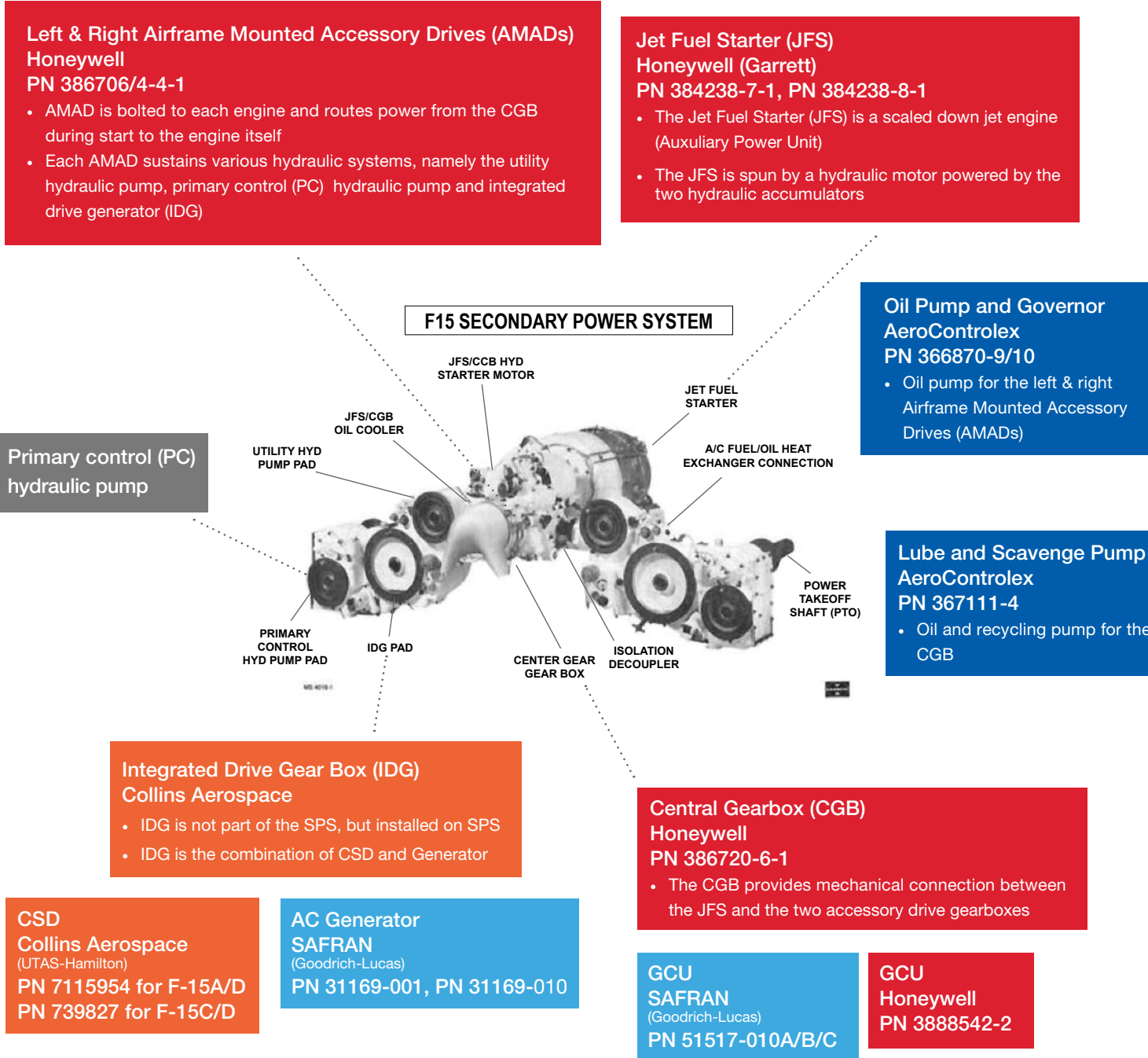


F-15 Secondary Power System, CSD & Generator

The Secondary Power System (SPS) is composed of four assemblies: the Jet Fuel Starter (JFS), the Center Gearbox (CGB), and two Airframe-Mounted Accessory Drive Gearboxes (AMADs). The SPS provides power for aircraft starting and power to the aircraft accessories once the engines are self sustaining.



F-15 Secondary Power System, GCU

Honeywell Aerospace is a leading manufacturer of aircraft engines and avionics, auxiliary power units and other aviation products including the F-15 Secondary Power System (SPS).

AllClear is an authorized distributor of Honeywell's SPS content including the Jet Fuel Starter (JFS), Central Gear Box (CGB) and the Airframe Mounted Accessory Drives (AMAD).

- PN 384238-7-1 and 384238-8-1, JFS
- PN 386720-6-1, CGB
- PN 386704-4-1 & 386706-4-1, AMAD

JFS With New GCU

New JFS GCU configuration (PN 384238-8) in F-15 fleet service since April 2016. Current operators are USAF and Singapore.

- New GCU imitates Old GCU
- Two-speed switch function in NewGCU
- Modification Eliminates JFS Two-Speed Mechanical Switch
- AMAD 50% switches not affected
- New GCU mounts to existing GCU mounting brackets

Benefits of the Upgraded GCU

- Eliminates ground aborts associated with mechanical switches (which account for about 40% of all aborts)
- Prevents Fuel Control Unit uncommanded acceleration aborts
- New GCU harness addresses burned wiring failures
- More robust and reliable GCU design reduces depot returns
- Backwards compatible with existing aircraft
- Seamless operation for pilot between old GCU and new GCU
- Operates with either P&WA or GE engines
- Engine Modification Kit (PN 3618215-2) includes the GCU as well as the other components to convert the JFS190 to the -8 configuration



**CONTROL UNIT, GENERATOR SAFRAN
PN: 3888542-2**

F-15 SPS Pumps



**GOVERNOR, PUMP,
PRESSURE REGULATING**



SWITCH & OIL PUMP ASSY

Headquartered in a 70,000 square-foot facility in Cleveland, OH, **AeroControlex** specializes in the design, development and production of pumps and mechanical systems for aerospace, defense, marine and nuclear markets.

AllClear is the stocking distributor for AeroControlex's line of pumps & controls and supports the AeroControlex F-15 Secondary Power System components.

- PN 367111-4, Lube and Scavenge Pump
- PN 366870-9, Oil Pump
- PN 366870-10, Oil Pump

F-15 A/C Generator and GCU

Safran Electrical & Power is the world leader in electrical systems providing the best electrical energy to power all types of military fixed and rotary wing platforms. Safran's expertise lies with the entire onboard electrical power chain.

AllClear is a proud worldwide stocking distributor for Safran Electrical & Power on the F-15.

AllClear supports Safran Electrical & Power on the F-15.

- PN 31169-010, AC Generator
- PN 51517-010A/B/C, AC Generator Control Unit





F-15 Constant Speed Drive (CSD)

CSDs were designed in the 1970s and 1980s. F-15 variants use different version of CSDs.

Collins (UTAS/Hamilton Sundstrand) continues to improve reliability of the CSD by applying current technology and offers upgrade kits to increase MTBF.



AllClear is the worldwide stocking distributor for Collins (UTAS/Hamilton Sundstrand)'s F-15 CSD and has significant inventory at the LRU and subcomponent levels. AllClear has also signed a Manufacturing License Agreement with Collins (UTAS/Hamilton Sundstrand) to be exclusive source for the F-15 Constant Speed Drive (CSD) unique and common parts and/or components for military applications including U.S. Government Foreign Military Sales (FMS) solicitations.

F-15 CSD Upgrades

MMB-1477 APPLICATION: Collins (UTAS/Hamilton Sundstrand) issued Military Modification Bulletin (MMB-1477) for Modification of Constant Speed Drive (CSD), Model 50IDG02A, part number **711595 series**, used on F-15 aircraft. This modification is applicable to CSDs all serial numbers prior to serial number 2948. Upgrade parts are contained in Parts Kit **174-71** and in (Idler) Gear Set Parts Kit **174-44**. These kits should be implemented in first OH cycle as a whole kit. If all PNs are not replaced during this installation there is a risk to the integrity of the upgrade.

REASON FOR MMB BULLETIN: is to incorporate improvements using commercial technology consisting of TiN coated wobblers, improved slippers, crowned pistons, and an extended service filter in CSD. These improvements are standard CSD design and will improve the mean time between failures (MTBF) for this CSD

assembly. In addition, a new pressure fill adaptor assembly is incorporated to prevent the unit from being overfilled with oil. If not already done, a more robust idler shaft assembly is incorporated.

REFERENCE: This MMB effects Collins (UTAS/Hamilton Sundstrand) Engineering Changes 50077E, 08B208, and 09E101; CSD Overhaul Instructions, Technical Order (T.O.) 9H6-3-36-3; CSD Illustrated Parts Breakdown T.O. 9H6-3-36-4; HCollins (UTAS/Hamilton Sundstrand) Engineering Drawings 711596, 712087, 712088, 739546, 739547, and 744382; Collins (UTAS/Hamilton Sundstrand) Parts Kits 174-44 and 174-71.

IDENTIFICATION: After completion of the MMB-1477 mark the symbol MMB1477 on the modification plate 656762 by using the metal stamp method.



MMB-1513 APPLICATION: This bulletin is applicable to Collins (UTAS/Hamilton Sundstrand) Constant Speed Drive (CSD), Model 75IDG10, part number **739827 series**, all serial numbers, used on **F-15E** aircraft.

REASON FOR MMB-1513 BULLETIN; is to incorporate improvements using commercial technology consisting of TiN coated wobblers, new cylinder block assy, improved slippers and crowned pistons. These improvements are standard CSD design and will improve the mean time between failures (MTBF) for this assembly. In addition, process improvements have been incorporated in a new splined input shaft to help improve the life of the carbon seal. This MMB modifies sub components in Center Housing Assembly, Differential Assembly, Left/Right Hand Pump and Motor Assembly. These parts are contained in Parts Kit 174-98.

REFERENCE: This MMB effects Collins (UTAS/Hamilton Sundstrand) CSD Overhaul Instructions (OHi) T.O. 9H6-5-14-3; Illustrated Parts Breakdown (IPB) T.O. 9H6-5-14-4; Collins (UTAS/Hamilton Sundstrand) Engineering Changes EC15B037 and EC17B843; Collins (UTAS/Hamilton Sundstrand) 75IDG10 Parts Kit **174-98**. These kits should be implemented in first OH cycle as a whole kit. If all PN's are not replaced during this installation there is a risk to the integrity of the upgrade.

IDENTIFICATION: After completion of the MMB-1513 mark the symbol MMB1513 on the modification plate 656762 by using the metal stamp method.

MMB-1538 APPLICATION: This modification is applicable to Collins (UTAS/Hamilton Sundstrand) Constant Speed Drive CSDs, part number 739827 series, Model 75IDG10, used on F-15E aircraft which contain the (shimmed) control piston and pushrod assembly PN 733753.

REASON FOR MMB-1538 BULLETIN: To incorporate a wavy washer loaded control piston in place of the existing shimmed control piston. This will reduce the chance of improper shimming. This MMB modifies sub components in Center Housing Assembly, Right Hand Pump and Motor Assembly, Control Piston and Pushrod Assembly. The required parts are contained in Control Piston Kit 174-120.

REFERENCE: This MMB effects Collins (UTAS/Hamilton Sundstrand) CSD Overhaul Instructions (OHi) T.O. 9H6-5-14-3, Illustrated Parts Breakdown (IPB) T.O. 9H6-5-14-4, Standard Practices Manual (SPM) T.O. 9H6-1-113, Collins (UTAS/Hamilton Sundstrand) Engineering Change (EC) 56506E, and Collins (UTAS/Hamilton Sundstrand) Control Piston Kit **174-120**. These kits should be implemented in first OH cycle as a whole kit. If all PN's are not replaced during this installation there is a risk to the integrity of the upgrade.

IDENTIFICATION: Incorporation of this bulletin advances the part number of the right hand pump and motor assembly from 742730 to 742730A. Mark the symbol MMB1538 on the modification plate.

APPLICABLE PLATFORM	PRODUCT	MODEL	MMB	KIT PN	APPLICATION PN	APPLICATION MSN	T.O.	PURPOSE OF KIT
F-15	CSD	50IDG02A	1477	174-71, 174-44	711595 (B,G,H,J,L,M)	1650-01-096-4603, 1650-00-132-2785, 1650-01-268-1673, 1650-01-438-0943	T.O. 9H6-3-36-3	Incorporate improvements using commercial technology consisting of Tin coated wobblers, improved slippers, crowned pistons and an extended service filter in CSD.
F-15E	CSD	75IDG10	1513	174-98	739827 (A,B)	1650-01-240-0068, 1650-01-313-4227	T.O. 9H6-5-14-4	Incorporate improvements using commercial technology consisting of TiN coated wobblers, new cylinder block assy, improved slippers and crowned pistons.
F-15E	CSD	75IDG10	1538	174-120	739827 (A,B)	1650-01-240-0068, 1650-01-313-4227	T.O. 9H6-5-14-3	Incorporate a wavy washer loaded control piston in place of the existing shimmed control piston. This will reduce the chance of improper shimming.



PART DESCRIPTION	NSN	PN	ALT PN	CAGE CODE	OEM
GOVERNOR, PUMP PRESSURE	4320-01-189-1410	366870-10		81833	AEROCONTROLEX
SWITCH ASSY.	5930-01-035-1769	366271-3		81833	AEROCONTROLEX
HOUSING & END PLATE ASSEMBLY	2990-01-259-0589	366871-4		81833	AEROCONTROLEX
BEARING, WASHER, THRUST	3120-00-340-9507	365385-1		81833	AEROCONTROLEX
CABLE, CONTROL	N/A	515MV003-384M		81833	AEROCONTROLEX
GEARSHAFT,SPUR	3040-01-004-0628	366874-2		81833	AEROCONTROLEX
HOUSING,OIL PUMP AS	2990-01-259-0588	366871-3		81833	AEROCONTROLEX
NUT, RETAINING, OIL PUMP	5310-01-003-9914	366911-1		81833	AEROCONTROLEX
OIL PUMP ASSEMBLY (GOVERNOR PUMP PRESSURE REG)	4320-01-189-1409	366870-9		81833	AEROCONTROLEX
RING,ECCENTRIC,PUMP ROTOR	2835-01-003-8993	366916-2		81833	AEROCONTROLEX
ROTOR SET	2835-00-526-4556	365224-8		81833	AEROCONTROLEX
ROTOR SET,PUMP,MATCHED	2835-01-003-8991	366726-4		81833	AEROCONTROLEX
SCREW, CAP	5305-01-435-4036	365320-4		81833	AEROCONTROLEX
SPRING, HELICAL, COMPRESSION	2835-01-134-7336	367508-1		81833	AEROCONTROLEX
TERMINAL,LUG	5940-01-600-2456	366955-1		81833	AEROCONTROLEX
VALVE REGULATOR	4820-01-003-1390	366919-2		81833	AEROCONTROLEX
VALVE, REGULATOR	4820-01-004-6588	367056-2		81833	AEROCONTROLEX
AVIONICS COOLING UNIT	6685-01-178-7635	11261-2		73030	Collins Aerospace
BOLT,MACHINE	5306-01-321-1992	69336-262		73030	Collins Aerospace
O-RING	5331-00-138-0094	69494J8		73030	Collins Aerospace
BALL, SLIPPER RETAINER	3110-01-493-4027	714046		73030LF15	Collins Aerospace
CONNECTOR,TRANSFER	4730-00-291-6275	713138		73030LF15	Collins Aerospace
DISC,SEAL,CONSTANT	1650-00-286-2303	709218		73030LF15	Collins Aerospace
FIXED WOBBLER	N/A	766669		73030LF15	Collins Aerospace
HOUSING GOV	2915-01-507-7903	1701245		73030LF15	Collins Aerospace
HOUSING, PORTING, SCAVENGE PUMP	1650-01-140-5914	712189		73030LF15	Collins Aerospace
JET,LUBE ASSEMBLY	1680-01-004-5348	710585		73030LF15	Collins Aerospace
PISTON,VALVE	1650-00-993-7093	695419		73030LF15	Collins Aerospace
PLUG,SELF CLOSING	4730-00-288-4121	56251		73030LF15	Collins Aerospace
RETAINER, SLIPPER	1650-01-493-4245	762482		73030LF15	Collins Aerospace
ROD,PISTON,LINEAR ACTUATING CYLINDER	1650-01-422-9405	707010		73030LF15	Collins Aerospace
SEAT,BEARING	3110-01-507-5392	754286		73030LF15	Collins Aerospace
SPRING, HELICAL, COMPRESSION	5360-01-095-3658	726413		73030LF15	Collins Aerospace
TUBE ASSY,INLET INSEPARABLE	1650-01-153-8576	735946		73030LF15	Collins Aerospace
WASHER KEY	5310-00-570-0404	707763		73030LF15	Collins Aerospace
BEARING,BALL,ANNULAR	3110-01-054-6334	5902022		99167	Collins Aerospace
BEARING,SLEEVE	3120-01-245-5081	746345		99167	Collins Aerospace
BEARING,SLEEVE	3120-01-080-5047	728485		99167	Collins Aerospace
CYLINDER BLOCK & PIN ASSEMBLY	1650-01-449-1612	766240		99167	Collins Aerospace
GASKET	5330-01-248-2710	742856		99167	Collins Aerospace
PLUG, TUBE FITTING	4730-01-325-8023	5906344		99167	Collins Aerospace
RETAINER	3110-00-282-0355	1707679-9		99167	Collins Aerospace
RETAINER,PACKING	5330-01-248-0857	55465-8		99167	Collins Aerospace
RETAINER,ROLLER,BEA	3110-01-032-9349	1707680-5		99167	Collins Aerospace
RETAINER,ROLLER,BEARING	3110-00-282-0408	1707680-4		99167	Collins Aerospace
RING,BEARING,OUTER	3110-01-266-2183	742825		99167	Collins Aerospace
RING,LABYRINTH	2915-01-200-3483	5007943		99167	Collins Aerospace
RING,RETAINING	5325-00-913-0078	3415-168S		99167	Collins Aerospace
ROLLER	3110-00-991-4333	27648		99167	Collins Aerospace
SEAL	5330-01-188-0631	5006868		99167	Collins Aerospace
SEAL,NONMETALLIC STRIP	5330-01-248-0871	57438		99167	Collins Aerospace
SHAFT,SHOULDERED	3040-01-246-5544	742099		99167	Collins Aerospace
SOLDER, TIN ALLOY	3439-01-439-5525	765611		99167	Collins Aerospace
SPRING, HELICAL COMPRESSION	5360-01-036-7810	701686		99167	Collins Aerospace

PART DESCRIPTION	NSN	PN	ALT PN	CAGE CODE	OEM
VALVE PLATE, HYDRAULIC MOTOR-PUMP	1650-01-246-5618	742822A		99167	Collins Aerospace
ADAPTER ASSEMBLY,FI	4730-00-523-1479	366733-1		99193	HONEYWELL
ADAPTER ASSY, GEARBOX	4730-01-396-5072	367879-1		99193	HONEYWELL
ADAPTER,PRESS FILL	4730-00-317-3189	366058-1		99193	HONEYWELL
ADAPTER,SIGHT GLASS	2835-01-003-8986	367235-1		99193	HONEYWELL
ADAPTOR, FITTING	2835-01-245-7955	367772-2		99193	HONEYWELL
BEARING BALL	3110-01-038-9418	367338-1		99193	HONEYWELL
BEARING BALL	3110-00-342-2484	365277-1		99193	HONEYWELL
BEARING, BALL, ANNULAR	3110-00-342-2487	365364-1		99193	HONEYWELL
BEARING, BALL, ANNULAR	3110-00-311-1306	365164-1		99193	HONEYWELL
BEARING, BALL, THRUST	3110-00-338-7514	364948-1		99193	HONEYWELL
COMBUSTION CHAMBER, ANNULAR	2835-01-473-2612	367741-2		99193	HONEYWELL
CONNECTOR,FUEL CONT	2910-01-003-8962	367165-1		99193	HONEYWELL
COUPLING HALF, SHAFT	3010-01-003-6448	366929-1		99193	HONEYWELL
COVER ASSEMBLY,FILT	2910-01-008-6099	365809-1		99193	HONEYWELL
COVER ASSY BRG CONT	5340-01-329-9824	367708-3		99193	HONEYWELL
COVER ASSY. BEARING, PWR CONTROL	2835-00-307-2757	365496-1		99193	HONEYWELL
COVER,BEARING	5340-01-465-4133	367862-1		99193	HONEYWELL
DIFFUSER ASSEMBLY,C	2835-00-309-5760	364921-1		99193	HONEYWELL
FAN AXIAL	2835-01-034-6929	367255-1		99193	HONEYWELL
FLANGE	2910-01-003-8954	367206-1		99193	HONEYWELL
FLANGE, GEARBOX	2835-01-394-8452	367852-6		99193	HONEYWELL
FLANGE,GEARBOX	2835-01-394-8451	367852-5		99193	HONEYWELL
GEAR ASSY.	3020-00-102-6427	366882-1		99193	HONEYWELL
GEAR, SPUR	3020-01-231-7123	367711-1		99193	HONEYWELL
GEAR, SPUR	3020-00-325-3263	365358-1		99193	HONEYWELL
GEAR,SPUR	3020-00-320-5204	365005-2		99193	HONEYWELL
GEARSHAFT	3040-01-228-9265	367733-5		99193	HONEYWELL
GEARSHAFT FACE	3040-00-317-3199	365083-1		99193	HONEYWELL
GEARSHAFT, SPUR GEN	3040-01-229-1855	367701-1		99193	HONEYWELL
GEARSHAFT,SPUR	3040-00-435-9456	366626-1		99193	HONEYWELL
GLASS, LIQUID SIGHT	6680-01-007-7245	367335-1		99193	HONEYWELL
GUIDE SPR	2910-00-298-7572	365760-1		99193	HONEYWELL
HOUSING	6680-01-034-8789	367336-2		99193	HONEYWELL
HOUSING ASSEMBLY, ACCESSO	2835-01-234-8658	367722-4		99193	HONEYWELL
HOUSING ASSEMBLY, ACCESSO	2835-01-298-4537	367042-2		99193	HONEYWELL
HOUSING ASSEMBLY, ACCESSO	2835-01-234-8659	367732-4		99193	HONEYWELL
HOUSING, ISOLATION	2835-01-003-8997	367134-1		99193	HONEYWELL
HOUSING,DECOUPLER	2835-01-003-9001	366526-2		99193	HONEYWELL
HSG., SEAL, PT - COVER LBYR SEAL	2840-01-465-7589	365808-1		99193	HONEYWELL
IGNITION UNIT, VOLTAGE	2920-00-138-3302	367051-2		99193	HONEYWELL
IMPELLER, COMPRESSOR	2835-00-309-5712	364920-7		99193	HONEYWELL
INDICATOR PRESSURE	6685-01-471-3527	365683-4		99193	HONEYWELL
KEY FL	5315-00-372-8774	366544-1		99193	HONEYWELL
LINER, PUMP	4320-00-427-8917	366420-2		99193	HONEYWELL
LUBE JET,DRIVE SHAF	2835-00-548-8168	365901-1		99193	HONEYWELL
MOUNT UPR.	2835-00-550-7446	366997-1		99193	HONEYWELL
NOZZLE JET SCAV. PMP.	2840-01-294-8893	367799-1		99193	HONEYWELL
NOZZLE LUB	2835-00-323-7844	365391-1		99193	HONEYWELL
NOZZLE LUBRICATING	2835-00-298-9250	365391-2		99193	HONEYWELL
NOZZLE,LUBRICATING, ASSY.	2835-00-321-4968	365399-1		99193	HONEYWELL
PIN, SHOULDER, HEADLESS	5315-00-317-4558	365421-1		99193	HONEYWELL
PIN, STRAIGHT, HEADLESS	5315-01-056-4014	366531-2		99193	HONEYWELL
PLATE RTNG.	3110-00-611-2423	367130-2		99193	HONEYWELL
PLATE, VALVE, RETAINING	2835-01-003-1391	367061-1		99193	HONEYWELL
PLENUM ASSEMBLY,COM	2835-01-593-8358	367263-3		99193	HONEYWELL

PART DESCRIPTION	NSN	PN	ALT PN	CAGE CODE	OEM
PLUG,MACHINE THREAD	5365-00-302-0776	365717-1		99193	HONEYWELL
PUMP HOUSING	4320-01-034-6935	366718-3		99193	HONEYWELL
RATCHET WHEEL	3020-00-303-3423	365203-1		99193	HONEYWELL
RETAINER	2835-01-034-6937	365279-3		99193	HONEYWELL
RETAINER BRG.	3110-00-556-7080	366883-1		99193	HONEYWELL
RETAINER NUT	2835-00-298-9311	365425-1		99193	HONEYWELL
RETAINER, OIL RING	5330-01-480-0429	365211-8		99193	HONEYWELL
RETAINER, OIL SEAL	5330-01-038-5033	367428-3		99193	HONEYWELL
RETAINER, SEAL	5330-01-397-6572	367802-2		99193	HONEYWELL
RETAINER, SPRING	2910-01-003-8975	365817-1		99193	HONEYWELL
RETAINER,BELLOWS,FUEL CONTROL	2910-00-298-7594	365762-1		99193	HONEYWELL
RETAINER,HELICAL COMPRESSION SPRING	5340-00-309-5989	365135-1		99193	HONEYWELL
ROTOR	2835-01-019-1192	367423-1		99193	HONEYWELL
ROTOR SEAL	6115-00-377-9157	366616-1		99193	HONEYWELL
ROTOR, LUBE PUMP	2835-00-315-0132	366020-4		99193	HONEYWELL
SCREEN ASSEMBLY,OIL PUMP	2835-01-003-8998	366875-1		99193	HONEYWELL
SCREW,ADJUSTING,PIS	2910-00-298-7560	365712-1		99193	HONEYWELL
SHAFT DR.	2835-00-309-5684	365513-2		99193	HONEYWELL
SHAFT PIN	3040-00-321-3943	366486-1		99193	HONEYWELL
SHAFT SET	2910-01-003-8955	367164-1		99193	HONEYWELL
SHAFT, SHOULDERE	3040-01-232-0576	367704-2		99193	HONEYWELL
SHAFT, TURBINE	2835-01-465-7679	366931-2		99193	HONEYWELL
SHROUD GEAR	2835-00-550-7506	367195-1		99193	HONEYWELL
SHROUD IMPLR.	2835-00-307-2763	364950-2		99193	HONEYWELL
SPRING,HELICAL,COMPRESSION	5360-01-039-8042	365795-2		99193	HONEYWELL
STATOR MOTOR	6105-01-466-1067	367261-3		99193	HONEYWELL
STATOR, ASSY	2835-01-465-8787	364967-4		99193	HONEYWELL
STUB-SHAFT, COUPLING	2835-00-312-1220	366124-1		99193	HONEYWELL
STUD THD	5307-00-545-8592	367194-1		99193	HONEYWELL
SUPPORT ASSEMBLY	2915-01-593-7778	3618279-2		99193	HONEYWELL
SWITCH,PRESSURE	5930-01-034-4200	365703-4		99193	HONEYWELL
TEE,TUBE	4730-00-323-7294	365077-1		99193	HONEYWELL
THROAT AND TUBE ASS	2835-01-041-5694	365860-3		99193	HONEYWELL
TRANSMITTER, PRESSURE	6685-01-043-4750	367083-3		99193	HONEYWELL
TUBE ASSEMBLY	4710-00-551-6039	367025-1		99193	HONEYWELL
TUBE ASSEMBLY, AIRCRAFT ENGINE FUEL CONTROL	2915-01-465-8804	367865-1		99193	HONEYWELL
TUBE ASSEMBLY,METAL	4710-01-007-2912	365805-1		99193	HONEYWELL
TUBE ASSEMBLY,METAL	4710-01-034-4802	367477-1		99193	HONEYWELL
TUBE CUSH.	2835-00-322-0744	366443-2		99193	HONEYWELL
TUBE TRANS	4710-01-005-7038	366993-1		99193	HONEYWELL
TUBE, ASSY	4710-01-465-8278	3617703-1		99193	HONEYWELL
TUBE,FUEL	4710-01-082-0371	366108-1		99193	HONEYWELL
TUBE,TRANSFER,FUEL	2910-00-308-2965	365684-1		99193	HONEYWELL
VALVE ASSY CHK AND RLF	4820-01-465-9624	367004-6		99193	HONEYWELL
VALVE CHK.	4820-00-123-3034	367060-1		99193	HONEYWELL
VALVE CHK. FUEL	4820-01-248-0872	367638-3		99193	HONEYWELL
VALVE, CHECK	4820-01-277-2696	367638-4		99193	HONEYWELL
VALVE, SHUTTLE	4820-01-465-9632	365991-9		99193	HONEYWELL
VALVE,CHECK	4820-01-606-3106	3617028-2		99193	HONEYWELL
VENTURI, CAVITATION	2835-00-349-2653	365488-4		99193	HONEYWELL
AC GENERATOR	6115-01-234-5860	31169-010		31435	SAFRAN ELECTRICAL & POWER
Control, Generator	6110-01-230-5147	51517-010A/B/C		31435	SAFRAN ELECTRICAL & POWER
AC GENERATOR	6115-01-234-5860	31169-90		3CPE0	SAFRAN ELECTRICAL & POWER