

Woodward Energy Segment Customer Publications: Cross-Reference by Application Revision Status & Distribution Restrictions

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Woodward Customer Publications

This is a listing of publications available to the general public (www.woodward.com/publications), arranged by application. The listing includes product specifications, technical manuals, and application notes (as well as catalogs and brochures under General Information). A complete listing of all these publications can be found in index 26300V1.

This index also includes a listing of all active Woodward customer publications by pub number, showing their current revision and distribution restriction.

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Diesel Engine Controls

723 Product Line	Product Spec	Technical Manual	Application Note
723 Digital Controls		02758 (Digital Control Hardware) 02827 (Digital Marine Control) 37807 (Generator Control) 26097 (Position Control) 02785 (Analog Load Share) 02784 (DSL/Compatible-old) 02755 (723/QuadraLink)	02817 (Network Binding Procedure)
LINKnet Distributed I/O Network	85572	02826 (LINKnet Option for use with 723 Digital Controls)	

723PLUS/828 Product Line	Product Spec	Technical Manual	Application Note
723PLUS Digital Control, Standard Applications	03203	02882 (723PLUS 8280-410/411)	26031 (Network Binding Procedure/DOS)
723PLUS Digital Control, Custom Control	02876	02877 (723PLUS Digital Control Hardware)	51203 (Network Binding Proc./Windows)
723PLUS Performance Control for Compressor-Drive Engines	03214	02880 (723PLUS for Marine PGA Replacement 8280-419) 26549 (723PLUS for Marine PGA Replacement 8280-1129) 26788 (723PLUS Installation Sheet) 37827 (Generator Control) 26425 (723PLUS Nile River Vessel Generator Control 8301-1146) 26264 (723PLUS, Single Engine Marine Applications, DSL/Compatible Input 8280-1042) 02884 (723PLUS Performance Control 8280-424) 26043 (723PLUS Performance Control 8280-598) 26227 (723PLUS Digital Marine Control, Two Engine Mechanical Load Sharing) 26808 (723PLUS Digital Marine Control, Two Engine Mechanical Load Sharing 8280-1173) 02883 (723PLUS w/ Process Control 8280-464/465) 26141 (723PLUS/AIS) 02879 (723PLUS/Analog Load Sharing) 26373 (723PLUS/Cat ADEM 8280-1076) 02878 (723PLUS/DSL/Compatible) 02831 (723PLUS/DSL/MSLC Gateway) 26471 (723PLUS/DSL/MSLC Gateway/Brazil) 02881 (723PLUS/Mechanical Load Sharing) 26310 (723PLUS/Redundant Load Sharing 8280-1056) 26482 (723PLUS/2-Engine Redundant 8280-1109) 91623 (723PLUS Std Generator Control LON Load Sharing)	
828 Digital Control	02874	02875 (828 Digital Control Hardware)	

2300 Product Line	Product Spec	Technical Manual	Application Note
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2301A Product Line	Product Spec	Technical Manual	Application Note
2301A Speed Control	82021	82020 26796 (Installation Sheet)	
2301A with 4–20 mA Input	02301	02302	
2301A Load Sharing & Speed Control (9905 Series)	82390	82389 (9905/9907 Series) 26795 (installation Sheet) 26006 (9907 Series)	50533 (Wiring the 9905 Series)
2301A Load Sharing & Speed Control with Dual Dynamics	82047	82046	
2301A Load Sharing & Speed Control with Temp or Process Limiting	82387	82386 02303 (9900-430—433) 02008 (Reverse Acting Fuel Limiter 8272-789) 82348 (2301 & 2301A Controls, Preregulator)	51191 (Replacing Caterpillar 2301 Controls) 51005 (Retrofitting UG-8-Controlled Eng.) 51090 (Adapting for Torque Conv. Use) 51242 (2301A to 2301D Wiring Differences)

2301D/2301E Product Line	Product Spec	Technical Manual	Application Note
2301D Digital Control		26065	
2301D-EC Digital Control		26247 (2301D/2301D-EC 8273-138/-139/-140/-141) 26288 (2301D/2301D-EC 8273-501/-503/-505/-507) 26797 (Installation Sheet)	51263 (2301D/2301D-EC PN Differences)
2301D-JM/JH		26138	
2301E Digital Load Sharing & Speed Control	03404	26641	
2300E Digital Load Sharing & Speed Control Hardware	03405	26691	

AGLC Automatic Generator Loading Control	Product Spec	Technical Manual	Application Note
AGLC Automatic Generator Loading Control	82399	82394 (9905-063) 82004 (9905-096)	

APECS Product Line	Product Spec	Technical Manual	Application Note
General		36718 (APECS Actuator Kit for Cummins C) 36588 (APECS Actuator Kit for Daihatsu) 36587 (APECS Actuator Kit for Kubota) 36530 (APECS DC10502 Lin. Act. for Cummins) 36550 (APECS Controllers for DYNA 2000 and 2500 Linear Actuators) 36561 (APECS 0250 Kit for Isuzu 4BG1-TRV) 36562 (APECS 0250 Kit for Isuzu 4JG1-TPV) 36721 (APECS 1000 & 2000 Installation & Calibration) 36734 (APECS 2000) SE-4049 (APECS 3000) 36716 (APECS 3000 Installation) SE-4050 (APECS 4000) 36752 (APECS 4500) 36750 (APECS 4800)	36579 (Controllers for Stanadyne Pumps) 36586 (APECS Diagnostic Guide) 36728 (Repl. of Power Flow Throttles) 51319 (Centralized Suppression for DPG) 51343 (APECS 4500 Firmware Release) 51439 (APECS 4500 Upgrade for Sm. Eng.)

	Product Spec	Technical Manual	Application Note
		SE-4096 (APECS 5000)	
		36532 (APECS 70025 Actuator for Stanadyne)	
		36528 (APECS DYN3-60030 Electronic Speed Switch)	
		36538 (APECS DYN1-1075X Ctrl for DYNA 2000 and 2500 Linear Actuators)	
		SE-4051 (APECS EPS 1000 Equipment Protection System)	
		36555 (APECS ESSE-1 Electronic Speed Switch)	
		36564 (APECS ESSE-2 Electronic Speed Switch)	
		36545 (APECS MCFA Laptop Diagnostic Monitor)	
		36529 (APECS Plus 1, Plus 2, Plus 4, Plus 6 Digital Governor Systems)	
		36569 (DYNA 8000 Series)	
		36524 (ESSE Series)	
		36736 (1000S Series Locking Solenoids)	
		36737 (1500 Series Solenoids)	
		36738 (1510S Series Solenoids)	
		36739 (1750 Push Series Solenoids)	
		36740 (1750 Series Solenoids)	
		36741 (2000 Series Solenoids)	
		36742 (2370 Series Solenoids)	
		36743 (Cable Solenoid)	
		36744 (EPS 1000)	
		36745 (Shutdown Solenoid Kit)	
		36585 (Solenoid Control Electronics)	
		36589 (Solenoid Selection Guide)	
		36590 (Solenoid Shutdown Kits)	
		36735 (Actuator-Controller Compatibility)	
		36748 (Mini-Gen Signal Generators)	
		36509 (APECS/EPS CD-ROM Installation Guide)	
0154 Linear Actuator Integral to Fuel Pump	37743		
0175 Linear Actuator Integral to Fuel Pump	37744		
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0200 Integral Actuators	36582		
0225 Linear Actuators	36581		
0225 Linear Actuator w/ Boot & Clevis Plunger	36730		
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500 Single Speed Electronic Engine Controller	36710	36725 (Quick Installation Guide)	
		36513 (User Manual)	
2000 Linear Actuators	36540		
2500 Linear Actuators	03324	36531	
4500CAN Controller	36549		
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ACTIVGEN Engine Speed Control	03419	26777	
Cummins Energize-To-Stop (ETS) Solenoids			36733
DPG-21XX-00X Digital Controllers	36502	36526 (APECS DPG-21XX-00X)	
		36543 (APECS DPG-2104)	
		36536 (APECS DPG-2111-001)	
		36537 (APECS DPG-2133-00X)	
DPG-2201-00X Digital Controllers	36503	36523	

	Product Spec	Technical Manual	Application Note
DPG-2223-00X Digital Controllers	36554	36522	
DPG-23XX-00X Digital Controllers	36504	36527	
DPG-2401-00X Digital Controllers for EFC Valves	36512	36525	
DPG Series Controllers, DPG Calibration Kit	36560		
GBA Rotary Actuator (Golf Ball Actuator)	36510		

Atlas Product Line	Product Spec	Technical Manual	Application Note
Atlas-II Turbine and Engine Control Platform	03346		
AtlasSC Engine and Turbine Control System	03253	26179 (AtlasSC) 26229 (AtlasSC Overspeed Protection System)	

Diesel Fuel Injection Systems	Product Spec	Technical Manual	Application Note
		55151 (Fuel Injection Equipment Introduction) 55152 (Practical Aspects of Fuel Injection Equip.)	55142 (Fuel Pump Supersession List) 55143 (Diesel Engine Application List) 01539 (Equipment Safe Handling & Use)

Digital Reference Units	Product Spec	Technical Manual	Application Note
Digital Reference Unit	03218	82343 (8271-221) 82442 (8271-651) 82006 (8272-682-685)	

EGCP Product Line	Product Spec	Technical Manual	Application Note
EGCP-2 Engine Generator Control Package	03219	26175 (EGCP-2 Application 8406-120/121) 26181 (EGCP-2 Communications 8406-120/121) 26174 (EGCP-2 8406-120/121) 26086 (EGCP-2 Operation 8406-115/116) 26099 (EGCP-2 HMI & Servlink 8406-115/116)	51199 (EGCP-2 Differences) 51201 (Setpoint Worksheet) 51244 (SW Upgr. Instr. to 8406-120E/-121F) 51270 (SW Up In to 8406-120G/121H/123C) 51209 (SW Upgr. Kit Instr. Rev A to B) 51211 (SW Upgr. Kit Instr. Rev A/B to C)
EGCP-3 LS Multi-unit Load Share Version		26122 (EGCP-3 Installation) 26194 (EGCP-3 LS Operation)	51281 (8406-113 Rev K SW Changes) 51294 (8406-113 Rev L SW Changes) 51313 (8406-113 Rev N SW Changes) 51361 (8406-113 Rev R SW Changes) 51247 (Single Phase Zig Zag Application)
Misc. EGCP-3			51215 (Operation with Auto. Transfer Switch) 51207 (Sequencing) 51224 (Complex Power Systems Solutions) 51210 (Beta Site, São Paulo, Brazil) 51213 (EGCP-3 & SPM-D on the Sea Jewel)

Electronic Fuel Injection Products	Product Spec	Technical Manual	Application Note
ECM3 Electronic Fuel Injection Control		26348	51338 (Casting Color)
In-Pulse II Fuel Injection Control	03315		
Universal Multipoint Driver	03387		

Governors/Actuators	Product Spec	Technical Manual	Application Note
3161 Governor	03102	03101 (3161 Governor) 03110 (Solid Piston Air Pressure Fuel Limiter) 03107 (Speed Adj Motor w/ Manual Speed Adjust) 03108 (Air Pressure Fuel Limiter) 03105 (Electric Shutdown Device) 03109 (Load Limit Control) 03103 (Manual Shutdown Device) 03106 (Pneumatic Speed Setting Device) 03104 (Pressure Shutdown Device) 03112 (Solenoid Start Fuel Limiter) 03111 (Torque Rise) 03113 (EGB Supplement to 3161 Governor) 54110 (3161/EGB Governor/Actuator Installation)	
CSC Cummins Speed Control	04181		
EG-3P/6P/10P Actuator	82516	37710 (EG-3C & EGR) 82560 (EG-3P) 26798 (EG-3P Installation Sheet) 82566 (EG-6P/10P) 26799 (EG-6P/10P Installation Sheet) 54005 (EG-3P on DDAD V-149 Engine 8956-142) 54008 (EG-3P on Detroit Diesel I-71 Engine 8956-166) 54003 (EG-3P on DDAD V-71 & V-92 Engines 8956-143) 37714 (EG Power Transfer Control)	
EGB-1P/2P Governor/Actuator	82575	82570 54007 (EGB-2P on DDAD V-71 & V-92 Engines 8956-163) 54009 (EGB-2P on DDAD I-71 Engine 8956-162) 54006 (EGB-2P on DDAD V-149 Engine 8956-165)	
EGB-10P/13P/35P Governor/Actuator	82543	82340 (EGB-10P/13P/29P/35P/50P/58P)	
EGB-29P/58P Governor/Actuator	82483	82340 (EGB-10P/13P/29P/35P/50P/58P)	
EGB-200P/300P Governor/Actuator	82473	82462	
EGB Governor Mode Switch Assembly	82489		
Other EGBs		37709 (EGB-2C) 37729 (EGB-10, Two-Solenoid Spd Setting Mechanism) 37741 (EGB-10 Pneumatic Speed Setting, New Style) 37708 (EGB-10C) 54066 (EGB-10C/13C/35C/50C Instal) 82558 (EGB-10PLS Hydraulic Actuator) 37740 (EGB-500P)	
EPG Electrically Powered Governors	04106	82327 (512/24 & 1712/24, Single Phase Droop) 82329 (512/524 & 1712/1724 installation) 82493 (512/524 & 1712/1724 Isochronous) 82448 (501/1701) 26786 (EPG Installation Sheet) 82042 (4024) 82354 (EPG with Position Feedback) 82038 (Min/Max Control System)	50530 (Installation & Control Choices for) 50528 (Linking to a Mech Droop Gov)

	Product Spec	Technical Manual	Application Note
EPG Installation Kits		54120 (1712/24,512/24 Kit 8923-009,8924-595/867/877: Bosch Pump) 54116 (1712/24 Kit 8924-584/591/862/868: Detroit Diesel I-71 Engine) 54086 (1712/24 Kit 8924-600: Caterpillar D3406 Engine) 54087 (1712/24 Kit 8924-601: Caterpillar D3304 & D3306 Engine) 54088 (1712/24 Kit 8924-604: Cummins N/NT/NTA-885 Engine) 54089 (1712/24 Kit 8924-605: Cummins KT/KTA-1150GS Engine) 54090 (1712/24 Kit 8924-606: Cummins V1710 Engine) 54050 (1712/24 Kit 8924-606: Cummins VT/VTA-1710 GS) 54091 (1712/24 Kit 8924-607: Cummins KT/KTA-2300GS/3067GS Engine) 54092 (1712/24 Kit 8924-608: Caterpillar 3208 Engine) 54063 (1712/24 Kit 8924-612: Deere 6466A Engine) 54099 (1712/24 Kit 8924-640: Deutz 6L 9131C Engine) 54101 (1712/24 Kit 8924-642: Caterpillar D3306B Engine) 54047 (1712/24 Kit 8924-655: White D 4800 Engine Gen Set) 54100 (1712/24 Kit 8924-782: Caterpillar D3406B Engine) 54115 (1712/24 Kit 8924-826: Caterpillar 3114T/3116T Engine w/ turbo, rdtr, fan dr) 04101 (4024 Kit 8923-071: Detroit Diesel V-149 Engine) 54117 (1724 Kit 8924-863: Detroit Diesel V71 or V92 Engines)	
EM-70/EM-140 Rotary Output Electric Actuators	40180	40178 (EM-140)	
EM-80 and EM-300 Actuators	36199	36173	
EM-80/EM-300 MDS 5150A/LIT Actuator System	03420	26761	
Other EM Actuators		04110 (EM-6 Actuator) 82000 (EM-10P/20P Actuators. all elec w/ electronic driver) 40152 (EM-35 Analog Driver) 40161 (EM-35 Digital Driver with Dual Feedback)	
EML-100 Actuator	40186	40183 (EML-100 Actuator) 26159 (EM/LQ Digital Driver)	
F-Series Actuator & Integrated Throttle Body	03345	26355 (14-pin version) 26600 (23-pin version)	51465 (F-Series Cleaning Procedure)
PG Governors/General	36010	36652 (PG Automatic Safety Shutdowns & Alarms) 36646 (PG Auxiliary Compatible Torque Limiter) 36693 (PG Base Assemblies) 26793 (PG Base Assemblies Installation Sheet) 54056 (PG Dial & Lever Governor Installation) 26790 (PG Dial & Lever Installation Sheet) 36623 (PG Dial Governor, Back Pressure Controller) 36622 (PG Dial Governor, Speed Droop Linkage Mechanism) 36404 (PG Governing Troubles, Analysis & Correction of) 36601 (PG Governor, Absolute Manifold Pres Bias Load Cntr & Fuel Limit) 36600 (PG Governor Basic Elements) 26792 (PG Governor Basic Elements Installation Sheet) 36614 (PG Governor Dial Type Speed Setting) 26789 (PG Dial Installation Sheet) 36615 (PG Governor Lever Type Speed Setting) 36014 (PG Governor Speed Adjusting Motor) 36621 (PG Governor Speed Droop Linkage) 36670 (PG Governor w/ Proportional Pneumatic Output Signal)	

Product Spec	Technical Manual	Application Note
		36644 (PG Governor, Motor Speed Setting) 36036 (PG Governor, Starting Fuel Limiter) 36608 (PG Governor, Transducer Type Load Control/LVDT) 36602 (PG Governor w/ Differential Servomotor, Basic Elements) 36631 (PG Governor w/ Trque Adv at Idle, Man Press Bias Ld Cntrl & Fuel Lim) 36630 (PG Governors, Basic Load Control System) 36642 (PG Governors, Dynamic Brake Control) 36691 (PG Governors, Electronic Speed Setting/PG-TR) 36640 (PG Governors, Extensible Tailrod) 36405 (PG Governors, Special Tools) 36607 (PG Governors, Two-Slope Load Control) 36695 (PG Manifold Air Pressure Bias Fuel Limiter) 36661 (PG Manifold Gauge Pressure Fuel Limiter) 36697 (PG Manual Reset Device for De-Energized-to-Shutdown) 36605 (PG Overspeed Trip Test Device) 36692 (PG Power Cylinder Assemblies) 36680 (PG Preloaded Buffer Springs) 36651 (PG Pressure Actuated Shutdown Assembly) 36053 (PG Rail Enhancement Kit 8956-501) 36685 (PG Shutdown Solenoid Dial & Lever) 36660 (PG Speed Setting Fuel Limiter) 36662 (PG Torque Limit Control with Speed Droop)
PG-12R/PG-12L Actuator		37517
PG-200/300 Governor	36619	36618 (Case, Accumulator, & Power Cylinder) 36054 (Dual Buffer System)
PG-500 Governor	36634	36633 (Case, Accumulator, & Power Cylinder) 36054 (Dual Buffer System)
PGA Governor	36701	36604 54054 (Installation) 36606 (8554-255 supplement to 36604) 36643 (Lever Speed Setting) 36679 (Pneumatic Load Balance System) 36686 (Pneumatic Load Balance System) 36702 (Weatherproofing Kit) 36650 (Solenoid Operated Shutdown Assembly) 36636 (PGA-58 & 200/300 Vibration Resistant Governor) 36629 (PGA-TL Governor 8558-657)
PGA-EG Governor/Actuator	36638	54069 (PGA-EG, PGG-EG, PGM-EG 12/29/58 Installation) 54065 (PGA-EG, PGG-EG, PGM-EG, 200/300/500 Installation)
PG-EG Actuator	03381	36637
PGG Governor	36626	36627
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PG-PL Governor	36700	36694 54052 (Installation) 36702 (Weatherproofing Kit) 36650 (Solenoid Operated Shutdown Assembly)

	Product Spec	Technical Manual	Application Note
R-Series Electric Actuator w/ Integral Driver (R-11 & R-30) Other PG Governors/Actuators	03413	36603 (PG-35 & PG-50 Governors) 36653 (PGD/PGL Governors, Pressure Actuated Shutdown) 54053 (PGE & PGEV Locomotive Governor Installation) 36703 (PGE & PGEV Locomotive Governors) 36628 (PGEV Governor 8573-463/494, 8570-687, 8559-910) 82328 (PGTM-200 Actuator) 36696 (PG-TR Electronic Speed Setting 8272-639)	
ProAct I/II Actuator	04122	04121 (ProAct I/II) 26802 (Installation Sheet) 04176 (ProAct II Actuator and Driver) 26803 (Installation Sheet) 36060 (ProAct II Technical Supplement)	51317 (Start-up Fuel Limiting add. to 04121) 51499 (Gen 1 Position Sensor Update)
ProAct III/IV Actuator	04126	04127 26804 (Installation Sheet)	
ProAct V Actuator		04193	
ProAct Analog and Digital Plus	03231	26112 (ProAct Digital Plus) 26801 (ProAct Digital Plus Installation Sheet) 26147 (ProAct Analog Actuator with Integral Driver) 26800 (ProAct Analog Installation Sheet)	
ProAct ISC (Integrated Speed Control)	03326	26246	51325 (5418-2949 Firmware Release)
ProAct ITB Integrated Actuator and Throttle Body for Large Bores	03305	26112 (ProAct Digital Plus) 26801 (ProAct Digital Plus Installation Sheet) 26147 (ProAct Analog Actuator with Integral Driver) 26800 (ProAct Analog Installation Sheet) 26168 (ProAct ITB (Digital Plus) 105/120/135) 26805 (Installation Sheet) 04166 (ProAct ITB Integrated Throttle Body and Actuator for large bores)	
ProAct P-Series Position Controller	03416	26578	
ProAct P-Series FL	03401	26659	
Other ProAct		26265 (ProAct Actuator with Integrated Speed Control and Throttle Body) 04177 (ProAct mA Digital Speed Control) 36091 (Tandem ProAct Technical Supplement)	
PSG Governor	37010	54055 (Installation) 37013 (Aluminum Case) 37017 (Cast Iron Case) 26780 (Installation Sheet) 03026 (Synchronizing Motor)	50516 (Governor Linkage)
PSG Governor, PM Speed Adjusting Motor	37014	04018 (SG/PSG Spd Adj. Motor Cover assy)	
SG Governor		54035 (Installation) 04048 (SG Governor) 26794 (SG Governor Installation Sheet) 04026 (Overspeed Trip) 04018 (SG/PSG Spd Adj. Motor Cover assy) 03026 (Synchronizing Motor) 03505 (Synchronizing Motor, Parts Catalog & Lube Guide)	
SGT Torque Converter Governor		04040	

	Product Spec	Technical Manual	Application Note
TM-55P Actuator	82599	82400	
UG-5.7/8/10 Governor	03029	03040 (Dial Governor) 03036 (Lever Governor) 54042 (Installation)	
UG-5.7/8/10 Lever Governor, Pneumatic Speed Adjust Other UG-8	03037	03016 (UG-8 Gov, Low Lube Oil Pressure Shutdown) 03504 (UG-8 Governors, Special Tools) 03045 (UG-8 Speed Adjusting Devices) 03035 (UG-8, PM Speed Adjusting Motor) 82454 (UG-8/UG-40 Dial Governors, Stepping Motor Driver Control) 03506 (UG-8L Governors, Pneumatic Speed Setting Device) 03507 (UG-8L Governors, Manifold Pressure Fuel Limiter) 03025 (UG-8PL Gov w/ Direct or Reverse Pneumatic Speed Setting)	
UG-15 Dial Governor		26119	
UG-25+ Actuator	03386	26580	
UG-25+ Governor	03339	26579 (P3 version) 26330 (P0/P1 version)	06905 (Rev. B Firmware Chg Notification) 06903 (Rev. A Firmware Chg Notification) 06901 (Firmware Change Notification) 51315 (Max Spd Update Instruction) 51349 (Oil Level Gage Kit) 51392 (Service Tool Firmware Release)
UG-40 Governor	03030	03039 03019 (UG-40 Govs, Aux Devices used in Marine Serv) 82454 (UG-8/UG-40 Dial Governors, Stepping Motor Driver Control)	
UG-40 DI Governor	36209	03575	
UG MAS Governor (milliamp speed setting)	03048	36063 (UG-8) 26598 (UG-10) 03047 (UG-8/UG-40)	
UG-10 MAS Governor P7 (UG-10D with milliamp speed setting) Other UG Governor	03389	26599 03043 (UG Governor, Limit Switches) 03013 (UG Governor, Shutdown Solenoid) 03046 (UG Governor, Vibration Resistant Motor Cover) 03027 (UG Govs, Sync/Stepping Speed Adj. Motors) 03026 (UG/PSG/SG Govs, Synchronizing Motor)	
UG-Actuator	37511	37512	
UG40 Actuator	37516	37515	

Hydraulic Amplifiers

	Product Spec	Technical Manual	Application Note
Hydraulic Amplifier	89007	89015 (Electrical Input Control/EG-3P) 89009 (Mechanical Input Control) 89008 (Mechanical Input Control) 89013 (Pressure Input) 89012 (85mm, Mechanically Controlled) 89005 (Servo Controlled)	

L-Series/LCS Controls	Product Spec	Technical Manual	Application Note
L-Series Position Controller	03328	26237 (Position Control) 26289 (Position Control/CAN; software 5418-2225 & 5418-2560) 26635 (Position Control/CAN; software 5418-6084, 5418-6638)	
L-Series Speed Control	03225	26250	51285 (Replacing the ST-125) 51272 (Replacing the TQ-125)

MicroNet/5009 Controls	Product Spec	Technical Manual	Application Note
MicroNet Plus Control System	03333	26166V1/V2	
MicroNet TMR Control System	03363	26167V1/V2	
Vertex-Pro Motor-Driven Compressor Control	03364	26489	
SIL Safety Manual		26728	
Other MicroNet Information			51426 (Module-Validation Program) 51459 (Cyber Security)

MotoHawk Control Solutions	Product Spec	Technical Manual	Application Note
ASM-Gage-001 CAN-Based Display Unit		36327	
ECM-0555-048 Engine Control Modules		36301	
ECM-0555-048-0701-C / -F Engine Control Modules		36317	
ECM-0555-048-0704-C / -F Engine Control Modules		36318	
ECM-0555-048-0705-C / -F Engine Control Modules		36319	
ECM-0565-128-0701-C Engine Control Module		36320	
ECM-0565-128-0701-F Engine Control Module		36321	
ECM-0565-128-1001-C/F Engine Control Module		36368	
ECM-0S12-024-0502-C/F Engine Control Modules		36322	
ECM-0S12-024-0802-C/F Engine Control Module Datasheet		36360	
ECM-0S12-024-0804-C/F Engine Control Module Datasheet		36361	
ECM-0554-112-0904-C/F Engine Control Modules		36350	
ECM-0565-128-0702-C Engine Control Module		36355	
ECM-0565-128-0704-C Engine Control Module		36371	
ECM-S12X-070 Family Engine Control Modules	36348	36347	
GCM-0563-048 Family of General Control Modules—Calibratable / Flash		36303	
GCM-0565-024-0602-F General Control Module		36323	
GCM-0S12-024-0401-F General Control Module		36324	
GCM-0S12-024-0402-F General Control Module		36325	
GCM-0S12-024-0403-F General Control Module		36326	
GCM-5554-112-1001C/F General Control Module		36370	
HCM-0563-048-0801-C / -F Hydraulic Control Modules		36330	
HCM-0563-048-0802-C / -F Hydraulic Control Modules		36331	
HCM-0563-048-0803-C / -F Hydraulic Control Modules		36332	
Desktop I/O Simulator 8909-1043		36369	
MotoHawk Resource Guide		36333	
MotoTune Reference Guide			51449
MotoService Software Installation Guide		26754	

Valves/Fuel Systems	Product Spec	Technical Manual	Application Note
Glo-Tech Bypass Valve		26204 26146 (Glo-Tech to ProAct Adapter Kit)	
Glo-Tech Bypass Valve w/ R-Series Actuator	03418		
Side Feed Gaseous (SFG) Injector	03388		
Swift Gas Metering System	03252	26363	
Swift ES Gas Metering System		26496 26350 (Swift Safety Shutoff Valves)	

Miscellaneous Diesel Engine Products	Product Spec	Technical Manual	Application Note
Digital Speed Switch DSS-2 Two-Channel	36597	36598 (user manual) 36599 (installation guide)	
Magnetic Pickups (MPUs, general)	02010	82510 (MPUs & proximity switches)	
Magnetic Pickups (MPUs, former Synchro-Start products)	36533	82301 (MPU High Signal Selector)	
Magnetic Speed Sensors	36563		
MOPs (Motor Operated Potentiometers)	82436		
Pull Coil Timer Module		36715 (3-wire) 36714 (6-wire)	
RTCnet / LINKnet HT Nodes	03402	26640	

Gas Engine Controls

723 Product Line	Product Spec	Technical Manual	Application Note
723 Digital Controls		02758 (Digital Control Hardware) 02827 (Digital Marine Control) 37807 (Generator Control) 26097 (Position Control) 02785 (Analog Load Share) 02784 (DSL/Compatible-old) 02765 (Gas Engine I/O Node) 02755 (723/QuadraLink)	02817 (Network Binding Procedure)
LINKnet Distributed I/O Network	85572	02826 (LINKnet Option for use with 723 Digital Controls)	

723PLUS/828 Product Line	Product Spec	Technical Manual	Application Note
723PLUS Digital Control, Standard Applications	03203	02882 (723PLUS 8280-410/411)	26031 (Network Binding Procedure/DOS)
723PLUS Digital Control, Custom Control	02876	02877 (723PLUS Digital Control Hardware)	51203 (Network Binding Proc./Windows)
723PLUS Performance Control for Compressor-Drive Engines	03214	02880 (723PLUS for Marine PGA Replacement 8280-419) 26549 (723PLUS for Marine PGA Replacement 8280-1129) 26788 (723PLUS Installation Sheet) 37827 (Generator Control) 26425 (723PLUS Nile River Vessel Generator Control 8301-1146) 26264 (723PLUS, Single Engine Marine Applications, DSL/Compatible Input 8280-1042) 02884 (723PLUS Performance Control 8280-424) 26043 (723PLUS Performance Control 8280-598) 26227 (723PLUS Digital Marine Control, Two Engine Mechanical Load Sharing) 26808 (723PLUS Digital Marine Control, Two Engine Mechanical Load Sharing 8280-1173) 02883 (723PLUS w/ Process Control 8280-464/465) 26141 (723PLUS/AI/LS) 02879 (723PLUS/Analog Load Sharing) 26373 (723PLUS/Cat ADEM 8280-1076) 02878 (723PLUS/DSL/Compatible) 02831 (723PLUS/DSL/MSL/ Gateway) 26471 (723PLUS/DSL/MSL/ Gateway/Brazil) 02881 (723PLUS/Mechanical Load Sharing) 26310 (723PLUS/Redundant Load Sharing 8280-1056) 91623 (723PLUS Std Generator Control LON Load Sharing)	
828 Digital Control	02874	02875 (828 Digital Control Hardware)	

2300 Product Line	Product Spec	Technical Manual	Application Note
2300 Digital Load Sharing & Speed Control (hardware)	03318	26232	
2300G Gas Engine Control		91372	

2301A Product Line	Product Spec	Technical Manual	Application Note
2301A Speed Control	82021	82020 26796 (Installation Sheet)	
2301A with 4–20 mA Input	02301	02302	
2301A Load Sharing & Speed Control (9905 Series)	82390	82389 (9905/9907 Series) 26795 (installation Sheet) 26006 (9907 Series)	50533 (Wiring the 9905 Series)
2301A Load Sharing & Speed Control with Dual Dynamics	82047	82046	
2301A Load Sharing & Speed Control with Temp or Process Limiting	82387	82386 02303 (9900-430—433) 02008 (Reverse Acting Fuel Limiter 8272-789) 82348 (2301 & 2301A Controls, Preregulator)	51191 (Replacing Caterpillar 2301 Controls) 51005 (Retrofitting UG-8-Controlled Eng.) 51090 (Adapting for Torque Conv. Use) 51242 (2301A to 2301D Wiring Differences)

2301D/2301E Product Line	Product Spec	Technical Manual	Application Note
2301D Digital Control		26065	
2301D-EC Digital Control		26247 (2301D/2301D-EC 8273-138/-139/-140/-141) 26288 (2301D/2301D-EC 8273-501/-503/-505/-507) 26797 (Installation Sheet)	51263 (2301D/2301D-EC PN Differences)
2301D-JM/JH		26138	
2301E Digital Load Sharing & Speed Control	03404	26641	
2300E Digital Load Sharing & Speed Control Hardware	03405	26691	

AGLC Automatic Generator Loading Control	Product Spec	Technical Manual	Application Note
AGLC Automatic Generator Loading Control	82399	82394 (9905-063) 82004 (9905-096)	

APECS Product Line	Product Spec	Technical Manual	Application Note
General		36718 (APECS Actuator Kit for Cummins C) 36588 (APECS Actuator Kit for Daihatsu) 36587 (APECS Actuator Kit for Kubota) 36530 (APECS DC10502 Lin. Act. for Cummins) 36550 (APECS Controllers for DYNA 2000 and 2500 Linear Actuators) 36561 (APECS 0250 Kit for Isuzu 4BG1-TRV) 36562 (APECS 0250 Kit for Isuzu 4JG1-TPV) 36721 (APECS 1000 & 2000 Installation & Calibration) 36734 (APECS 2000) SE-4049 (APECS 3000) 36716 (APECS 3000 Installation) SE-4050 (APECS 4000) 36752 (APECS 4500) 36750 (APECS 4800)	36579 (Controllers for Stanadyne Pumps) 36586 (APECS Diagnostic Guide) 36728 (Repl. of Power Flow Throttles) 51319 (Centralized Suppression for DPG) 51343 (APECS 4500 Firmware Release) 51439 (APECS 4500 Upgrade for Sm. Eng.)

Product Spec	Technical Manual	Application Note
	SE-4096 (APECS 5000)	
	36532 (APECS 70025 Actuator for Stanadyne)	
	36528 (APECS DYN3-60030 Electronic Speed Switch)	
	36538 (APECS DYN1-1075X Ctrlrs for DYNA 2000 and 2500 Linear Actuators)	
	SE-4051 (APECS EPS 1000 Equipment Protection System)	
	36555 (APECS ESSE-1 Electronic Speed Switch)	
	36564 (APECS ESSE-2 Electronic Speed Switch)	
	36545 (APECS MCFA Laptop Diagnostic Monitor)	
	36529 (APECS Plus 1, Plus 2, Plus 4, Plus 6 Digital Governor Systems)	
	36569 (DYNA 8000 Series)	
	36524 (ESSE Series)	
	36736 (1000S Series Locking Solenoids)	
	36737 (1500 Series Solenoids)	
	36738 (1510S Series Solenoids)	
	36739 (1750 Push Series Solenoids)	
	36740 (1750 Series Solenoids)	
	36741 (2000 Series Solenoids)	
	36742 (2370 Series Solenoids)	
	36743 (Cable Solenoid)	
	36744 (EPS 1000)	
	36745 (Shutdown Solenoid Kit)	
	36585 (Solenoid Control Electronics)	
	36589 (Solenoid Selection Guide)	
	36590 (Solenoid Shutdown Kits)	
	36735 (Actuator-Controller Compatibility)	
	36748 (Mini-Gen Signal Generators)	
	36509 (APECS/EPS CD-ROM Installation Guide)	
0154 Linear Actuator Integral to Fuel Pump	37743	
0175 Linear Actuator Integral to Fuel Pump	37744	
0175 Linear Actuator with External Linkage	03399	
0200 Integral Actuators	36582	
0225 Linear Actuators	36581	
0225 Linear Actuator w/ Boot & Clevis Plunger	36730	
0275 Linear Actuators	36578	
500 Single Speed Electronic Engine Controller	36710	36725 (Quick Installation Guide) 36513 (User Manual)
2000 Linear Actuators	36540	
2500 Linear Actuators	03324	36531
4500CAN Controller	36549	
7000 Rotary Actuator	36501	
Cummins Energize-To-Stop (ETS) Solenoids		36733
DPG-21XX-00X Digital Controllers	36502	36526 (APECS DPG-21XX-00X) 36543 (APECS DPG-2104) 36536 (APECS DPG-2111-001) 36537 (APECS DPG-2133-00X)
DPG-2201-00X Digital Controllers	36503	36523
DPG-2223-00X Digital Controllers	36554	36522

	Product Spec	Technical Manual	Application Note
DPG-23XX-00X Digital Controllers	36504	36527	
DPG-2401-00X Digital Controllers for EFC Valves	36512	36525	
DPG Series Controllers, DPG Calibration Kit	36560		
GBA Rotary Actuator (Golf Ball Actuator)	36510		

Atlas Product Line	Product Spec	Technical Manual	Application Note
Atlas-II Turbine and Engine Control Platform	03346		
AtlasSC Engine and Turbine Control System	03253	26179 (AtlasSC) 26229 (AtlasSC Overspeed Protection System)	

Digital Reference Units	Product Spec	Technical Manual	Application Note
Digital Reference Unit	03218	82343 (8271-221) 82442 (8271-651) 82006 (8272-682-685)	

EGCP Product Line	Product Spec	Technical Manual	Application Note
EGCP-2 Engine Generator Control Package	03219	26175 (EGCP-2 Application 8406-120/121) 26181 (EGCP-2 Communications 8406-120/121) 26174 (EGCP-2 8406-120/121) 26086 (EGCP-2 Operation 8406-115/116) 26099 (EGCP-2 HMI & Servlink 8406-115/116)	51199 (EGCP-2 Differences) 51201 (Setpoint Worksheet) 51244 (SW Upgr. Instr. to 8406-120E/-121F) 51270 (SW Up In to 8406-120G/121H/123C) 51209 (SW Upgr. Kit Instr. Rev A to B) 51211 (SW Upgr. Kit Instr. Rev A/B to C)
EGCP-3 LS Multi-unit Load Share Version		26122 (EGCP-3 Installation) 26194 (EGCP-3 LS Operation)	51281 (8406-113 Rev K SW Changes) 51294 (8406-113 Rev L SW Changes) 51313 (8406-113 Rev N SW Changes) 51361 (8406-113 Rev R SW Changes) 51247 (Single Phase Zig Zag Application)
Misc. EGCP-3			51215 (Operation with Auto. Transfer Switch) 51207 (Sequencing) 51224 (Complex Power Systems Solutions) 51210 (Beta Site, São Paulo, Brazil) 51213 (EGCP-3 & SPM-D on the Sea Jewel)

Electronic Fuel Injection Products	Product Spec	Technical Manual	Application Note
ECM3 Electronic Fuel Injection Control		26348	51338 (Casting Color)
In-Pulse II Fuel Injection Control	03315		
In-Pulse Electronic Fuel Injection Control		02983 (In-Pulse) 26053 (In-Pulse PLUS)	
Universal Multipoint Driver	03387		

GECO Product Line	Product Spec	Technical Manual	Application Note
GECO Lean-burn Gas Engine Control	03251	03616	
GECO Stoichiometric Gas Engine Control	03553	03554	
GECO Vista Stoichiometric Gas Engine Control	03349	03554	

Governors/Actuators	Product Spec	Technical Manual	Application Note
3161 Governor	03102	03101 (3161 Governor) 03110 (Solid Piston Air Pressure Fuel Limiter) 03107 (Speed Adj Motor w/ Manual Speed Adjust) 03108 (Air Pressure Fuel Limiter) 03105 (Electric Shutdown Device) 03109 (Load Limit Control) 03103 (Manual Shutdown Device) 03106 (Pneumatic Speed Setting Device) 03104 (Pressure Shutdown Device) 03112 (Solenoid Start Fuel Limiter) 03111 (Torque Rise) 03113 (EGB Supplement to 3161 Governor) 54110 (3161/EGB Governor/Actuator Installation)	
EG-3P/6P/10P Actuator	82516	37710 (EG-3C & EGR) 82560 (EG-3P) 26798 (EG-3P Installation Sheet) 82566 (EG-6P/10P) 26799 (EG-6P/10P Installation Sheet) 54005 (EG-3P on DDAD V-149 Engine 8956-142) 54008 (EG-3P on Detroit Diesel I-71 Engine 8956-166) 54003 (EG-3P on DDAD V-71 & V-92 Engines 8956-143) 37714 (EG Power Transfer Control)	
EGB-1P/2P Governor/Actuator	82575	82570 54007 (EGB-2P on DDAD V-71 & V-92 Engines 8956-163) 54009 (EGB-2P on DDAD I-71 Engine 8956-162) 54006 (EGB-2P on DDAD V-149 Engine 8956-165)	
EGB-10P/13P/35P Governor/Actuator	82543	82340 (EGB-10P/13P/29P/35P/50P/58P)	
EGB-29P/58P Governor/Actuator	82483	82340 (EGB-10P/13P/29P/35P/50P/58P)	
EGB-200P/300P Governor/Actuator	82473	82462	
EGB Governor Mode Switch Assembly	82489		
Other EGBs		37709 (EGB-2C) 37729 (EGB-10, Two-Solenoid Spd Setting Mechanism) 37741 (EGB-10 Pneumatic Speed Setting, New Style) 37708 (EGB-10C) 54066 (EGB-10C/13C/35C/50C Instal) 82558 (EGB-10PLS Hydraulic Actuator) 37740 (EGB-500P)	
EPG Electrically Powered Governors	04106	82327 (512/24 & 1712/24, Single Phase Droop) 82329 (512/524 & 1712/1724 installation) 82493 (512/524 & 1712/1724 Isochronous) 82448 (501/1701) 26786 (EPG Installation Sheet) 82042 (4024) 82354 (EPG with Position Feedback) 82038 (Min/Max Control System)	50530 (Installation & Control Choices for) 50528 (Linking to a Mech Droop Gov)
EM-70/EM-140 Rotary Output Electric Actuators	40180	40178 (EM-140)	

	Product Spec	Technical Manual	Application Note
EM-80 and EM-300 Actuators	36199	36173	
EM-80/EM-300 MDS 5150A/LIT Actuator System	03420	26761	
Other EM Actuators		04110 (EM-6 Actuator) 82000 (EM-10P/20P Actuators. all elec w/ electronic driver) 40152 (EM-35 Analog Driver) 40161 (EM-35 Digital Driver with Dual Feedback)	
EML-100 Actuator	40186	40183 (EML-100 Actuator) 26159 (EM/LQ Digital Driver)	
F-Series Actuator & Integrated Throttle Body	03344/03345	26355 (14-pin version) 26600 (23-pin version)	51305 (Conv. from Flo-Tech to F-Series) 51367 (F-Series Firmware Release) 51465 (F-Series Cleaning Procedure)
F-Series ITB, High Temperature Standby Applications	03383		
Flo-Tech ITB (Integrated Actuator/Throttle Body)	04140	04141 (Installation/Operation) 26779 (Installation Sheet) 04173 (Speed Control) 04168 (Digital Min/Max Flo-Tech 8400-511 for Cummins Jade/Bravo Engines) 26467 (120 mm Throttle Valves Disassembly and Reassembly Repair Procedure) 26459 (135 mm Throttle Valves Disassembly and Reassembly Repair Procedure)	
PG Governors/General	36010	36652 (PG Automatic Safety Shutdowns & Alarms) 36646 (PG Auxiliary Compatible Torque Limiter) 36693 (PG Base Assemblies) 26793 (PG Base Assemblies Installation Sheet) 54056 (PG Dial & Lever Governor Installation) 26790 (PG Dial & Lever Installation Sheet) 36623 (PG Dial Governor, Back Pressure Controller) 36622 (PG Dial Governor, Speed Droop Linkage Mechanism) 36404 (PG Governing Troubles, Analysis & Correction of) 36601 (PG Governor, Absolute Manifold Pres Bias Load Cntr & Fuel Limit) 36600 (PG Governor Basic Elements) 26792 (PG Governor Basic Elements Installation Sheet) 36614 (PG Governor Dial Type Speed Setting) 26789 (PG Dial Installation Sheet) 36615 (PG Governor Lever Type Speed Setting) 36014 (PG Governor Speed Adjusting Motor) 36621 (PG Governor Speed Droop Linkage) 36670 (PG Governor w/ Proportional Pneumatic Output Signal) 36644 (PG Governor, Motor Speed Setting) 36036 (PG Governor, Starting Fuel Limiter) 36608 (PG Governor, Transducer Type Load Control/LVDT) 36602 (PG Governor w/ Differential Servomotor, Basic Elements) 36631 (PG Governor w/ Trque Adv at Idle, Man Press Bias Ld Cntrl & Fuel Lim) 36630 (PG Governors, Basic Load Control System) 36642 (PG Governors, Dynamic Brake Control) 36691 (PG Governors, Electronic Speed Setting/PG-TR) 36640 (PG Governors, Extensible Tailrod) 36405 (PG Governors, Special Tools) 36607 (PG Governors, Two-Slope Load Control)	

	Product Spec	Technical Manual	Application Note
			36637 (PG–Integral EG Actuator for PG Governors) 36695 (PG Manifold Air Pressure Bias Fuel Limiter) 36661 (PG Manifold Gauge Pressure Fuel Limiter) 36697 (PG Manual Reset Device for De-Energized-to-Shutdown) 36605 (PG Overspeed Trip Test Device) 36692 (PG Power Cylinder Assemblies) 36680 (PG Preloaded Buffer Springs) 36651 (PG Pressure Actuated Shutdown Assembly) 36053 (PG Rail Enhancement Kit 8956-501) 36685 (PG Shutdown Solenoid Dial & Lever) 36660 (PG Speed Setting Fuel Limiter) 36662 (PG Torque Limit Control with Speed Droop)
PG-200/300 Governor	36619	36618 (Case, Accumulator, & Power Cylinder) 36054 (Dual Buffer System)	
PG-500 Governor	36634	36633 (Case, Accumulator, & Power Cylinder) 36054 (Dual Buffer System)	
PGA Governor	36701	36604 54054 (Installation) 36606 (8554-255 supplement to 36604) 36643 (Lever Speed Setting) 36679 (Pneumatic Load Balance System) 36686 (Pneumatic Load Balance System) 36702 (Weatherproofing Kit) 36650 (Solenoid Operated Shutdown Assembly) 36636 (PGA-58 & 200/300 Vibration Resistant Governor) 36629 (PGA-TL Governor 8558-657)	
PGA-EG Governor/Actuator	36638	54069 (PGA-EG, PGG-EG, PGM-EG 12/29/58 Installation) 54065 (PGA-EG, PGG-EG, PGM-EG, 200/300/500 Installation)	
PGG Governor	36626	36627	
PGG-EG Governor/Actuator	36635	54069 (PGA-EG, PGG-EG, PGM-EG 12/29/58 Installation) 54065 (PGA-EG, PGG-EG, PGM-EG, 200/300/500 Installation)	
PGPL Actuator/Driver	37520	37519	
PG-PL Governor	36700	36694 54052 (Installation) 36702 (Weatherproofing Kit) 36650 (Solenoid Operated Shutdown Assembly)	
R-Series Electric Actuator w/ Integral Driver (R-11 & R-30)	03413		
Other PG Governors/Actuators			36603 (PG-35 & PG-50 Governors) 36653 (PGD/PGL Governors, Pressure Actuated Shutdown) 54053 (PGE & PGEV Locomotive Governor Installation) 36703 (PGE & PGEV Locomotive Governors) 36628 (PGEV Governor 8573-463/494, 8570-687, 8559-910) 82328 (PGTM-200 Actuator) 36696 (PG-TR Electronic Speed Setting 8272-639)

	Product Spec	Technical Manual	Application Note
ProAct I/II Actuator	04122	04121 (ProAct I/II) 26802 (Installation Sheet) 04176 (ProAct II Actuator and Driver) 26803 (Installation Sheet) 36060 (ProAct II Technical Supplement)	51317 (Start-up Fuel Limiting add. to 04121) 51499 (Gen 1 Position Sensor Update)
ProAct III/IV Actuator	04126	04127 26804 (Installation Sheet)	
ProAct V Actuator		04193	
ProAct Analog and Digital Plus	03231	26112 (ProAct Digital Plus) 26801 (ProAct Digital Plus Installation Sheet) 26147 (ProAct Analog Actuator with Integral Driver) 26800 (ProAct Analog Installation Sheet)	
ProAct ISC (Integrated Speed Control)	03326	26246	51325 (5418-2949 Firmware Release)
ProAct P-Series Position Controller	03416	26578	
ProAct P-Series FL	03401	26659	
PSG Governor	37010	54055 (Installation) 37013 (Aluminum Case) 37017 (Cast Iron Case) 26780 (Installation Sheet) 03026 (Synchronizing Motor)	50516 (Governor Linkage)
PSG Governor, PM Speed Adjusting Motor	37014	04018 (SG/PSG Spd Adj. Motor Cover assy)	
SG Governor		54035 (Installation) 04048 (SG Governor) 26794 (SG Governor Installation Sheet) 04026 (Overspeed Trip) 04018 (SG/PSG Spd Adj. Motor Cover assy) 03026 (Synchronizing Motor) 03505 (Synchronizing Motor, Parts Catalog & Lube Guide)	
SGT Torque Converter Governor		04040	
TM-55P Actuator	82599	82400	
UG-5.7/8/10 Governor	03029	03040 (Dial Governor) 03036 (Lever Governor) 54042 (Installation)	
UG-5.7/8/10 Lever Governor, Pneumatic Speed Adjust	03037		
Other UG-8		03016 (UG-8 Gov, Low Lube Oil Pressure Shutdown) 03504 (UG-8 Governors, Special Tools) 03045 (UG-8 Speed Adjusting Devices) 03035 (UG-8, PM Speed Adjusting Motor) 82454 (UG-8/UG-40 Dial Governors, Stepping Motor Driver Control) 03506 (UG-8L Governors, Pneumatic Speed Setting Device) 03507 (UG-8L Governors, Manifold Pressure Fuel Limiter) 03025 (UG-8PL Gov w/ Direct or Reverse Pneumatic Speed Setting)	
UG-15 Dial Governor		26119	
UG-25+ Actuator	03386	26580	

	Product Spec	Technical Manual	Application Note
UG-25+ Governor	03339	26579 (P3 version) 26330 (P0/P1 version)	06905 (Rev. B Firmware Chg Notification) 06903 (Rev. A Firmware Chg Notification) 06901 (Firmware Change Notification) 51315 (Max Spd Update Instruction) 51349 (Oil Level Gage Kit) 51392 (Service Tool Firmware Release)
UG-40 Governor	03030	03039 03019 (UG-40 Govs, Aux Devices used in Marine Serv) 82454 (UG-8/UG-40 Dial Governors, Stepping Motor Driver Control)	
UG-40 DI Governor	36209	03575	
UG MAS Governor (milliamp speed setting)	03048	36063 (UG-8) 26598 (UG-10) 03047 (UG-8/UG-40)	
UG-10 MAS Governor P7 (UG-10D with milliamp speed setting)	03389	26599	
Other UG Governor		03043 (UG Governor, Limit Switches) 03013 (UG Governor, Shutdown Solenoid) 03046 (UG Governor, Vibration Resistant Motor Cover) 03027 (UG Govs, Sync/Stepping Speed Adj. Motors) 03026 (UG/PSG/SG Govs, Synchronizing Motor)	
UG-Actuator	37511	37512	
UG40 Actuator	37516	37515	

Hydraulic Amplifiers

	Product Spec	Technical Manual	Application Note
Hydraulic Amplifier	89007	89015 (Electrical Input Control/EG-3P) 89009 (Mechanical Input Control) 89008 (Mechanical Input Control) 89013 (Pressure Input) 89012 (85mm, Mechanically Controlled) 89005 (Servo Controlled)	

Ignition Controls

	Product Spec	Technical Manual	Application Note
IC-100 CD Ignition System	03229	26205	
IC-900/IC-910 Ignition Controller		26125 (IC-900/IC-910 Ignition Controller) 26222 (IC/TIS-910 Ignition Controller 8408-102/702) 26142 (IC-912 Ignition Controller)	
IC-920/IC-922 Ignition Controllers with Servlink	03331	26263	
TIS-910 Ignition Controller		26222 (IC/TIS-910 Ignition Controller 8408-102/702) 26139 (TIS-910 Ignition Controller 8408-701)	

L-Series/LCS Controls

	Product Spec	Technical Manual	Application Note
L-Series Air/Fuel Ratio Control	03255	26251	36719 (Config. Instr. for Bi-Fuel Apps) 06902 (Firmware Release SW Changes)
L-Series Position Controller	03328	26237 (Position Control) 26289 (Position Control/CAN; software 5418-2225 & 5418-2560) 26635 (Position Control/CAN; software 5418-6084, 5418-6638)	

	Product Spec	Technical Manual	Application Note
L-Series Speed Control	03225	26250	51285 (Replacing the ST-125) 51272 (Replacing the TQ-125)
Other L-Series Controls		26272 (Communication Kit Installation Sheet) 26283 (In-line Power Module)	
LC-50 Integrated gas mixer/throttle body/programmable speed control	03222	26249	
Other LCS Controls/Actuators		26098 (LCS—Adapt. of LCS Cont./Pump Cvr Assy to Stanadyne ‘D’ Series Pumps) 26187 (LCS—Retrofit of LCS Cont./Pump Cvr Assy to Stanadyne ‘D’ Series Pumps)	

MicroNet/5009 Controls

	Product Spec	Technical Manual	Application Note
MicroNet Plus Control System	03333	26166V1/V2	
MicroNet TMR Control System	03363	26167V1/V2	
Vertex-Pro Motor-Driven Compressor Control	03364	26489	
SIL Safety Manual		26728	
Other MicroNet Information			51426 (Module-Validation Program) 51459 (Cyber Security)

MotoHawk Control Solutions

	Product Spec	Technical Manual	Application Note
ASM-Gage-001 CAN-Based Display Unit		36327	
ECM-0555-048 Engine Control Modules		36301	
ECM-0555-048-0701-C / -F Engine Control Modules		36317	
ECM-0555-048-0704-C / -F Engine Control Modules		36318	
ECM-0555-048-0705-C / -F Engine Control Modules		36319	
ECM-0565-128-0701-C Engine Control Module		36320	
ECM-0565-128-0701-F Engine Control Module		36321	
ECM-0565-128-1001-C/F Engine Control Module		36368	
ECM-0512-024-0502-C/F Engine Control Modules		36322	
ECM-0512-024-0802-C/F Engine Control Module Datasheet		36360	
ECM-0512-024-0804-C/F Engine Control Module Datasheet		36361	
ECM-0554-112-0904-C/F Engine Control Modules		36350	
ECM-0565-128-0702-C Engine Control Module		36355	
ECM-0565-128-0704-C Engine Control Module		36371	
ECM-S12X-070 Family Engine Control Modules	36348	36347	
GCM-0563-048 Family of General Control Modules—Calibratable / Flash		36303	
GCM-0565-024-0602-F General Control Module		36323	
GCM-0512-024-0401-F General Control Module		36324	
GCM-0512-024-0402-F General Control Module		36325	
GCM-0512-024-0403-F General Control Module		36326	
GCM-5554-112-1001C/F General Control Module		36370	
HCM-0563-048-0801-C / -F Hydraulic Control Modules		36330	
HCM-0563-048-0802-C / -F Hydraulic Control Modules		36331	
HCM-0563-048-0803-C / -F Hydraulic Control Modules		36332	
SECM112 Small Engine Control Module	36364		
Desktop I/O Simulator 8909-1043		36369	
MotoHawk Resource Guide		36333	
MotoService Software Installation Guide		26754	

OH Vehicular Products	Product Spec	Technical Manual	Application Note
OH1 Control System	03224		
EDM-HD Electronic Distributor Module–Heavy Duty	03341		
EDM-HD 10 A Electronic Distributor Module–Heavy Duty	03398		
Overspeed Protection	Product Spec	Technical Manual	Application Note
ProTech-SX Safety System with Integrated Overspeed Protection	03372	26546	
Valves/Fuel Systems	Product Spec	Technical Manual	Application Note
Glo-Tech Bypass Valve		26204 26146 (Glo-Tech to ProAct Adapter Kit)	
Glo-Tech Bypass Valve w/ R-Series Actuator	03418		
SOGAV 2.2 Solenoid Operated Gas Admission Valves	04172	04153 (Installation and Operation) 04161 (Installation Sheet)	
SOGAV 36 Solenoid Operated Gas Admission Valve	03299	26209	
SOGAV 43/105 Solenoid Operated Gas Admission Valves	04151	04156 (SOGAV 43 Installation Sheet) 04157 (SOGAV 105 Installation Sheet) 26744 (SOGAV 105 Insert Installation Sheet) 26499 (SOGAV 105 Unbalanced/Bottom-Load Installation and Operation)	51385 (SOGAV 105 Cartridge Rem./Inst.)
SOGAV 200 Solenoid Operated Gas Admission Valve	03374	26497 (SOGAV 200 Installation and Operation) 26524 (SOGAV 200 Installation Sheet)	
SOGAV 250 Solenoid Operated Gas Admission Valve	03316	26114 (Unbalanced Version Installation and Operation) 26113 (Installation Sheet)	
SOGAV General			51243 (Reducing Emissions w/ SOGAV)
Swift Gas Metering System	03252	26363	
Swift ES Gas Metering System		26496 26350 (Swift Safety Shutoff Valves)	
TecJet 50		36102	
TecJet 50 Plus Precision Flow Intelligent Electronic Gas Metering Valve	03330	26219 26809 (Installation Sheet)	
TecJet 52 Intelligent Electronic Gas Metering Valve	03355	26399 (standard)	
TecJet 52 Gen II Intelligent Electronic Gas Metering Valve	03426	26833	
TecJet 85 Intelligent Electronic Gas Metering Valve	03400	26701	
TecJet 110 Intelligent Electronic Gas Metering Valve	03317	26185 26806 (Installation Sheet)	
Miscellaneous Gas Engine Products	Product Spec	Technical Manual	Application Note
Digital Speed Switch DSS-2 Two-Channel	36597	36598 (user manual) 36599 (installation guide)	

	Product Spec	Technical Manual	Application Note
E3 Lean Burn Full Authority Control	03336		
E3 Lean Burn Full Authority Fuel Blending Control	03410		51388 (E3 Fuel Blending Sys. w/ TecJet)
E3 Lean Burn Trim Control	03359		51330 (Lean Burn Trim Alarm Relay Output)
E3 Rich Burn Control	03396		51446 (E3 Rich Burn Control System)
E3 Trim Systems			51357 (E3 Lean Burn Trim Wiring)
			51335 (Trim Knock Ctrl Strategies)
			51470 (E3 Benefits in Various Applications)
			51479 (E3 Rich Burn Trim/Dual Bank Eng.)
		36139 (EGS-01 Digital Engine Gas Metering System)	51331 (Repl. EGS-01 w/ EGS Full Authority)
		26261 (EGS-01 Inst. Supp. to 36139 for Cat. G3500A)	51334 (EGS TE Learn Function)
E3 Stoichiometric Control System		26473	
Electronic Throttle Body for Gasoline, CNG, & LPG Fuel-Injected Engines			36746
Magnetic Pickups (MPUs, general)	02010	82510 (MPUs & proximity switches)	
Magnetic Pickups (MPUs, former Synchro-Start products)	36533	82301 (MPU High Signal Selector)	
Magnetic Speed Sensors	36563		
MI-04 Control System for Alternative-Fueled Off-Highway Vehicles	03313		
MI-07 Integrated Engine Control System	36544		
MOPs (Motor Operated Potentiometers)	82436		
N-CA225 Series Carburetors for LP and Natural Gas Fueled Engines	03379		
N-H420 Turbo Vaporizer/Regulator (5233-1005)			51397
N-H420-NG Vaporizer/Regulator (5233-1029)			51398
N-H420 Vaporizer/Regulator (5233-1043)			51399
Natural Gas Injection Temperature and Pressure (NGITP) Sensor 1680-1067	03403		
PG-04 Control System for Stationary Industrial Equipment	36534	36571	
PG-07 Power Generation & Stationary Control System	36535		
Repair Kits			51401 (N-2007)
			51264 (N-RK2001-RSA)
			51282 (5233-1005-RK N-H420)
			51307 (CA100, MI-07)
PG-08 Power Generation & Stationary Engine Control System	36576		
RTCnet / LINKnet HT Nodes	03402	26640	
Shutdown Solenoids (Kubota Engines)	36573		
Side Feed Gaseous (SFG) Injector	03388		
TG-13 Governor for Ajax Engines	04049	54103	

Steam Turbine Controls

General Steam Turbine Application Notes

- 51240 (Software Overview for Turbines)
- 83407 (Steam and Gas Turbine Retrofit)
- 51237 (Comprehensive Steam Turbine Control for Various Applications)
- 51238 (Standard Controls for Steam Turbines)
- 51236 (Simple Mechanical Drive Steam Turbine Applications)
- 51253 (Woodward Actuator and Valve Selector)

505 Product Line	Product Spec	Technical Manual	Application Note
505 Digital Governor for Steam Turbines	03422	85017 (505 Single/Split-Range) 85003 (505)	51245 (Features/Functions) 51351 (Steam Turbine Retrofit example)
	03348 (505 Enh.)	26347 (505 Enhanced) 85015 (OpView Operator Interface) 26839 (8200-1300/-1301/-1302)	51364 (Geothermal Application) 26045 (Configuration Upload/Download)
505CC-2 Integrated Turbine and Compressor Control	03298	26240 (8701-1114) 26451 (8701-1356) 26542 (8301-1258)	
505DE for Double Automatic Extraction/Admission Steam Turbines		26361	51336 (new product announcement)
505E Digital Governor for Extraction Steam Turbines	03365	85018 (505E)	51245 (Features/Functions)
		85015 (OpView Operator Interface)	26045 (505/505E Configuration)
505LST for Large Steam Turbines		26440 (9907-169/170/171)	
		26173 (9907-810/811/812)	

2300 Product Line	Product Spec	Technical Manual	Application Note
2300 Digital Load Sharing & Speed Control (hardware)	03318	26232	

2301A Product Line	Product Spec	Technical Manual	Application Note
2301A Speed Control	82021	82020	
		26796 (Installation Sheet)	
2301A with 4–20 mA Input	02301	02302	
2301A Load Sharing & Speed Control (9905 Series)	82390	82389 (9905/9907 Series)	50533 (Wiring the 9905 Series)
		26795 (installation Sheet)	
		26006 (9907 Series)	
2301A Load Sharing & Speed Control with Dual Dynamics	82047	82046	

	Product Spec	Technical Manual	Application Note
2301A Load Sharing & Speed Control with Temp or Process Limiting	82387	82386 02303 (9900-430—433) 02008 (Reverse Acting Fuel Limiter 8272-789) 82348 (2301 & 2301A Controls, Preregulator)	51191 (Replacing Caterpillar 2301 Controls) 51005 (Retrofitting UG-8-Controlled Eng.) 51090 (Adapting for Torque Conv. Use) 51242 (2301A to 2301D Wiring Differences)

2301D Product Line	Product Spec	Technical Manual	Application Note
2301D-ST Digital Control for Small Steam Turbines		26184	51235 (Simple Generator Drive Apps)

2301E Product Line	Product Spec	Technical Manual	Application Note
2301E-ST Digital Control for Small Steam Turbines	03407	26694	

MicroNet/5009 Controls	Product Spec	Technical Manual	Application Note
MicroNet Plus Control System	03333	26166V1/V2	
MicroNet TMR Control System	03363	26167V1/V2	51345 (China's Largest Refinery) 51363 (Xcel Energy Tolk Station) 51451 (Pusri 3 Application)
MicroNet Safety Module	03375	26547V1/V2 26711V1/V2 (w/ Voted Inputs)	06909 (product change)
Vertex-Pro Motor-Driven Compressor Control	03364	26489	
5009 Fault Tolerant Control	85578	26518V1/V2 85580 (5009) 26320 (5009C) 36122 (Citect HMI)	51425 (5009-to-5009FT Upgrade Kit)
5009FT Fault Tolerant Control	03373		51425 (5009-to-5009FT Upgrade Kit)
SIL Safety Manual		26728	
Other MicroNet Information		26023 (5009 PCI Software Getting Started) 26200 (MicroNet replacement for 511 DCS) 26395 (Turbine Control Panel for LM6000PD) 80009 (Service Panel Operator's Manual)	51314 (Analog Combo Speed Sensing) 51192 (Ethernet Module 5466-411) 51308 (Ladder Logic On/Off Status) 51297 (Svc Pack Install. for RTN Module) 51304 (Use of Woodward Notch Filter) 51426 (Module-Validation Program) 51459 (Cyber Security)

Atlas Product Line	Product Spec	Technical Manual	Application Note
Atlas-II Turbine and Engine Control Platform	03346	26415	
AtlasSC Engine and Turbine Control System	03253	26179 (AtlasSC) 26229 (AtlasSC Overspeed Protection System)	

Governors/Actuators	Product Spec	Technical Manual	Application Note
3161 Governor	03102	03101 (3161 Governor) 03110 (Solid Piston Air Pressure Fuel Limiter) 03107 (Speed Adj Motor w/ Manual Speed Adjust) 03108 (Air Pressure Fuel Limiter) 03105 (Electric Shutdown Device) 03109 (Load Limit Control) 03103 (Manual Shutdown Device) 03106 (Pneumatic Speed Setting Device) 03104 (Pressure Shutdown Device) 03112 (Solenoid Start Fuel Limiter) 03111 (Torque Rise) 03113 (EGB Supplement to 3161 Governor) 54110 (3161/EGB Governor/Actuator Installation)	
EG-3P/6P/10P Actuator	82516	37710 (EG-3C & EGR) 82560 (EG-3P) 26798 (EG-3P Installation Sheet) 82566 (EG-6P/10P) 26799 (EG-6P/10P Installation Sheet) 37714 (EG Power Transfer Control)	
EGB-10P/13P/35P Governor/Actuator	82543	82340 (EGB-10P/13P/29P/35P/50P/58P)	
EGB-29P/58P Governor/Actuator	82483	82340 (EGB-10P/13P/29P/35P/50P/58P)	
EGB-200P/300P Governor/Actuator	82473	82462	
EGB Governor Mode Switch Assembly	82489		
Other EGBs		37709 (EGB-2C) 37729 (EGB-10, Two-Solenoid Spd Setting Mechanism) 37741 (EGB-10 Pneumatic Speed Setting, New Style) 37708 (EGB-10C) 54066 (EGB-10C/13C/35C/50C Instal) 82558 (EGB-10PLS Hydraulic Actuator) 37740 (EGB-500P)	
EM-80 and EM-300 Actuators	36199	36173	
EM-80/EM-300 MDS 5150A/LIT Actuator System	03420	26761	
Other EM Actuators		04110 (EM-6 Actuator) 82000 (EM-10P/20P Actuators. all elec w/ electronic driver) 40152 (EM-35 Analog Driver) 40161 (EM-35 Digital Driver with Dual Feedback)	
EML-100 Actuator	40186	40183 (EML-100 Actuator) 26159 (EM/LQ Digital Driver)	
PG-200/300 Governor	36619	36618 (Case, Accumulator, & Power Cylinder) 36054 (Dual Buffer System)	
PG-500 Governor	36634	36633 (Case, Accumulator, & Power Cylinder) 36054 (Dual Buffer System)	

	Product Spec	Technical Manual	Application Note
PGA Governor	36701	36604 54054 (Installation) 36606 (8554-255 supplement to 36604) 36643 (Lever Speed Setting) 36679 (Pneumatic Load Balance System) 36686 (Pneumatic Load Balance System) 36702 (Weatherproofing Kit) 36650 (Solenoid Operated Shutdown Assembly) 36636 (PGA-58 & 200/300 Vibration Resistant Governor) 36629 (PGA-TL Governor 8558-657)	
PGPL Actuator/Driver	37520	37519	
PG-PL Governor	36700	36694 54052 (Installation) 36702 (Weatherproofing Kit) 36650 (Solenoid Operated Shutdown Assembly)	
Other PG Governors/Actuators		36603 (PG-35 & PG-50 Governors) 36653 (PGD/PGL Governors, Pressure Actuated Shutdown) 54053 (PGE & PGEV Locomotive Governor Installation) 36703 (PGE & PGEV Locomotive Governors) 36628 (PGEV Governor 8573-463/494, 8570-687, 8559-910) 82328 (PGTM-200 Actuator) 36696 (PG-TR Electronic Speed Setting 8272-639)	
PSG Governor	37010	54055 (Installation) 37013 (Aluminum Case) 37017 (Cast Iron Case) 26780 (Installation Sheet) 03026 (Synchronizing Motor)	50516 (Governor Linkage)
PSG Governor, PM Speed Adjusting Motor	37014	04018 (SG/PSG Spd Adj. Motor Cover assy)	
SG Governor		54035 (Installation) 04048 (SG Governor) 26794 (SG Governor Installation Sheet) 04026 (Overspeed Trip) 04018 (SG/PSG Spd Adj. Motor Cover assy) 03026 (Synchronizing Motor) 03505 (Synchronizing Motor, Parts Catalog & Lube Guide)	
SGT Torque Converter Governor		04040	
TG Governors	04038	04041 (TG-10) 04042 (TG-13 & TG-17) 04047 (TG-13, -17 Gov, Pneumatic Speed Setting Device)	
TG611-13/-17 Governors with Overspeed Test Device	03368	04042	51348 (conversion kit) 51354 (flyer)
TG-13E/17E Actuator	04044	04045 (TG-10E, -13E & -17E Actuators)	
TM-25LP & TM-200LP Actuators	82451	82450	50525 (Changing Output Direction)
TM-55P Actuator	82599	82400	
UG-5.7/8/10 Governor	03029	03040 (Dial Governor) 03036 (Lever Governor) 54042 (Installation)	

	Product Spec	Technical Manual	Application Note
UG-5.7/8/10 Lever Governor, Pneumatic Speed Adjust Other UG-8	03037	03016 (UG-8 Gov, Low Lube Oil Pressure Shutdown) 03504 (UG-8 Governors, Special Tools) 03045 (UG-8 Speed Adjusting Devices) 03035 (UG-8, PM Speed Adjusting Motor) 82454 (UG-8/UG-40 Dial Governors, Stepping Motor Driver Control) 03506 (UG-8L Governors, Pneumatic Speed Setting Device) 03507 (UG-8L Governors, Manifold Pressure Fuel Limiter) 03025 (UG-8PL Gov w/ Direct or Reverse Pneumatic Speed Setting)	
UG-15 Dial Governor		26119	
UG-25+ Actuator	03386	26580	
UG-25+ Governor	03339	26643 (P3 version/turbines) 26330 (P0/P1 version)	06905 (Rev. B Firmware Chg Notification) 06903 (Rev. A Firmware Chg Notification) 06901 (Firmware Change Notification) 51315 (Max Spd Update Instruction) 51349 (Oil Level Gage Kit) 51392 (Service Tool Firmware Release)
UG-40 Governor	03030	03039 03019 (UG-40 Govs, Aux Devices used in Marine Serv) 82454 (UG-8/UG-40 Dial Governors, Stepping Motor Driver Control)	
UG-40 DI Governor	36209	03575	
UG MAS Governor (milliamp speed setting)	03048	36063 (UG-8) 26598 (UG-10) 03047 (UG-8/UG-40)	
Other UG Governor		03043 (UG Governor, Limit Switches) 03013 (UG Governor, Shutdown Solenoid) 03046 (UG Governor, Vibration Resistant Motor Cover) 03027 (UG Govs, Sync/Stepping Speed Adj. Motors) 03026 (UG/PSG/SG Govs, Synchronizing Motor)	
UG-Actuator	37511	37512	
UG40 Actuator	37516	37515	

Hydraulic Amplifiers

	Product Spec	Technical Manual	Application Note
Hydraulic Amplifier	89007	89015 (Electrical Input Control/EG-3P) 89009 (Mechanical Input Control) 89008 (Mechanical Input Control) 89013 (Pressure Input) 89012 (85mm, Mechanically Controlled) 89005 (Servo Controlled)	

Peak 150 Product Line

	Product Spec	Technical Manual	Application Note
Peak 150 Digital Control for Steam Turbines	85549	85565 (8200-008 to 019,9905-857 to 868)	

ProTech Overspeed Protection	Product Spec	Technical Manual	Application Note
ProTech 203 Overspeed Protection System		85196 (9905-750 through 756, 989 through 999) 85191 (9905-869—886, 9907-145) 85201 (9905-903) 85195 (9905-975 through -986) 85204 (9907-146 through -151) 85205 (8200-200—205, 9907-344,-345) 85206 (8200-206—211, 9907-346, -347)	
ProTech-GII Overspeed Protection Device	03370	26545 (standard) 26709 (w/ voted inputs)	06912 (product change) 51477 (software upgrade procedure)
ProTechTPS Total Protection System	03371	26501V1/V2 (standard) 26710V1/V2 (w/ voted inputs)	06909 (product change) 51478 (TPS software upgrade procedure)
ProTech-SX Safety System with Integrated Overspeed Protection	03372	26546	
ProTech-SX/TPS/MSM		26712 (ProTech GAP manual)	51491 (MSM software upgrade procedure)
STS100 Simulator Product Line	Product Spec	Technical Manual	Application Note
STS100 Steam Turbine Simulator	03206	26044 (STS100 Interface Software) 26210 (STS100 Steam Turbine Simulator) 26217 (STS100P Simulator w/ Op. Panel)	
Valves/Fuel Systems/Misc.	Product Spec	Technical Manual	Application Note
CPC Current-to-Pressure Converter	85202	89543 (standard) 26248 (explosion-proof) 37839 (Redundant Duplex CPC Skid Assembly)	51190 (I/H to CPC Conversion Kit) 06900 (Internal Filter Prod. Chg. Notif.)
CPC-II Current-to-Pressure Converter	03352	26448 (CPC-II) 26615 (CPC-II ED) 26472 (Voith to CPC-II Kit)	51327 (new product announcement) 51444 (upgrade program) 51353 (flyer)
EHPC Electrohydraulic Power Cylinder	85189	85186 (standard) 85207 (EHPC w/ onboard driver) 85184 (single acting 8921-012) 85199 (single acting 8921-018)	51301 (SV32 Replacement Procedure)
EHPS Electrohydraulic Power Servo	03342	26063	
Flowserve Mark 100 Control Valve		26679	
H-Spring Hydraulic Actuator (HDA-L, HDA-R)	03343		
RTCnet / LINKnet HT Nodes	03402	26640	
SIL-3 Speed Sensors	03429		
SPC Servo Position Controller	03254	26236 (8200-224/-225/-226)	51322 (Upgrading DRFDs to SPCs)
QuickTrip Electro-hydraulic Trip Block Assembly	03415		
Smart Pressure Transducer		26080/85555	
Triple Offset Butterfly Valve		26362	
Varistroke-I Electro-hydraulic Actuator	03397		
Varistroke-II Electro-hydraulic Actuator	03378		

Gas Turbine Controls

General Gas Turbine Application Notes

51240 (Software Overview for Turbines)
 83407 (Steam and Gas Turbine Retrofit)
 51239 (Controls for Gas Turbines)
 83404 (Dev of Gas Fuel Cont Sys for DLN Aero Derivative Gas Turbines)
 51253 (Woodward Actuator and Valve Selector)
 83410 (Gas Turbine Control on Sour Gas)

2300 Product Line	Product Spec	Technical Manual	Application Note
2300 Digital Load Sharing & Speed Control (hardware)	03318	26232	
2301A Product Line	Product Spec	Technical Manual	Application Note
2301A Speed Control	82021	82020 26796 (Installation Sheet)	
2301A with 4–20 mA Input	02301	02302	
2301A Load Sharing & Speed Control (9905 Series)	82390	82389 (9905/9907 Series) 26795 (Installation Sheet) 26006 (9907 Series)	50533 (Wiring the 9905 Series)
2301A Load Sharing & Speed Control with Dual Dynamics	82047	82046	
2301A Load Sharing & Speed Control with Temp or Process Limiting	82387	82386 02303 (9900-430—433) 02008 (Reverse Acting Fuel Limiter 8272-789) 82348 (2301 & 2301A Controls, Preregulator)	51191 (Replacing Caterpillar 2301 Controls) 51005 (Retrofitting UG-8-Controlled Eng.) 51090 (Adapting for Torque Conv. Use) 50536 (Split-Shaft Gas Turbine) 51242 (2301A to 2301D Wiring Differences)
2301D Product Line	Product Spec	Technical Manual	Application Note
2301D-GT Digital Control for Small Gas Turbines		26144	
Atlas Product Line	Product Spec	Technical Manual	Application Note
Atlas-II Turbine and Engine Control Platform	03346	26415	
AtlasSC Engine and Turbine Control System	03253	26179 (AtlasSC) 26229 (AtlasSC Overspeed Protection System)	

	Product Spec	Technical Manual	Application Note
AtlasPC (replaced by Atlas-II)		85586 (Hardware) 26103 (NT RTOS Software Tools) 26199 (VxWorks RTOS SW Tools, 8273-2xx series) 26266 (VxWorks RTOS SW Tools, 8273-4xx series)	51193 (AtlasPC Fixed IP Address) 51226 (VxWorks RTOS Field Conversion)

Governors/Actuators	Product Spec	Technical Manual	Application Note
EG-3P/6P/10P Actuator	82516	37710 (EG-3C & EGR) 82560 (EG-3P) 26798 (EG-3P Installation Sheet) 82566 (EG-6P/10P) 26799 (EG-6P/10P Installation Sheet) 37714 (EG Power Transfer Control)	
EGB-10P/13P/35P Governor/Actuator	82543	82340 (EGB-10P/13P/29P/35P/50P/58P)	
EGB-29P/58P Governor/Actuator	82483	82340 (EGB-10P/13P/29P/35P/50P/58P)	
Other EGBs		37709 (EGB-2C) 37729 (EGB-10, Two-Solenoid Spd Setting Mechanism) 37741 (EGB-10 Pneumatic Speed Setting, New Style) 37708 (EGB-10C) 54066 (EGB-10C/13C/35C/50C Instal) 82558 (EGB-10PLS Hydraulic Actuator) 37740 (EGB-500P)	
EPG Electrically Powered Governors	04106	82327 (512/24 & 1712/24, Single Phase Droop) 82329 (512/524 & 1712/1724 installation) 82493 (512/524 & 1712/1724 Isochronous) 82448 (501/1701) 26786 (EPG Installation Sheet) 82042 (4024) 82354 (EPG with Position Feedback) 82038 (Min/Max Control System)	50530 (Installation & Control Choices for) 50528 (Linking to a Mech Droop Gov)
EM-70/EM-140 Rotary Output Electric Actuators	40180	40178 (EM-140)	
EM-80 and EM-300 Actuators	36199	36173	
EM-80/EM-300 MDS 5150A/LIT Actuator System	03420	26761	
Other EM Actuators		04110 (EM-6 Actuator) 82000 (EM-10P/20P Actuators, all elec w/ electronic driver) 40152 (EM-35 Analog Driver) 40161 (EM-35 Digital Driver with Dual Feedback)	
EML-100 Actuator	40186	40183 (EML-100 Actuator) 26159 (EM/LQ Digital Driver)	
PG-200/300 Governor	36619	36618 (Case, Accumulator, & Power Cylinder) 36054 (Dual Buffer System)	
PSG Governor	37010	54055 (Installation) 37013 (Aluminum Case) 37017 (Cast Iron Case) 26780 (Installation Sheet) 03026 (Synchronizing Motor)	50516 (Governor Linkage)
PSG Governor, PM Speed Adjusting Motor	37014	04018 (SG/PSG Spd Adj. Motor Cover assy)	

	Product Spec	Technical Manual	Application Note
SG Governor		54035 (Installation) 04048 (SG Governor) 26794 (SG Governor Installation Sheet) 04026 (Overspeed Trip) 04018 (SG/PSG Spd Adj. Motor Cover assy) 03026 (Synchronizing Motor) 03505 (Synchronizing Motor, Parts Catalog & Lube Guide)	
SGT Torque Converter Governor		04040	
TM-25LP & TM-200LP Actuators	82451	82450	50525 (Changing Output Direction)
TM-55 Integrating Actuator	82767	82768	
TM-55P Actuator	82599	82400	
Other TM Actuators		45015 (TM-40LP Actuator) 40171 (TM-100 Dual Feedback Dig. Driver - UL Version) 40144 (TM-100 Dual Feedback Driver) 40170 (TM-100 Single Feedback Dig. Driver - UL Version) 40143 (TM-100 Single Feedback Driver) 45014 (TM-1000LP Linear-Proportional Actuator) 45012 (TM-1000LP Linear-Proportional Actuator & Attached Steam Valve) 40130 (TM Modular Actuator and Steam Valve Assembly) 40129 (TM Modular Servo Valve)	
UG MAS Governor (milliamp speed setting)	03048	36063 (UG-8) 26598 (UG-10) 03047 (UG-8/UG-40)	
UG-Actuator	37511	37512	
UG40 Actuator	37516	37515	

GTC Product Line	Product Spec	Technical Manual	Application Note
GTC100 & GTC200 Gas Turbine Controllers	03319	26284 (GTC100) 26262 (GTC200)	
GTC190 Large Industrial Gas Turbine Control System		26302	
GTC190A Large Industrial Gas Turbine Control System		26432	
GTC190A-FC Large Industrial Gas Turbine Control System	03356		
GTC190A-TC Large Industrial Gas Turbine Control System	03353		
GTC250 Aero-derivative Gas Turbine Control	03303	26224	
GTC250A Aero-derivative Gas Turbine Control		26433	
GTC250A-FC Aero-derivative Gas Turbine Control	03357	26477	
GTC250A-TC Aero-derivative Gas Turbine Control	03351		

MicroNet/5009 Controls	Product Spec	Technical Manual	Application Note
MicroNet Plus Control System	03333	26166V1/V2 26610 (MicroNet Plus for LM6000 Trans Canada Test Cell)	
MicroNet TMR Control System	03363	26167V1/V2	
MicroNet Safety Module	03375	26547V1/V2 26711V1/V2 (w/ Voted Inputs)	06909 (product change)
Vertex-Pro Motor-Driven Compressor Control	03364	26489	
SIL Safety Manual		26728	

	Product Spec	Technical Manual	Application Note
Other MicroNet Information			51426 (Module-Validation Program) 51459 (Cyber Security)

ProTech Overspeed Protection	Product Spec	Technical Manual	Application Note
ProTech 203 Overspeed Protection System		85196 (9905-750 through 756, 989 through 999) 85191 (9905-869—886, 9907-145) 85201 (9905-903) 85195 (9905-975 through -986) 85204 (9907-146 through -151) 85205 (8200-200—205, 9907-344,-345) 85206 (8200-206—211, 9907-346, -347)	
ProTech-GII Overspeed Protection Device	03370	26545 (standard) 26709 (w/ voted inputs)	06912 (product change) 51477 (software upgrade procedure)
ProTech-SX Safety System with Integrated Overspeed Protection	03372	26546	
ProTech-SX/TPS/MSM		26712 (ProTech GAP manual)	51478 (TPS software upgrade procedure) 51491 (MSM software upgrade procedure)

Valves/Fuel Systems/Misc.	Product Spec	Technical Manual	Application Note
1907 Large Gas Fuel Valve		45001 45000 (1907 Servo-Limiter)	
1907 Large Liquid Fuel Valve	40125	45002 45000 (1907 Servo-Limiter)	
1907 Large Liquid Fuel Valve with EM-35 Actuator	40158	40159	
1907 Small Gaseous Fuel Valve/Limiter		40100	
1907 Small Liquid Fuel Valve/Limiter	40102	40053	
Other 1907 Small Liquid Fuel Valves		55723 (1907 Small Liquid Fuel Valve & EG-3P) 40131 (1907 Small Liquid Fuel Valve with LVDT Position Fdbk) 45011 (1907 Small Liquid Fuel Valve with Solid Piston Limiter)	
3055 Valve/Actuators		40122 (3055 Liquid Fuel Metering Valve/Act Assembly 9902-220) 26211 (3055 Liquid Fuel Metering Valve/Act Assembly 9902-358) 26213 (3055 VSV Actuators) 40124 (3055 VSV Servo Valve & VSV Actuators 9902-222, 223)	
3103 Gas Valve with EM-35 Actuator		26733	
3103 Gas Valve with EM-35MR Actuator	03411	26734	51424 (Wear Mitigation)
3103 Gas Valve with TM-55I Actuator		40103	
3103 Gas Valve with TM-55P Actuator	40106	40104	
3103 Gas Valve with TM-100 Actuator		40155	
3130 Gas Valve with TM-300P Actuator		40105	
3145 Liquid Fuel Valve with TM-5L Actuator		40108	
3145 Liquid Fuel Valve with TM-40LP Actuator		40121	
3151A Water Valve with EML-100 Actuator	40187	40181	
3151A Water Valve with TM-5L Integrating Actuator		40112	
3151A Water Valve with TM-40LP Actuator	40119	40120	
3171 Gas Valve with TM-55 Integrating Actuator		40115	
3171A Gas Valve with EM-35 Actuator		26732	
3171A Gas Valve with EM-35MR		26731	

	Product Spec	Technical Manual	Application Note
3171A Gas Valve with TM-100 Actuator		40157	
CPC Current-to-Pressure Converter	85202	89543 (standard) 26248 (explosion-proof) 37839 (Redundant Duplex CPC Skid Assembly)	51190 (I/H to CPC Conversion Kit) 06900 (Internal Filter Prod. Chg. Notif.)
CPC-II Current-to-Pressure Converter	03352	26448 (CPC-II) 26615 (CPC-II ED) 26472 (Voith to CPC-II Kit)	51327 (new product announcement) 51444 (upgrade program) 51353 (flyer)
ELV Electric Liquid Fuel Valve	85190	37521	
Flow Divider Valve (FDV)		26741	
Flowsolve Mark 100 Control Valve		26679	
Fuel Metering Systems for Dry Low Emissions Gas Turbines	03409		83406
Gas Shutoff Valve 25 (GSOV25)	40176	40172	
Gas Shutoff Valve 25 High Temperature/Pressure (GSOV25 HT)	03286	26190	
Gas Stop/Ratio Valves		26093 (Gas Stop/Ratio Valve/GE) 26620 (Gas Stop/Ratio Valve/non-GE) 26570 (Gas Stop/Ratio Valve for IECEx Intrinsically Safe Installation) 26376 (Gas Stop/Ratio Valve, 10-inch) 26299 (Gas Stop/Ratio Valve with Intrinsically Safe Components) 26276 (Gas Stop/Ratio Valve, SS-260)	
GS3 Valve Driver, GS3 Gas Fuel Valve/Actuator Assembly		40146	
Oil Metering Valve		26680	
GS6 Gas Metering System	03256	26513 (GS6 w/ on-board electronic controller) 26556 (GS6 Mass Flow Metering Leg)	51342 (GS6 Flushing Procedure) 51372 (VPC Firmware Update)
GS10 Gas Metering System	45021	40167 (GS10 Valve Driver, GS10 Gas Fuel Valve/Actuator Assy)	
GS16 Gas Metering System	03284	26514 (GS16 with On-board Electronic Controller) 26418 (GS16DR Dual Resolver) 26597 (GS16DR Mass Flow Meter Leg)	51372 (VPC Firmware Update)
GS25 Valve Driver, GS25 Gas Fuel Valve/Act Assy, Opt GS25 Shutoff Valve)		40168	
GS150 Rotary Control Valve with Electric Actuation (152 mm / 6-inch)		26689	
HGV Hydraulic Globe Valves	03314	26170 (HGV Gas Fuel Throttle Valve) 26663 (HGV 6-inch Gas Fuel Throttle Valve) 26368 (3" Liquid Globe Valves) 26367 (8, 10, & 12" Globe Valves) 26371 (supp. to 26367, blow-down/hydro test) 26369 (16" Globe Valves) 26370 (20x26" Steam Conditioning Globe Valve) 26372 (supp. to 26369/26370, blow-down/hydro test) 26186 (EGV Electric Globe Valve)	
HLBV Hydraulic Liquid Bypass Valve		26416	
H-Spring Hydraulic Actuator (HDA-L, HDA-R)	03343		
Hydraulic Pumps		26270/45010 (2057 Hydraulic Pump) 40123 (3055 Hydraulic Pump and Manifold Plate) 26212 (3055 Hydraulic Pump/Servovalve Assembly) 40133 (3230 Hydraulic Pump 9904-205)	
2000 Series Pumps	55111	55110	

	Product Spec	Technical Manual	Application Note
IGV (Inlet Guide Vane) Actuator		26188 (standard) 26346 (with junction box) 26554 (for IECEx intrinsically safe installation) 26374 (7.00-inch bore models)	
IGV (Inlet Guide Vane) / VSV (Variable Stator Vane) Controls		40136 (Dual Servo Valve and VSV and IGV Actuators 9904-206, -207) 26528 (LMS100 IGV Actuator) 26213 (3055 VSV Actuators) 40124 (3055 VSV Servo Valve & VSV Actuators 9902-222, 223)	
Liquid Shutoff Valve	40135		
Liquid Shutoff Valve 25	40169	40148	
Liquid Stop Valve		26463	
LQ Series Liquid Fuel Metering Valve	40174	26087 (LQ3 Valve Actuator Assembly) 26161 (LQ25 Valve Actuator Assembly) 26475 (LQ25 Valve Actuator Assembly) 26162 (LQ25T and LQ Bypass Valve Actuator Assemblies) 26476 (LQ25T and LQ Bypass Valve Actuator Assemblies)	
LQ6 Liquid Fuel Valve with On-board Driver	03288	26207 26515	51372 (VPC Firmware Update)
LQ6T & LQ6 Bypass Valve Actuator Assemblies		26512	
LQ25T Liquid Fuel Metering Valve	40179	26162 (LQ25T and LQ Bypass Valve Actuator Assemblies) 26476 (LQ25T and LQ Bypass Valve Actuator Assemblies) 40175 (GS3/LQ Valve Driver, LQ3/LQ25 Liquid Fuel Valve Assy) 26159 (EM/LQ Digital Driver)	
M-Spring Actuator with 12-inch Triple Offset Butterfly Valve		26572	
RVP-200 Rotary Valve Platform	03369	26539	
SIL-3 Speed Sensors	03429		
SonicFlo Gas Valves	03287	26177 (electric) 26630 (std & intermediate high recovery/non-GE) 26231 (electric trip) 26298 (intrinsically safe components) 26823 (electric trip, intrinsically safe) 26286 (high recovery design/1.5" stroke) 26749 (high recovery design/1.5" stroke; 9904-1872/-1885/-1886/-3015) 26571 (high recovery design for IECEx intrinsically safe installation) 26631 (high temperature/non-GE) 26486 (high temperature/dual trip) 26384 (syngas/electric trip) 26419 (LESV Large Electric Sonic Valve) 26745 (LESV Large Electric Sonic Valve w/ SIL2 Sensor) 26762 (LESV Large Electric Sonic Valve w/ SIL2 Sensor Safety Manual) 26465 (LESV Large Electric Sonic Valve Characterized Version for DLE Apps)	51299 (GFCV O-ring Field Replacement) 51279 (Servo Valve & Orifice Plate Repl.)
SmartIFS Integrated Fuel Systems for Industrial Gas Turbines	03309		
Smart Pressure Transducer		26080/85555	
SPC Servo Position Controller	03254	26236 (8200-224/-225/-226)	51322 (Upgrading DRFDs to SPCs)
Swift Gas Metering System	03252	26363	
Swift ES Gas Metering System		26496 26350 (Swift Safety Shutoff Valves)	

	Product Spec	Technical Manual	Application Note
Triple Offset Butterfly Valve		26362	
Variable Stator Vane Control (VSV)		40110	
VBV Variable Bleed Valve		26504	
Woodward M-Spring Actuator		26490 (with Fisher CV500 valve)	
Other Valves		26203 (180HT Valve)	
	03376	26329 (DVP Digital Valve Positioner) 26773 (DVP5000/DVP10000) 26574 (DVP Cabinets, LM6000PD/PF)	51466 (Cable Field Shortening Guide)
			51417 (DLE Skid GS6 Valve Replacement) 51436 (DLE Skid GSOV25 Vlv Replacement) 51561 (DLE Skid RTD Replacement) 51527 (DLE Skid Smrt Press. Xducer Repl.)
		26722 (PGT25 DLE Gas Fuel Skid with GS6 Metering Valve) 40142 (DLE Valve Warnings, Calibration, & Installation) 26305 (EGMV Electric Gas Metering Valve) 04145 (Electronic Rail Valve) 26306 (ELMV, EWMV, ELBV Electric Metering & Bypass Valves) 26062 (Fuel Distribution Valve) 26285 (HCU Hydraulic Control Unit 9902-415/ 9902-416) 26206 (HPI Hybrid Position Indicator for Fuel Oil Bypass Control Valve) 26592 (HWMV Hydraulic Water Metering Valve) 91380 (LFV Liquid Fuel Valves) 26606 (Stainless Steel LFV Liquid Fuel Valves) 26088 (Liquid Bypass and Stop Valves) 26226 (Liquid Bypass and Stop Valves with Position Indicator) 40134 (Liquid Fuel Shutoff Valve 9904-208) 45009 (Liquid Fuel Valve & TM-55 Integrating Actuator) 40132 (Liquid Fuel Valve and TM-55) 04020 (Overspeed Dump Valve)	
	03382	26307 (USOV Universal Shutoff Valve 2" Liquid Only 9907-869)	
	03382	26335 (USOV Universal Shutoff Valve 3" Gas or Liquid 9907-870 or sim.)	
	03417	26717 (WT6 Water Metering Valve with Onboard Electronic Controller)	

Miscellaneous Gas Turbine Products

	Product Spec	Technical Manual	Application Note
RTCnet / LINKnet HT Nodes	03402	26640	
STExcite Industrial Gas Turbine Ignition System Driver	03308	26172 (STExcite, Dual Channel, 8408-900) 26772 (STExcite, Dual Channel, 8408-9000) 26182 (STExcite, Single Channel)	

General Information

Reference Manuals

25070 (Electronic Control Installation Guide)
 25071 (Oils for Hydraulic Controls)
 25075 (Commercial Preserv Pkg for Storage of Mech-Hydr Controls)
 25179 (Glossary of Control Names)
 25225 (Global Energy Market Business Partners and Woodward Locations)
 26260 (Governing Fundamentals and Power Management)
 26300V1 (Non-Restricted Publications Index)
 26452 (Woodward Diesel Systems Publications Index)
 26455 (Customer Publications Cross-Reference)
 82510 (Magnetic Pickups & Proximity Switches for Electronic Controls)
 82715 (Guide for Handling & Protection: Electronic Controls, PCBs, Modules)

Reference Application Notes & Product Specs

01302 (Speed Droop & Power Generation)
 03362 (RER Services Overview)
 25014 (Gas Engine Governing)
 50500 (Simplified Unloading Scheme for Electric Governors)
 50511 (Prediction of Phase Angle at Breaker Closure)
 50516 (Governor Linkage for Butterfly Throttle Valves)
 50532 (EMI Control in Electronic Governing Systems)
 51214 (Work versus Torque)
 51228 (Gas Turbine Products)
 51229 (Steam Turbine Products)
 51429 (Speed Sensing for Gas & Steam Turbines)
 51438 (Distributor Map—North/Central America, Caribbean, NE South America)
 83402 (PID Control)
 83403 (Industrial Steam Turbine Control)
 83408 (PLCs for Turbine Control Systems)

General Catalogs

36300 (MotoHawk Control Solutions Product Guide)
 52122 (Product Line Catalog)
 52123 (Power Generation Products Catalog/North America)
 52132 (Solenoid Components for Control Systems Catalog)

General Brochures

37746 (Comprehensive Global Aftermarket Service & Support Solutions)
 51196 (12 V Systems for Mobile Spark-Ignited Engines (25–125 hp) Leaflet)
 51197 (12 V Systems for Stationary Spark-Ignited Engines (15–100 kW) Leaflet)
 51373 (Ecopetrol/Air Liquide/Silkeborg/GE AEP Retrofit)
 51374 (British Sugar Retrofit)
 51405 (Advanced Compressor Load Sharing)
 51407 (Green Ways Overview)
 51418 (Advanced Incipient Surge Protection)
 51455 (MicroNet Safety Brochure)
 51462 (TecJet Gas Flow Control Valves Brochure)
 51463 (APECS Clean Energies Technologies)
 51467 (Turbomachinery Technologies)
 51475 (Control Solutions for Small Engines)
 51476 (Control Solutions for Large Engines)
 51482 (Control and Protection Technologies for Compressors Brochure)
 51483 (Protecting Your Assets Safety Systems Brochure)
 51484 (Proven Steam Turbine Control Solutions Brochure)
 51494 (Control and Protection Technologies for Power Generation and Distribution)
 51506 (505 & 505-XT Controllers)
 51507 (505 upgrade flyer)
 51508 (QuickTrip data sheet)
 52116 (Fueling Progress/Diesel & Gas Engine Solutions)
 52117 (Fueling Progress/Power Management Solutions)
 52118 (Fueling Progress/Gas & Steam Turbine)
 52120 (NetSim Control Simulation)
 52131 (Computer Based Training Module/Basic Governing & Control Theory)
 52135 (Diesel Fuel Injection Solutions/Introduction)
 52136 (Diesel Fuel Injection Solutions/Technology Review)
 52137 (Certified R&O Turbine Valve Services Leaflet)
 52138 (Mobile and Industrial Equipment Controls Brochure/8.5x11")
 52140 (Mobile and Industrial Equipment Controls Brochure [52138 in A4 size])
 52147 (Elk Basin Steam Turbine Retrofit [W-MB])
 52148 (E3 Retrofit Gas Engine Control Systems Brochure)

PM Motor Control	Product Spec	Technical Manual	Application Note
APM Motor Control	82044		
Voltage Converter, Adj. 24 Vdc PM Motor	82499		

Software	Product Spec	Technical Manual	Application Note
505View Operator Interface for 505, 505E, & 505 Enhanced Controls	03207	26648	
Control Assistant	03201	26015 (Getting Started)	
Using Control Assistant & SOS Software in place of Watch Window & Servlink		26775	
GAP Graphical Application Programmer	03377 (03216)	80018 (GAP Getting Started) 26100 (Computer Based Training/GAP)	51260 (Installing Run-time License) 51321 (SAE J1939 CAN/GAP)
Monitor GAP	03306		
NetSim Basic Control Simulation Tool	03292		51250 (Visual C++ Installation)
NetSim Closed Loop Control Simulation Tool	03293		
OpView Operator Interface for 505/505E/5009	85014	80019 (OpFamily Software Installation Guide)	
ToolKit Custom HMI Software	03366		51498 (User Manual/Cummins India)
Other Software		26421 (Integrated Steam Turbine & Compressor Control) 26336 (Woodward VxWorks RTOS Software Tools/MicroNet Plus & Atlas-II)	

Test Stands/Test Equipment/Board Checkers	Product Spec	Technical Manual	Application Note
Test Stand, 5 hp Electric Drive	03380	26618 (8909-1057)	
Test Stand, 3 & 5 hp Electric Drive		25405 (8909-094, Basic Electric Drive) 25801 (Conversion 8959-045, Air to Electric) 25094 (T-96046 Maintenance) 25805 (8909-051 & 8909-053)	
Other Test Equipment		55008 (Test Box T-94911, Actuator Centering Box) 55036 (Test Device T-86986, PG Gov., Test. & Calibr. of LVDT Fdback Devices on) 55012 (Test Set T-95959, 2301 Speed Loop) 55016 (Test Set T-96571, 2301 Speed Loop Test Set with Load Sensor) 55028 (Test Set T-99331, EPG Electric Actuator, Speed Loop) 55037 (Test Set, 400 Closed Loop, to test 9900-323, 413 and A9900-413) 82012 (Test Set, Hand-Held Frequency Counter/Generator 8909-509) 01504 (Test Tool T87444, RVDT Setup & Polarity Checking) 55021 (Tester 8909-041, EG Actuator) 55011 (Tester, 2301/2301A/EGM Port. Spd Loop w/ Load Sensor 8909-555)	

Training	Product Spec	Technical Manual	Application Note
Computer Based Training		26100 (GAP) 26101 (Basic Governing and Control Theory)	
Power Generation Learning Module	03412	26736	51474 (Quick Start Guide)

Other Products/Information	Product Spec	Technical Manual	Application Note
700 Series Controls		85185 (700 Digital Speed Control) 85177 (701 Digital Speed Control) 02814 (701A Digital Speed Control) 02703 (702 Locomotive Control) 02714 (721 ABL5 Hardware) 02770 (721 ABL5 Hardware, CE Mark Versions) 26018 (721 Digital Control Overspeed Switch 9907-718) 26105 (721 Digital Control Overspeed Switch 9907-733) 02707 (721 Digital Speed Control) 02813 (721 Digital Speed Control 9905-834/840) 26004 (721 Digital Speed Control 9907-717)	01304 (Dynamic Adjustment Procedure)
2301 Frequency Sensor		82503	
43095 Pneumatic Load Balance		36625	
Power Source, Dual	85116	85115	
Power Supply, 24 Vdc	82013	82452	
Power Supply, 28 Vdc		82372	
Process and Import/Export Control	02013	82010	
Solenoid Products		36712 (Bosch RQV-K Governor Shutdown Kit with 1752ES Solenoid) 36706 (Bosch RSV Governor Shutdown Kit with 1751 & 1751ES Solenoids) 36708 (Zexel Nippondenso RSV Governor Shutdown Kit with 1752ES Solenoid) I-SAL-004 (Dual Coil Solenoids Installation Instructions) 36541 (Solenoid Troubleshooting Guide) 36542 (Solenoid Wiring Instructions) 36568 (Two-Element Speed Switches Installation, Adjustment & Service Instructions) 36570 (Overspeed Switches Installation, Adjustment & Service Instructions) 36707 (Kit 1A, SD Sys. for Kubota 62.2 mm Eng. w/ 1753 & 1753ES Solenoids) 36709 (Kit 3A, SD Sys. for Kubota 70 & 82 mm Eng. w/ 1751 & 1751ES Solenoids) 36722 (Mini-Gen Signal Generator Installation Instructions) 36723 (Underspeed Switches Installation & Adjustment Instructions) 36724 (Three-Element Speed Switches Installation Instructions)	
Stepper Motor Driver, Speed Adjusting	02034	26223	
Miscellaneous		55043 (Accum. Assy, and Charging Assy) 36044 (Air/Fuel Ratio Control) 55032 (Ambient Air-Temperature Sensor) 36684 (Booster Servomotor) 45005 (CDP Sensor Assembly/Temp Biased) 36049 (Control Sys for Controllable Pitch Marine Propellers) 26019 (Deltec VM7956 Burner) 82540 (Dual Fuel Control) 55077 (Duplex Filter Assembly) 82429 (Export Controls) 85108 (Frequency Control, Digital) 82477 (Fuel Limiter) 82346 (Fuel Limiter 8272-107) 37421 (Gasket Kits for IP54 or Type 12 Enclosures information sheet) 82434 (Generator Loading Control) 36641 (Governor Oil Heat Exchanger, Remote & Integral Types)	

Product Spec Technical Manual Application Note

- 03508 (Groschopp Speed Adjusting (Synchronizing) Motor)
 - 55035 (Hydraulic Support Package, Dual-Pump)
 - 82017 (Input Power Selector Switch)
 - 55106 (Installation Instructions for Compression Type Hydraulic Fittings)
 - 82030 (Isolated Signal Converter)
 - 36052 (Mag Speed Pickup for PG, UG-8, UG-40 Governors)
 - 37717 (Motor Operated Potentiometer)
 - 82461 (Paralleling Phase Switch)
 - 26356 (PCMCIA Installation)
 - 36645 (Pneumatic Load Sharing Transmitter)
 - 36613 (Pneumatic Transmitter)
 - 82359 (Ramp Generator & Signal Converter)
 - 82018 (Real and Reactive Pwr Sensor)
 - 82439 (Remote Speed Reference Unit)
 - 04104 (RPFV Rail Pressure Fuel Valve)
 - 82716 (Signal Converter)
 - 82514 (Speed Setting Pots used on 2301, 2500, & 8290 Systems)
 - 82310 (Speed Switch & Integrated Speed Switch)
 - 82039 (Synchronous Motor Operated Potentiometer)
 - 54106 (Tachometer Assembly Installation)
- 51344 (New UEGO Sensor Controller)

Other Application Notes

- 36584 (8270-0644 Controller used with DC10502 actuator)
- 51259 (Advance Flow Signal Filtering)
- 83405 (Adv Software Sys Lets Control Engineers Concentrate on Control)
- 51241 (ATEX Compliance Overview)
- 83400 (Boiler Feedwater Control)
- 51332 (EasySync USB Serial Adapter)
- 51223 (Energy Control Technologies on the Queen Mary 2)
- 51341 (FBUS vs Modbus)
- 51204 (Grounding and Shielding Termination)
- 51295 (Highland Technology V375 VME 4-channel Speed Card)
- 55104 (Hydraulic Fluid Analysis Kit)
- 51268 (Impact of Recursion Rate and Loop Delay on Effective Control)
- 06904 (ITCC Decoupling Algorithm Improvement)
- 51121 (Load Pulse Unit Limits Freq Excursions)
- 51049 (Load Sensor Wiring For Single Phase Generators)
- 50517 (Oil Supply Sys for Sm Govs & Act, Recommended Engine)
- 51269 (Re-greasing Procedure for LELA Actuator)
- 50524 (Use of CTs to Measure Unbalanced Single-Ph. Low-Volt. Loads)


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	ZH03316 ----- H▲KP	01089 ----- A---R	01157 -----R	01216 -----R	01272 -----R	01333 -----R
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01393	R	01452	B L	01513	R	01569	A R	01863	D R	02880	C P	03253	D P
01394	R	01453	A R	01514	R	01570	A R	01867	B R	02881	D P	03254	F P
01396	R	01454	A L	01515	R	01571	R	01882	F R	02882	A P	03255	E P
01397	R	01455	L	01516	R	01572	R	01888	B R	02883	B P	03256	J P
01398	R	01457	R	01517	R	01573	R	01892	B R	02884	B P	03284	K P
01399	R	01458	R	01519	R	01574	R	01896	F R	02983	C P	03286	F P
01400	R	01459	R	01520	A R	01575	R	01898	E R	03013	T P	03287	A P
01401	R	01460	R	01521	R	01576	R	01904	L R	03016	D P	03288	F P
01402	B R	01461	A R	01522	R	01577	R	01907	H R	03019	G P	03292	A P
01403	R	01462	R	01523	R	01578	A R	01918	R	03025	B P	03293	A P
01404	R	01463	R	01524	R	01579	R	01935	C R	03026	R P	03298	D P
01405	L	01464	R	01525	R	01581	R	01944	R	03027	B P	03299	J P
01406	R	01466	R	01526	R	01582	A R	01970	E R	03029	K P	03303	B P
01407	R	01467	B R	01527	R	01583	L	01971	C R	03030	E P	03304	E P
01408	R	01468	R	01528	R	01584	R	01972	C R	03035	D P	03305	D P
01409	R	01470	R	01529	R	01585	R	01973	D R	03036	L P	03306	B P
01411	R	01471	A R	01530	A R	01586	R	01976	L R	03037	D P	03308	F P
01412	R	01472	A R	01531	R	01587	A L	02008	P	03039	C P	03309	P
01413	R	01473	R	01532	R	01588	A R	02010	C P	03040	G P	03313	P
01414	R	01474	R	01533	R	01589	L	02012	A P	03043	P	03314	A P
01415	R	01475	R	01534	R	01590	R	02013	P	03045	P	03315	D P
01416	R	01476	R	01535	R	01591	A R	02024	R	03046	P	03316	K P
01417	R	01477	R	01536	R	01592	L	02034	P	03047	D P	03317	E P
01418	R	01478	R	01537	R	01593	R	02301	A P	03048	A P	03318	C P
01419	R	01479	A R	01538	R	01594	R	02302	B P	03101	C P	03319	A P
01421	L	01480	R	01539	P	01595	L	02303	A P	03102	E P	03324	P
01422	L	01482	R	01540	R	01596	R	02703	C P	03103	P	03326	C P
01423	R	01483	A R	01541	R	01598	R	02707	B P	03104	P	03328	B P
01424	A L	01484	B R	01542	R	01599	L	02714	A P	03105	B P	03330	A P
01425	R	01485	B R	01543	L	01601	R	02755	B P	03106	P	03331	B P
01427	R	01486	R	01544	L	01603	R	02758	F P	03107	B P	03333	B P
01428	R	01487	L	01545	L	01802	AH R	02765	B P	03108	B P	03336	B P
01429	R	01488	R	01546	L	01804	E R	02770	C P	03109	P	03337	P
01431	R	01489	R	01547	R	01811	A R	02784	A P	03110	P	03339	G P
01432	R	01490	R	01548	A R	01813	P R	02785	A P	03111	B P	03341	P
01433	R	01491	A R	01549	R	01814	J R	02789	R	03112	P	03342	P
01434	R	01492	A R	01550	R	01815	B R	02813	B F P	03113	P	03343	A P
01435	R	01493	R	01551	R	01818	R	02814	A P	03201	B P	03344	B P
01436	R	01494	R	01552	R	01826	B R	02817	P	03203	E P	03345	A P
01437	R	01495	R	01553	R	01827	R	02826	A P	03206	A P	03346	A P
01438	R	01496	R	01556	L	01828	R	02827	B P	03207	A P	03348	D P
01439	R	01497	R	01558	R	01833	C R	02831	C P	03214	D P	03349	P
01440	A R	01498	R	01559	R	01835	D R	02835	D R	03216	B P	03351	A P
01441	L	01499	R	01560	L	01838	P R	02842	R	03218	P	03352	K P
01445	R	01504	B P	01561	L	01839	F R	02845	H R	03222	B P	03353	A P
01446	R	01507	R	01563	R	01840	A R	02874	D P	03224	B P	03355	B P
01447	R	01508	R	01564	R	01847	R	02875	E P	03225	H P	03356	P

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03357	P	03416	P	04157	F	P	25634	B	R	26147	F	P	26232	C	G	26308	R			
03359	A	P	03417	P	04161	B	P	25801	B	P	26155	R	26236	T	G	26309	C	R		
03362	P	03418	A	P	04166	P	25805	D	P	26156	F	R	26237	G	P	26310	P			
03363	C	P	03419	B	P	04168	P	26004	P	26159	L	G	26240sup	A	G	26312	F	L		
03364	B	P	03420	P	04169	D	P	26006	A	P	26160	E	R	26240V1	B	G	26313	B	R	
03365	A	P	03422	P	04172	H	P	26009	D	R	26161	J	G	26240V2	B	G	26316	C	R	
03366	B	P	03425	A	L	04173	D	P	26015	A	G	26162	H	G	26240V3	B	G	26318	A	R
03368	C	P	03426	P	04176	E	P	26018	P	26164	B	R	26246	P	P	26319	R			
03369	A	P	03427	L	04177	A	P	26019	P	26166V1	M	G	26247	C	P	26320V1	B	G		
03370	E	P	03429	P	04180	R	26023	A	G	26166V2	V	G	26248	E	G	26320V2	B	G		
03371	C	P	03504	F	P	04181	P	26031	A	P	26167V1	J	G	26249	F	P	26320V3	B	G	
03372	D	P	03505	D	P	04185	P	26041	D	M	26167V2	H	G	26250	L	P	26321	D	R	
03373	B	P	03506	F	P	04193	A	P	26043	B	P	26168	G	P	26251	K	P	26322	R	
03374	A	P	03507	P	06900	P	26044	G	26045	P	26170	L	G	26255	C	R	26323	R		
03375	B	P	03508	A	P	06901	P	26045	P	26172	B	G	26257	A	R	26324REF	L			
03376	C	P	03544	R	06902	P	26046	D	R	26173	C	P	26258	B	R	26324V1	L			
03377	P	03553	D	P	06903	P	26049	P	26177	J	G	26260	P	26325REF	L					
03378	B	P	03554	D	P	06904	P	26051	A	R	26179	H	G	26261	P	26325V1	L			
03379	P	03571	A	R	06905	P	26053	C	P	26180	B	R	26262	B	G	26326	A	R		
03380	A	P	03575	C	P	06906	A	L	26057	R	26182	G	G	26263	E	P	26327	L		
03381	B	P	03616	C	P	06907	R	26058	A	R	26184	G	G	26264	A	P	26329	W	G	
03382	B	P	04018	E	P	06908	R	26061	R	26185	H	P	26265	F	P	26330	L	P		
03383	P	04020	C	P	06909	B	P	26062	A	P	26186	C	G	26266	A	G	26331	A	P	
03386	A	P	04026	C	P	06910	A	R	26063	D	G	26187	P	26267	B	R	26333	A	R	
03387	P	04038	P	P	06911	R	26065	K	P	26188	M	G	26268	R	26334	R				
03388	P	04040	B	P	06912	B	P	26079	M	26190	V	G	26269	E	R	26335	L	G		
03389	P	04041	J	G	06913	B	R	26080	J	G	26199	C	G	26270	A	G	26336	E	P	
03390	L	04042	L	G	06914	R	26082	B	R	26200	A	P	26272	P	26337	R				
03391	L	04044	K	P	06915	R	26087	F	G	26203	P	26274	J	R	26338	R				
03392	L	04045	F	G	06916	P	26088	G	G	26204	B	P	26276	R	G	26341	R			
03393	L	04047	C	G	06918	R	26090	C	L	26205	B	P	26277	C	R	26342	A	R		
03394	L	04048	C	P	06919	A	P	26093	W	L	26206	G	26280	R	26343	G	R			
03395	L	04049	P	06920	A	P	26094	AA	L	26207	J	G	26281	R	26344	E	R			
03396	B	P	04050	R	06921	P	26097	C	P	26209	L	P	26283	P	26345	R				
03397	E	P	04051	R	06923	P	26098	P	26210	G	26284	D	G	26346	F	G				
03398	P	04101	A	P	06924	P	26100	G	26211	B	P	26285	B	P	26347V1	L	G			
03399	A	P	04104	A	P	06925	P	26101	P	26212	E	P	26286	M	G	26347V2	H	G		
03400	P	04106	E	P	06926	P	26103	E	G	26213	A	P	26287	B	R	26348	D	P		
03401	P	04110	P	06927	P	26105	P	26105	P	26216	R	26288	E	P	26349	B	R			
03402	B	P	04121	K	P	06928	P	26112	U	P	26217	G	26289	G	P	26350	B	G		
03403	P	04122	B	P	06929	R	26113	C	P	26219	G	P	26292	R	26352	R				
03404	B	P	04126	A	P	25014	C	P	26114	M	P	26220	B	R	26353	R				
03405	A	P	04127	C	P	25045	R	26119	B	P	26221	B	R	26298	H	G	26355	K	P	
03407	A	P	04140	B	P	25070	D	P	26125	A	P	26222	P	26299	D	G	26356	P		
03408	P	04141	G	P	25071	J	P	26135	F	P	26223	P	26300V1	P	26357	C	R			
03409	A	P	04144	AC	P	25075	A	P	26138	B1	▲EP	26224	B	G	26300V2	R	26358	R		
03410	P	04145	A	P	25094	P	26139	B	P	26226	L	G	26302	G	26359	R				
03411	B	P	04147	C	R	25179	E	P	26141	A	P	26227	A	P	26304	R	26360	R		
03412	P	04151	R	P	25182	P	R	26142	D	P	26229	A	G	26305	F	G	26361V1	H	G	
03413	F	P	04153	N	P	25225	P	26144	D	G	26230	P	L	26306	J	G	26361V2	F	G	
03415	B	P	04156	C	P	25405	C	P	26146	P	26231	T	G	26307	J	G	26362	B	G	

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26363	C	G	26434	L	26498	J	L	26551	A	L	26616V2-4	L	26697	L	26753	L				
26364	A	L	26435	C	R	26499	E	P	26553	P	26616V3-4	L	26698	L	26754	P				
26365	R		26436	L		26500	D	L	26554	A	G	26613	P	26699	C	L	26755	L		
26366	L		26437	L		26501V1	E	G	26555	L		26614	L	26700REF	R		26757	R		
26367	B	G	26438	A	R	26501V2		G	26556	A	G	26615	J	G	26700V1	R		26761	B	P
26368	B	G	26439	A	R	26502		L	26557	A	R	26616V1-1	L		26700V2	R		26762	C	G
26369	B	G	26440	D	P	26504	B	G	26559	R		26616V2-1	L		26701	P		26763	A	L
26370	B	G	26441	L		26505	A	R	26561	B	L	26616V3-1	L		26703	A	P	26764	R	
26371	A	G	26442	R		26507		L	26562V1	R		26618	B	P	26704	P		26766	L	
26372	B	G	26447	L		26508	A	L	26562V2	R		26619	R		26708	A	R	26767	L	
26373	B	P	26448	L	G	26509	B	L	26564	A	R	26620	D	G	26709	D	P	26768	R	
26374	H	G	26449REF	L		26512	E	P	26565	A	L	26621	A	R	26710V1	B	P	26769	R	
26375	A	R	26449V1	L		26513	L	G	26567	L		26622	L		26710V2	A	P	26770	R	
26376	C	G	26449V2	L		26514	K	G	26569	L		26625	C	R	26711V1	C	P	26771	R	
26377	A	R	26451sup	G		26514sup		G	26570	A	P	26626	D	R	26711V2	P		26772	G	
26378	C	R	26451V1	B	G	26515	E	G	26571	C	P	26628	L		26712	P		26773	A	P
26379	R		26451V2	A	G	26516		L	26572	P		26630	D	G	26713	L		26774	R	
26384	F	G	26451V3	A	G	26518V1	C	G	26573	B	R	26631	A	G	26714	A	L	26775	A	P
26385REF	L		26452	P		26518V2	C	G	26574	A	P	26632	L		26715	A	L	26776	C	L
26385V1	L		26455	P		26518V3	D	G	26575	L		26634	A	P	26716	A	L	26777	A	P
26385V2	A	L	26459	A	P	26518V4	A	G	26576	B	L	26635	B	P	26717	A	P	26779	A	P
26394	A	R	26461	A	R	26522		R	26578	B	P	26636	R		26718	L		26780	A	P
26395	A	P	26462	L		26524	A	P	26579	D	P	26640	P		26719	R		26782	L	
26396	A	R	26463	D	G	26525REF	A	L	26580	C	P	26641	F	P	26720	M		26784	A	R
26397	R		26464	C	P	26525V1	L		26582V1	L		26642	L		26721	R		26785	R	
26398	R		26465	D	G	26525V2	A	L	26582V2	L		26643	C	P	26722	P		26786	A	P
26399	E	P	26466	B	L	26525V3	L		26582V3	L		26644	A	R	26723	L		26787	A	P
26400	L	L	26467	P		26526	B	R	26582V4	L		26648	L		26725	L		26788	A	P
26401	P		26471	P		26528		P	26583	A	L	26649	A	L	26727	E	P	26789	A	P
26413	K	L	26472	P		26529	B	R	26584	A	L	26652	R		26728	P		26790	A	P
26415	F	G	26473	P		26530		R	26586	L		26653	R		26729	B	R	26791	P	
26416	G		26474REF	L		26531	A	R	26587	B	L	26656	A	L	26730	A	L	26792	A	P
26417	D	L	26474V1	L		26532		L	26588	A	L	26659	A	P	26731	B	P	26793	A	P
26418	H	G	26474V2	L		26533		R	26589	B	L	26661	L		26732	P		26794	A	P
26419	M	G	26475	G		26534	D	R	26590		L	26663	A	P	26733	P		26795	A	P
26420	R		26476	G		26535		R	26591V1	L		26664	L		26734	B	P	26796	P	
26421	P		26477	G		26536		R	26591V2	L		26665REF	R		26735	R		26797	A	P
26422	L		26479	A	R	26537		R	26592	C	P	26665V1	R		26736	P		26798	P	
26423	L		26480	R		26538	C	L	26593	R		26665V2	R		26737	L		26799	A	P
26424REF	L		26482	D	P	26539	D	P	26594	R		26676	R		26738V1	L		26800	A	P
26424V1	L		26484	L		26542V1	C	P	26597	A	P	26679	P		26738V2	L		26801	A	P
26424V2	A	L	26486	H	G	26542V2	D	P	26598	P		26680	P		26739	P		26802	A	P
26425	P		26487REF	L		26542V3	D	P	26599	P		26682	L		26741	A	P	26803	A	P
26426	L		26487V1	L		26543	A	L	26600	D	P	26685	L		26742	R		26804	A	P
26427	L		26487V2	L		26545	D	G	26605	A	L	26686	E	R	26743	L		26805	A	P
26428	L		26489V1	P		26546V1	D	P	26606	P		26689	D	P	26744	P		26806	A	P
26429	L		26489V2	P		26546V2	A	P	26608	B	P	26690	L		26745	B	G	26808	P	
26430	L		26490	A	G	26547V1	D	P	26609	P		26691	C	P	26749	A	G	26809	A	P
26431	L		26491	B	L	26547V2	P		26610	P		26694	A	G	26750	L		26812	A	R
26432	G		26496	A	G	26549		P	26612	R		26695	C	R	26751	L		26822	A	L
26433	G		26497	B	L	26550	A	L	26616V1-4	L		26696	B	R	26752	L		26823	A	P

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26831	-----R	36355	-----A-----P	36544	-----P	36619	-----G-----P	36709	-----P	37218	-----D-----G	37545	-----C-----P
26832	-----P	36360	-----P	36545	-----P	36621	-----E-----P	36710	-----P	37231	-----D-----G	37548	-----A-----P
26833	-----P	36361	-----P	36546	-----B-----L	36622	-----A-----P	36711	-----B-----L	37258	-----N-----P	37553	-----P
26835	-----L	36363	-----A-----L	36548	-----A-----L	36623	-----A-----P	36712	-----P	37259	-----E-----G	37562	-----P
26836	-----B-----R	36364	-----B-----P	36549	-----A-----P	36625	-----D-----P	36714	-----P	37279	-----D-----P	37708	-----J-----P
26839V1	-----P	36365	-----L	36550	-----P	36626	-----G-----P	36715	-----P	37292	-----D-----P	37709	-----L-----P
26839V2	-----P	36366	-----L	36551	-----B-----L	36627	-----D-----P	36716	-----P	37293	-----A-----P	37710	-----K-----P
26843	-----L	36368	-----B-----P	36552	-----C-----L	36628	-----D-----P	36717	-----A-----P	37297	-----C-----P	37714	-----B-----P
36010	-----K-----P	36369	-----P	36553	-----B-----L	36629	-----P	36718	-----P	37298	-----D-----P	37717	-----B-----P
36014	-----F-----P	36370	-----P	36554	-----B-----P	36630	-----F-----P	36719	-----P	37307	-----A-----G	37729	-----B-----P
36036	-----A-----P	36371	-----B-----P	36555	-----A-----P	36631	-----B-----P	36721	-----P	37390	-----B-----G	37740	-----P
36044	-----C-----P	36404	-----C-----P	36556	-----L	36633	-----B-----P	36722	-----A-----P	37391	-----C-----G	37741	-----P
36049	-----D-----P	36405	-----A-----P	36557	-----L	36634	-----C-----P	36723	-----P	37392	-----B-----G	37743	-----P
36052	-----A-----P	36501	-----P	36560	-----A-----P	36635	-----B-----P	36724	-----P	37393	-----B-----G	37744	-----P
36053	-----A-----P	36502	-----C-----P	36561	-----P	36636	-----B-----P	36725	-----P	37394	-----G	37746	-----P
36054	-----P	36503	-----C-----P	36562	-----P	36637	-----G-----P	36728	-----A-----P	37398	-----C-----P	37807	-----P
36060	-----P	36504	-----C-----P	36563	-----P	36638	-----D-----P	36730	-----P	37441	-----C-----G	37810	-----R
36063	-----C-----P	36509	-----P	36564	-----A-----P	36640	-----B-----P	36733	-----P	37442	-----B-----G	37827	-----P
36091	-----C-----P	36510	-----A-----P	36568	-----P	36641	-----H-----P	36734	-----P	37443	-----E-----G	37839	-----B-----G
36102	-----B-----P	36512	-----C-----P	36569	-----A-----P	36642	-----A-----P	36735	-----A-----P	37444	-----C-----G	37881	-----R
36106	-----D-----R	36513	-----P	36570	-----P	36643	-----P	36736	-----P	37446	-----K-----P	40015	-----M
36122	-----A-----G	36516	-----D-----L	36571	-----P	36644	-----P	36737	-----P	37451	-----C-----P	40053	-----B-----G
36139	-----B-----P	36516add	-----L	36573	-----P	36645	-----A-----P	36738	-----P	37455	-----C-----P	40100	-----A-----G
36173	-----G-----P	36517	-----E-----L	36576	-----P	36646	-----P	36739	-----P	37456	-----E-----P	40102	-----E-----P
36199	-----C-----P	36518	-----D-----L	36578	-----B-----P	36650	-----H-----P	36740	-----P	37481	-----A-----G	40103	-----A-----G
36209	-----A-----P	36519	-----A-----L	36579	-----P	36651	-----E-----P	36741	-----P	37482	-----A-----G	40104	-----F-----G
36300	-----D-----P	36519add	-----L	36581	-----B-----P	36652	-----H-----P	36742	-----P	37483	-----C-----G	40105	-----G
36301	-----A-----P	36520	-----L	36582	-----C-----P	36653	-----P	36743	-----P	37484	-----A-----G	40106	-----E-----P
36303	-----E-----P	36521	-----B-----L	36584	-----P	36660	-----A-----P	36744	-----P	37485	-----A-----G	40108	-----G
36314	-----P	36522	-----G-----P	36585	-----P	36661	-----A-----P	36745	-----P	37486	-----A-----G	40110	-----A-----G
36315	-----A-----P	36523	-----G-----P	36586	-----P	36662	-----B-----P	36746	-----P	37493	-----D-----P	40112	-----B-----G
36316	-----A-----P	36524	-----A-----P	36587	-----P	36670	-----P	36748	-----P	37511	-----D-----P	40115	-----G
36317	-----A-----P	36525	-----G-----P	36588	-----P	36679	-----P	36750	-----P	37512	-----H-----P	40119	-----E-----P
36318	-----A-----P	36526	-----G-----P	36589	-----P	36680	-----D-----P	36752	-----D-----P	37515	-----C-----P	40120	-----C-----G
36319	-----A-----P	36527	-----G-----P	36590	-----P	36684	-----M-----P	36753	-----L	37516	-----A-----P	40121	-----A-----G
36320	-----B-----P	36528	-----P	36597	-----P	36685	-----B-----P	37010	-----J-----P	37517	-----B-----P	40122	-----P
36321	-----A-----P	36529	-----A-----P	36598	-----A-----P	36686	-----D-----P	37013	-----M-----P	37519	-----G-----P	40123	-----P
36322	-----A-----P	36530	-----A-----P	36599	-----A-----P	36691	-----A-----P	37014	-----C-----P	37520	-----E-----P	40124	-----P
36323	-----P	36531	-----P	36600	-----G-----P	36692	-----G-----P	37017	-----A-----P	37521	-----C-----G	40125	-----A-----P
36324	-----A-----P	36532	-----P	36601	-----B-----P	36693	-----C-----P	37101	-----K-----R	37522	-----A-----P	40129	-----G
36325	-----B-----P	36533	-----P	36602	-----F-----P	36694	-----P-----P	37134	-----D-----G	37523	-----D-----P	40130	-----G
36326	-----B-----P	36534	-----P	36603	-----B-----P	36695	-----D-----P	37135	-----D-----G	37527	-----E-----G	40131	-----G
36327	-----P	36535	-----P	36604	-----M-----P	36696	-----A-----P	37168	-----E-----P	37528	-----G-----G	40132	-----D-----G
36328	-----D-----P	36536	-----B-----P	36605	-----C-----P	36697	-----P-----P	37169	-----B-----P	37531	-----D-----G	40133	-----P
36330	-----C-----P	36537	-----C-----P	36606	-----B-----P	36700	-----J-----P	37171	-----C-----P	37532	-----E-----G	40134	-----A-----P
36331	-----C-----P	36538	-----P	36607	-----P	36701	-----E-----P	37174	-----A-----P	37533	-----F-----P	40135	-----D-----P
36332	-----B-----P	36539	-----B-----L	36608	-----B-----P	36702	-----A-----P	37180	-----J-----P	37534	-----D-----G	40136	-----P
36333	-----A-----P	36540	-----P	36613	-----B-----P	36703	-----P	37184	-----C-----G	37535	-----C-----G	40138	-----M
36347	-----C-----P	36541	-----P	36614	-----E-----P	36706	-----P	37185	-----A-----P	37536	-----G	40142	-----A-----G
36348	-----P	36542	-----P	36615	-----B-----P	36707	-----P	37215	-----E-----G	37537	-----G	40143	-----G
36350	-----B-----P	36543	-----B-----P	36618	-----J-----P	36708	-----P	37217	-----D-----P	37542	-----B-----G	40144	-----G

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40146	K	G	50015	R	50087	R	51260	P	51341	P	51409	R	51478	A	P						
40148	P	G	50018	R	50088	R	51262	R	51342	A	P	51410	L	51479	P						
40152	E	P	50019	R	50089	A	R	51263	P	51343	P	51411	L	51481	A	L					
40155	A	G	50020	A	R	50090	R	51264	B	P	51344	P	51412	L	51482	P					
40157	A	G	50022	R	50092	R	51268	P	51345	P	51345	P	51414	L	51483	P					
40158	C	P	50024	R	50094	R	51269	P	51346	L	51346	L	51415	R	51484	P					
40159	E	P	50025	R	50095	R	51272	B	P	51348	B	P	51416	L	51485	L					
40161	D	P	50026	R	50500	D	P	51273	P	51349	P	51349	P	51417	B	P					
40164	R		50027	R	50511	A	P	51274	R	51351	P	51351	P	51418	A	P					
40165	R		50029	R	50516	P		51275	A	R	51352	L	51352	L	51419	R					
40166	R		50030	R	50517	B	P	51279	P	51353	A	P	51353	A	P	51421	B	R			
40167	A	G	50031	R	50524	A	P	51282	P	51354	P	51354	P	51422	R		51493	L			
40168	R		50033	R	50525	B	P	51283	R	51356	R	51356	R	51423	A	L	51494	P			
40169	K	P	50038	R	50528	A	P	51285	A	P	51357	P	51357	P	51424	C	P	51495	L		
40170	G		50039	R	50530	A	P	51287	A	R	51360	L	51360	L	51425	B	P	51496	B	L	
40171	G		50040	R	50532	P		51288	L		51362	R	51362	R	51426	P		51497	L		
40172	AB	G	50041	A	R	50533	B	P	51289	C	R	51363	P	51363	P	51428	R		51498	P	
40173	R		50043	R	50536	P		51290	L		51364	P	51364	P	51429	P		51499	C	P	
40174	G	P	50045	R	51005	E	P	51293	R	51365	L	51365	L	51431	R		51500	L			
40175	C	G	50047	R	51049	A	P	51295	P	51367	P	51367	P	51432	L		51501	P			
40176	G	P	50048	R	51090	C	P	51297	P	51369	R	51369	R	51433	R		51502	R			
40178	A	P	50050	R	51121	B	P	51299	L	51372	P	51372	P	51436	A	P	51503	R			
40179	F	P	50051	A	R	51190	P	51300	R	51373	P	51373	P	51438	P		51504	R			
40180	C	P	50052	R	51191	P		51301	P	51374	P	51374	P	51439	P		51505	R			
40181	L	G	50053	R	51192	A	P	51302	R	51375	R	51375	R	51441	R		51506	P			
40183	H	G	50055	R	51193	B	P	51303	L	51377	A	R	51377	A	R	51442	P		51507	P	
40186	D	P	50056	R	51196	P		51304	P	51380	L	51380	L	51444	P		51508	P			
40187	E	P	50061	R	51197	P		51305	B	P	51382	R	51382	R	51446	P		51510	L		
45000	B	P	50062	R	51203	C	P	51307	P	51384	L	51384	L	51447	R		51511	R			
45001	A	G	50063	B	R	51204	P	51308	P	51385	B	L	51385	B	L	51448	L		51513	R	
45002	G	G	50064	R	51208	R		51311	L	51386	L	51386	L	51449	P		51517	L			
45005	C	P	50065	A	R	51214	P	51312	L	51388	P	51388	P	51451	P		51518	L			
45009	A	G	50066	A	R	51223	P	51314	P	51389	R	51389	R	51453	B	R	51519	L			
45010	F	G	50068	R	51226	A	P	51315	P	51390	L	51390	L	51454	R		51520	L			
45011	G		50070	R	51228	A	P	51317	P	51391	L	51391	L	51455	P		51521	L			
45012	B	G	50071	B	R	51229	C	P	51318	A	R	51392	P	51392	P	51458	B	P	51527	P	
45014	B	G	50072	R	51235	P		51319	P	51393	R	51393	R	51459	P		52116	A	P		
45015	C	G	50073	A	R	51236	P	51321	A	P	51394	A	R	51394	A	R	51461	P		52117	P
45016	R		50074	R	51237	B	P	51322	P	51395	A	R	51395	A	R	51462	P		52118	P	
45021	J	P	50075	R	51238	B	P	51323	R	51396	A	L	51396	A	L	51463	P		52120	B	P
50000	A	R	50076	B	R	51239	B	P	51324	M	51397	P	51397	P	51465	A	P	52122	H	P	
50001	A	R	50077	A	R	51240	B	P	51325	P	51398	P	51398	P	51466	P		52123	K	P	
50002	R		50078	R	51241	B	P	51326	L	51399	P	51399	P	51467	P		52131	P			
50004	R		50079	R	51242	P		51330	P	51400	L	51400	L	51469	L		52132	A	P		
50005	R		50080	A	R	51243	P	51331	P	51401	B	P	51401	B	P	51470	P		52135	P	
50006	A	R	50081	A	R	51245	P	51332	P	51402	L	51402	L	51471	P		52136	P			
50007	R		50082	R	51248	A	R	51333	L	51403	L	51403	L	51472	L		52137	P			
50008	A	R	50083	A	R	51249	A	M	51334	P	51404	B	L	51404	B	L	51474	A	P	52138	P
50009	R		50084	R	51250	A	P	51335	P	51405	P	51405	P	51475	P		52139	P			
50013	R		50085	R	51253	A	P	51336	P	51407	P	51407	P	51476	P		52140	P			
50014	R		50086	R	51259	P		51338	P	51408	A	P	51408	A	P	51477	A	P	52147	P	

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52148	P	55106	P	55183	A	R	55246	R	55297	R	55348	R	82004	C	P			
54003	A	P	55110	P	55184	B	R	55247	R	55298	R	55349	R	82006	A	P		
54005	A	P	55111	P	55185	R	55248	R	55299	R	55350	L	82010	D	P			
54006	A	P	55116	A	R	55186	R	55249	R	55300	R	55351	L	82011	B	P		
54007	A	P	55117	R	55187	R	55250	R	55301	R	55352	L	82012	P				
54008	P	55118	A	R	55188	R	55251	R	55302	R	55353	R	82013	A	P			
54009	A	P	55119	R	55201	R	55252	A	R	55303	R	55723	G	82017	P			
54035	A	P	55120	R	55202	R	55253	R	55304	R	56000	AB	R	82018	A	P		
54042	D	P	55121	R	55203	R	55254	R	55305	R	56002	K	R	82020	C	P		
54047	A	P	55122	R	55204	R	55255	A	R	55306	R	56004	M	R	82021	E	P	
54050	P	55123	R	55205	R	55256	R	55307	R	56011	N	R	82022	P				
54052	B	P	55124	R	55206	R	55257	R	55308	R	56012	E	R	82023	C	P		
54053	C	P	55125	C	R	55207	R	55258	R	55309	R	56015	W	R	82028	B	R	
54054	P	55126	R	55208	R	55259	R	55310	R	56019	R	82030	P					
54055	P	55127	B	R	55209	R	55260	R	55311	R	56021	A	R	82038	E	P		
54056	B	P	55128	L	55210	A	R	55261	R	55312	R	56025	T	R	82039	P		
54063	A	P	55131	R	55211	R	55262	R	55313	R	56026	J	R	82040	M			
54065	P	55132	R	55212	R	55263	R	55314	R	56029	T	R	82042	B	P			
54066	A	P	55142	P	55213	R	55264	R	55315	R	56031	R	82044	P				
54069	P	55143	K	P	55214	R	55265	R	55316	R	56032	R	82046	P				
54086	P	55150	R	55215	R	55266	R	55317	R	56037	D	R	82047	A	P			
54087	P	55151	P	55216	R	55267	R	55318	R	56041	B	R	82048	B	P			
54088	P	55152	P	55217	R	55268	R	55319	R	56042	E	R	82052	C	P			
54089	P	55153	R	55218	R	55269	R	55320	R	56044	D	R	82301	C	P			
54090	P	55154	R	55219	A	R	55270	R	55321	R	56045	G	R	82310	D	P		
54091	P	55155	R	55220	A	R	55271	R	55322	R	56046	M	R	82313	F	P		
54092	A	P	55156	R	55221	R	55272	R	55323	R	56048	D	R	82314	D	P		
54099	P	55157	R	55222	R	55273	R	55324	R	56050	F	R	82324	A	M			
54100	A	P	55158	R	55223	R	55274	R	55325	R	56051	R	82327	F	P			
54101	P	55159	R	55224	R	55275	R	55326	A	R	56052	A	R	82328	P			
54103	A	G	55160	A	R	55225	A	R	55327	R	56053	A	R	82329	J	P		
54106	A	P	55161	R	55226	R	55276	R	55328	R	56055	F	R	82340	F	P		
54110	P	55162	R	55227	R	55277	R	55329	R	56058	A	R	82343	B	P			
54115	P	55163	R	55228	R	55278	R	55330	R	56059	B	R	82346	P				
54116	A	P	55164	R	55229	R	55279	A	R	55331	R	56064	H	R	82348	P		
54117	A	P	55165	R	55230	R	55280	R	55332	R	56065	A	R	82350	D	P		
54120	P	55166	R	55231	R	55281	R	55333	R	56072	R	82354	C	P				
55005	M	R	55167	R	55232	A	R	55282	R	56073	R	82359	P					
55008	P	55168A	R	55233	R	55283	A	R	55334	R	56080	F	R	82372	P			
55011	H	P	55171	A	R	55284	R	55335	A	R	56100	B	R	82380	B	P		
55012	P	55172	R	55234	R	55285	A	R	55336	A	R	56102	A	R	82381	E	P	
55016	P	55173	R	55235	R	55286	R	55337	A	R	56103	A	P	82386	B	P		
55021	E	P	55174	B	R	55236	R	55287	R	55338	A	R	56104	A	R	82387	B	P
55028	C	P	55175	R	55237	A	R	55288	A	R	55339	R	56105	C	R	82388	C	P
55032	P	55176	R	55238	R	55289	R	55340	R	56107	B	R	82389	R	P			
55035	P	55177	A	R	55239	R	55290	R	55341	R	56109	B	R	82390	G	P		
55036	B	P	55178	A	R	55240	R	55291	A	R	55342	R	56110	C	R	82394	C	P
55037	C	P	55179	B	R	55241	R	55292	R	55343	R	80009	C	G	82399	A	P	
55043	B	P	55180	D	R	55242	R	55293	R	55344	R	80018	A	G	82400	G	G	
55077	P	55181	R	55243	R	55294	R	55294	R	55345	A	R	80019	A	P	82429	P	
55104	P	55182	D	R	55244	R	55295	R	55346	R	82000	A	P	82434	C	P		
					55245	R	55296	R	55347	R								

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82436	G	P	85017V2	F	G	91371	E	L	FR37522	P	GR36604	M	P	JA02826	A	P	JA26334	R		
82439		P	85018V1	E	G	91372		P	FR37523	A	GR37134	D	G	JA02873	A	P	JA26343	C▲GR		
82442	A	P	85018V2	F	G	91380	M	G	FR37533	B	GR37135	D	G	JA03013	T	P	JA26378	C	R	
82448	B	P	85020		R	91401		R	FR37545	B	GR37180	G	P	JA03026	P▲R	P	JA26379		R	
82450	W	G	85108	A	P	91502V1		L	FR37548	A	GR37184	C	G	JA03036	H▲L	P	JA26442		R	
82451	V	P	85115		P	91502V2		L	FR37562		GR37215	E	G	JA03039	A▲C	P	JA26492		P	
82452		P	85116	C	P	91505	B	L	FR40146	K	GR37231	D	G	JA03040	D▲G	P	JA26577		L	
82454		P	85177	D	P	91507	B	L	FR40172	AB	GR37259	E	G	JA03043		P	JA26579	A▲D	P	
82461	A	P	85184	A	G	91510		L	FR40174	G	GR37390	B	G	JA03045		P	JA26620	D	P	
82462	A	P	85185	D	P	91514		L	FR40176	G	GR37391	C	G	JA03046		P	JA26630	D	P	
82473	B	P	85186	H	G	91515	C	L	FR45021	J	GR37392	B	G	JA03508	▲A	P	JA26709	B▲D	P	
82477	B	P	85189	J	P	91516		R	FR82329	J	GR37393	B	G	JA04026	B▲C	P	JA26818	B	P	
82483	B	P	85190	F	P	91517		M	FR82450	W	GR37394		G	JA04042	E▲L	G	JA36085		R	
82489	A	P	85191	B	G	91518	C	L	FR82451	V	GR40104	F	G	JA04048	▲C	P	JA36104	A	P	
82493	T	P	85195		G	91519		R	FR82493	T	GR45012	B	G	JA04121	G▲K	P	JA36106	▲D	P	
82499	B	P	85196		G	91520		R	FR82510	T	GR85005	G	P	JA04127	B▲C	P	JA36600	F▲G	P	
82503	D	P	85199	F	G	91522	A	R	FR82715	J	GR85549	D	P	JA04176	D▲E	P	JA36604	M	P	
82510	T	P	85201		G	91523		L	FR85005	G	GR85572	B	P	JA04177	▲A	P	JA36605	C	P	
82514	E	P	85202	H	P	91524	D	L	FR85189	J	GR91368V1	A	L	JA04504		R	JA36618	D▲J	P	
82516	Y	P	85204	H	G	91525	B	P	FR85202	H	GR91368V2	A	L	JA25071	J	P	JA36627	B▲D	P	
82540		P	85205	G	G	91526(CD)		G	FR85549	D	GR91368V3	A	L	JA26018		P	JA36636	B	P	
82543	F	P	85206	G	G	91623		P	FR85572	B				JA26053	A▲C	P	JA36650	H	P	
82558	A	P	85207	A	G				FR85578	F				JA26065	▲K	P	JA36651	E	P	
82560	N	P	85549	D	P	Alphanumeric Pubs					Italian Pubs			JA26093	P▲W	L	JA36680	C▲D	P	
82566	P	P	85555	B	G	I-SAL-004	E	P	German Pubs			IT02301	A	P	JA26094	Y▲A	L	JA36684	K▲M	P
82570	K	P	85565	E	G	SE-4049		P	DE26168	G	IT26093	W	L	JA26097	C	P	JA36692	D▲G	P	
82575	F	P	85572	B	P	SE-4050		P	DE26486	H	IT26230	P	L	JA26103	E	G	JA36693	C	P	
82599	L	P	85578	F	P	SE-4051		P	DE26525V2	A	IT26231	T	G	JA26112	E▲U	P	JA36694	N▲P	P	
82687		L	85580V1	D	G	SE-4096		P	DE26638V2	A	IT26286	M	G	JA26138	E	P	JA36695	D	P	
82688	A	L	85580V2	E	G				DE26722		IT26722		P	JA26147	E▲F	P	JA36702	A	P	
82689	B	L	85580V3	F	G	Finnish Pubs			DE26747REF	L	IT37180	G	P	JA26148		P	JA37013	D▲M	P	
82690	B	L	85580V4	J	G	FI04140	B	P	DE26747V1	L	IT37258	C	P	JA26159	A▲L	G	JA37017	▲A	P	
82694	C	R	85586V1	P	G				DE26747V2	L	IT37398	C	P	JA26160	E	R	JA37101	C▲K	R	
82696		L	85586V2	G	G	French Pubs			DE37258	A	IT37446	B	P	JA26161	B▲J	G	JA37512	G▲H	P	
82715	J	P	89005		P	FR02301	A	P	DE37398	C	IT37522		P	JA26166V1	H▲M	G	JA37515	▲C	P	
82716		P	89007	J	P	FR02877	H	P	DE37446	C	IT37523		P	JA26166V2	K▲V	G	JA37521	A1	CG	
82767	D	P	89008	A	P	FR03040	G	P	DE37456	D	IT37548		P	JA26167V1	E▲J	G	JA40146	F▲K	G	
82768	C	G	89009	B	P	FR04122	B	P	DE37522		IT37562		P	JA26167V2	D▲H	G	JA40152	C▲E	P	
83400	A	P	89012		P	FR25071	J	P	DE37523	C	IT40172	Y▲A	ABG	JA26179	F▲H	G	JA40159	C▲E	G	
83402		P	89013	A	P	FR26112	U	P	DE37527	A	IT45010	F	G	JA26214	A	R	JA40181	F▲L	G	
83403	B	P	89015	G	P	FR26114	M	P	DE37528	A	IT85005	G	P	JA26215	A	R	JA50532		P	
83404		P	89543	H	G	FR26162	H	G	DE37532	A	IT85549	D	P	JA26225	B	P	JA50536		P	
83405		P	89821	E	L	FR26722		P	DE37534	A	IT85572	B	P	JA26229	A	G	JA51273		P	
83406		P	89825	G	L	FR26745	B	G	DE37535					JA26250	A▲L	P	JA55011	F▲G	P	
83407		P	91297	B	R	FR36604	M	P	DE37548	A				JA26254	A	R	JA55043	B	P	
83408		P	91301	C	L	FR36637	G	P	DE37562					JA26256	B	R	JA80018	A	G	
83410		P	91340		R	FR36641	H	P	DE40172	Y▲A	JA02302	A▲B	P	JA26258	B	R	JA82006	A	P	
85003	A	G	91344		L	FR36684	M	P	GR02301	A	JA02770	A▲B	P	JA26303V1		R	JA82044		P	
85014	B	P	91345		L	FR37258	A	P	GR03575	B▲C	JA02785	A	P	JA26303V2		R	JA82313	E▲F	P	
85015	B	P	91346	B	L	FR37398	C	P	GR03616	C	JA02787	D	P	JA26330	G▲L	P	JA82327	E▲F	P	
85017V1	E	G	91347	B	L	FR37446	B	P	GR04122	B	JA02813	F	P	JA26333	A	R	JA82329	J	P	

JA82340-----C ▲F-P	JP37298-----C-----P	PT36684-----M-----P	RU26476-----G-----G	ES37562-----G-----P
JA82354-----C-----P	JP37520-----B ▲E P	PT37169-----B-----P	RU26501V1--E-----G	ES89821-----E-----L
JA82389-----G ▲R P	JP52122-----A ▲H P	PT37174-----A-----P	RU26501V2--G-----G	SP02301-----A-----P
JA82450-----K ▲WG	JP85005-----F-----P	PT37180-----G-----P	RU26542V1--C-----P	SP02835-----D-----R
JA82493-----R ▲T-P	JP85190-----C ▲F G	PT37217-----C-----P	RU26542V2--D-----P	SP03036-----L-----P
JA82499-----A ▲B-P	JP85549-----B ▲D P	PT37258-----E-----P	RU26542V3--D-----P	SP04122-----B-----P
JA82510-----P ▲T-P	JP85578-----F-----P	PT37456-----B-----P	RU26545-----D-----G	SP36102-----B-----P
JA82560-----M ▲NP		PT37522-----P-----P	RU26546V1--D-----P	SP36139-----B-----P
JA82566-----M ▲PP	Korean Pubs	PT37523-----P-----P	RU26546V2--A-----P	SP36173-----G-----P
JA82715-----H ▲J-P	KO51318-----A-----R	PT37527-----G-----G	RU26600-----D-----P	SP36618-----J-----P
JA85017V1---B ▲E G		PT37531-----A-----G	RU26615-----J-----G	SP36627-----D-----P
JA85017V2---C ▲F G	Polish Pubs	PT37548-----A-----P	RU26722-----P-----P	SP36684-----M-----P
JA85018V1---A ▲E G	PL26276-----R-----G	PT37562-----P-----P	RU26727-----E-----P	SP37180-----G-----P
JA85018V2---A ▲F G	PL26400-----L-----L	PT51241-----B-----P	RU26833-----P-----P	SP37258-----E-----P
JA85204-----G ▲HG	PL26486-----H-----G	PT82329-----J-----P	RU36604-----M-----P	SP37398-----P-----P
JA85205-----A ▲GG	PL37134-----D-----G	PT85202-----H-----P	RU36637-----G-----P	SP37511-----D-----P
JA85206-----A ▲GG	PL37180-----G-----P	PT85549-----D-----P	RU36684-----M-----P	SP37515-----C-----P
JA85565-----A ▲E G	PL37217-----C-----P		RU37180-----G-----P	SP82018-----A-----P
JA85580V1---B ▲D G	PL37258-----E-----P	Russian Pubs	RU37217-----B-----P	SP85549-----D-----P
JA85580V2---B ▲E G	PL37293-----A-----P	RU03253-----D-----P	RU37258-----B-----P	SP85572-----B-----P
JA85580V3---B ▲F G	PL37392-----B-----G	RU03256-----J-----P	RU37292-----B-----P	
JA85580V4---G ▲J G	PL37456-----B-----P	RU03303-----B-----P	RU37456-----E-----P	Turkish Pubs
JA89009-----B-----P	PL37522-----P-----P	RU03319-----A-----P	RU37512-----H-----P	TR26276-----R-----G
JA89015-----B ▲G P	PL37523-----A-----P	RU03342-----P-----P	RU37527-----G-----G	TR26486-----H-----G
JP02034-----P-----P	PL37548-----A-----P	RU26080-----J-----G	RU37548-----P-----P	TR37180-----G-----P
JP03106-----P-----P	PL85005-----G-----P	RU26093-----W-----L	RU40186-----D-----P	TR37217-----A-----P
JP03222-----▲B--P		RU26094-----AA-----L	RU45010-----F-----G	TR37292-----B-----P
JP03229-----▲A--P	Portuguese Pubs	RU26114-----M-----P	RU82450-----W-----G	TR37548-----P-----P
JP03231-----E ▲H P	PT02010-----C-----P	RU26162-----H-----G	RU82510-----T-----P	
JP03252-----A ▲F-P	PT02877-----H-----P	RU26185-----H-----P	RU85005-----G-----P	
JP03253-----D-----P	PT03253-----D-----P	RU26188-----M-----G	RU85186-----H-----G	
JP03256-----B ▲J-P	PT03337-----P-----P	RU26190-----V-----G	RU85189-----J-----P	
JP03326-----▲C --P	PT03352-----K-----P	RU26219-----G-----P	RU85206-----G-----G	
JP03333-----A ▲B-P	PT03370-----E-----P	RU26226-----L-----G	RU85578-----F-----P	
JP03348-----▲D --P	PT06900-----P-----P	RU26230-----P-----L		
JP04144---W ▲AC-L	PT26272-----P-----P	RU26231-----T-----G	Spanish Pubs	
JP04151-----H ▲R P	PT26558-----A-----L	RU26265-----F-----P	ES26093-----W-----L	
JP04172-----B ▲H P	PT26560-----P-----P	RU26274-----J-----R	ES26230-----P-----L	
JP25070-----C ▲D P	PT26568-----L-----L	RU26276-----R-----G	ES26231-----T-----G	
JP25075-----▲A--P	PT26615-----J-----G	RU26286-----M-----G	ES26236-----T-----G	
JP26061-----P-----P	PT26646-----R-----R	RU26305-----F-----G	ES26286-----M-----G	
JP26156-----F-----R	PT26655-----R-----R	RU26306-----J-----G	ES26545-----D-----G	
JP26438-----A-----R	PT26660-----B-----R	RU26335-----L-----G	ES26689-----C ▲D P	
JP26439-----A-----R	PT26677-----A-----R	RU26346-----F-----G	ES26722-----P-----P	
JP36614-----D ▲E P	PT26678-----R-----R	RU26374-----H-----G	ES37171-----P-----P	
JP36637-----D ▲G P	PT26722-----P-----P	RU26399-----E-----P	ES37279-----P-----P	
JP36641-----C ▲H P	PT26726-----R-----R	RU26400-----L-----L	ES37446-----C-----P	
JP37217-----A-----P	PT26738V1---L-----L	RU26413-----K-----L	ES37456-----B-----P	
JP37292-----C-----P	PT26738V2---L-----L	RU26417-----D-----L	ES37522-----P-----P	
JP37293-----A-----P	PT26819-----R-----R	RU26419-----M-----G	ES37523-----A-----P	
JP37297-----B-----P	PT36173-----G-----P	RU26475-----G-----G	ES37548-----C-----P	

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