

Parts Manual
823008
05/10/2011

Cleco®

1700 & 1900 Series
Vertical Grinders



For additional product information visit our website at <http://www.apextoolgroup.com>

Cleco®
Nomenclature

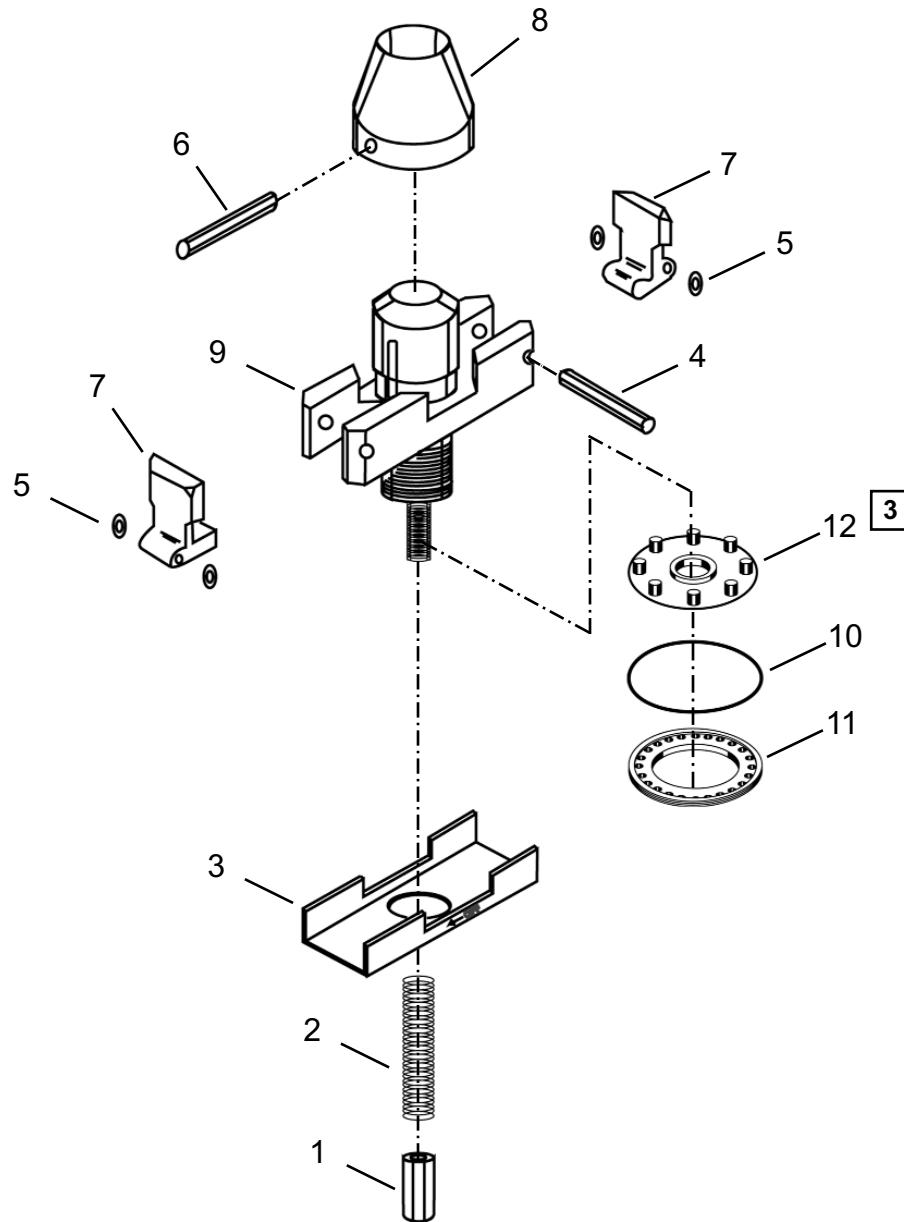
823008
May 16, 2008

	XX	XX	B	V	X	-	XX
<u>Tool Series</u> 17 = 1700 19 = 1900							
<u>Tool RPM</u> 45 = 4500 60 = 6000 77 = 7700							
<u>Tool Generation</u> B = Second							
<u>Tool Type</u> V = Vertical							
<u>Throttle Terminations</u> --- = Quick Release L = Lever (Lock Off)							
<u>Wheel Type</u> 06 = 6" Type 6 or 11 Cup Wheel 07 = 7" Type 27 or 28 Depressed Center Wheel 09 = 9" Type 27 Depressed Center Wheel 11 = 9" Type 28 Depressed Center Wheel							

Cleco®
1700 & 1900 Vertical Grinders

“A”

201788 Governor & Shut-Off Disc Assembly (60)
201789 Governor & Shut-Off Disc Assembly (45)
201790 Governor & Shut-Off Disc Assembly (77)



3 See Assembly Notes.

1700 & 1900 Vertical Grinders

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "A"

Ref.	Number	#	X	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	204730	1	2	Adjusting Nut	StellmuFter	Stellmutter	Tuerca ajustadora	Dado di regolazione
2	Table "A"	1	3	Spring	Druckfeder	Ressort	Resorte	Molla
3	867770	1		Pin Retainer	Haltevorrichtung	Bague d'arrêt	Retén	Fermo
4	413050	2	4	Weight Pin	Stift	Goupille cylindrique	Pasador	Spina
5	204187	4	12	Washer	Scheibe	Rondelle	Arandela	Rondella
6	413047	1	2	Cone Pin	Stift	Goupille cylindrique	Pasador	Spina
7	Table "A"	2		Governor Weight	Gewicht	Poids	Peso	Peso
8	413048	1		Governor Cone	Kappe	Chapeau	Tapa	Cappello
9	869099	1		Governor Spider	Mitnehmer	Transporteur	Conductor	Motrice
10	865520	1	3	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
11	867765	1	1	Disc Seal Plate	Platte	Plaque	Placa	Piattello
12	Table "A"	1	1	Shut-Off Disc	Platte	Plaque	Placa	Piattello

(#) Quantity / Stückzahl / Quantité / Cantidad / Quantità

(X) Recommended Spare Parts / Kennzeichnet empfohlenes / Identifica un particolare di ricambio raccomandato / Designa el repuesto recomendado / Indique la pièce de rechange conseillée.

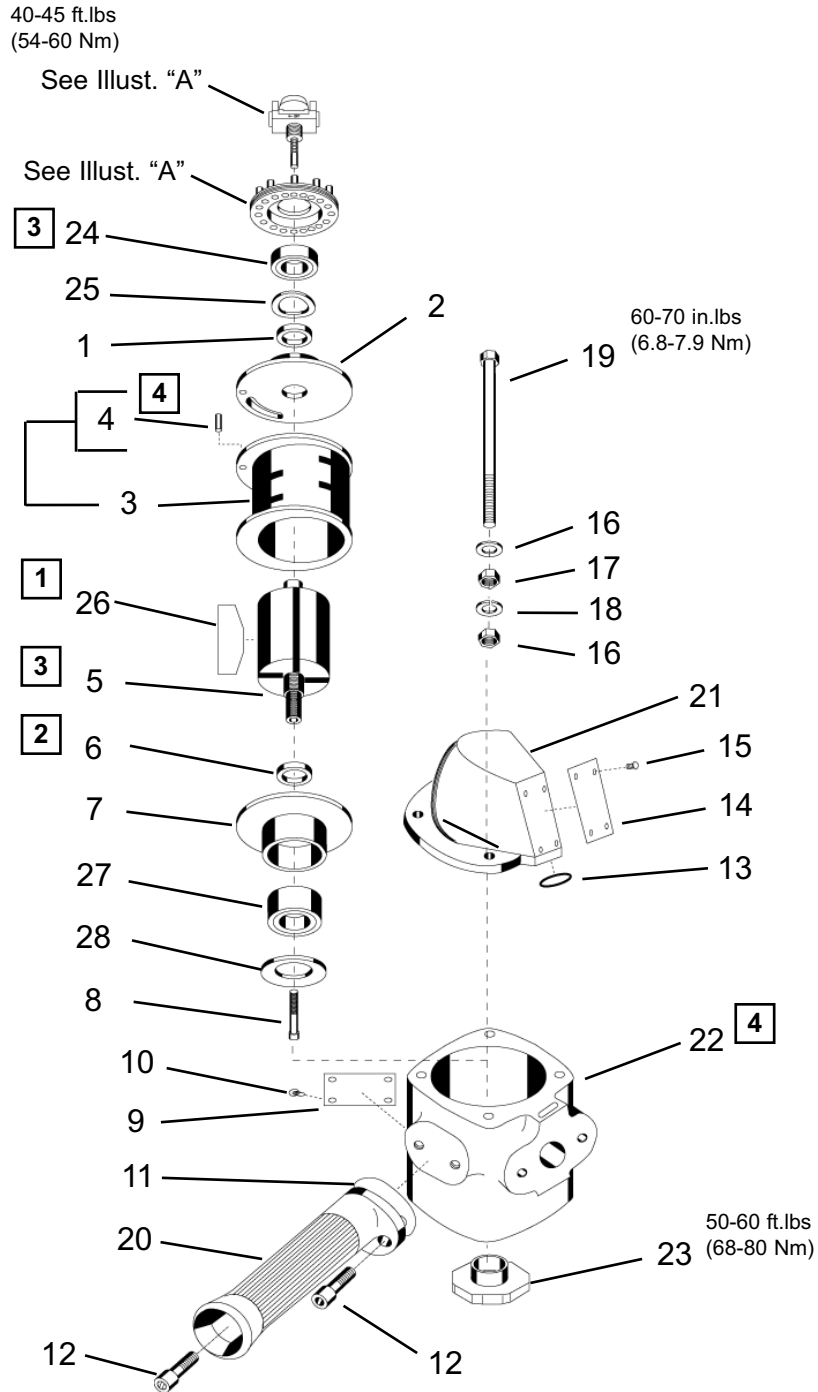
Table, Tabelle, Tableau, Tabla, Tabella "A"

Ref.	Description	#	1745	#	1760	#	1777
			1945		1960		
2	Spring	1	413041	1	413042	1	413041
7	Governor Weight	2	413270	2	413270	2	413210
12	Shut-Off Disc	1	869834	1	869835	1	869837

Cleco®
1700 & 1900 Vertical Grinders

“B”

Motor Unit Assembly



1 2 3 4 See Assembly Notes.

1700 & 1900 Vertical Grinders

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "B"

Ref.	Number	#	X	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	867749	1	2	Rear Rotor Collar	Distanzstück	Entretoise	Espaciador	Distanziale
2	869819	1		Rear Bearing Plate	Platte	Plaque	Placa	Piattello
3	Table "B"	1	1	Cylinder	Zylinder	Cylindre	Cilindro	Cilindro
4	847548	1	3	Pin	Stift	Goupille cylindrique	Pasador	Spina
5	Table "B"	1	1	Rotor	Rotor	Rotor	El rotor	Il rotore
6	Table "B1"	1	2	Front Rotor Collar	Distanzstück	Entretoise	Espaciador	Distanziale
7	869814	1		Front Bearing Plate	Platte	Plaque	Placa	Piattello
8	622060	1	3	Spindle Plug	Buchse	Bouchon	Tapón	Spina
9	203011	1		Caution Tag	Aufkleber	Etiquette	Etiqueta	Etichette
10	834228	2	3	Drive Screw	Triebsschraube	Vis d'entraînement	Clavo de rosca	Vite di trasmissione
11	867747	1	3	Gasket	Dichtung	Joint d'étanchéité	Empaquetadura	Guarnizione
12	813041	2	4	Bolt	Bolzen	Boulon	Perno	Dado
13	834619	1	3	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
14	203208	1		Instruction Plate	Platte	Plaque	Placa	Piattello
15	202020	4	12	Drive Screw	Triebsschraube	Vis d'entraînement	Clavo de rosca	Vite di trasmissione
16	832899	4	12	Flat Washer	Scheibe	Rondelle	Arandela	Rondella
17	842341	8	16	Hex Nut	Sechskantmutter	Erou à six pans	Arandela hexagonal	Dado esagonale
18	844287	4	12	Lock Washer	Sicherungsscheibe	Rondelle frein	Arandela de presión	Rondella di bloccaggio
19	Table "B"	4	4	Bolt	Bolzen	Boulon	Perno	Dado
20	867764	1		Dead Handle	Handgriff	Poignée	Manija	Impugnatura
21	867832	1		Governor Housing	Gehäuse	Corps	Caja	Corpo
22	Table "B"	1		Motor Housing	Gehäuse	Corps	Caja	Corpo
23	204636	1	1	Driving Flange	Flansch	Rebord	Pestaña	Flangia
24	869820	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
25	863925	1	1	Wavy Washer	Scheibe	Rondelle	Arandela	Rondella
26	Table "B"	4	8	Rotor Blade	Rotorblatt	Palette	Alabe del rotor	Paletta del rotore
27	869818	1	2	Bearing	Lager	Coussinet	Cojinete	Cuscinetto
28	869817	1	1	Spring Washer	Scheibe	Rondelle	Arandela	Rondella

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Table, Tabelle, Tableau, Tabla, Tabella "B"

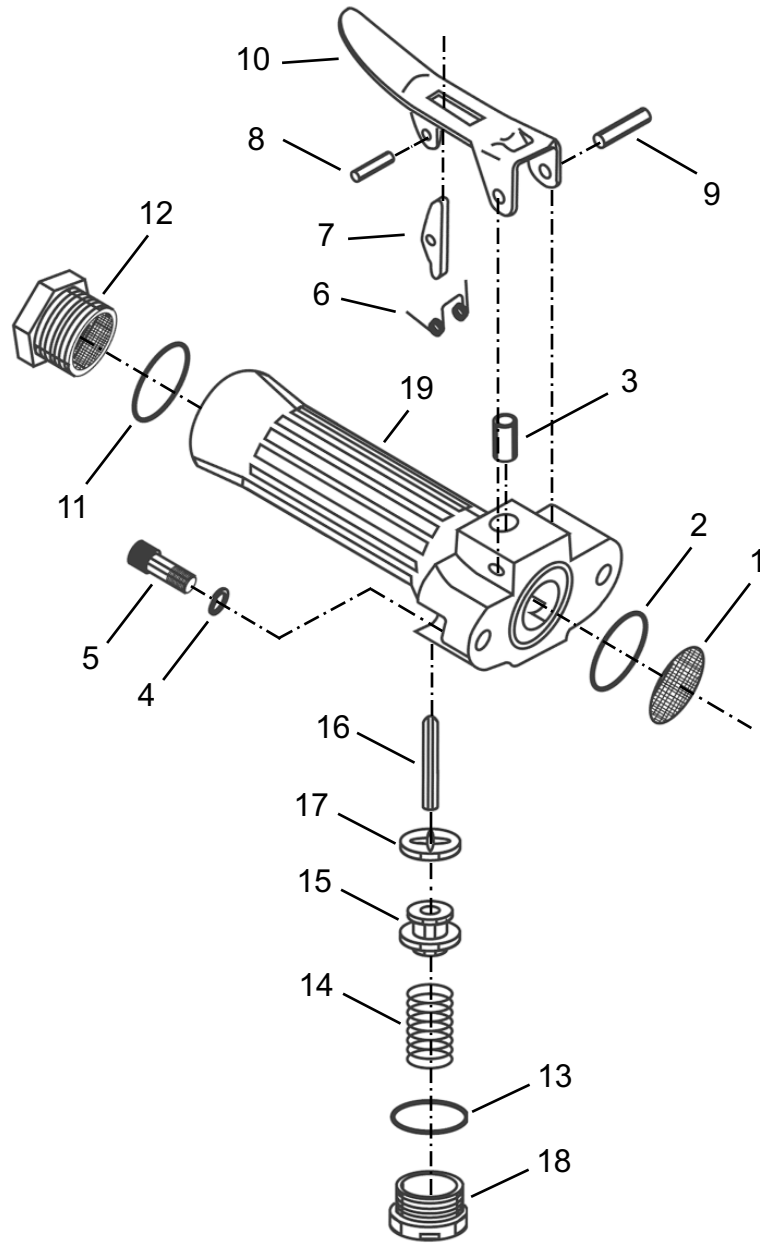
Ref.	Description	#	1700 Series	#	1900 Series
3	Cylinder	1	867776	1	867825
5	Rotor	1	204645	1	204646
19	Bolt	4	867746	4	867822
22	Motor Housing	1	867504	1	867503
26	Rotor Blade	4	204644	4	204643

Table, Tabelle, Tableau, Tabla, Tabella "B1"

Part No.	Thickness
869609	.1515"-.1510"
869610	.1505"-.1500"
869892	.1495"-.1490"
869893	.1485"-.1480"
869608	.1525"-.1520"

“C”

861896 Lock Off Lever Handle Assembly



1700 & 1900 Vertical Grinders

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "C"

Ref.	Number	#	X	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	867729	1	3	Air Screen	Lufffilter	Ecran d'air	Malla de aire	Schermo aria
2	844323	1	3	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
3	867756	1		Throttle Pin Bushing	Einlaß Buchse	Bushing d'arrivée	Buje de cala	Bushing di apertura
4	844912	2	6	Lock Washer	Scheibe	Rondelle	Arandela	Rondella
5	813041	2	2	Screw	Schraube	Vis	Tornillo	Vite
6	864620	1	3	Pawl Spring	Druckfeder	Ressort	Resorte	Molla
7	867731	1	1	Pawl	Hebel	Levier	Palanca	Leva
8	845322	1	1	Pawl Pin	Stift	Goupille cylindrique	Pasador	Spina
9	845228	1	1	Throttle Lever Pin	Stift	Goupille cylindrique	Pasador	Spina
10	867769	1	1	Lock Off Lever	Hebel	Levier	Palanca	Leva
11	867732	1	3	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
12	867758	1	1	Inlet Bushing	Einlaß Buchse	Bushing d'arrivée	Buje de cala	Bushing di apertura
13	833961	1	3	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
14	413056	1	3	Throttle Valve Spring	Druckfeder	Ressort	Resorte	Molla
15	861009	1		Throttle Valve	Drosselventil	Papillon	Válvula de estrangulación	Valvola di regolazione
16	869429	1		Throttle Pin	Stift	Goupille cylindrique	Pasador	Spina
17	869539	1	3	Throttle Valve Seal	Dichtung	Sceau	Sello	Guarnizione
18	867753	1		Throttle Valve Cap	Kappe	Chapeau	Tapa	Cappello
19	861896	1		Handle	Handgriff	Poignée	Manija	Impugnatura

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Cleco®
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“D” Cup Wheels
 (Type 6 or 11)

2" (150mm) Max.
 5" (125mm) or 6" (150mm) Max CUP (Type 6 or 11) with Stationary Guard

“E” 7" or 9" Depressed Center
 (Type 27 or 28)

“F” 7" or 9" Depressed Center
 (Type 27)

“G”

Driving Flange Wrench
 Part No. 889381

Wheel Guards, Wrenches and Adapters

Illustration, Abbildung, Illustration, Ilustración, Illustrazione "D"

Ref.	Number	#	X	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	204635	1	1	Wheel Retainer	Haltevorrichtung	Bague d'arrêt	Retén	Fermo
2	204663	1	1	Retainer Bolt	Bolzen	Boulon	Perno	Dado
3	861893	1		6" Wheel Guard	Radschutz	Protection d'engrenage	Protector de rueda	Riparo mola
4	844287	4	8	Lock Washer	Sicherungsscheibe	Rondelle frein	Arandela de presión	Rondella di bloccaggio
5	842341	4	8	Hex Nut	Sechskantmutter	Erou à six pans	Arandela hexagonal	Dado esagonale
6	202405	1		Warning Label	Warnschild	Plaquette d'avertissement	Etiqueta de precaución	Etichetta d'avvertimento

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Illustration, Abbildung, Illustration, Ilustración, Illustrazione "E"

Ref.	Number	#	X	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	849269	1		Adapter Kit	Satz	Ensemble	Juego	Corredo
2	--	2		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
3	--	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
4	--	1		Adapter Nut	Mutter	Ecrou	Tuerca	Dado
5	--	1		Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
6	867740	1		7" Type 27 Guard	Schutzvorrichtung	Protection	Guarda	Protezione
	867741	1		9" Type 27 Guard	Schutzvorrichtung	Protection	Guarda	Protezione
	867740	1		7" Type 28 Guard	Schutzvorrichtung	Protection	Guarda	Protezione
	869067	1		9" Type 28 Guard	Schutzvorrichtung	Protection	Guarda	Protezione
7	844287	4	8	Lock Washer	Sicherungsscheibe	Rondelle frein	Arandela de presión	Rondella di bloccaggio
8	842341	4	8	Hex Nut	Sechskantmutter	Erou à six pans	Arandela hexagonal	Dado esagonale
9	202408	1		Warning Label	Warnschild	Plaquette d'avertissement	Etiqueta de precaución	Etichetta d'avvertimento

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Illustration, Abbildung, Illustration, Ilustración, Illustrazione "F"

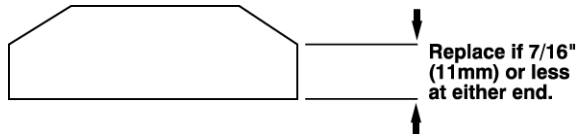
Ref.	Number	#	X	EN	DE	FR	ES	IT
				Description	Benennung	Designation	Descripción	Descrizione
1	843851	2		Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
2	843586	1		Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
3	843587	1		Adapter Nut	Mutter	Ecrou	Tuerca	Dado
4	849834	1		Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
5	867740	1		7" Type 27 Guard	Schutzvorrichtung	Protection	Guarda	Protezione
	867741	1		9" Type 27 Guard	Schutzvorrichtung	Protection	Guarda	Protezione
6	844287	4	8	Lock Washer	Sicherungsscheibe	Rondelle frein	Arandela de presión	Rondella di bloccaggio
7	842341	4	8	Hex Nut	Sechskantmutter	Erou à six pans	Arandela hexagonal	Dado esagonale
8	202408	1		Warning Label	Warnschild	Plaquette d'avertissement	Etiqueta de precaución	Etichetta d'avvertimento

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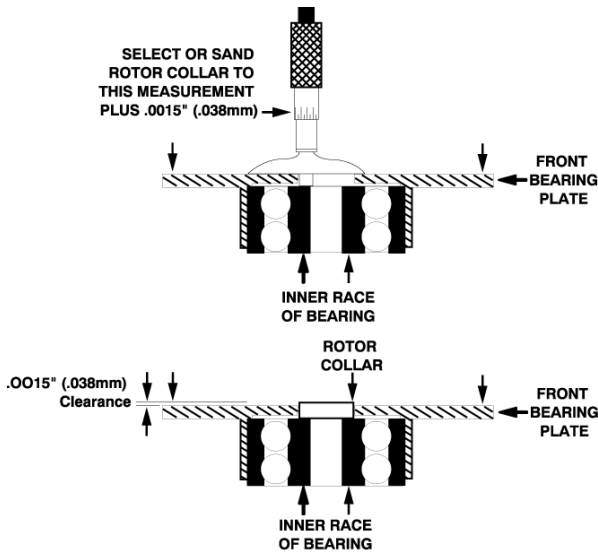
1 Illustration "F"

Rotor Blades should be replaced at every repair cycle or if they measure 7/16" (11mm) or less at either end.



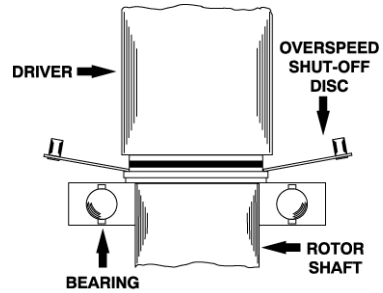
2 Illustration "F"

The correct Front Rotor Collar must be installed to properly position the Rotor with the Front Bearing Plate. When assembled, there must be a .0015" (.038mm) to .0025" (.063mm) clearance between the Rotor and the Front Bearing Plate.



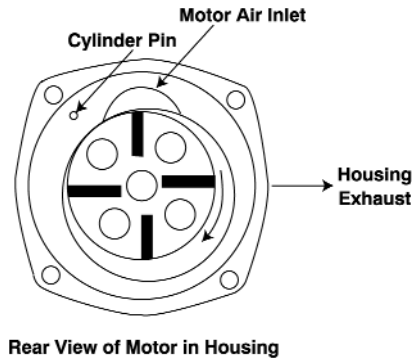
3 Illustrations "E" & "F"

The complete overspeed shut-off disc assembly must be assembled to the rotor shaft using a suitable flat driver (7/8" [22.5mm] O.D. min.) resting against the assembly. Drive the disc assembly down until it stops against the rear bearings inner race.



4 Illustration "F"

Slide the motor assembly into the housing making sure the rear cylinder pin and motor air inlet are positioned as shown. This positions the exhaust slots for minimum sound level.



Sales & Service Centers

Note: All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

Dallas, TX
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