COOPER Power Tools

Parts Manual • Ersatzteil–Liste

PL30-1212 December 13, 2006

DOTCO®

45-8213

12L12 .. Series
.3 hp ERGO Right Angle Grinders & Sanders



12	L	1	2	00	-	36	08	OH

Product Classification
- **12 =** Ergo Grinder/Sander

Throttle Type
- **L =** Locking Lever
- **S =** Locking Lever

Motor Size
- **1 =** 0.3 Horsepower

Handle Style
- **2 =** Right Angle

Speed Options (RPM)

Front Exhaust	Rear Exhaust
00 = 12,000	**80 =** 12,000
01 = 20,000	**81 =** 20,000

Termination Code
- **27 =** 3/8"-24 External Thread Spindle (Type 1 Cutoff Wheels)
- **32 =** 1/4"-28 Internal Thread Spindle
- **34 =** 5/16"-24 Internal Thread Spindle
- **35 =** 3/8"-24 Internal Thread Spindle
- **36 =** 300 Series, 1/4" (3 piece) Collet
- **45 =** 1/4" Universal Collet Spindle

Optional Collet (no extra cost)
- **08 =** 1/8" Collet
- **14 =** 7/32" Collet
- **M6 =** 6mm Collet

Overhose Option (extra cost)
- **OH =** Overhose (Rear Exhaust only)

IMPORTANT: Read and comply with all safety and operating instructions.

For additional product information visit our website at www.cooperpowertools.com

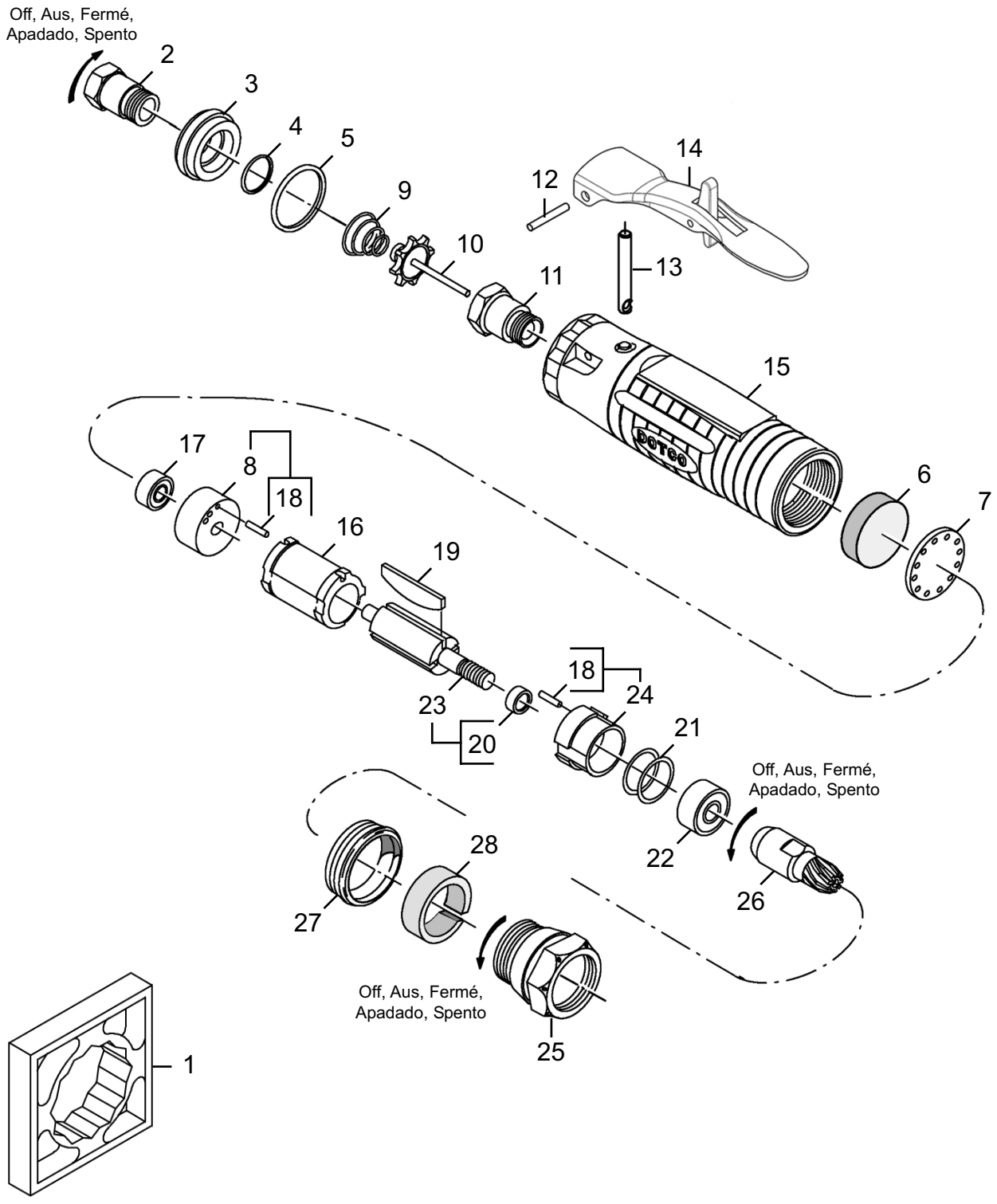
Cooper Power Tools
P.O. Box 1410
Lexington, SC 29071-1410

DOTCO

12-12 Series ERGO Right Angle Grinders & Sanders

"A"

Front Exhaust



12-12 Series ERGO Right Angle Grinders & Sanders

Illustration "A" - Front Exhaust

Ref.	Number	#	●	Kit	EN	DE	FR	ES	IT
					Description	Benennung	Designation	Description	Descrizione
1	14-0851	1			Housing Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
2	01-2505	1		K1	Inlet Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
3	01-2506	1		K1	Exhaust Plug	Buchse	Bouchon	Tapón	Spina
4	2965	1	●	K1	O-Ring	O-Ring	Joint torique	Anillo “O”	Anello ad O
5	3036	1	●	K1	O-Ring	O-Ring	Joint torique	Anillo “O”	Anello ad O
6	01-1046	1	●	K1	Filter Disc	Platte	Plaque	Placa	Piattello
7	01-1016	1		K1	Filter Retainer	Haltevorrichtung	Bague d’arrêt	Retén	Fermo
8	1003	1			Rear Plate	Hintere Platte	Plaque arrière	Placa posterior	Piattello posteriore
9	01-2519	1	●	K2	Valve Spring	Druckfeder	Ressort	Resorte	Molla
10	01-2518	1		K2	Valve	Ventil	Soupape	Válvula	Valvola
11	01-2504	1		K2	Valve Seat	Ventilsitz	Siège de soupape	Asiento de la válvula	Sede valvola
12	1042	1		K2	Lever Pin	Stift	Goupille cylindrique	Pasador	Spina
13	01-1017	1		K2	Push Rod	Stange	Tige	Varilla	Asta
14	01-1267	1		K2	Lock-Off Lever Asm	Hebel	Levier	Palanca	Leva
15	01-1001	1			Motor Housing	Gehäuse	Corps	Caja	Corpo
16	1002	1			Cylinder	Zylinder	Cylindre	Cilindro	Cilindro
17	504	1	●	K3	Ball Bearing	Kugellager	Roulement à billes	Cojinete de bolas	Cuscinetto a sfera
18	1041	2	●	K3	Pin	Stift	Goupille cylindrique	Pasador	Spina
19	1006 *	4	●	K3	Rotor Blade	Rotorblatt	Palette	Alabe del rotor	Paletta del rotore
20	1017	1		K3	Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
21	1355	1	●	K3	Shim Packet	Unterlegstück	Cale pelable	Calzo	Spessore
22	538	1	●	K3	Ball Bearing	Kugellager	Roulement à billes	Cojinete de bolas	Cuscinetto a sfera
23	1005	1			Rotor	Rotor	Rotor	El rotor	Il rotore
24	1064	1			Front Plate	Vorderplatte	Plaque de devanture	Placa frontal	Piattello anteriore
25	01-1043	1		K4	Lock Ring	Verschlußring	Bague de verrouillage	Anillo de cierre	Anello di bloccaggio
26	Table A	1		K7	Pinion	Pinion	Pignon	Piñón	Il pignone
27	01-1045	1		K4	Lock Ring Sleeve	Hülse	Douille	Manguito	Manicotto
28	01-1021	1		K1	Muffler Felt	Filzschalldämpfer	Silencieux de feutre	Silenciador de fieltro	Feltro silenziatore
Not Shown									
--	14-0807	1			7/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
--	14-0811	1			11/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
Repair Kits:									
K1	04-0155	1			Air Inlet Kit	Satz	Ensemble	Juego	Corredo
K2	04-0085	1			Throttle Kit	Satz	Ensemble	Juego	Corredo
K3	04-0042	1			Motor Kit	Satz	Ensemble	Juego	Corredo
K4	04-0156	1			Housing Kit	Satz	Ensemble	Juego	Corredo
K7	Table A	1			Bevel Gear Kit	Satz	Ensemble	Juego	Corredo
*	04-0031	1			Rotor Blade Kit	Satz	Ensemble	Juego	Corredo
●	04-0213	1			Tune Up Kit	Satz	Ensemble	Juego	Corredo

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

Table "A"

Ref.	Description	Qty.	12-1200	Qty.	12-1201
26	Pinion	1	1066	1	1187
K7	Bevel Gear Kit	1	04-0158	1	04-0078

DOTCO

12-12 Series ERGO Right Angle Grinders & Sanders

"B"

Rear Exhaust

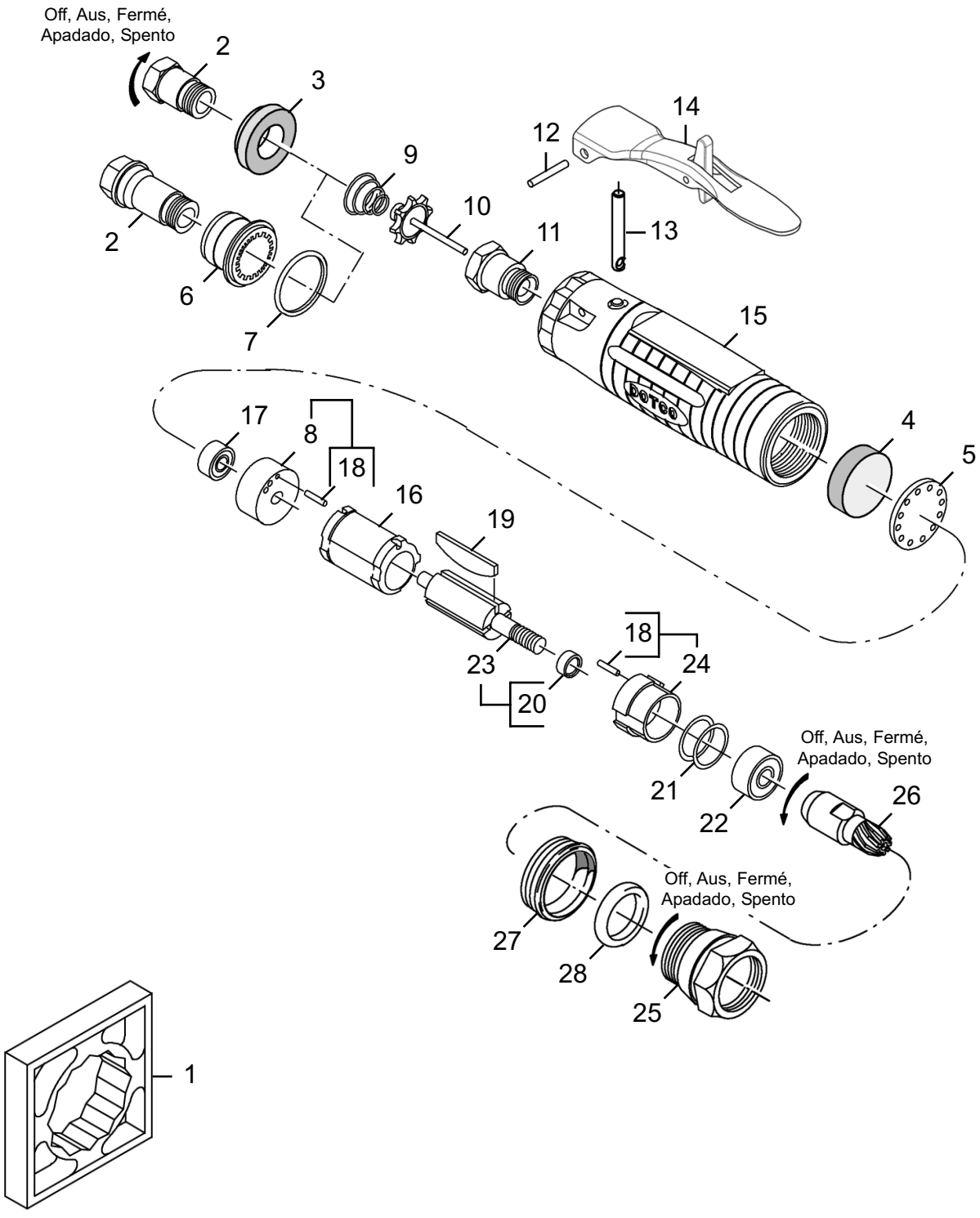


Illustration "B" - Rear Exhaust

Ref.	Number	#	●	Kit	EN	DE	FR	ES	IT
					Description	Benennung	Designation	Description	Descrizione
1	14-0851	1			Housing Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
2	Table B	1		K5	Inlet Adapter	Zwischenstück	Adaptateur	Adaptador	Adattatore
3	01-2520	1	●	K5	Diffuser	Diffuser	Diffuseur	Diffuseur	Diffusore
4	01-1046	1	●	K5	Filter Disc	Platte	Plaque	Placa	Piattello
5	01-1016	1		K5	Filter Retainer	Haltevorrichtung	Bague d'arrêt	Retén	Fermo
6	01-1032	1	●	K5	Muffler	Schalldämpfer	Silencieux	Silenciador	Silenziatore
7	3036	1	●	K5	O-Ring	O-Ring	Joint torique	Anillo "O"	Anello ad O
8	1003	1			Rear Plate	Hintere Platte	Plaque arrière	Placa posterior	Piattello posteriore
9	01-2519	1	●	K2	Valve Spring	Druckfeder	Ressort	Resorte	Molla
10	01-2518	1		K2	Valve	Ventil	Soupape	Válvula	Valvola
11	01-2504	1		K2	Valve Seat	Ventilsitz	Siège de soupape	Asiento de la válvula	Sede valvola
12	1042	1		K2	Lever Pin	Stift	Goupille cylindrique	Pasador	Spina
13	01-1017	1		K2	Push Rod	Stange	Tige	Varilla	Asta
14	01-1267	1		K2	Lock-Off Lever Asm	Hebel	Levier	Palanca	Leva
15	01-1001	1			Motor Housing	Gehäuse	Corps	Caja	Corpo
16	1002	1			Cylinder	Zylinder	Cylindre	Cilindro	Cilindro
17	504	1	●	K3	Ball Bearing	Kugellager	Roulement à billes	Cojinete de bolas	Cuscinetto a sfera
18	1041	2	●	K3	Pin	Stift	Goupille cylindrique	Pasador	Spina
19	1006 *	4	●	K3	Rotor Blade	Rotorblatt	Palette	Alabe del rotor	Paletta del rotore
20	1017	1		K3	Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
21	1355	1	●	K3	Shim Packet	Unterlegstück	Cale pelable	Calzo	Spessore
22	538	1	●	K3	Ball Bearing	Kugellager	Roulement à billes	Cojinete de bolas	Cuscinetto a sfera
23	1005	1			Rotor	Rotor	Rotor	El rotor	Il rotore
24	1064	1			Front Plate	Vorderplatte	Plaque de devanture	Placa frontal	Piattello anteriore
25	01-1044	1		K6	Lock Ring	Verschlußring	Bague de verrouillage	Anillo de cierre	Anello di bloccaggio
26	Table B	1		K7	Pinion	Pinion	Pignon	Piñón	Il pignone
27	01-1045	1		K6	Lock Ring Sleeve	Hülse	Douille	Manguito	Manicotto
28	01-1025	1		K6	Seal	Dichtung	Sceau	Sello	Guarnizione
Not Shown									
--	14-0807	1			7/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
--	14-0811	1			11/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
Repair Kits:									
K2	04-0085	1			Throttle Kit	Satz	Ensemble	Juego	Corredo
K3	04-0042	1			Motor Kit	Satz	Ensemble	Juego	Corredo
K5	Table B	1			Air Inlet Kit	Satz	Ensemble	Juego	Corredo
K6	04-0157	1			Housing Kit	Satz	Ensemble	Juego	Corredo
K7	Table B	1			Bevel Gear Kit	Satz	Ensemble	Juego	Corredo
*	04-0031	1			Rotor Blade Kit	Satz	Ensemble	Juego	Corredo
●	Table B	1			Tune Up Kit	Satz	Ensemble	Juego	Corredo

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

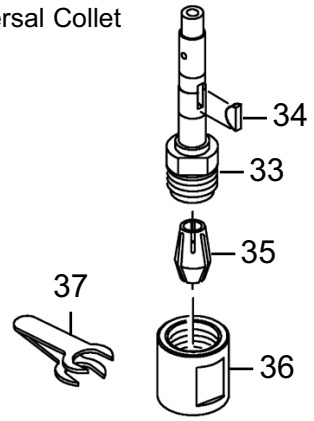
Table "B"

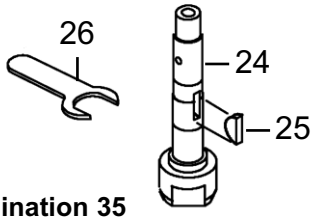
Ref.	Description	Qty.	12-1080	Qty.	12-1081
2	Inlet Adapter (w/o OH)	1	01-2505	1	01-2505
	Inlet Adapter (w/ OH)	1	01-1031	1	01-1031
26	Pinion	1	1066	1	1187
K5	Air Inlet Kit (w/o OH)	1	04-0081	1	04-0081
	Air Inlet Kit (w/ OH)	1	04-0082	1	04-0082
K7	Bevel Gear Kit	1	04-0158	1	04-0078
●	Tune Up Kit (w/o OH)	1	04-0215	1	04-0215
	Tune Up Kit (w/ OH)	1	04-0217	1	04-0217

DOTCO

12-12 Series ERGO Right Angle Grinders & Sanders

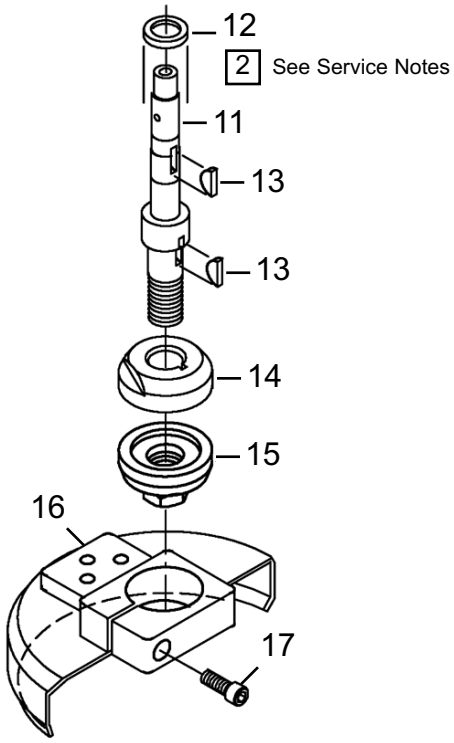
Termination 45
Universal Collet





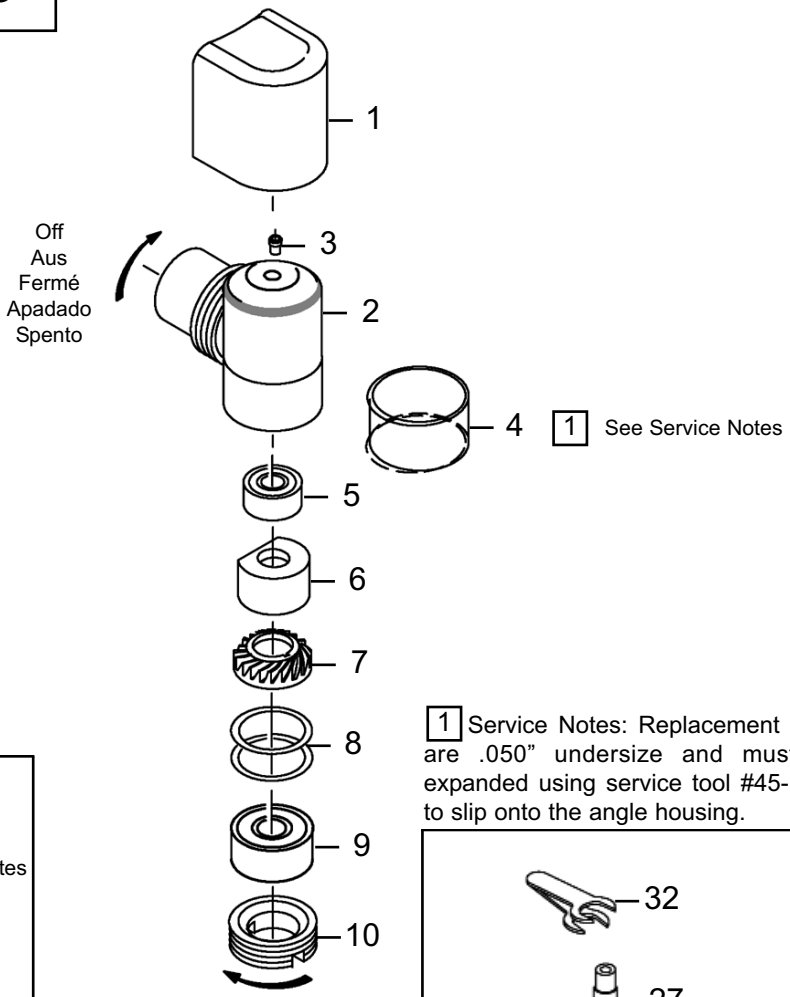
Termination 35
3/8" - 24 Internal Thread

Termination 27



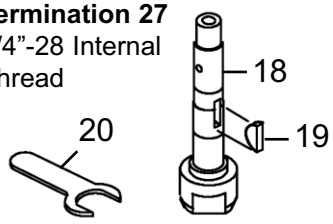
2 Service Notes: C"sink towards spindle shoulder.

"C"

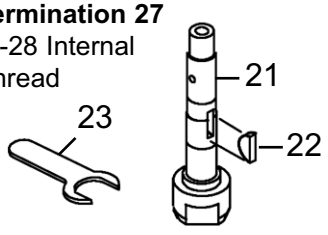


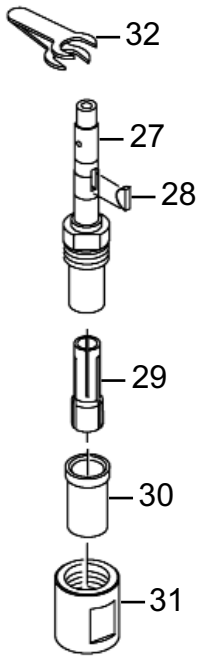
1 Service Notes: Replacement rings are .050" undersize and must be expanded using service tool #45-1020 to slip onto the angle housing.

Termination 27
1/4"-28 Internal Thread



Termination 27
1"-28 Internal Thread





Termination 36
Series 300 Collet

Illustration "C" - Angle Housing

Ref.	Number	#	●	Kit	EN	DE	FR	ES	IT
					Description	Benennung	Designation	Description	Descrizione
1	01-1048	1		K6	Angle Head Cover				
2	1024	1			Angle Housing				
3	1463	1		K6	Grease Fitting				
4	1356	1		K6	Wear Ring				
5	504	1		K6	Ball Bearing	Kugellager	Roulement à billes	Cojinete de bolas	Cuscinetto a sfera
6	1755	1		K6	Lube Disc				
7	Table C	1		K7	Bevel Gear				
8	1355	1		K6	Shim Packet	Unterlegstück	Cale pelable	Calzo	Spessore
9	538	1		K6	Ball Bearing	Kugellager	Roulement à billes	Cojinete de bolas	Cuscinetto a sfera
10	1025	1		K6	Lock Ring	Verschlußring	Bague de verrouillage	Anillo de cierre	Anello di bloccaggio
Termination 27:									
11	1402	1			Spindle				
12	7792	1		K6	Spacer	Distanzstück	Entretoise	Espaciador	Distanziale
13	1062	2		K6	Woodruff Key				
14	14-1174	1			Flange				
15	14-1175	1			Flange				
16	14-1258	1			Wheel Guard				
17	14-1518	1		K6	Cap Screw				
--	14-0186	1			3/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
--	14-0809	1			9/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
--	14-0812	1			3/4" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
Termination 32:									
18	1069	1			Spindle				
19	1062	2		K6	Woodruff Key				
20	14-0807	1			7/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
Termination 34:									
21	1284	1			Spindle				
22	1062	2		K6	Woodruff Key				
23	14-0807	1			7/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
Termination 35:									
24	1250	1			Spindle				
25	1062	2		K6	Woodruff Key				
26	14-0807	1			7/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
Termination 36:									
27	1029	1			Spindle				
28	1062	1		K6	Woodruff Key				
29	308	1			Collet (1/4")				
30	1053	1		K6	Nosepiece				
31	1058	1		K6	Collet Cap				
32	14-0807	1			7/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
	14-0811	1			11/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
Termination 45:									
33	7814	1			Spindle				
34	1062	1		K6	Woodruff Key				
35	7808	1			Collet (1/4")				
36	7815	1			Collet Nut				
37	14-0807	1			7/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave
	14-0811	1			11/16" Wrench	Schraubenschlüssel	Clé plate	La llave	La chiave

DOTCO
12-12 Series ERGO Right Angle Grinders & Sanders

Illustration "C" - Angle Housing

Ref.	Number	#	●	Kit	EN	DE	FR	ES	IT
					Description	Benennung	Designation	Description	Descrizione
Not Shown									
--	45-0980	1		K8	Gear Lube				
--	45-1982	1			Grease Gun				
Repair Kits:									
K6	Table C	1			Angle Head Kit	Satz	Ensemble	Juego	Corredo
K7	Table C1	1			Bevel Gear Kit	Satz	Ensemble	Juego	Corredo
K8	04-0080	5			Gear Lube Kit	Satz	Ensemble	Juego	Corredo

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

Table "C"

Ref.	Description	Output Terminations					
		Qty.	-27	Qty.	-32, -34, -35, -45	Qty.	-36
K6	Angle Head Kit	1	04-0160	1	04-0159	1	04-0161

Table "C1"

Ref.	Description	Qty.	12-1200 12-1280	Qty.	12-1201 12-1281
7	Bevel Gear	1	1067	1	1188
K7	Bevel Gear Kit	1	04-0158	1	04-0078

Cooper Power Tools
P.O. Box 1410
Lexington, SC 29071-1410
USA
Phone: 803-359-1200
Fax: 803-808-6735
www.cooperpowertools.com

COOPER Power Tools