Key, Shaft Outboard | 511443 510289 | 510289 |
| 34 | | Lube Fitting | Not Used Not Used | Not Used |
| 35 | | Pipe Plug | Not Used Not Used | Not Used |
| 36 | | Heat Slinger Assembly | Not Used Not Used | Not Used |
| 38 | 1 | Sleeve, Bearing Retainer | 516599 550169 | 550169 |
| | 2 | Muffler Discrete | Not Used 522948 | Not Used |
| | | | | |

EN858RDL 038746

| 155067 Not Used | (7) 551736 | 551723 | 551723 | 551737 | 140019 | 155025 | 120214 | 515249 | Not Used | 516764 | 550019 | 511547 | 511548 | 511549 | 511550 | Not Used | 511532 | 511529 | 251788 | 120210 | 515555 | 510952 | 7001 +014 |
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