



**TRIDENT DIESEL
SYSTEMS PVT. LTD.**
WORLD CLASS HEAVY DUTY

GENUINE
TRIDENT
NEW REPLACEMENT

**FUEL INJECTION PARTS
CATALOG FOR CUMMINS**

An ISO - 9001 - 2008 Company





**ISO
9001 - 2008
CERTIFIED
QUALITY SYSTEM**



The Complete Source for all your Fuel Injection Parts

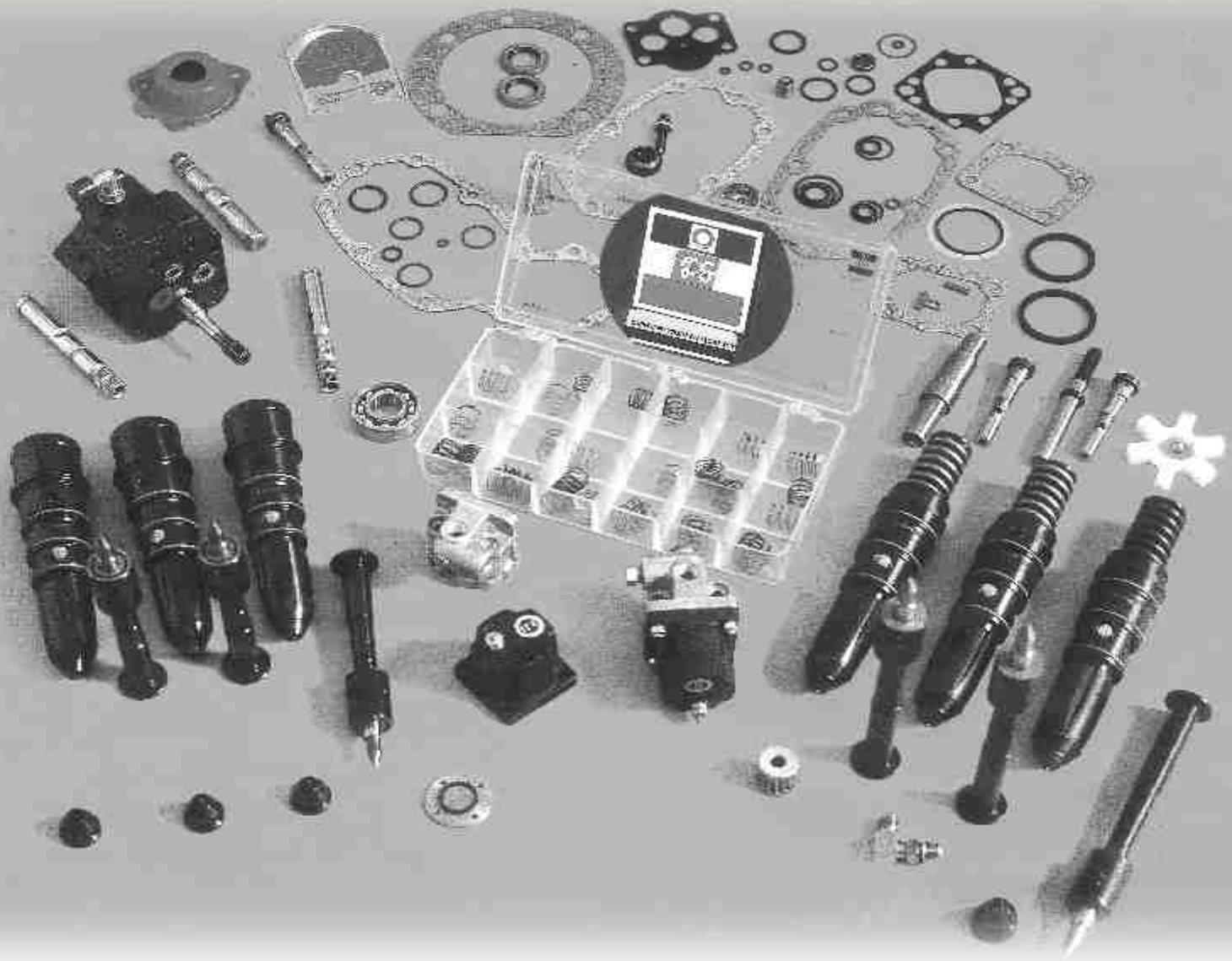


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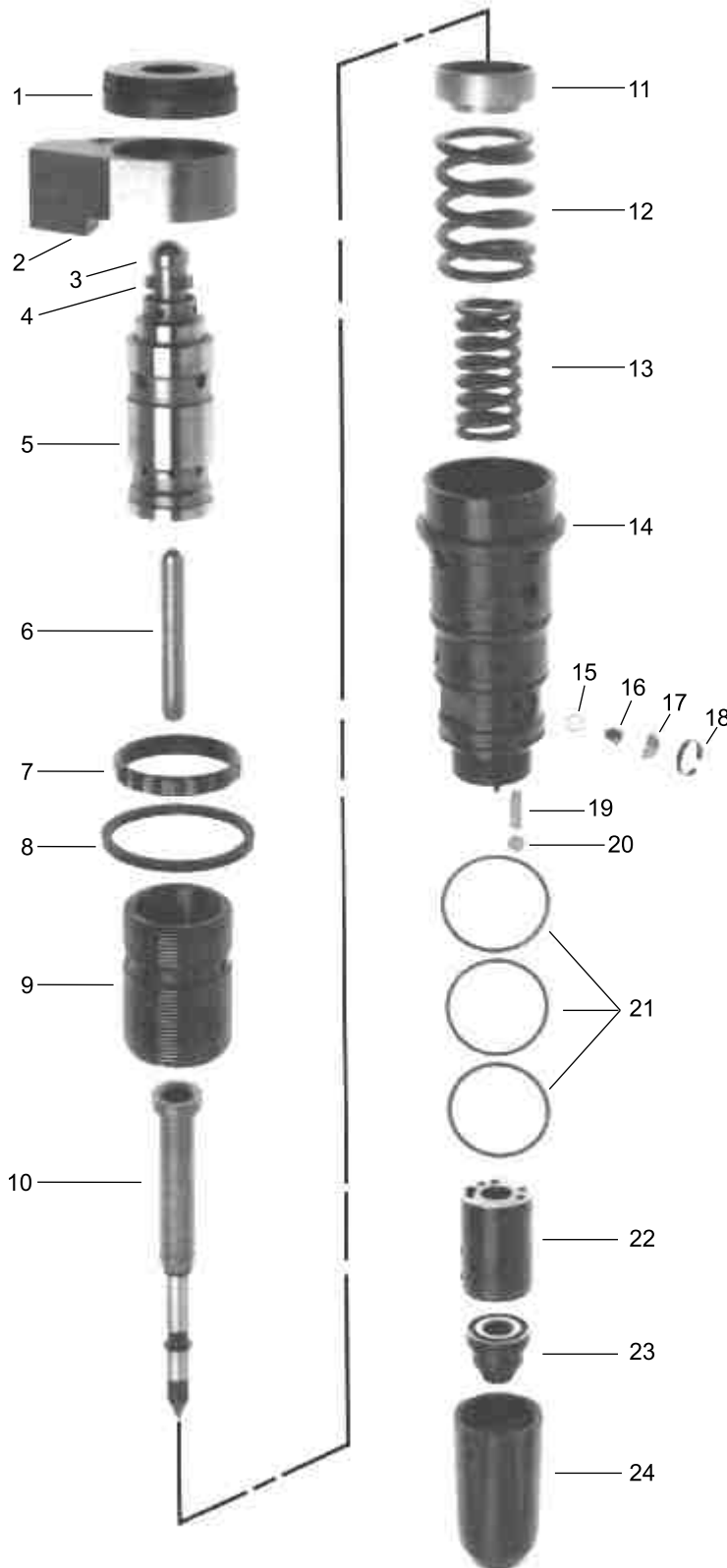
NOTE: All Parts offered are manufactured and marketed by Trident and carry our guarantee of quality and performance.

All manufacturers names, numbers, symbols and descriptions are used for reference purposes only and it does not imply that any part listed is the product of these manufacturers.

* Cummins is a registered trademark of Cummins Engine Co, Inc USA.

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NT & NI4 STC



FUEL INJECTORS

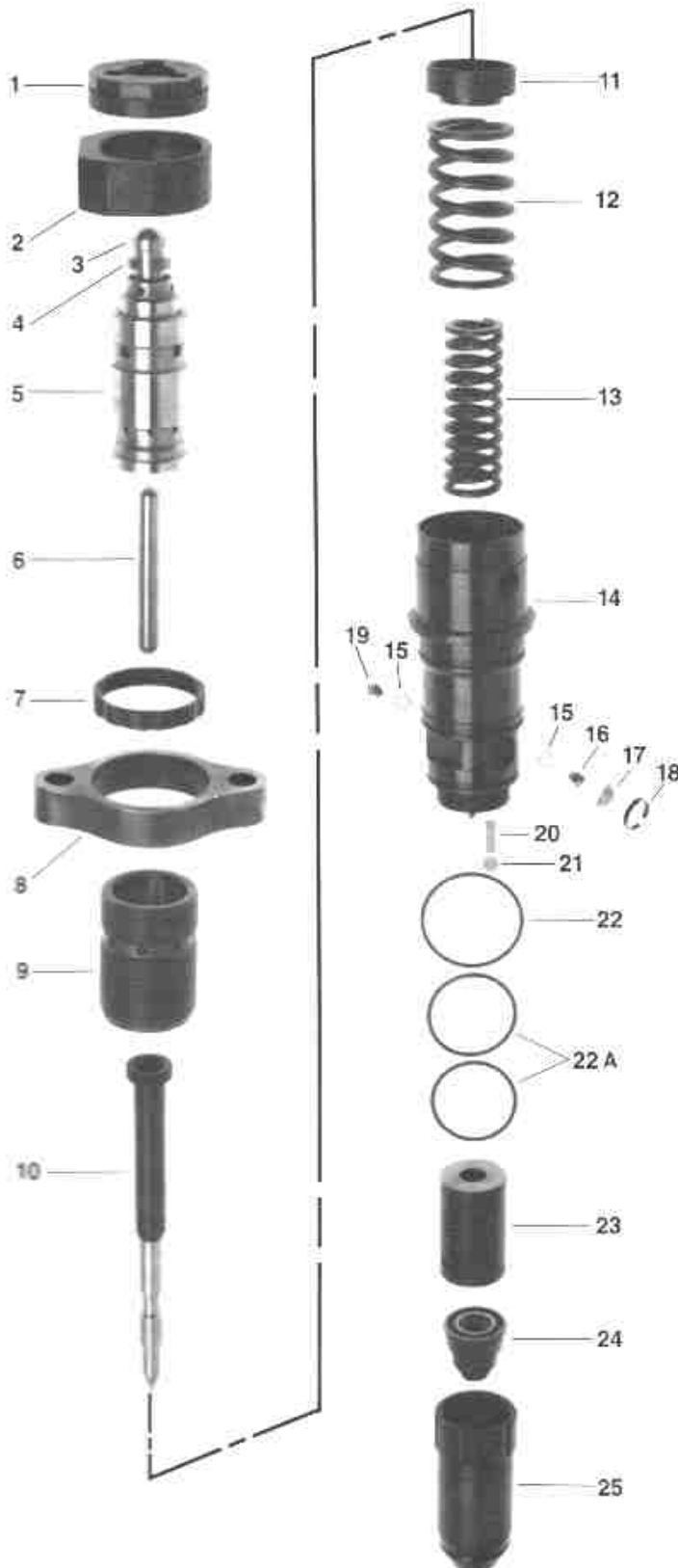
Ref. Number	Part Number	Description
1	3053769	Cap, tappet top stop
2	3053777	Nut, tappet TS lock
3	3052233	Link, tappet
4	3052231	Ring, retaining
5	3075383	Tappet - see page 27 (for Repair kit)
6	3053775	Link, injector
7	3019037	Nut, lock
8	3041493	Washer, plain
9	3053771	Screw, stop
10		Plunger- see page 8.
11	3052218	Retainer, spring
12	3023478	Spring, compression
13	3034167	Spring, compression
14	3023934	Adaptor (body)
15	173086	Gasket, orifice (Not serviced anymore)
16		Orifice-see chart below
17	3054999	Screen
18	174299	Retainer, screen
19	203426	Pin, roll
20	167157	Ball, check
21	193736	O-Ring
22		Barrel -see page 8
23		Cup, inj. - see Chart, Page 8
24	185138	Cup retainer, nut

BUTTON HEAD ORIFICE FOR CUMMINS INJECTORS

3044990	0.015	3045018	0.043
3044991	0.016	3045019	0.044
3044992	0.017	3045020	0.045
3044993	0.018	3045021	0.046
3044994	0.019	3045022	0.047
3044995	0.020	3045023	0.048
3044996	0.021	3045024	0.049
3044997	0.022	3045025	0.050
3044998	0.023	3045026	0.051
3044999	0.024	3045027	0.052
3045000	0.025	3045028	0.053
3045001	0.026	3045029	0.054
3045002	0.027	3045030	0.055
3045003	0.028	3045031	0.056
3045004	0.029	3045032	0.057
3045005	0.030	3045033	0.058
3045006	0.031	3045034	0.059
3045007	0.032	3045035	0.060
3045008	0.033	3045036	0.061
3045009	0.034	3045037	0.062
3045010	0.035	3045038	0.063
3045011	0.036	3045039	0.064
3045012	0.037	3045040	0.065
3045013	0.038	3045041	0.066
3045014	0.039	3045042	0.067
3045015	0.040	3045043	0.068
3045016	0.041	3045044	0.069
3045017	0.042	3045045	0.070

STC-K

FUEL INJECTORS

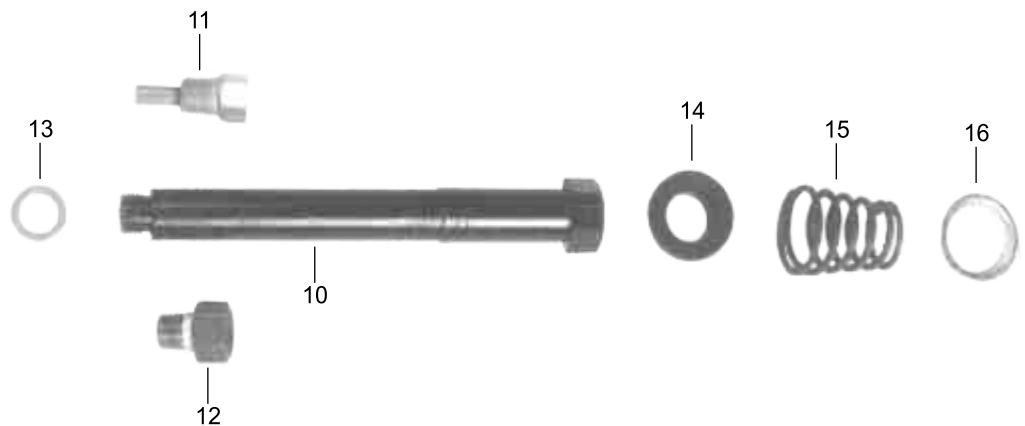
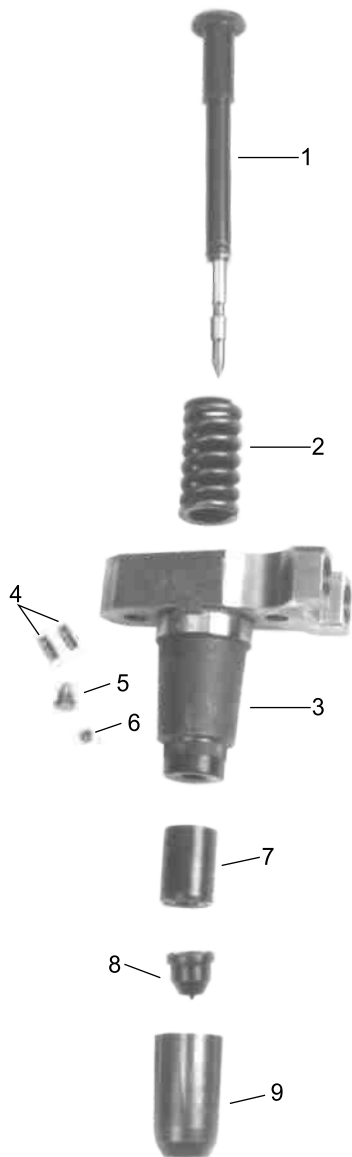


Ref. Number	Part Number	Description
1	3053769	Cap, tappet top stop
2	3055743	Nut, tappet TS lock
3	3052233	Link, tappet
4	3052231	Ring, retaining
5	3075381	Tappet - see page 27 (for Repair kit)
6	3028448	Link, injector
7	3000465	Nut, lock
8	3003682	Washer, plain
9	3055742	Screw, stop
10		Plunger- see page 8
11	3052218	Retainer, spring
12	3042428	Spring, compression
13	3042427	Spring, compression
14	3042425	Adaptor (body)
15	173086	Gasket, orifice (Not serviced anymore)
16		Orifice-see chart below
17	3054999	Screen
18	174299	Retainer, screen
19		Non drilled orifice plug
20	203426	Pin, roll
21	167157	Ball, check
22	3010510	O-Ring
22A	193736	O-Ring
23		Barrel -see page 8
24		Cup, inj. - see Chart, Page 8
25	3042430	Cup retainer, nut

BUTTON HEAD ORIFICE FOR CUMMINS INJECTORS

3044990	0.015	3045018	0.043
3044991	0.016	3045019	0.044
3044992	0.017	3045020	0.045
3044993	0.018	3045021	0.046
3044994	0.019	3045022	0.047
3044995	0.020	3045023	0.048
3044996	0.021	3045024	0.049
3044997	0.022	3045025	0.050
3044998	0.023	3045026	0.051
3044999	0.024	3045027	0.052
3045000	0.025	3045028	0.053
3045001	0.026	3045029	0.054
3045002	0.027	3045030	0.055
3045003	0.028	3045031	0.056
3045004	0.029	3045032	0.057
3045005	0.030	3045033	0.058
3045006	0.031	3045034	0.059
3045007	0.032	3045035	0.060
3045008	0.033	3045036	0.061
3045009	0.034	3045037	0.062
3045010	0.035	3045038	0.063
3045011	0.036	3045039	0.064
3045012	0.037	3045040	0.065
3045013	0.038	3045041	0.066
3045014	0.039	3045042	0.067
3045015	0.040	3045043	0.068
3045016	0.041	3045044	0.069
3045017	0.042	3045045	0.070

PTD FLANGE



FUEL INJECTORS

Ref. Number	Part Number	Description
1		Plunger-See Page 8
2	166009	Spring
3	3225150	Adaptor (Body)
4	203426	Dowel Pin (2)
5		Orifice See Chart Below
6	167157	Check Ball
7		Barrel- See Page 8
8		Cup, Inj. See Page 8
9	185138	Cup Retainer-Nut

BUTTON HEAD ORIFICE FOR CUMMINS INJECTORS

3044990	0.015	3045018	0.043
3044991	0.016	3045019	0.044
3044992	0.017	3045020	0.045
3044993	0.018	3045021	0.046
3044994	0.019	3045022	0.047
3044995	0.020	3045023	0.048
3044996	0.021	3045024	0.049
3044997	0.022	3045025	0.050
3044998	0.023	3045026	0.051
3044999	0.024	3045027	0.052
3045000	0.025	3045028	0.053
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3045011	0.036	3045039	0.064
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3045015	0.040	3045043	0.068
3045016	0.041	3045044	0.069
3045017	0.042	3045045	0.070

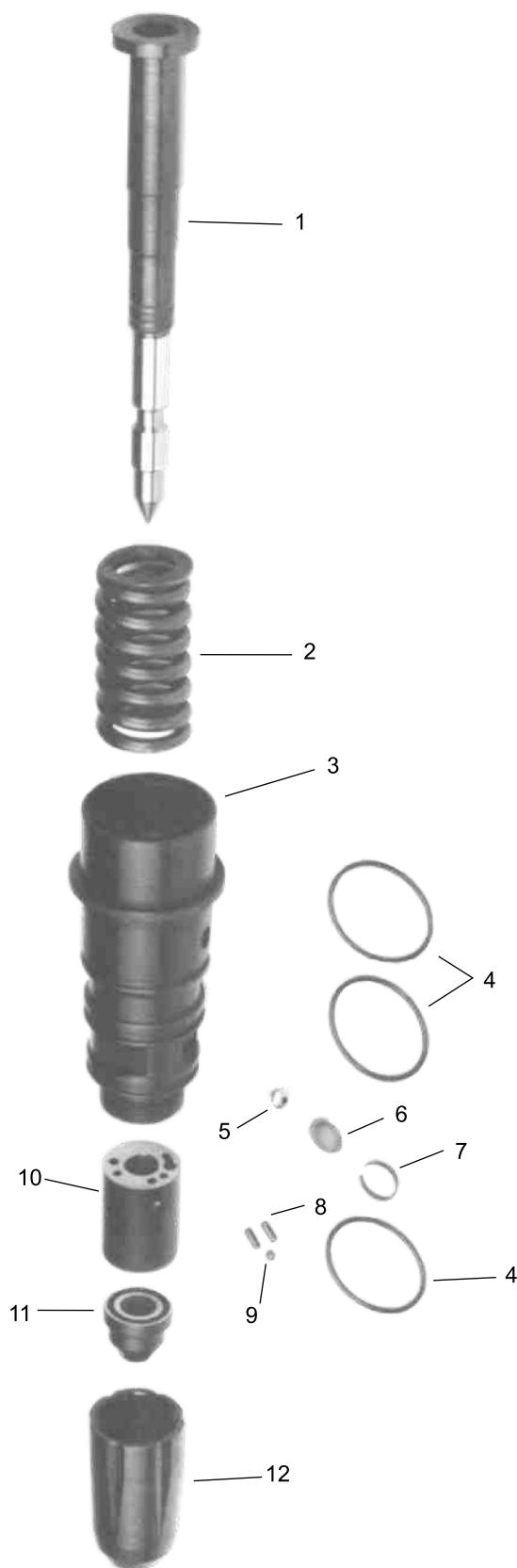
BM 30073: Connection Fuel Inlet

Ref. Number	Part Number	Description
10	44753	Body Connection
11	70855	Connection Fuel Inlet
13	9426-2	Gasket Copper
14	70854	Gasket Fuel Conn
15	70856	Spring
16	70847	Retainer Gasket

BM 30075: Connection Fuel Inlet

Ref. Number	Part Number	Description
12	3018888	Connection Fuel Drain
All other parts are same as BM 30073		

PTD



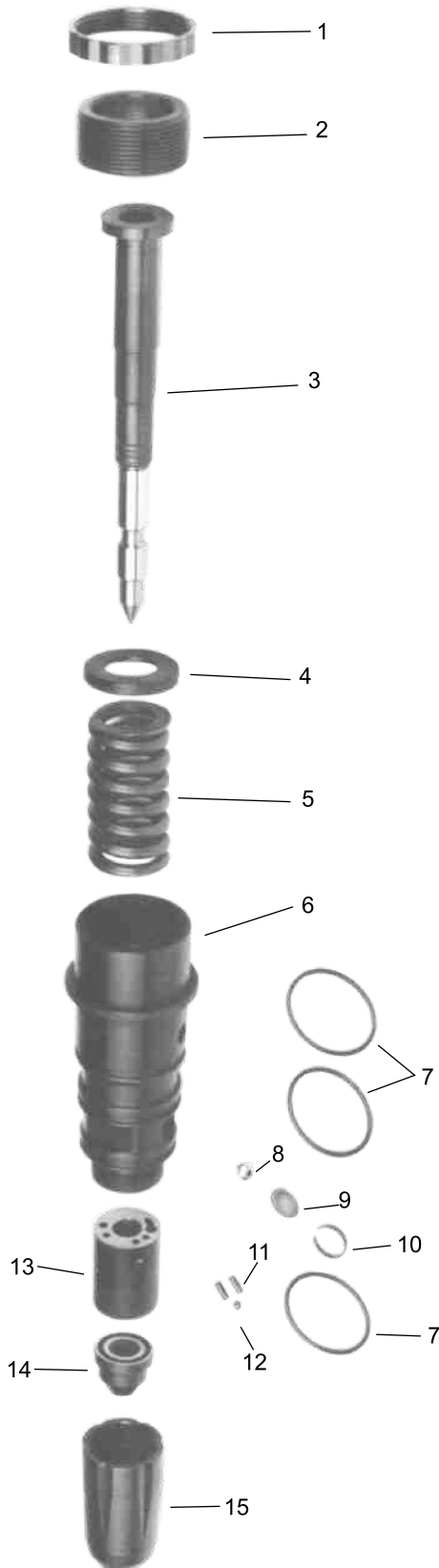
FUEL INJECTORS

Ref. Number	Part Number	Description
1		Plunger-See Page 8
2	166009	Spring
3	185139	Adaptor (Body)
4	193736	O Ring Viton (3)
5		Orifice-See Chart Below
6	3054999	Screen
7	174299	Retainer, Screen
8	203426	Dowel Pin (2)
9	167157	Check Ball
10		Barrel - See Page 8
11		Cup, Inj.-See Chart, Page 8
12	185138	Cup Retainer- Nut

BUTTON HEAD ORIFICE FOR CUMMINS INJECTORS

3044990	0.015	3045018	0.043
3044991	0.016	3045019	0.044
3044992	0.017	3045020	0.045
3044993	0.018	3045021	0.046
3044994	0.019	3045022	0.047
3044995	0.020	3045023	0.048
3044996	0.021	3045024	0.049
3044997	0.022	3045025	0.050
3044998	0.023	3045026	0.051
3044999	0.024	3045027	0.052
3045000	0.025	3045028	0.053
3045001	0.026	3045029	0.054
3045002	0.027	3045030	0.055
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3045005	0.030	3045033	0.058
3045006	0.031	3045034	0.059
3045007	0.032	3045035	0.060
3045008	0.033	3045036	0.061
3045009	0.034	3045037	0.062
3045010	0.035	3045038	0.063
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3045012	0.037	3045040	0.065
3045013	0.038	3045041	0.066
3045014	0.039	3045042	0.067
3045015	0.040	3045043	0.068
3045016	0.041	3045044	0.069
3045017	0.042	3045045	0.070

TOP STOP



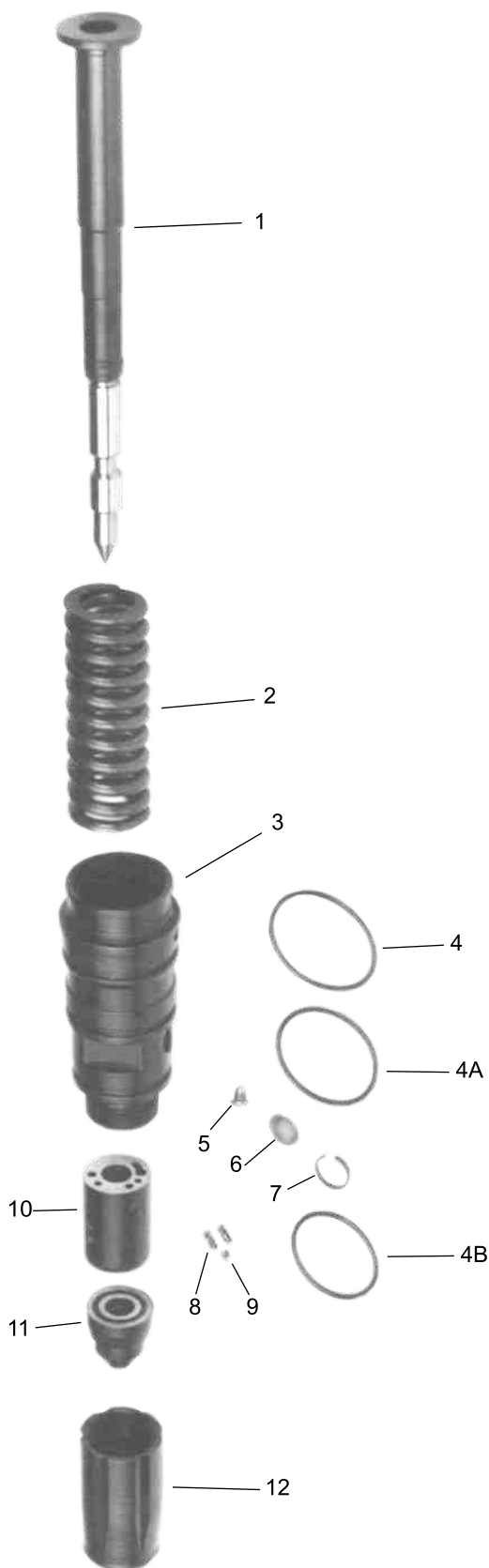
FUEL INJECTORS

Ref. Number	Part Number	Description
1	3000465	Top Stop Lock Nut
2	212954	Top Stop Screw
3		Plunger- See Page 8
4	3015469	Spring, Retainer
5	166009	Spring
6	3000464	Adaptor (Body)
7	193736	O Ring Viton
8		Orifice-See Chart Below
9	3054999	Screen
10	174299	Retainer, Screen
11	203426	Dowel Pin (2)
12	167157	Check Ball
13		Barrel- See Page 8
14		Cup, Inj.- See Chart Page 8
15	185138	Cup Retainer, Nut

BUTTON HEAD ORIFICE FOR CUMMINS INJECTORS

3044990	0.015	3045018	0.043
3044991	0.016	3045019	0.044
3044992	0.017	3045020	0.045
3044993	0.018	3045021	0.046
3044994	0.019	3045022	0.047
3044995	0.020	3045023	0.048
3044996	0.021	3045024	0.049
3044997	0.022	3045025	0.050
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3044999	0.024	3045027	0.052
3045000	0.025	3045028	0.053
3045001	0.026	3045029	0.054
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3045004	0.029	3045032	0.057
3045005	0.030	3045033	0.058
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3045007	0.032	3045035	0.060
3045008	0.033	3045036	0.061
3045009	0.034	3045037	0.062
3045010	0.035	3045038	0.063
3045011	0.036	3045039	0.064
3045012	0.037	3045040	0.065
3045013	0.038	3045041	0.066
3045014	0.039	3045042	0.067
3045015	0.040	3045043	0.068
3045016	0.041	3045044	0.069
3045017	0.042	3045045	0.070

PTD - K



FUEL INJECTORS

Ref. Number	Part Number	Description
1		Plunger- See Page 8
2	205464	Spring
3	205463	Adaptor (Body)
4	3010510	O Ring Viton Color Coded
4A	205216	O Ring Viton
4B	193736	O Ring Viton
5		Orifice- See Chart Below
6	3054999	Screen
7	174299	Retainer, Screen
8	203426	Dowel Pin (2)
9	167157	Check Ball
10		Barrel- See Page 8
11		Cup, Inj.- See Chart, Page 8
12	207245	Cup Retainer-Nut

BUTTON HEAD ORIFICE FOR CUMMINS INJECTORS

3044990	0.015	3045018	0.043
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3044993	0.018	3045021	0.046
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3045007	0.032	3045035	0.060
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3045014	0.039	3045042	0.067
3045015	0.040	3045043	0.068
3045016	0.041	3045044	0.069
3045017	0.042	3045045	0.070

ENGINE APPLICATION TO KIT INJECTOR REFERENCE

Engine Application	Kit Injector
N-495	3880778
N-743	3880779
NT-495	3880780
NT-743	3880781
NT/NTA-855 PTD	3880782
V1710	3880783
KT	3880784
KTA	3880785
KTA 38 / 50	3880786
N14	2865303

BARREL & PLUNGER ASSEMBLIES

Assembly	Barrel P. NO.	Type	Application
3018324	190190	STD CAP High Flow	PTD
3245422	187370	STD CAP Low Flow	PTD/Flange
3245428	190190	STD CAP High Flow	PTD/Flange
3047963	3047054	Direct Feed	Top Stop
3047964	3047054	Direct Feed	PTD
3052222	3047054	Direct Feed	NT-STC
3016671	3014590	Direct Feed	PTD-K
3058848	3058847	Direct Feed	V28-PTD
3076125	3053422	DF RDF	STC-K / K19 /K38 / K50
3076126	3053420	DF RDF	STC-K / K19 /K38 / K50
4902784	3079944	DF RDF	N-14

INJECTOR CUPS

Engine Code	P. No.	REF Spray Hole
A	3012535	8-.007 x 18°
A	3012536	8-.008 x 18°
A	3012537	8-.0065 x 18°
A	3023556	9-.085 x 18°
B	3012538	9-.008 x 18°
C	3001314	10-.0085 x 10°
C	3003933	9-.0085 x 10°
D	3279720	10-.0095 x 10°
E	3084895	8-.0089 x 14°

A: NH/NT **B:** V-28 **C :** K series (Non STC) **D:** K6, K12, K16 **E:** N14

NOTE: Partial listing of fast moving Barrel, Plungers & Cups. Numerous other Barrel, Plungers & Cups are always available. Please contact factory for details.

FUEL PUMP SPRINGS

Spring pack idle
Application PTG Auto/MVS
PTR Auto

Part Number	Color	Wire Dia	Number of Coils
143247	Yellow	0.092	7.4
143248	Yellow / Green	0.092	7.9
143249	Yellow / White	0.086	7.1
143250	Red / White	0.086	7.7
143251	Blue / Purple	0.086	8.4
143252	Red	0.080	7.6
143253	Red / Yellow	0.080	8.6
143254	Red / Purple	0.072	7.5
143255	Red / Green	0.067	7.8
143256	White / Blue	0.062	7.5

Spring pack idle
Application PTR MVS

Part Number	Color	Wire Dia	Number of Coils
110460	Orange	0.063	14
110461	Purple	0.063	12

Spring pack idle
Application PTG MVS

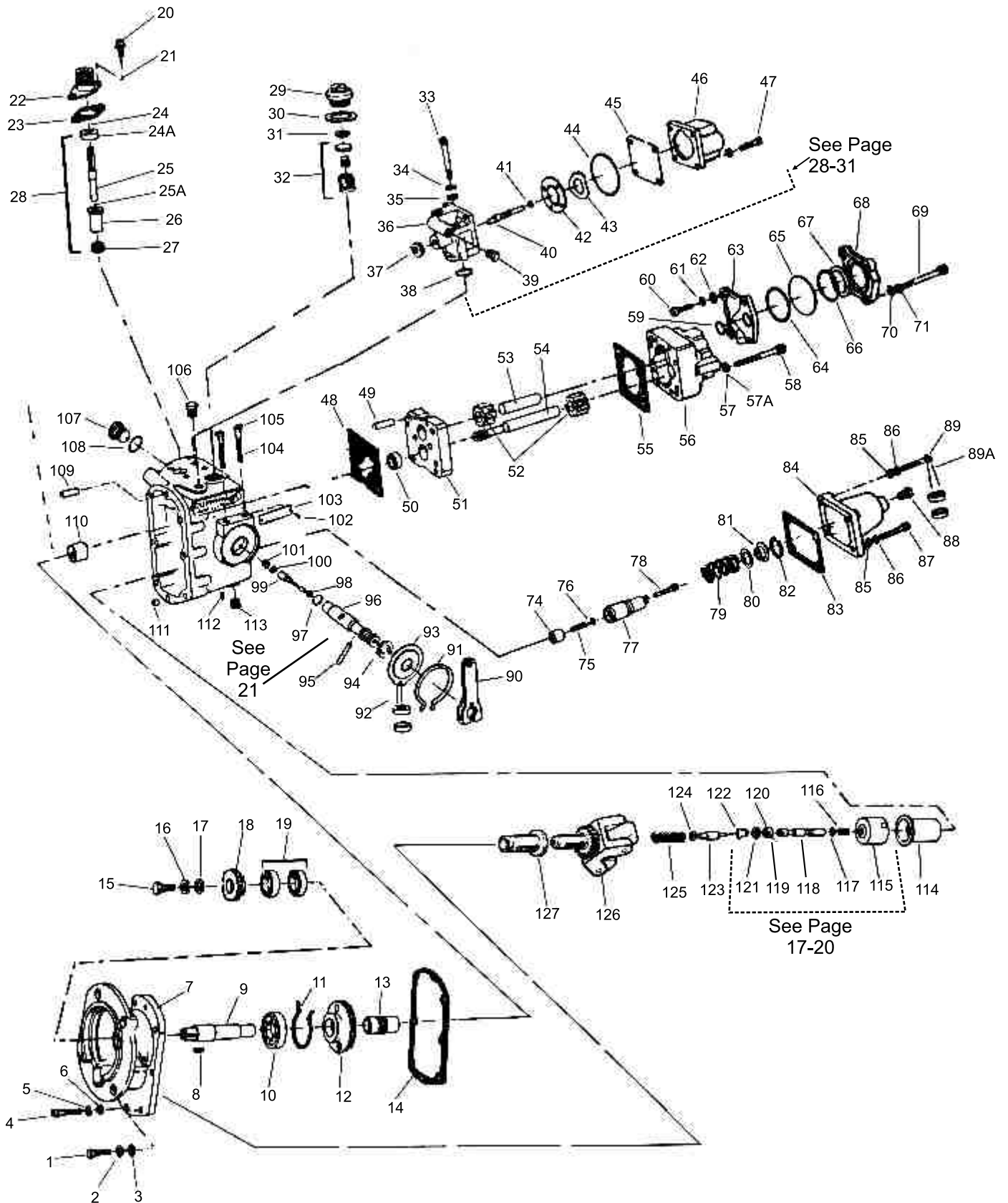
Part Number	Color	Wire Dia	Number of Coils
153232	Blue	0.086	7.1
153235	Green / Orange	0.080	8.6
153236	Green / Blue	0.086	7.7
153238	Blue / Red	0.080	7.6

TORQUE CONTROL SPRINGS GOVERNOR CONTROLLED

Part Number	Color	Wire Dia	Number of Coils
139584	Blue/Green	0.051	5.2
139585	Blue/Yellow	0.051	4.7
139586	Green / Yellow	0.054	5.4
139587	Blue / Yellow	0.051	4.7
139588	Green/Yellow	0.054	5.4

IDLER SPRING PLUNGER BUTTON

Code No.	Part Number	Counterbore DIA. INCH	Code No.	Part Number	Counterbore DIA. INCH
5	141623	.2085 / .2115	55	139619	.3085 / .3115
7	141624	.2135 / .2165	57	140926	.3135 / .3165
10	141625	.2185 / .2215	60	140927	.3185 / .3215
12	141626	.2235 / .2265	62	141636	.3235 / .3265
15	139894	.2285 / .2315	65	141637	.3285 / .3315
17	140417	.2335 / .2365	67	141638	.3335 / .3365
20	141629	.2385 / .2415	170	145947	.3385 / .3415
22	141630	.2435 / .2465	172	145948	.3435 / .3465
25	141631	.2485 / .2515	175	145949	.3485 / .3515
27	141632	.2535 / .2565	177	145950	.3535 / .3565
30	141633	.2585 / .2615	180	145951	.3585 / .3615
32	141634	.2635 / .2665	182	145952	.3635 / .3665
35	140922	.2685 / .2715	185	145953	.3685 / .3715
37	140418	.2735 / .2765	187	145954	.3735 / .3765
40	137370	.2785 / .2815	190	145955	.3785 / .3815
42	140923	.2835 / .2865	192	145956	.3835 / .3865
45	138862	.2885 / .2915	195	145957	.3885 / .3915
47	140924	.2935 / .2965	197	145958	.3935 / .3965
50	140925	.2985 / .3015	200	145959	.3985 / .4015
52	139618	.3035 / .3065			





PTG PUMP

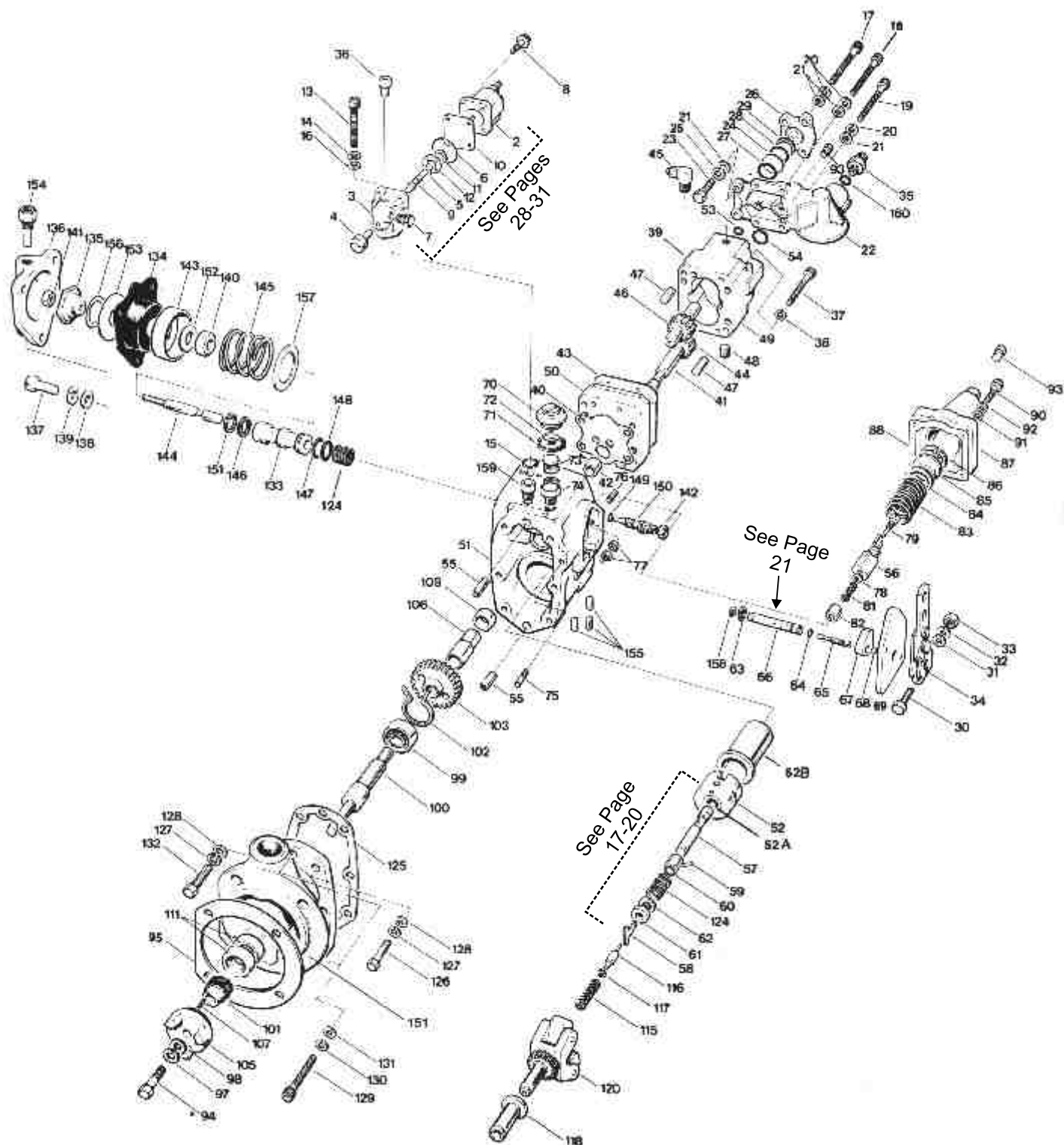
Ref. Number	Part Number	Description	Ref. Number	Part Number	Description
1	S105C	Capscrew	27A	212610	Gear RH Drive (AFC)
2	S600	Lockwasher	28	BM28848	Tach Drive Assy., RH (PTG)
3	70704	Washer, Plain	28A	3015665	Tach Drive Assy., RH (AFC)
4	118226	Capscrew	29	157088	Cap Filter
5	S606	Lockwasher	30	154088	Seal
6	103089	Washer, Plain	31	70700	Spring
7	139668	Front Cover (PTG)	32	146483	Screen, Std.
7A	3063054	Front Cover (AFC) (Not Shown)	33	S189C	Capscrew
8	68174	Key Main Shaft	34	S600	Lockwasher
9	100192	Main Shaft (PTG)	35	67684	Washer, Plain
9A	212601	Main Shaft (AFC) (Not Shown)	36	129826	Housing
10	S1650	Bearing Main Shaft	37	129838	Knob
11	70699	Snap Ring	38	154087	Seal Ring
12	103036	Gear Drive (PTG)	39	70295	Plug
12A	212605	Gear Drive (AFC) (Not Shown)	40	3000266	Shaft
13	101983	Gear Tach Drive, (PTG) Clockwise	41	190876	O Ring
13A	212602	Gear Tach Drive, (AFC)	42	3030970	Valve
14	100764	Gasket Mount	43	129768	Spring
15	69793	Capscrew	44	128888	O Ring
16	S604	Lockwasher	45	129839	Shield
17	108330	Washer, Plain	46	3408421	Coil, 12V (Single Pole) HD
17A	3046200	Spider (Not Shown)		3054609	Coil, 24V (Single Pole)
18	101918	Cpl with Compressor	46A	See	Sht Dn Vlv Assy, 12V
18A	212613	AFC Coupling (Not Shown)		Page 28-31	Incl. Items 36-47 Sht Dn Vlv Assy, 24V Incl. Items 36-47
19	3062676	Seal, Main Sft., Thin Rub Cotd	47	187556	Capscrew
20	70772A	Screw	48	210647	Gasket Mounting
21	127018	Washer		(3026163)	
22	155445	Housing Tach Sft	49	64816A	Dowel Pin
23	70732	Gasket	50	101468	Dowel Ring
24	210218	Felt Washer (Not Shown)	51	175867	Fro Cov, 3/4" Gear Pump
24A	70809	Seal (PTG)		175868	Fro Cov, 1 1/4" Gear Pump
24B	212603	Seal (AFC)	52	119363	Gear, 3/4"
25	104087	Shaft Tach (PTG)		119364	Gear, 1 1/4"
25A	189638	Spacer (Not Shown)	53	175864	Shaft Idler, 3/4"
25B	212607	Shaft Tach (AFC) (Not Shown)		175865	Shaft Idler, 1 1/4"
26	70723	Bushing (PTG)	54	100215	Shaft Driver, 3/4"
26A	212609	Bushing (AFC) (Not Shown)		100217	Shaft Driver, 1 1/4"
27	101981	Gear RH Drive (PTG)	55	121193	Gasket (.0015" Purple)
				110855	Gasket (.002" Red)
			56	175860	Body, 3/4"
				175861	Body, 1 1/4"
			57	70704	Washer, Plain
			57A	S600	Lockwasher



PTG PUMP

Ref. Number	Part Number	Description	Ref. Number	Part Number	Description
58	70790	Capscrew, 3/4"	94	148916	Spacer
	100129	Capscrew, 11/4"	95	148976	Roll Pin
59	151900	Seal Ring	96		Throttle Shaft (See Page 21)
60	S105C	Capscrew	97	100478	O Ring
61	S600	Lockwasher	98	142179	Shim
62	70704	Washer, Plain	99	149040	Plunger
63	153336	Body Damper N/A	100	70750	Shim .010"
64	139988	O Ring		70750A	Shim .005"
65	202897	Diaphragm		70750B	Shim .002"
66	100099	O Ring	101	142149	Set Screw
67	160514	Washer, Nylon	102	S2286	Screw Name Plate
68	153338	Cover Dmp N/A	103	105375	Name Plate
69	S174C	Capscrew	104	109915	Screw, Adjusting (Mech. Gov.)
70	70704	Washer, Plain		175578	Screw, Adjusting (MVS Gov.)
71	181466	Lockwasher			
72	3033740	Check Vlv Gear Pump (Not Shown)	105	S251	Nut Locking
73		Gear Pumps (See Page 16)	106	112076	Plug
74		Idler Spg Pln (Btn) (See Page 9)	107	139473	Plug
75	144195	Spring Idler	108	43696A	O Ring
76	70715	Washer	109	68549	Dowel
77	3036473 (BM67416)	Guide	110	100193	Bushing
78	70716	Screw, Adjusting	111	118227	Dowel Ring
79		Spring High Speed (See Page 9)	112	163733	Clip
80	70717	Shim .020"	113	200635	Plug
	70717A	Shim .010"	114	108384	Spring Pack Housing
	70717B	Shim .005"	115	BM74969	Barrel & Sleeve
81	70713	Retainer	116		Torque Spring (See Page 9)
82	S16240	Snap Ring	117	101841	Shim .005"
83	70705	Gasket		101842	Shim .010"
84	44678	Cover N/A		101843	Shim .020"
85	70704	Washer, Plain	118+115	3879346	Gov. Plg & Barrel Assy. (PTG) (Gov.Plgs. See Page 17-20)
86	S600	Lockwasher	119	3234773	Slot Spacer
87	S105C	Capscrew	120	3021489	Spacer (Sleeve)
88	177999	Plug	121	3236320	Washer Thrust
89	203619	Capscrew	122	70690	T Driver
89A	S1943	Seal Wire	123	144178	Plunger, Weight Assist
90	3048294	Lever (AFC)	124	144179	Shim
	3048296	Lever (PTG)	125	143847	Spring, Weight Assist
91	S16206	Snap Ring	126	AR- 41043	Weight & Carrier Assy.(PTG)
92	S1943	Seal Wire		3005752	Weight & Carrier Assy.(PTR)
93	148977	Cover Throttle Sft (Std.)	127	163944	Bushing
	100765	Cover Throttle Sft (MVS Governor)			

AFC PUMP





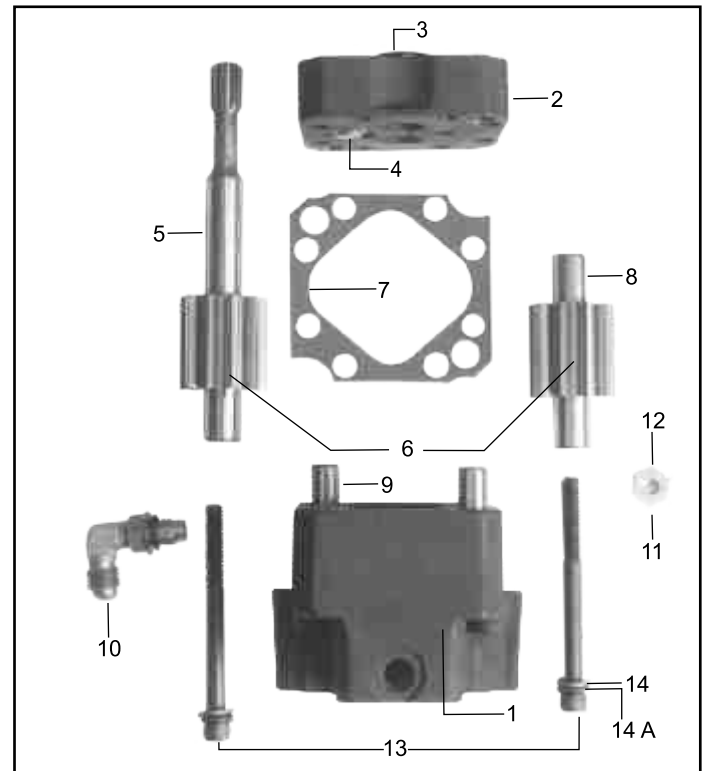
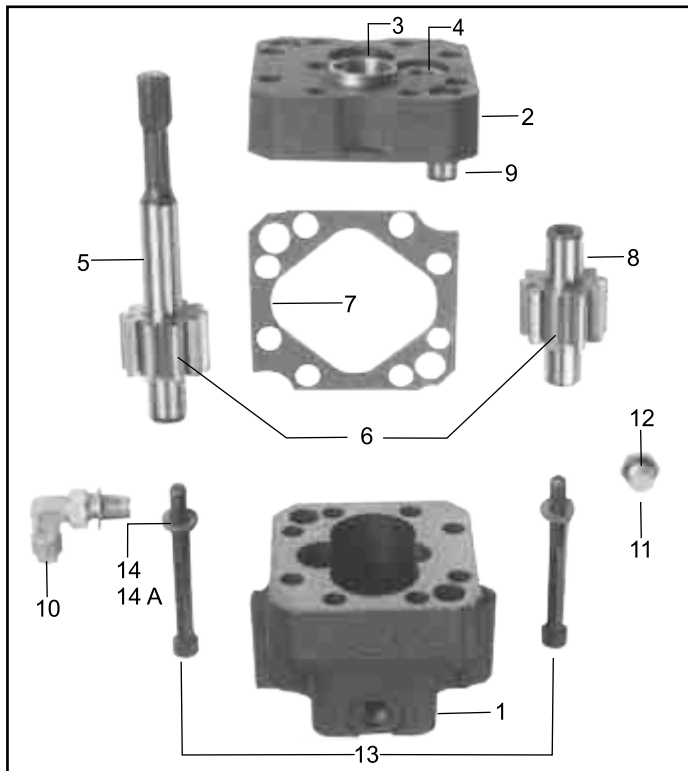
TYPICAL AFC PUMP

Ref. Number	Part Number	Description	Ref. Number	Part Number	Description
1	3035342	Sht DnVlv Assy, 12V.	32	S600	Lockwasher
		1 Term, Including 2-12	33	S251	Nut
	3035344	Sht Dn Vlv Assy, 24 V	34	3048294	Lever - Others Avail.
		1 Term, Including 2-12		3048296	Lever - Others Avail.
	3035345	Sht Dn Vlv Assy, 12V	35	129866	Fitting Inlet
		2 Term, Including 2-12	36	3018889	Fitting Outlet
	3035346	Sht Dn Vlv Assy, 24 V	37	70790	Capscrew
		2 Term, Including 2-12	38	181466	Lockwasher
	BM69988	Sht Dn Vlv Assy, 32 V,	39	3034243	Gear Pump, ¾" RH (Press.)
		2 Term, Including 2-12		3034244	Gear Pump, ¾" LH (Press.)
2	3408421	Coil, 12 V, 1 Terminal (HD)		3034221	Gear Pump, 1 ¼" RH (Press.)
	3054609	Coil, 24V, 1 Terminal (HD)		3034222	Gear Pump, 1 ¼" LH (Press.)
	134075	Coil, 12V, 2 Terminals		3026163	Gasket
	134076	Coil, 24 V, 2 Terminals		100215	Shaft Drive, 3/4"
	3054291	Coil, 32 V, 2 Terminals (HD)		100217	Shaft Drive, 1 ¼"
3	129826	Housing	42	101468	Dowel Ring
4	129838	Knob	43	110855	Gasket, (Red, .002)
5	190876	O Ring		112193	Gasket, (Purple, .0015)
6	129888	O Ring	44	119363	Gear. ¾"
7	70295	Plug		119364	Gear. 1 ¼"
8	187556	Screw	45	3033740	Check Valve Gear Pump
9	3000266	Shaft			(New Style)
10	129839	Shield	46	175864	Shaft Idler, 3/4"
11	129768	Spring		175865	Shaft Idler, 1 ¼"
12	3030970	Valve	47	64816A	Dowel
13	S189C	Capscrew	48	68606	Plug
14	181466	Lockwasher	49	175860	Body Gear Pump, 3/4"
15	154087	O Ring		175861	Body Gear Pump, 1 ¼"
16	67684	Washer, Plain	50	175867	Fro Cov, 3/4". Gear Pump
17	S174C	Capscrew		175868	Fro Cov, 1 ¼", Gear Pump
18	133538	Capscrew	51		Main Housing
19	1 53346	Capscrew	52	3058553	Barrel & Sleeve
20	181466	Lockwasher	52A,	3045206	Sleeve, only 1 ¼"
21	70704	Washer Plain	52B	108384	Housing, Spring Pack
22	205451	Head Assembly	53	151900	O Ring
23	S105C	Capscrew	54	213079	ORing
24	202897	Diaphragm Damper	55	118227	Dowel Ring
25	S600	Lockwasher	56	BM67416	Guide
26	153338	Plate	57		Governor Plunger- See Page 17-20
27	1 00099	Seal Ring	58	70690	Driver
28	139988	Seal Ring	59	137372	Pin
29	160514	Washer, Nylon	60	3048557	Spacer or Sleeve
30	S195B	Capscrew	61	3027633	Thrust Washer
31	70704	Washer, Plain	62	101841	Shim .005

TYPICAL AFC PUMP

Ref. Number	Part Number	Description	Ref. Number	Part Number	Description
62	101842	Shim .010	106	212639	Coupling
	101843	Shim .020	107	212668	Key
63	1 00478	O Ring	108	212603	Seal, Tach Shaft
64	213768	O Ring	108A	3015665	Tach Assy, RH,
65	3006175	Screw, Fuel, Adjusting		Inc. items 112, 113, 114	
66	Throttle Shaft -	See Page 21		216913	Tach Assy, LH,
67	3006343	Stop		Inc. Items 112,113,114	
	3006312	Stop	109	100193	Bushing
68	213769	Ball Plug	110	3063054	Front Cover
69	3000446	Cover	111	3009625	Seal main sft Mtl Case
	157088	Cap Fuel Filter		3062676	Seal Main Sft, Rubber Cotd.
71	154088	Seal	112	212607	Tach Shaft
72	70700	Spring	113	212609	Bushing, Tach Shaft
73	146483	Screen, Std.	114	212610	Gear, Tach, RH
74	112076	Plug		216911	Gear, Tach, LH
75	109918	Set Screw	115	143847	Spring, Weight Assist
76	195755	Set Screw	116	144178	Plunger, Weight Assist
77	S251	Nut	117	144179	Shim
78	70715	Washer, Idle, Adjusting	118	163944	Bushing, Gov.
79	70716	Screw, Idle, Adjusting	120	3024991	Weight & Carrier Assy
80		No Part No. Assigned	124		Spring, Torque Control - See Page 9
81	144195	Spring	125	100764	Gasket
82		Idler Spg Pin (Btn) - See Page 9	126	S105C	Capscrew
83		Spg, High Speed - See Page 9	127	S600	Lockwasher
84	70717	Shim .020	128	70704	Washer, Plain
	7071 7A	Shim .010	129	118226	Socket Head Capscrew
	7071 7B	Shim .005	130	S606	Lockwasher
85	70713	Retainer, Gov. Spring	131	103089	Washer, Plain
86	3001704	Snap Ring	132	203619	Capscrew
87	44678	Cover Spring Pack	133	3074223	Barrel
88	70705	Gasket	134	3013811	Bellows, (Black)
89		No Part No. Assigned	134A	3013811S	Bellows, (Orange-Silicone)
90	S105C	Capscrew	135	3023171	Bolt
91	70704	Washer, Plain	136	3015520	Cover
92	S600	Lockwasher	137	S168C	Capscrew
93	177999	Plug	138	70704	Washer, Plain
94	S110	Capscrew	139	S600	Lockwasher
95	3069103	Gasket	140	S213A	Jam Nut
96	No Part No. Assigned		141	S251	Nut
97	S605	Lockwasher	142	S248	Nut
98	146160	Washer, Plain	143	3047278	Piston, AFC
99	S16052	Bearing	144	3074224	Plunger, Hydraulic
100	212601	Main Shaft	145		Spring - See Page 9
101	212602	Gear, Tach Drive	146	193734	O Ring
102	212604	Retainer Ring	147	145504	O Ring
103	212605	Gear, Fuel Pump Drive	148	3042542	ORing
104	3002110	Hsg, Tach Dr, New Style	149	68061A	ORing
104A	212606	Hsg.Tach Dr, Old Style (Not Shown)	150	214144	Valve, Needle
104B	3004724	Ret, Spa (Not Shown)		203848	Inlet Fitting (Not Shown)
105	212613	Coupling		203849	Inlet Fitting (Side Tap) (Not Shown)
			151	3063054	Front Cover

GEAR PUMPS

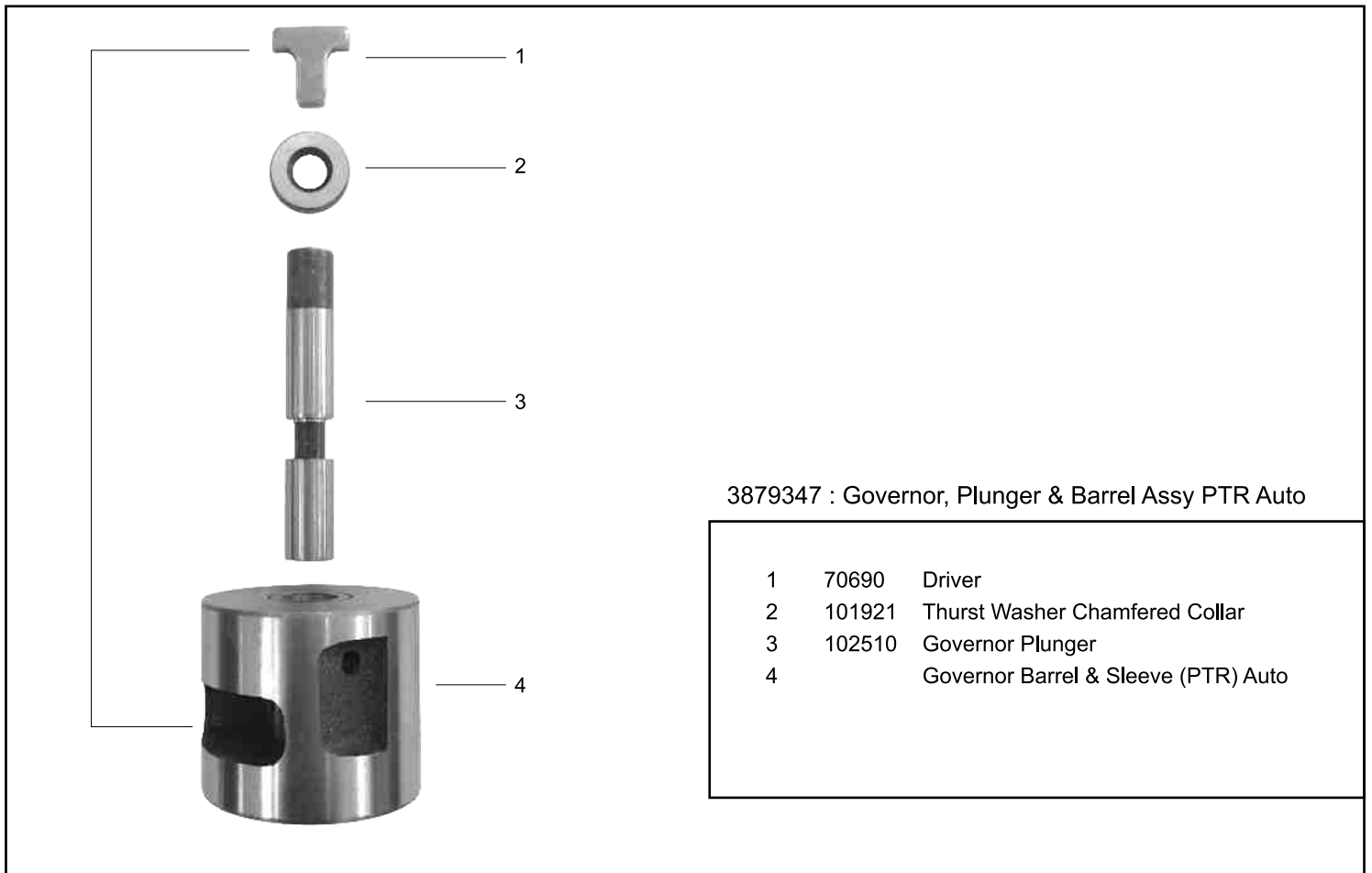


Ref. Number	Part Number	Description
1	175860	Body Gear Pump 3/4"
	175861	Body Gear Pump 1 1/4"
2	175867	Cover Gear Pump 3/4"
	175868	Cover Gear Pump 1 1/4"
3	101468	Dowel Ring
4	3050624	Valve Pressure Regulator (Not Part of Non-Press. Pumps)
5	100215	Drive Shaft 3/4"
	100217	Drive Shaft 1 1/4"
6	119363	Gear Fuel Pumping 3/4"
	119364	Gear Fuel Pumping 1 1/4"
7	110855	Gasket (.002" Red)
	121193	Gasket (.0015" Purple)
8	175864	Shaft Idler 3/4"
	175865	Shaft Idler 1 1/4"
9	64816A	Dowel Pin (2)
10	3033740	Check Valve (Press. Pumps)
	175836	Check Valve (Non-Press Pumps)
11	3033742	Plug
12	3034412	O Ring
13	70790	Capscrew 3/4"
	100129	Capscrew 1 1/4"
14	70704	Washer, Plain
14A	S600	Lockwasher

ASSEMBLY NUMBERS

Part Number	Description
3034233	Gear Pump 3/4" RH (Non-Press.)
3034234	Gear Pump 3/4" LH (Non-Press.)
3034243	Gear Pump 3/4" RH (Press.)
(3034217)	
3034244	Gear Pump 3/4" LH (Press.)
(3034218)	
3034237	Gear Pump 1 1/4" RH (Non-Press.)
3034238	Gear Pump 1 1/4" LH (Non-Press.)
3034221	Gear Pump 1 1/4" RH (Press.)
3034222	Gear Pump 1 1/4" LH (Press.)

GOVERNOR PLUNGER & BARREL ASSEMBLY (PTR Auto Fuel Pumps)

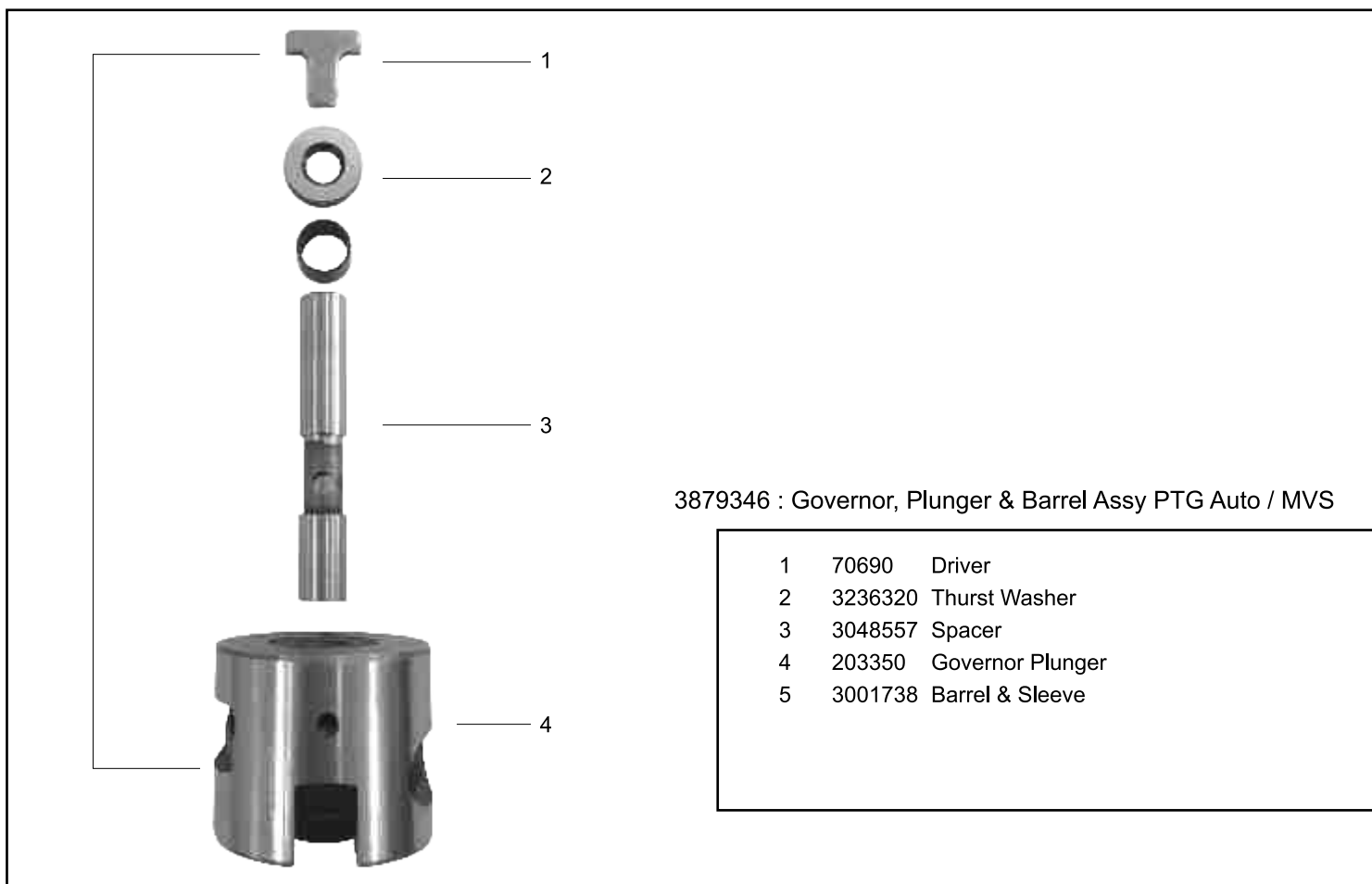


Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4

Ref. Number	Part Number	Size	Color Code	Assembly Part Number
3, PTR Auto	102510	STD	Red	BM - 40950
	102511	0.3749	Blue	BM - 40951
	102512	0.3751	Green	BM - 40952
	102513	0.3753	Yellow	BM - 40953
	102514	0.3755	Orange	BM - 40954
	102515	0.3757	Black	BM - 40955
	102516	0.3759	Grey	BM - 40956
	102517	0.3761	Violet	BM - 40957

Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4
 Assembly Part No. - 3879347

GOVERNOR PLUNGER & BARREL ASSEMBLY (PTG Auto/ MVS Fuel Pumps)

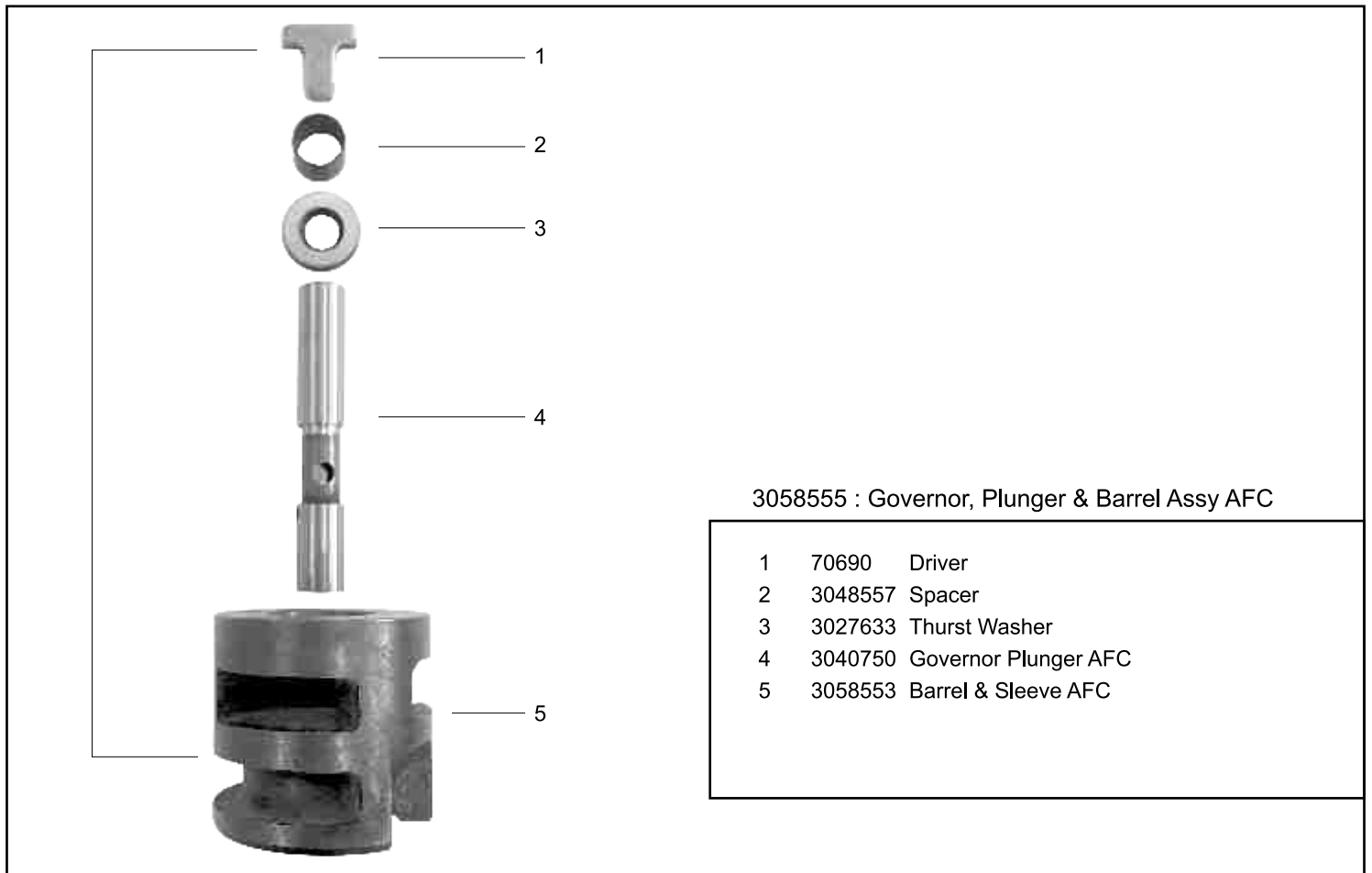


Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4

Ref. Number	Part Number	Size	Color Code	Assembly Part Number
4 PTG Auto/ MVS	203350	STD	Red	AR - 40130
	203351	0.37474	Blue	AR - 40131
	203352	0.37484	Green	AR - 40132
	203353	0.37494	Yellow	AR - 40133
	203354	0.37504	Orange	AR - 40134
	203355	0.37514	Black	AR - 40135
	203356	0.37524	Grey	AR - 40136
	203357	0.37534	Violet	AR - 40137

Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4
Assembly Part No. - 3879346

GOVERNOR PLUNGER & BARREL ASSEMBLY (AFC Fuel Pumps)

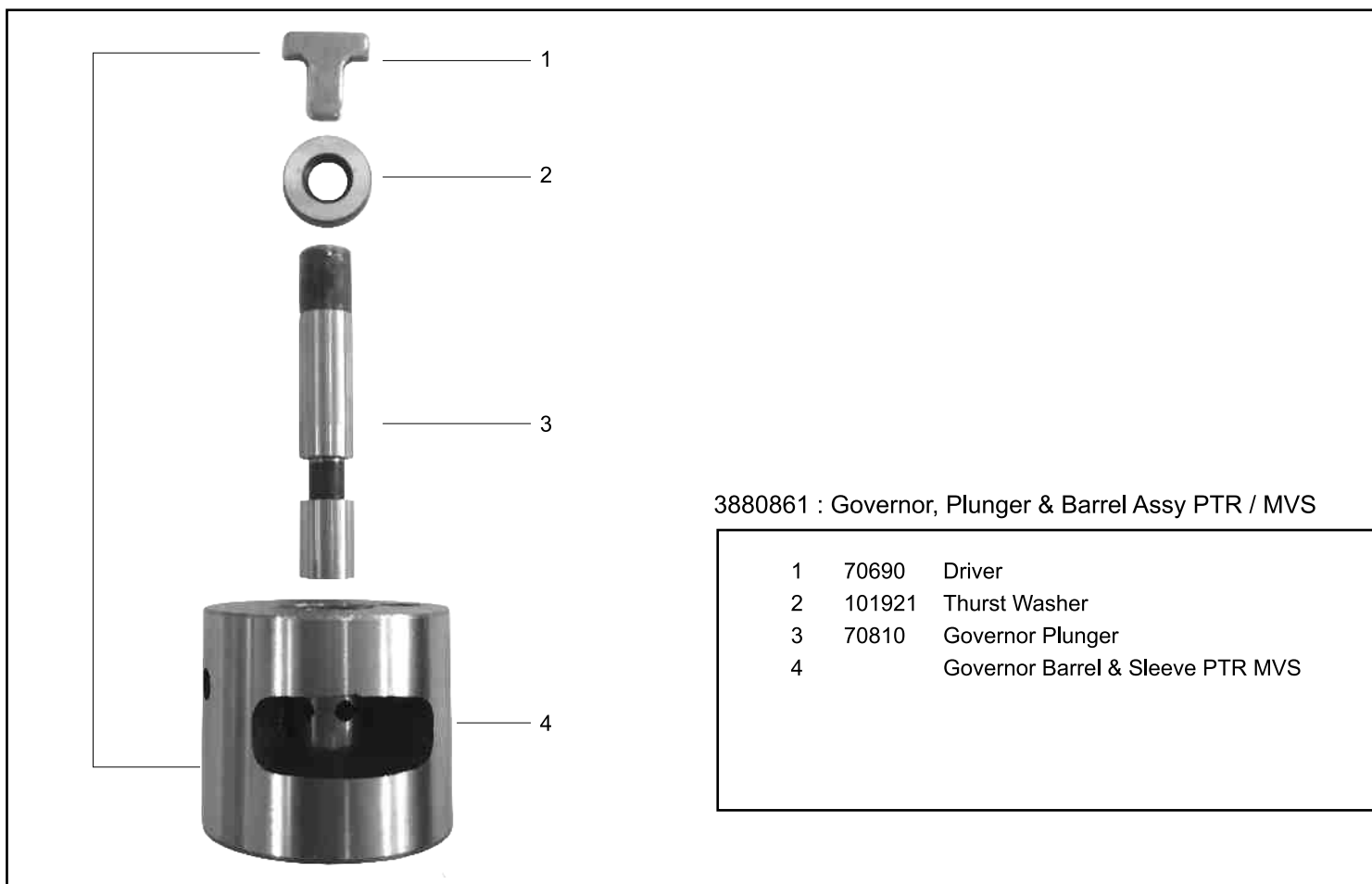


Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4

Ref. Number	Part Number	Size	Color Code	Assembly Part Number
4 AFC	3040750	STD	Red	3040760
	3040751	0.37474	Blue	3040761
	3040752	0.37484	Green	3040762
	3040753	0.37494	Yellow	3040763
	3040754	0.37504	Orange	3040764
	3040755	0.37514	Black	3040765
	3040756	0.37524	Grey	3040766
	3040757	0.37534	Violet	3040767

Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4
 Assembly Part No. - 3058555

GOVERNOR PLUNGER & BARREL ASSEMBLY (PTR/MVS Fuel Pumps)



Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4

Ref. Number	Part Number	Size	Color Code	Assembly Part Number
3 PTR MVS	70810	STD	Red	BM - 70810
	70811	0.3749	Blue	BM - 70811
	70811A	0.3751	Green	BM - 70811A

Governor, Plunger & Barrel Assembly Consists of item 1, 2, 3 & 4
 Assembly Part No. - 3880861

THROTTLE SHAFTS



PTG THROTTLE SHAFT

Ref. Number	Part Number	Size	Color Code	Assembly Part Number
1	149030	0.500	Red	BM-74081
	149031	0.5010	Blue	BM-74082
	149032	0.5012	Green	BM-74083
	149033	0.5014	Yellow	BM-74084
	149034	0.5016	Orange	BM-74085
	149035	0.5018	Black	BM-74086
	149036	0.5020	Grey	BM-74087
	149037	0.5022	Violet	BM-74088

AFC THROTTLE SHAFT

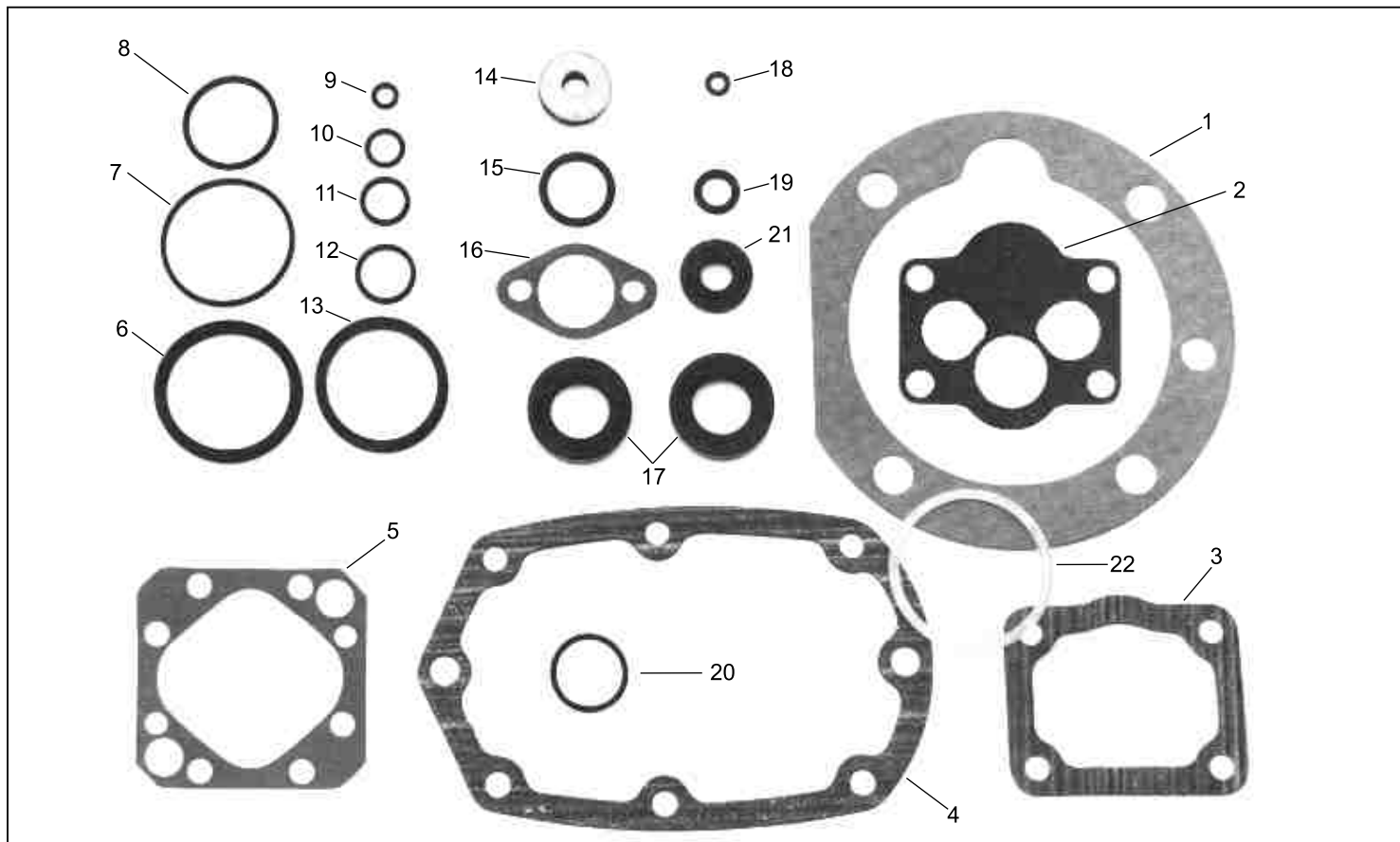
Ref. Number	Part Number	Size	Color Code	Assembly Part Number
2	3046680	0.5006	Red	3046680
	3046681	0.5010	Blue	3046681
	3046682	0.5012	Green	3046682
	3046683	0.5014	Yellow	3046683
	3046684	0.5016	Orange	3046684
	3046685	0.5018	Black	3046685
	3046686	0.5020	Grey	3046686
	3046687	0.5022	Purple	3046687

Note : Throttle Shaft Identification - In the past throttle leakage adjustment has been very sensitive to flow setting and adjusting screw position or wear. In order to reduce sensitivity and thereby increase stability the shape of the throttle shaft port was changed.

The simplest way to identify the change is to differentiate between the "slit" and "slot" designs. The "slot" is the previous design where the port was set into a channel. The new "slit" design throttle shaft now requires about three times as much movement of the shaft as the "slot" design required to achieve the same flow.



BM68356 PTG GASKET KIT



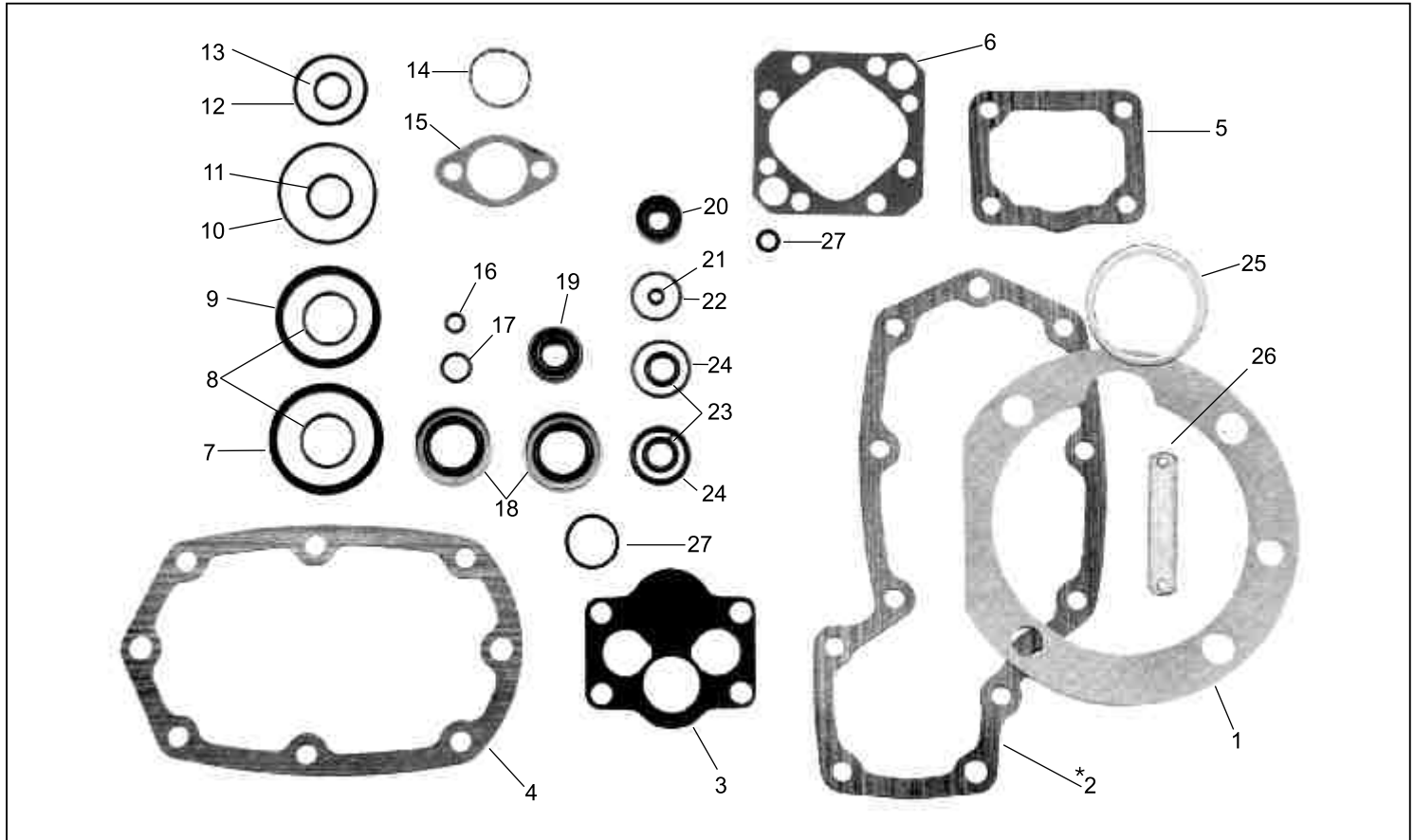
Ref. Number	Part Number	Description	Qty.
1	3069103	Gasket	1
2	3026163	Gasket	1
3	70705	Gasket	1
4	100764	Gasket	1
5	110855	Gasket	1
6	139988	Seal	1
7	129888	Seal	1
8	154088	O Ring	1
9	190876	O Ring	1
10	100478	O Ring	
11	151900	O Ring	

Ref. Number	Part Number	Description	Qty.
12	154087	O Ring	
13	100099	O Ring	1
14	210218	Felt Washer	1
15	43696A	O Ring	1
16	70732	Gasket	1
17	3062676	Seal	2
18	70415	O Ring	2
19	154086	O Ring	1
20	145504	O Ring	1
21	70809	Seal (PTG)	1
22	160514	Washer Damper	1

NOTE: Please specify 212603 Seal Part number specifically while ordering in the kit.

If a PTG Pump with a 212607 Tachometer Shaft is to be serviced.

3010242 AFC-VS GASKET KIT & 3004122 AFC GASKET KIT

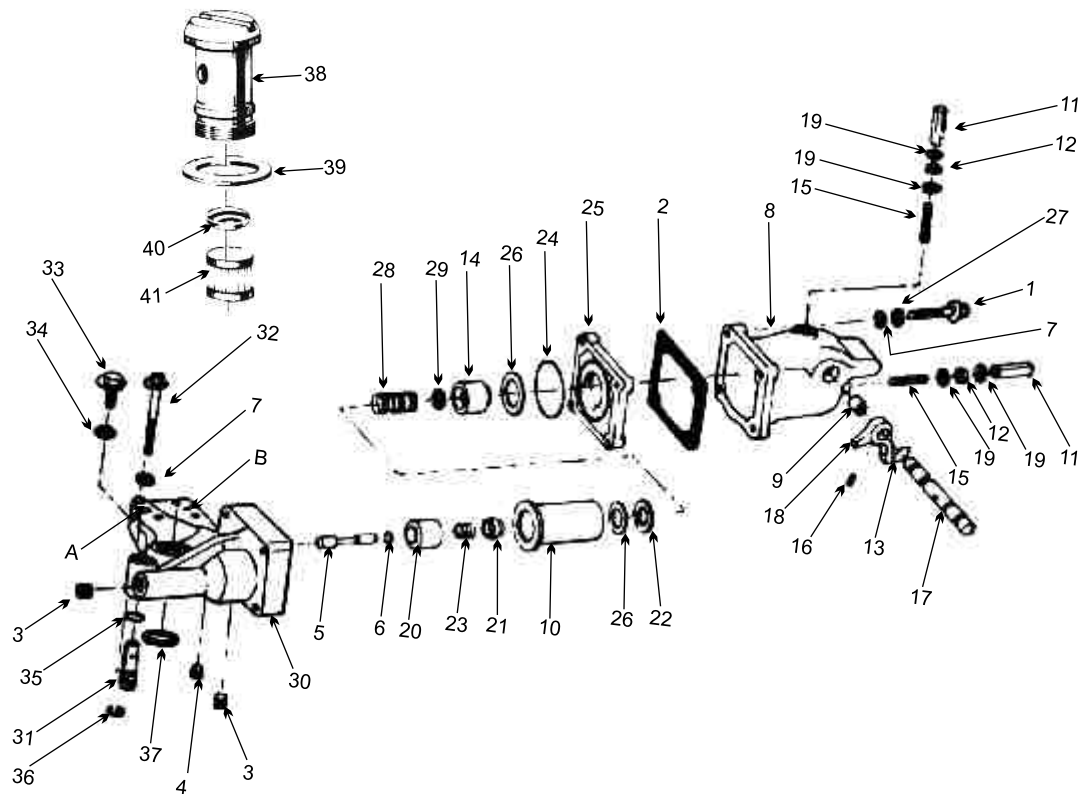


Ref. Number	Part Number	Description	Qty.
1	3069103	Gasket	1
2	200998	Gasket	1
3	3026163	Gasket	1
4	100764	Gasket	1
5	70705	Gasket	1
6	110855	Gasket	1
7	139988	Seal	1
8	145504	Seal	1
9	100099	O Ring	1
10	129888	O Ring	1
11	154087	O Ring	1
12	154088	O Ring	1
13	151900	O Ring	1
14	3023870	O Ring	1

Ref. Number	Part Number	Description	Qty.
15	70732	Gasket	1
16	190876	O Ring	1
17	100478	O Ring	1
18	3062676	Seal	2
19	212603	Seal	1
20	70809	Seal	1
21	3045986	O Ring	1
22	3042542	O Ring	1
23	70415	O Ring	2
24	43696A	O Ring	1
25	160514	Washer	1
26	105375	Tag	1
27	213079	O Ring	1

* 200998 is a part of 3010242 AFC-VS Gasket Kit

COMMON MVS GOVERNOR CONTROL



Ref. Number	Part Number	Description
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1	S189-C	Capscrew
2	70705	Gasket, Cover
3	139761	Plug, Pipe
4	68606	Plug, Pipe
5	154461	Plunger (Red)
5	154462	Plunger (Blue)
6	148367	Ring, Snap
7	181466	Lockwasher
8	109744	Cover N/A
9	70812	Bushing
10	108384	Housing
11	110058	Nut
12	S251	Nut
13	70415	O Ring
14	70836	Plunger
15	109918	Set Screw
16	70813	Set Screw
17	70835	Shaft, Throttle
	3010942	Shaft, Throttle
18	70834	Stop
19	112408	Washer
20	70820	Plunger
21	70798	Retainer
22	70823	Snap Ring
23	153240	Spring

Ref. Number	Part Number	Description
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24	145544	O Ring
25	148254	Plate N/A
26	153379	Shim .020"
26	153380	Shim .010"
26	153381	Shim .005"
27	70704	Washer
28	101002	Spring, Wire Dia, Number Coils. (White), .063, 11
29	70811	Shim .020"
29A	70811A	Shim .010"
29B	70811B	Shim .005"
30	AR- 148253	Plunger & Barrel Assy MVS (Not Inclusive of Housing)
31	126119	Adaptor
32	100129	Capscrew
33	109899	Capscrew
34	106943	Dyna Seal
35	154086	Ring, Sealing
36	154087	Ring, Sealing
37	154088	Ring, Sealing
38	133374	Filter Cap
39	147901	Dyna Seal
40	70700	Spring
41	3234051	Screen Filter Untized

FUEL INJECTION KITS

SHUT DOWN VALVE REP. KIT

TD7000KT: KIT CONTAINS:

- | | | |
|---|---------|--------|
| 1 | 3030970 | VALVE |
| 2 | 129768 | SPRING |
| 3 | 128888 | O RING |
| 4 | 129838 | SHIELD |

INJECTOR REP. KIT

TD7001KT: KIT CONTAINS:

- | | | |
|---|---------|-----------------|
| 1 | 185138 | RETAINER |
| 2 | 193736 | O RING (3) |
| 3 | 203426 | DOWEL PIN (2) |
| 4 | 3008706 | SCREEN |
| 5 | 174299 | RETAINER SCREEN |

GOVERNOR PLUNGER REP. KIT (AFC & PTG)

TD7002KT: KIT CONTAINS:

- | | | |
|---|---------|---------------|
| 1 | 70690 | DRIVER |
| 2 | 3236320 | WASHER THRUST |
| 3 | 3021489 | SPACER |
| 4 | 3234773 | SLOT SPACER |

GOVERNOR PLUNGER REP. KIT (PTR)

TD7003KT: KIT CONTAINS:

- | | | |
|---|--------|---------------|
| 1 | 70690 | DRIVER |
| 2 | 101921 | WASHER THRUST |

THROTTLE SHAFT REP. KIT (PTG)

TD7004KT: KIT CONTAINS:

- | | | |
|---|--------|------------|
| 1 | 149040 | PLUNGER |
| 2 | 148976 | PIN |
| 3 | 142179 | SCREW |
| 4 | 70750 | SHIM .010" |
| | OR | |
| | 70750A | SHIM .005" |
| | OR | |
| | 70750B | SHIM .002" |

MVS GOVERNOR MINOR REP. KIT

TD7005KT: KIT CONTAINS:

- | | | |
|---|--------|----------------|
| 1 | 70835 | THROTTLE SHAFT |
| 2 | 70812 | BUSHING (2) |
| 3 | 70813 | SET SCREW |
| 4 | 106943 | DYNA SEAL |

WEIGHT CARRIER REP. KIT

TD7006KT: KIT CONTAINS:

- | | | |
|---|--------|-------------------|
| 1 | 143847 | SPRING |
| 2 | 163944 | BUSHING |
| 3 | 144178 | PLUNGER WT ASSIST |
| 4 | 144179 | SHIM |

SNAP RING REP. KIT

TD7007KT: KIT CONTAINS:

- | | | |
|---|--------|-----------------|
| 1 | 70699 | SNAP RING |
| 2 | S16206 | SNAP RING |
| 3 | S16240 | SNAP RING |
| 4 | 70823 | SNAP RING (MVS) |
| 5 | 148367 | SNAP RING (MVS) |

MVS GOVERNOR MAJOR REP. KIT

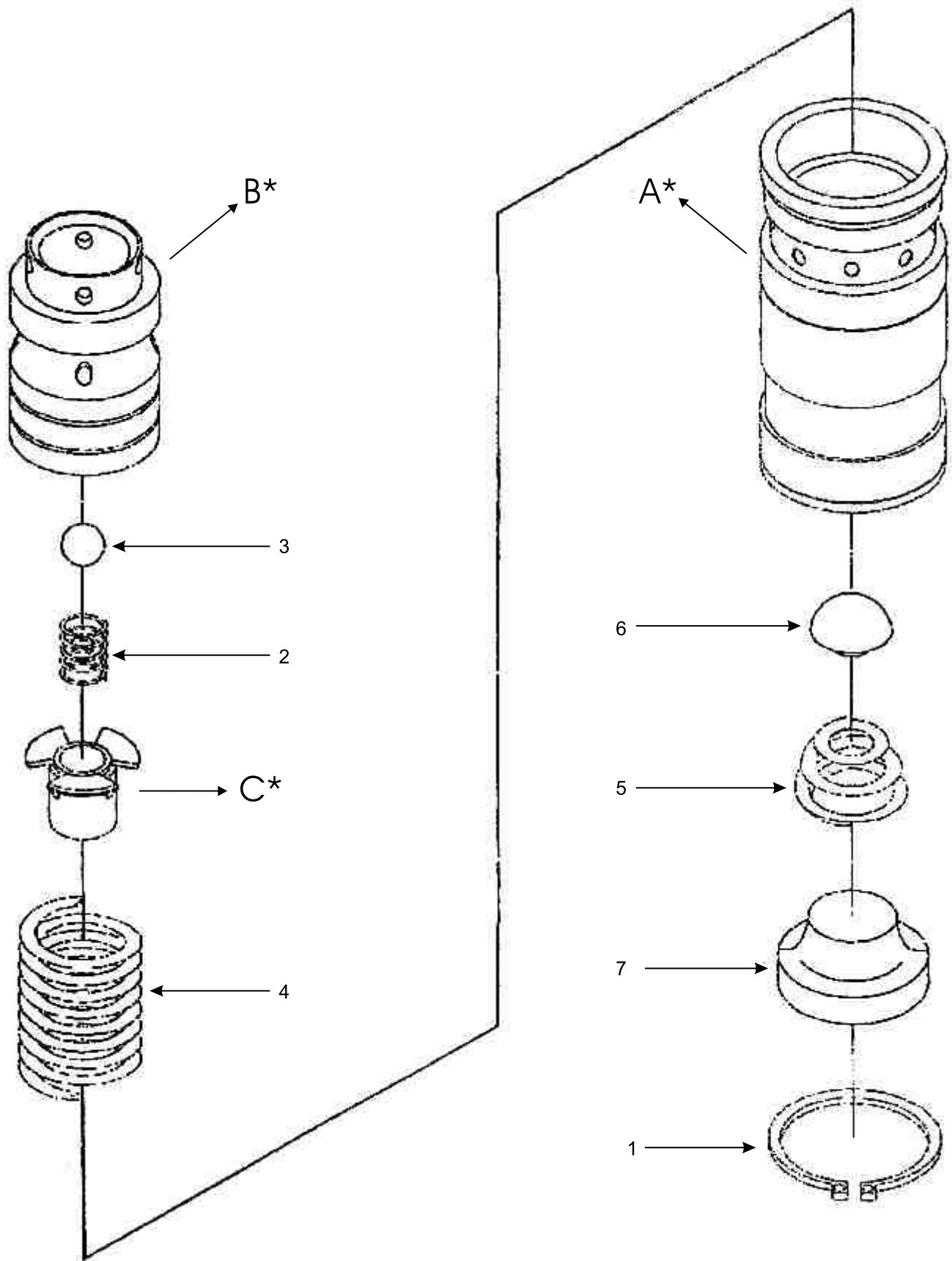
TD7008KT: KIT CONTAINS:

- | | | |
|---|--------|------------------|
| 1 | 154461 | GOVERNOR PLUNGER |
| | 154462 | GOVERNOR PLUNGER |
| 2 | 70812 | BUSHING (2) |
| 3 | 70813 | SET SCREW |
| 4 | 70835 | THROTTLE SHAFT |
| 5 | 126119 | ADAPTOR |
| 6 | 106943 | DYNA SEAL |

PTG OVERHAUL KIT - SUPER

TD7009KT: KIT CONTAINS:

- | | | |
|----|---------|------------------|
| 1 | BM68356 | GASKET KIT |
| 2 | 100192 | MAIN SHAFT |
| 3 | 104087 | SHAFT TACH. |
| 4 | 68174 | KEY MAIN SHAFT |
| 5 | 3046200 | SPIDER |
| 6 | S1650 | BEARING |
| 7 | 70715 | WASHER |
| 8 | 70716 | SCREW, ADJUSTING |
| 9 | 163944 | BUSH |
| 10 | 146483 | SCREEN FILTER |

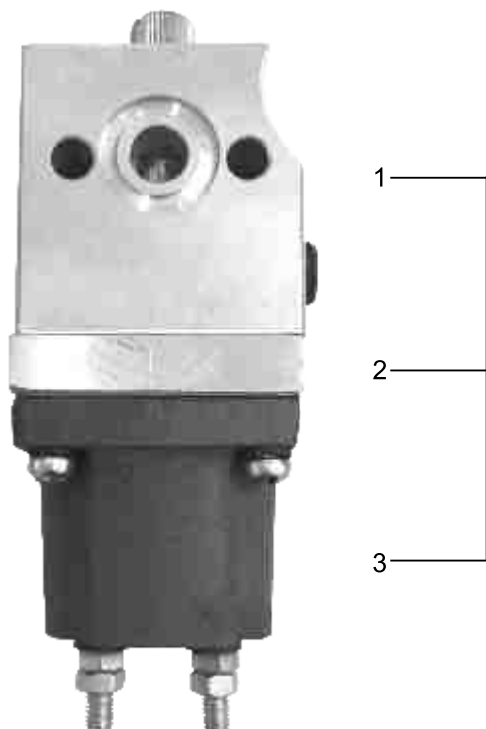


HYDRAULIC VARIABLE TIMING, TAPPET REPAIR KIT

Ref No.	Part Number	Part Name	Req.	Remarks
	3804700	Hydraulic Variable Timing Tappet Kit	1	
	3075381	Tappet, Hyd. Variable Timing	1	
	3075383	Tappet, Hyd. Variable Timing	1	
1	3027988	Ring, retaining	1	} Kit Hydraulic Variable Timing Kit Repair 3804700
2	3027994	Spring Compression	1	
3	3027996	Ball, check	1	
4	3054852	Spring, Tappet	1	
5	3085343	Spring, Tappet	1	
6	3085344	Guide, ball	1	
7	3085345	Socket, tappet	1	
		Note: Only 2 Standardised Tappets have now been introduced, they replace all previous P. Nos & versions to :		
	3075381	For all K - STC series Engines		
	3075383	For all NT & NI4 engines		
		There is a differences in 'A' Sleeve & 'B' Plunger Tappet between the 2 Tappet Part numbers & should not be interchanged.		
		However the kit P No 3807400 is common to both Tappets & is all that is needed to repair both the tappets		

The Sleeve (A), Plunger (B) & Spring retainer (C) do not wear and need no replacement.

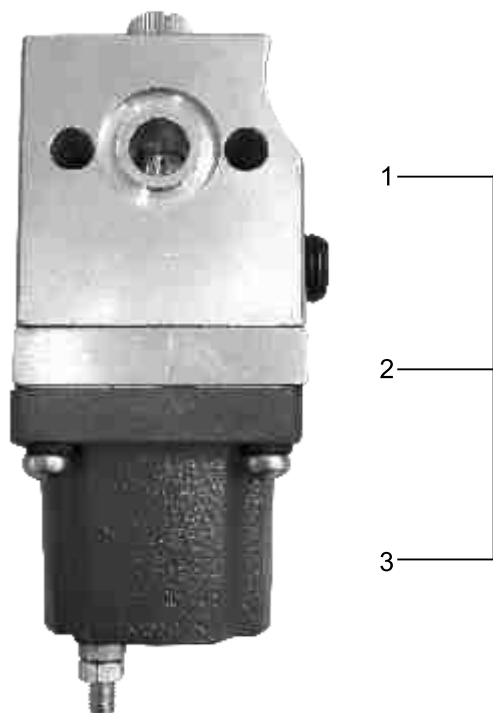
VALVE FUEL SHUT OFF



Ref. Number	Part Number	Description
	3037997	Valve Fuel Shut Off
1	3234041	Body Shutoff Valve
2	3034451	Housing Actuator
3	3021420	24V HD Rapid Start Double Pole Coil

Engine : K 19 / K 38 / K 50 - Locomotive Applications

VALVE FUEL SHUT OFF



Ref. Number	Part Number	Description
	3239601	+P Valve Shut Off
1	3234051	Body Shut off Valve
2	3034451	Housing Actuator
3	3054609	24 V Rapid Start Single Pole Coil

Engine : 1 Megavatt Engines

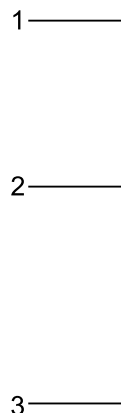
VALVE FUEL SHUTOFF



Ref. Number	Part Number	Description
1	3239601	Valve Fuel Shut Off
2	3234041	Body Shutoff Valve
	3054609	24 V Rapid Start Single Pole Coil

*Engine : KT / KTA 1150 India Series

VALVE FUEL SHUTOFF



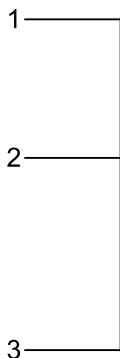
Ref. Number	Part Number	Description
1	3053458	Valve Fuel Shut Off
2	129826	Body Shutoff Valve
3	3034451	Housing Actuator
	3054609	24 V Rapid Start Single Pole Coil

Engine : NT / NTA 855 BigCam III Series Newer Model

VALVE FUEL SHUTOFF



Modified radius to prevent fouling with ECM module on Fuel Pump Housing



Ref. Number	Part Number	Description
	3017993	Valve Fuel Shut Off
1	3014010	Body Shutoff Valve
2	3034451	Housing Actuator
3	3054609	24 V Rapid Start Single Pole HD Coil

*Replaces all previous Versions on KT -19 / KT 38 / KT 50 Engines

VALVE FUEL SHUTOFF



Ref. Number	Part Number	Description
* 3035344 : Valve Shut off 24V Single Pole		
1	129826	Body Shutoff Valve
2	3054610	24 V Rapid Start Single Pole Coil (Black)
2	3054609	24 V HD Rapid Start Single Pole Coil (Red)

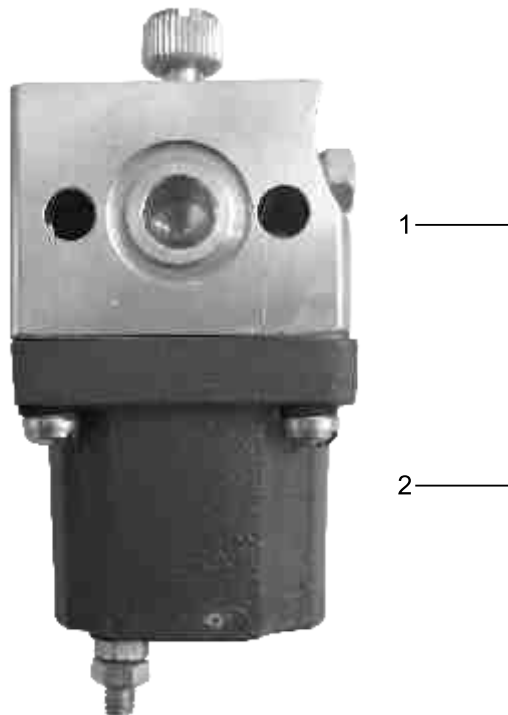
3035346 : Valve Shut Off 24V Double Pole in which 3054609 Coil is replaced with 134076 24V Double Pole Coil

Ref. Number	Part Number	Description
* 3035342 : Valve Shut off 12V Single Pole		
1	129826	Body Shutoff Valve
2	3054611	12 V Rapid Start Single Pole Coil (Black)
2	3408421	12 V HD Rapid Start Single Pole Coil (Red)

3035345 : Valve Shut Off 12V Double Pole in which 3408421 Coil is replaced with 134075 12V Double Pole Coil

*All NH / NT / VT Engines Earlier Models

VALVE FUEL SHUTOFF



Ref. Number	Part Number	Description
	3239599	Valve Fuel Shut Off
1	3234037	Body Shutoff Valve
2	3054609	24 V HD Rapid Start Single Pole Coil

*Engines : NH & NT Models India Series

Notes

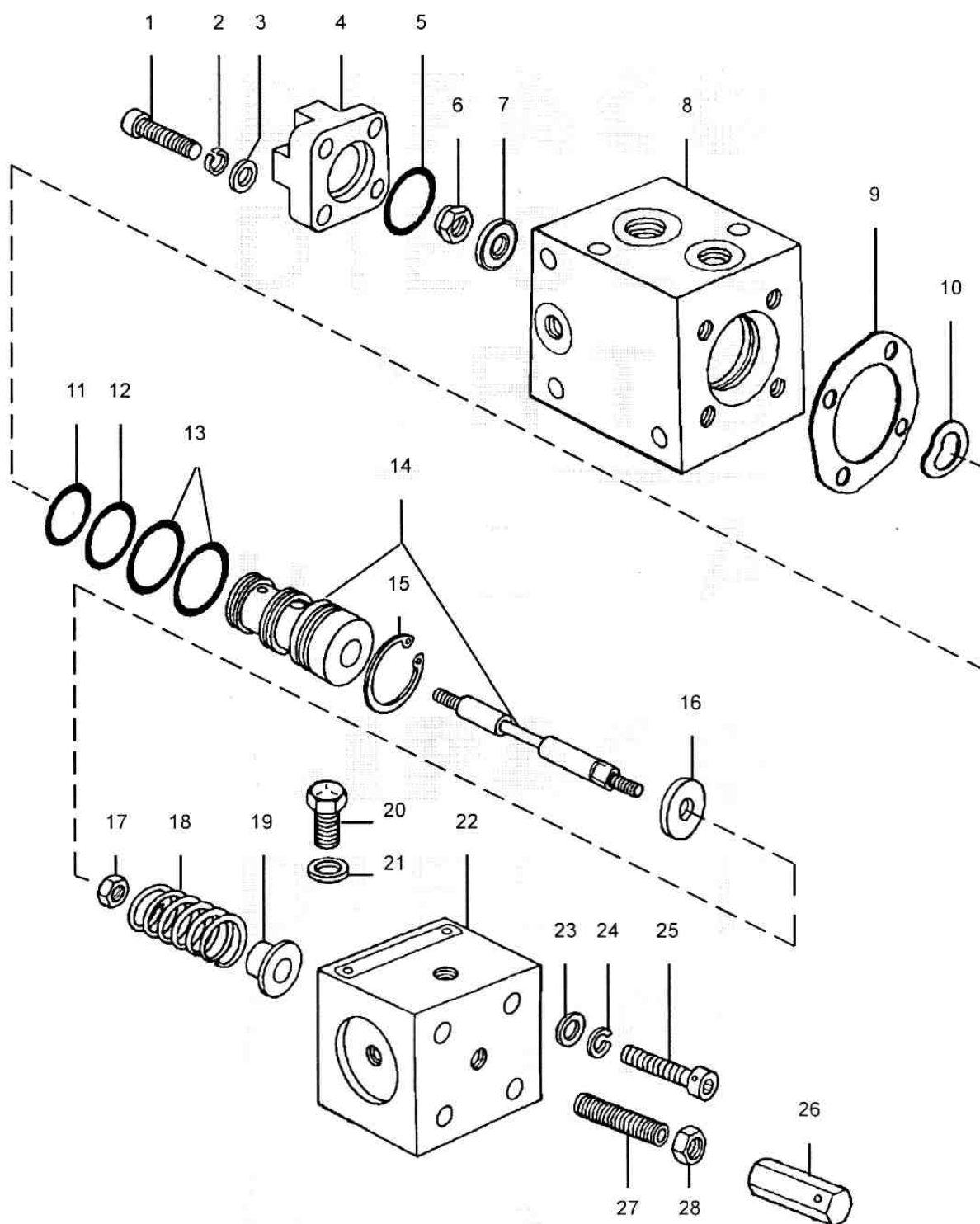
SOLENOID COILS FOR SHUT OFF FUEL VALVE



Assembly	Description	No. of Poles	Application
134075	12 V Double Pole Coil	2	NON HD*, Phospated
134076	24 V Double Pole Coil	2	NON HD, Phospated
3408421	12 V Single Pole Coil	1	HD, Red Painted
3054609	24 V Single Pole Coil	1	HD, Red Painted
3054611	12 V Single Pole Coil	1	NON HD, Phospated
3054610	24 V Single Pole Coil	1	NON HD, Phospated
3098352	12 V Double Pole Coil	2	HD, Red Painted
3021420	24 V Double Pole Coil	2	HD, Red Painted
3054291	32 V Double Pole Coil	2	HD, Red Painted

Note : * Heavy Duty

STC VALVE WITH GASKET



STC VALVE WITH GASKET

Ref	Part No.	Description	Qty
1	3075637	CAPSCREW	4
2	181466	LOCK WASHER	8
3	70704	FLAT WASHER	8
4	3069989	COVER	1
5	3034408	O-RING	1
6	3029301	NUT	2
7	3073998	DISC VALVE	1
8	*	BODY	1
9	3070108	GASKET	1
10	3054411	BEVELLED SPRING	1
11	3045986	O-RING	1
12	3066914	O-RING	1
13	3042542	O-RING	2
14	3060605	BARREL AND PLUNGER	1
15	S 16240	RETAINING RING	1
16	3070186	PLAIN WASHER	1
17	3029301	NUT	2
18		SPRING	1
19	3049041	SPRING RETAINER	1
20	70446	CAPSCREW PLUG	1
21	3069998	SEAL WASHER	1
22	*	SPRING COVER	1
23	70704	FLAT WASHER	8
24	181466	LOCKWASHER	8
25	3075638	CAPSCREW	1
26	3055687	ACORN NUT	1
27	*	SOCKET SET SCREW	1
28	3021639	NUT	1

Note : P. Nos are given for reference only. During Overhaul & Repair, The only parts which need replacement is the 'O. Rings (11,12,13), 3060605 Barrel & Plunger (14) & the Gasket 3070108 (9) This is offered under KIT P. No. 3803282

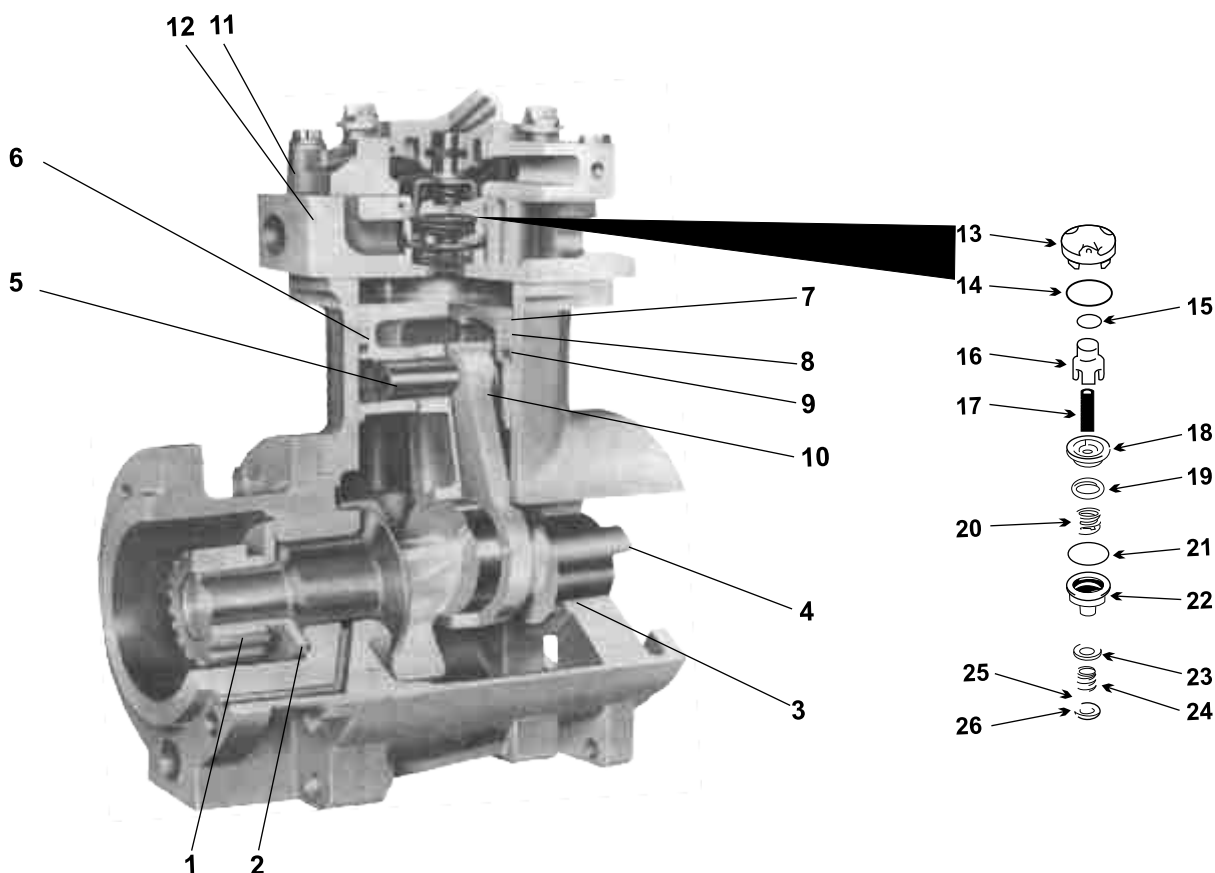
TROUBLE SHOOTING GUIDE

PTG / AFC FUEL SYSTEM TROUBLESHOOTING

POSSIBLE CAUSE

	COMPLAINTS	Acceleration Slow	Air Leaks	Carboned Valves, Injector Cups	Deceleration Slow	Failure To Pick Up Fuel	Fuel Consumption Excessive	Fuel Pressure High	Fuel Pressure Low	Governed Speed High	Governed Speed Low	High Speed Surge MVS	Idle Speed Too High	Idle Surge MVS	Idle Undershoot MVS	Low Power	Rough Operation	Smoke Black, Low Speed	Throttle Leakage Excessive	Wear Rate High
Air Signal Attenuator Filter Plugged		•																		
Air Leaks		•	•																	
Aneroid Not Opening				•	•															
Aneroid Stuck Open		•			•	•	•													
Aneroid Valve Stuck Open		•			•	•	•													
Cooling Line By - Passing					•	•														
Cranking Speeds Slow					•															
Filter Suction Restricted		•			•															
Fuel Dirty		•	•																	
Fuel with Water					•															
Fuel, Wrong Type		•																		
Gear Pump Worn		•			•	•														
Governor Plunger Chamfer, Indequate																				
Governor Plunger Scored					•															
Governor Plunger, Wrong/Worn/Sticking		•			•															
Governor Plunger, Worn/Scored		•			•															
Governor Spring Shims Low		•																		
Governor Spring Shims High		•																		
Governor Weights Incorrect (Heavy)		•																		
Governor Weight, Pin Wear																				
High Speed Spring Shimming Wrong		•																		
Idle Plunger (Button) Wrong		•	•																	
Idle Plunger Weak																				
Idle Spring Wrong																				
Injector Adjustment Loose		•																		
Injector Cup Cracked, Wrong, Damaged		•																		
Injector Flow High																				
Incorrect Injector		•																		
Injector Orifice Size Wrong																				
Injector Plunger Worn		•																		
Pressure Valve Failure		•	•																	
Reversed Rotation, Drive Failure																				
Screw Adjust, Incorrect																				
Shutoff Valve Restriction																				
Speed Settings, Unmatched auto/MVS or VS																				
Spring Fatigue																				
Throttle Leakage Excessive																				
Throttle Linkage		•																		
Throttle Shaft Restricted																				
Throttle Shims Excessive																				
Throttle Shims Insufficient		•																		
Torque Spring Wrong		•																		
Weight Assist Setting High																				
Weight Assist Set Wrong																				
Torque Limiting Valve Coil Not Energized		•																		
Torque Limiting System (Air Valve) Switch Closed		•																		

SINGLE CYLINDER AIR COMPRESSOR



Ref. Number	Part Number	Description
1	3000174	Gear Coupling
2	211662	Washer Thrust
3	147610	Bushing Compressor
4	3046200	Spider
5	119810	Piston Pin
6	165430	Piston
	3245718	Piston Ring Set Service
7	650330	Top Piston Ring
8	187350	Piston Ring II
9	180810	Oil Piston Ring
10	3018151 (176023)	Connecting Rod
11	153964	Cover
12	218793	Head
13	3558624 (153966)	Body Unloader Valve (For Remote mount Governor)
13	3046298	Body Unloader Valve (For Direct mount Governor)

Ref. Number	Part Number	Description
	AR4154	Kit Compressor Major Repair
14	211315	O Ring Unloader Valve
15	127936	O Ring
16	191037	Cap Unloader Valve
17	217557	Spring
18	145028	Seat Intake Valve
19	144948	Intake Valve
20	190334	Spring Intake Valve
21	128086	O Ring
22	144714	Seat Exhaust Valve
	(3043945)	Seat Exhaust Valve (New Type)
23	127940	Exhaust Valve
24	128080	Spring Exhaust Valve
25	128085	O Ring (Not Shown) (Not used with 3043945)
26	183429	Wear Plate
	AR12719	Kit Compressor Minor Repair (Incl. Items 14, 15, 17, 19, 20 21, 23, 24, 25 & 26)

LUBRICATING OIL PUMPS



Ref. Number	Part Number	Description
	3821572	Lubricating oil Pump NT-855 BIG CAM & N-14 engines
	3609833	Lubricating Oil Pump (Internal bypass) NT-855 (Big cam)
	3609833	Lubricating Oil Pump (Internal bypass with spur drive gear)
	AR10172	Lubricating Oil Pump NT-855 (Small cam)

Ref. Number	Part Number	Description
	4939587	6B / BT / BTA Lubricating oil Pump
	3948071	6C / CT / CTA Lubricating oil Pump
	4939585	4B / BT / BTA Lubricating oil Pump
	3966840	6C / CT / CTA Heavy Duty Applications Lubricating oil Pump
	3948072	6C / CT / CTA Heavy Duty Applications Lubricating oil Pump
	4003950	M11 / L10 Heavy Duty Applications Lubricating oil Pump

WORLD CLASS THRUST WASHERS TAKING THE LOAD



TRIDENT IS ONE OF THE WORLDS LARGEST MANUFACTURERS OF MAIN BEARING THRUST WASHERS. WE MAKE THRUST WASHERS FOR THE FOLLOWING FINEST HEAVY DUTY DIESELS

- CUMMINS
- CATERPILLAR
- JOHN DEERE
- MACK
- ALLIS CHALMERS
- KOMATSU & MANY MORE

CUMMINS FUEL INJECTION SYSTEM PUMP TORQUE SPECIFICATIONS

Component	Torque IN./LB.	Values (Newton/ Meters)	Component	Torque IN./LB.	Values (Newton/ Meters)
AIR FUEL CONTROL			GENERAL		
AFC Cover Capscrew (Fillister 1/4-20x1)	30	(3.4)	Capscrew, Housing to Cover (P/N S171C and 70790, 1/4-20)	154	(6.1)
AFC Piston Bellows Nuts	30	(3.4)	Straight Thread O-Ring (5/16-24)	54	(6.1)
AFC Jam Nut (1/4-28)	30	(3.4)	Straight Thread O-Ring (3/8-24)	54	(6.1)
Jam Nut No AFC (5/16-24)	30	(3.4)	Straight Thread O-Ring (7/16-20)	84	(9.5)
AFC Dual Spring Jam Nut (P/N 3051461 10-32)	30	(3.4)	Straight Thread O-Ring (1/2-20)	84	(9.5)
AFC Adj Screw Jam Nut (P/N 306901 5 1/4-28)	50	(5.6)	Straight Thread O-Ring	120	(13.5)
Hydraulic ASA Valve Assy.	84	(9.5)	Male Union (9/1 6-1 8)		
AFC Check Valves	120	(13.5)	Straight Thread O-Ring	120	(13.5)
			Male Union (3/4-1 6)		
FUEL PUMP HOUSING.			Hex Head Capscrew (Unless specified otherwise)	120	(13.5)
Throttle Leakage Screw	30	(3.4)	Capscrews TMD & MVS	204	(23.0)
Acorn Nuts, Throttle Travel Screw, VS Throttle Housings			Governor (3/1 6-24)		
Throttle Lever Screw (P/N 70208 Fillister 10-32)	30	(3.4)	Fuel Strainer Cap	204	(23.0)
EFC Gov Hex Head Screws (1/4-20x1 1/8)	54	(6.1)	MVS Governor		
Throttle Shaft Set Screws, VS	54	(6.1)	Pressure Regulator Cap	204	(23.0)
Throttle Shaft Set Screws, Auto	84	(9.5)			
Throttle Adj Screw Jam Nut (1/4-28 except VS)	84	(9.5)	GEAR PUMP		
Tach Adapter Screws (PTR & Old PTG)	64	(6.1)	Gear Pump Cooling Kit Jam Nut	84	(9.5)
VS Gov Barrel Retaining Setscrew	84	(9.5)	Gear Pump Socket Head Capscrews	120	(13.5)
Fuel Strainer Caps, Auto	120	(13.5)	Gear Pump Inlet Fitting and Jam Nuts	204	(23.0)
Injector Orifice Plug (Century and Pacer EFC)	10	(1.1)	PTR Fuel Overflow Outlet	204	(13.5)
FRONT COVER			PIPE PLUGS		
VS Front Cover Capscrews (P/N 3028868 10-24X 1 1/4)	30	(3.4)	1/8" with Coated Dry Sealant (Excluding SOV)	54	(6.1)
Front Cover Capscrews (P/NS188C 1/4-20x5/8)	54	(6.1)	1/6" in Aluminum Oiled	54	(6.1)
Front Cover Alien Head Screws (10-24x 1 1/4) '	54	(6.1)	1/8" Uncoated (Excluding SOV)	84	(9.5)
Drive Coupling Capscrew (AFC W/Tach in Cover)	54	(6.1)	1/4" with Greased Threads	204	(23.0)
Drive Coupling Capscrews (PTR and PTG)	84	(9.5)	SHUTDOWN VALVE		
Front Cover Capscrew w/Nylon Seal	120	(13.5)	Capscrew (10-24 Fillister)	30	(3.4)
Front Cover Tach Adapter	204	(23.0)	1/8" Pipe Plug	84	(9.5)
VS Throttle Housing with Self Sealing Jam Nut	204	(23.0)	1/4" Pipe Plug Coated	84	(9.5)
			Socket Head Capscrew (1/4-20)	120	(13.5)
			STC VALVE		
			Hex Head Capscrew (P/N 70446 1/4-20)	30	(3.4)
			Straight Thread Elbows and Tees Oiled 9/16-18)	204	(23.0)
			Straight Thread Elbows and Tees (Oiled 3/4-1 6)	204	(23.0)



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**ALL PARTS OFFERED CARRY OUR
GUARANTEE OF QUALITY AND PRECISION TO
MEET OR EXCEED ORIGINAL EQUIPMENT
SPECIFICATION.**

**THE NEW PARTS OFFERED BY T.D.S. ARE WARRANTED TO BE FREE FROM DEFECTS IN
MATERIAL AND WORKMANSHIP UNDER NORMAL USE FOR A PERIOD OF (12) MONTHS, T.D.S.
WILL PROVIDE REPLACEMENT WARRANTY.**

**THIS WARRANTY SHALL NOT APPLY TO NORMAL WEAR AND TEAR, NOR TO ANY PART WHICH
HAS BEEN SUBJECTED TO MISUSE, ABUSE, NEGLECT, ACCIDENT OR TO DAMAGE CAUSED BY
WATER PRESENT IN FUEL, NOR TO PARTS IMPROPERLY INSTALLED OR SERVICED. THE PARTS
WILL BE REPLACED IF THEY ARE SENT TO OUR ADDRESS AND IF IN OUR INSPECTION ARE
FOUND TO BE DEFECTIVE AND ABOVE CONDITIONS NOT APPLICABLE.**

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