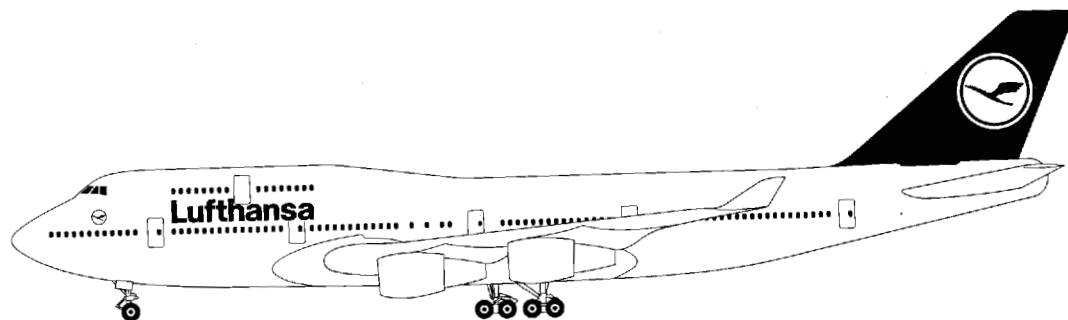


Training Manual

B747-430

ATA 71-80

Practical Training
Handbook



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Lufthansa

TECHNISCHE SCHULUNG



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ATA 71-80 ENGINE

ATA 71-00 POWER PLANT

COMPONENT INDEX AND LOCATION



POWER PLANT

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
COWL - INLET, ENG 1	1	1	413,414, FAN COWL PANELS, FAN CASE	71-11-01
COWL - INLET, ENG 2	1	1	423,424, FAN COWL PANELS, FAN CASE	71-11-01
COWL - INLET, ENG 3	1	1	433,434, FAN COWL PANELS, FAN CASE	71-11-01
COWL - INLET, ENG 4	1	1	443,444, FAN COWL PANELS, FAN CASE	71-11-01
DOOR - CORE COWL PRESSURE RELIEF, 418A, ENG 1	2	1	418, RIGHT CORE COWL PANEL	71-11-09
DOOR - CORE COWL PRESSURE RELIEF, 428A, ENG 2	2	1	428, RIGHT CORE COWL PANEL	71-11-09
DOOR - CORE COWL PRESSURE RELIEF, 438A, ENG 3	2	1	438, RIGHT CORE COWL PANEL	71-11-09
DOOR - CORE COWL PRESSURE RELIEF, 448A, ENG 4	2	1	448, RIGHT CORE COWL PANEL	71-11-09
DOOR - FAN COWL PRESSURE RELIEF, 413A, ENG 1	1	1	413, LEFT FAN COWL PANEL	71-11-08
DOOR - FAN COWL PRESSURE RELIEF, 423A, ENG 2	1	1	423, LEFT FAN COWL PANEL	71-11-08
DOOR - FAN COWL PRESSURE RELIEF, 433A, ENG 3	1	1	433, LEFT FAN COWL PANEL	71-11-08
DOOR - FAN COWL PRESSURE RELIEF, 443A, ENG 4	1	1	443, LEFT FAN COWL PANEL	71-11-08
DOOR - OIL TANK ACCESS, 414A, ENG 1	1	1	414, RIGHT FAN COWL PANEL	71-11-10
DOOR - OIL TANK ACCESS, 424A, ENG 2	1	1	424, RIGHT FAN COWL PANEL	71-11-10
DOOR - OIL TANK ACCESS, 434A, ENG 3	1	1	434, RIGHT FAN COWL PANEL	71-11-10
DOOR - OIL TANK ACCESS, 444A, ENG 4	1	1	444, RIGHT FAN COWL PANEL	71-11-10
LATCH - CORE COWL, ENG 1	2	3	417,418, CORE COWL PANELS	71-11-07
LATCH - CORE COWL, ENG 2	2	3	427,428, CORE COWL PANELS	71-11-07
LATCH - CORE COWL, ENG 3	2	3	437,438, CORE COWL PANELS	71-11-07
LATCH - CORE COWL, ENG 4	2	3	447,448, CORE COWL PANELS	71-11-07
LATCH - FAN COWL, ENG 1	2	3	413,414, FAN COWL PANELS	71-11-05
LATCH - FAN COWL, ENG 2	2	3	423,424, FAN COWL PANELS	71-11-05
LATCH - FAN COWL, ENG 3	2	3	433,434, FAN COWL PANELS	71-11-05
LATCH - FAN COWL, ENG 4	2	3	443,444, FAN COWL PANELS	71-11-05
MAST - DRAIN, ENG 1	3	1	415,416, THRUST REVERSER HALVES, FAN CASE	71-71-01
MAST - DRAIN, ENG 2	3	1	425,426, THRUST REVERSER HALVES, FAN CASE	71-71-01
MAST - DRAIN, ENG 3	3	1	435,436, THRUST REVERSER HALVES, FAN CASE	71-71-01
MAST - DRAIN, ENG 4	3	1	445,446, THRUST REVERSER HALVES, FAN CASE	71-71-01
MODULE - DRAIN, ENG 1	3	1	415, LEFT THRUST REVERSER HALF, MAIN GEARBOX, AFT FACE	71-71-02
MODULE - DRAIN, ENG 2	3	1	425, LEFT THRUST REVERSER HALF, MAIN GEARBOX, AFT FACE	71-71-02
MODULE - DRAIN, ENG 3	3	1	435, LEFT THRUST REVERSER HALF, MAIN GEARBOX, AFT FACE	71-71-02
MODULE - DRAIN, ENG 4	3	1	445, LEFT THRUST REVERSER HALF, MAIN GEARBOX, AFT FACE	71-71-02
MOUNT - AFT ENGINE, ENG 1	3	1	417,418, CORE COWL PANELS, TURBINE REAR FRAME	71-21-02
MOUNT - AFT ENGINE, ENG 2	3	1	427,428, CORE COWL PANELS, TURBINE REAR FRAME	71-21-02
MOUNT - AFT ENGINE, ENG 3	3	1	437,438, CORE COWL PANELS, TURBINE REAR FRAME	71-21-02
MOUNT - AFT ENGINE, ENG 4	3	1	447,448, CORE COWL PANELS, TURBINE REAR FRAME	71-21-02

Power Plant - Component Index
Figure 101 (Sheet 1)

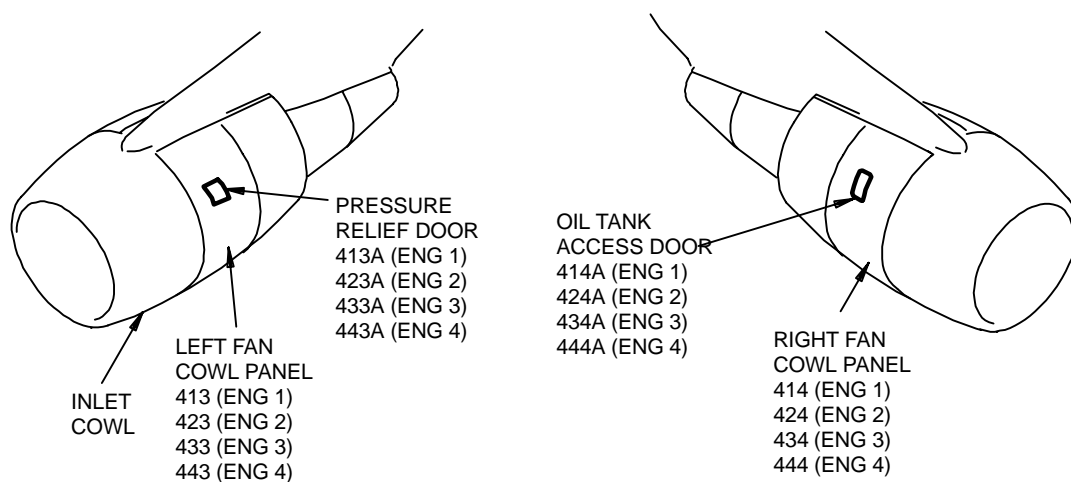
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Figure 1 71-00 Power Plant Component Index Fig. 101 (Sheet 1)



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
MOUNT - FORWARD ENGINE, ENG 1	3	1	415,416, THRUST REVERSER HALVES, FAN FRAME, AFT SIDE	71-21-01
MOUNT - FORWARD ENGINE, ENG 2	3	1	425,426, THRUST REVERSER HALVES, FAN FRAME, AFT SIDE	71-21-01
MOUNT - FORWARD ENGINE, ENG 3	3	1	435,436, THRUST REVERSER HALVES, FAN FRAME, AFT SIDE	71-21-01
MOUNT - FORWARD ENGINE, ENG 4	3	1	445,446, THRUST REVERSER HALVES, FAN FRAME, AFT SIDE	71-21-01
PANEL - CORE COWL, ENG 1	2	2	417,418, CORE COWL PANELS	71-11-06
PANEL - CORE COWL, ENG 2	2	2	427,428, CORE COWL PANELS	71-11-06
PANEL - CORE COWL, ENG 3	2	2	437,438, CORE COWL PANELS	71-11-06
PANEL - CORE COWL, ENG 4	2	2	447,448, CORE COWL PANELS	71-11-06
PANEL - FAN COWL, ENG 1	2	2	413,414, FAN COWL PANELS	71-11-04
PANEL - FAN COWL, ENG 2	2	2	423,424, FAN COWL PANELS	71-11-04
PANEL - FAN COWL, ENG 3	2	2	433,434, FAN COWL PANELS	71-11-04
PANEL - FAN COWL, ENG 4	2	2	443,444, FAN COWL PANELS	71-11-04
ROD - HOLD-OPEN, ENG 1	2	6	413,414, FAN COWL PANELS 417,418, CORE COWL PANELS	71-11-11
ROD - HOLD-OPEN, ENG 2	2	6	423,424, FAN COWL PANELS 427,428, CORE COWL PANELS	71-11-11
ROD - HOLD-OPEN, ENG 3	2	6	433,434, FAN COWL PANELS 437,438, CORE COWL PANELS	71-11-11
ROD - HOLD-OPEN, ENG 4	2	6	443,444, FAN COWL PANELS 447,448, CORE COWL PANELS	71-11-11

Power Plant - Component Index
Figure 101 (Sheet 2)

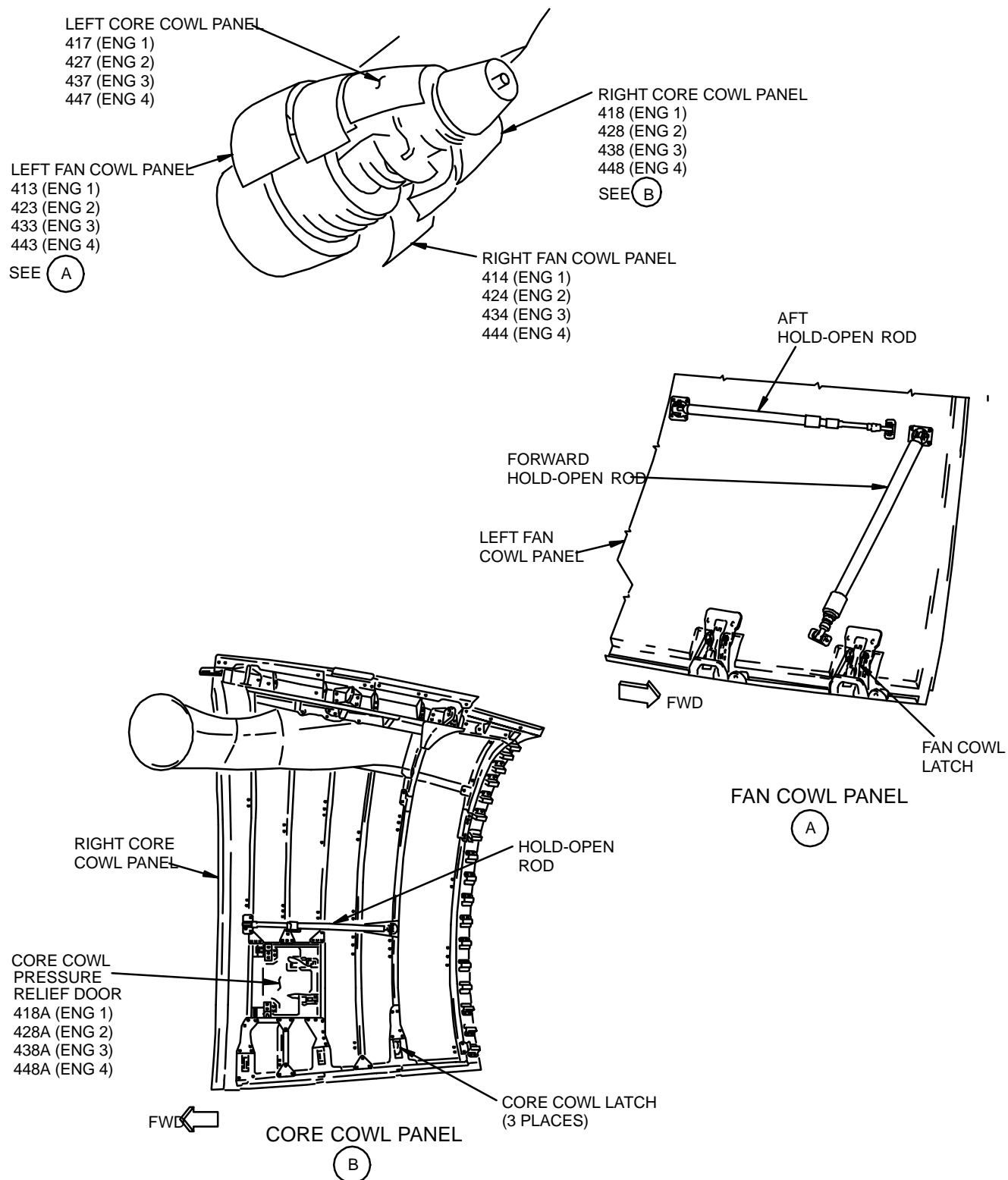


Power Plant - Component Location
Figure 102 (Sheet 1)

Figure 2 71-00 Power Plant Component Index /Location Fig. 102 (Sheet 1)

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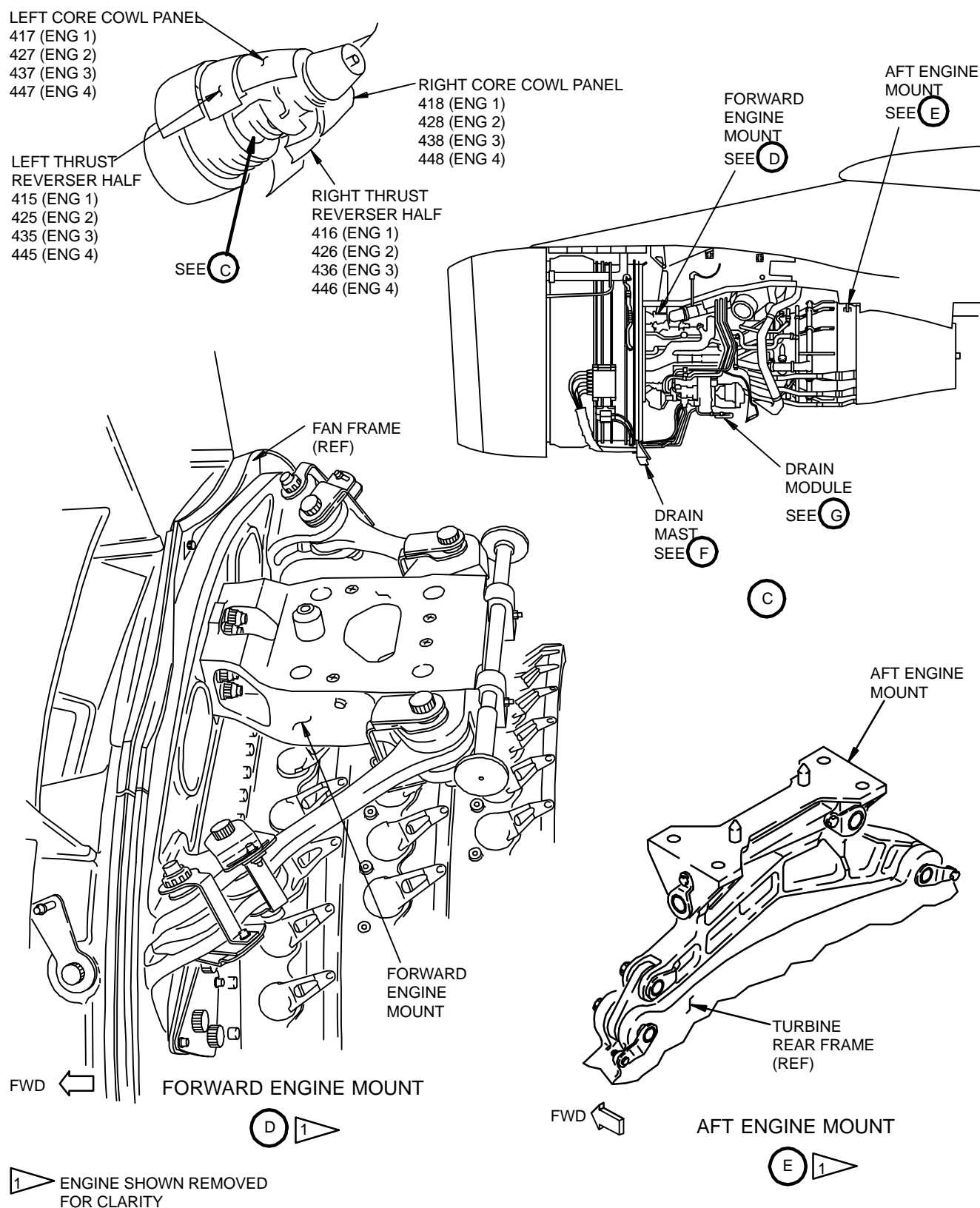


Power Plant - Component Location
Figure 102 (Sheet 2)

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Figure 3 71-00 Power Plant Component Location Fig. 102 (Sheet 2)

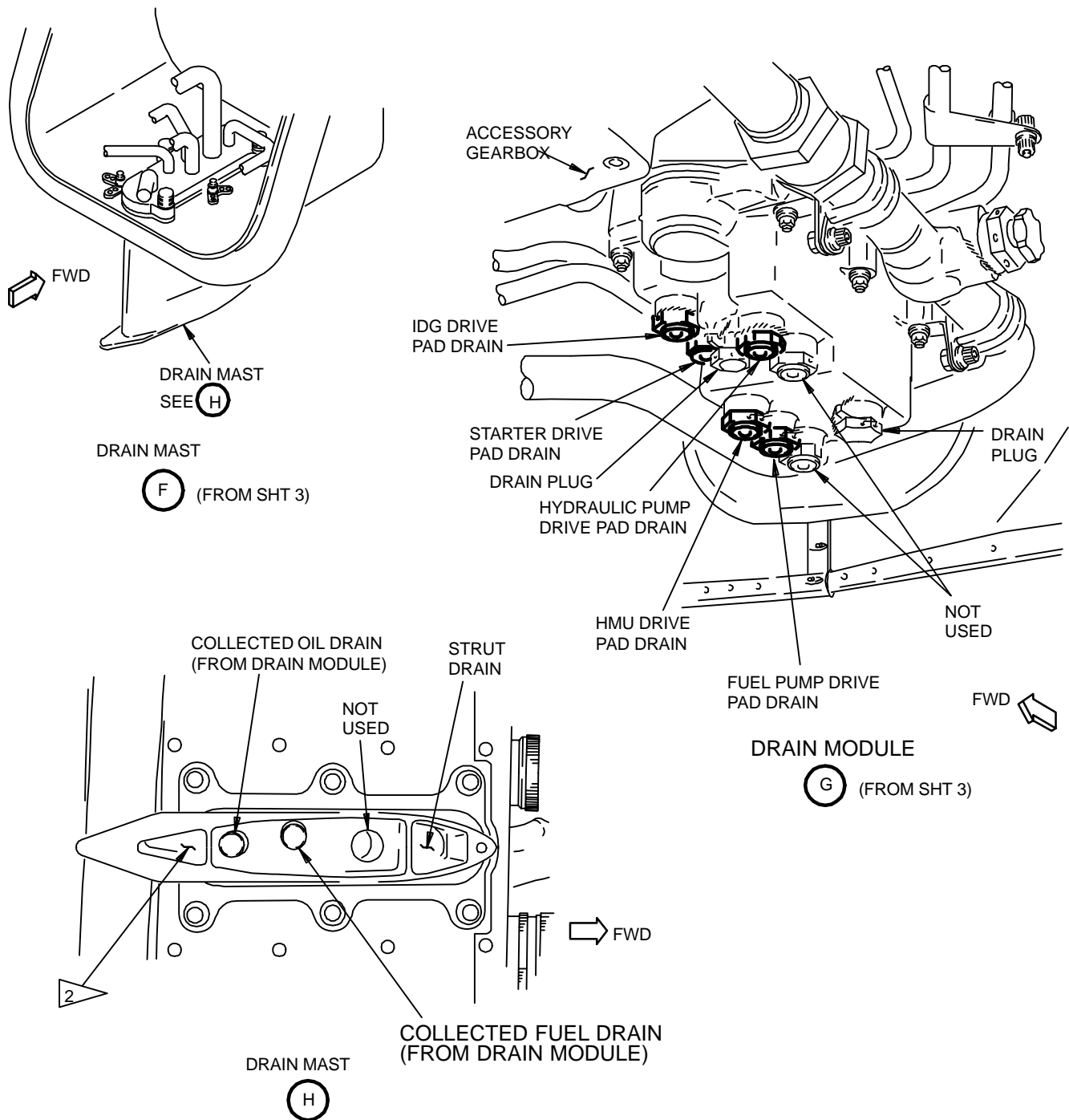




Power Plant - Component Location
Figure 102 (Sheet 3)

Figure 4 71-00 Power Plant Component Location Fig. 102 (Sheet 3)





- 2
- TCC VALVE SHROUD DRAINS
 - FUEL MANIFOLD DRAIN
 - VSV ACTUATOR SHROUD DRAINS
 - VBV ACTUATOR SHROUD DRAINS
 - IDG OVERTEMPERATURE CASE DRAIN
 - IDG PRESSURE RELIEF VALVE DRAIN

Power Plant - Component Location
Figure 102 (Sheet 4)

570216

Figure 5 71-00 Power Plant Component Location Fig. 102 (Sheet 4)



ATA 72-00 ENGINE

COMPONENT INDEX AND LOCATION



ENGINE

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ADAPTER PACKAGE - AGB, ENG 1	5	7	415,416, THRUST REVERSER HALVES, AGB	72-64-01
ADAPTER PACKAGE - AGB, ENG 2	5	7	425,426, THRUST REVERSER HALVES, AGB	72-64-01
ADAPTER PACKAGE - AGB, ENG 3	5	7	435,436, THRUST REVERSER HALVES, AGB	72-64-01
ADAPTER PACKAGE - AGB, ENG 4	5	7	445,446, THRUST REVERSER HALVES, AGB	72-64-01
BLADES - FAN ROTOR, ENG 1	1	38	FAN ROTOR	72-31-02
BLADES - FAN ROTOR, ENG 2	1	38	FAN ROTOR	72-31-02
BLADES - FAN ROTOR, ENG 3	1	38	FAN ROTOR	72-31-02
BLADES - FAN ROTOR, ENG 4	1	38	FAN ROTOR	72-31-02
GEARBOX - TRANSFER, ENG 1	4	1	415,416, THRUST REVERSER HALVES, AGB FWD FACE	72-62-01
GEARBOX - TRANSFER, ENG 2	4	1	425,426, THRUST REVERSER HALVES, AGB FWD FACE	72-62-01
GEARBOX - TRANSFER, ENG 3	4	1	435,436, THRUST REVERSER HALVES, AGB FWD FACE	72-62-01
GEARBOX - TRANSFER, ENG 4	4	1	445,446, THRUST REVERSER HALVES, AGB FWD FACE	72-62-01
SEAL - AGB MAGNETIC, ENG 1	5	5	415,416, THRUST REVERSER HALVES, AGB	72-64-02
SEAL - AGB MAGNETIC, ENG 2	5	5	425,426, THRUST REVERSER HALVES, AGB	72-64-02
SEAL - AGB MAGNETIC, ENG 3	5	5	435,436, THRUST REVERSER HALVES, AGB	72-64-02
SEAL - AGB MAGNETIC, ENG 4	5	5	445,446, THRUST REVERSER HALVES, AGB	72-64-02
SEGMENTS - ACOUSTICAL LINER, ENG 1	2,3	30	415,416, THRUST REVERSER HALVES, FAN FRAME	72-32-01
SEGMENTS - ACOUSTICAL LINER, ENG 2	2,3	30	425,426, THRUST REVERSER HALVES, FAN FRAME	72-32-01
SEGMENTS - ACOUSTICAL LINER, ENG 3	2,3	30	435,436, THRUST REVERSER HALVES, FAN FRAME	72-32-01
SEGMENTS - ACOUSTICAL LINER, ENG 4	2,3	30	445,446, THRUST REVERSER HALVES, FAN FRAME	72-32-01

Engine - Component Index
Figure 101 (Sheet 1)

610833

Figure 6 72-00 Engine Component Index Fig. 101 (Sheet 1)



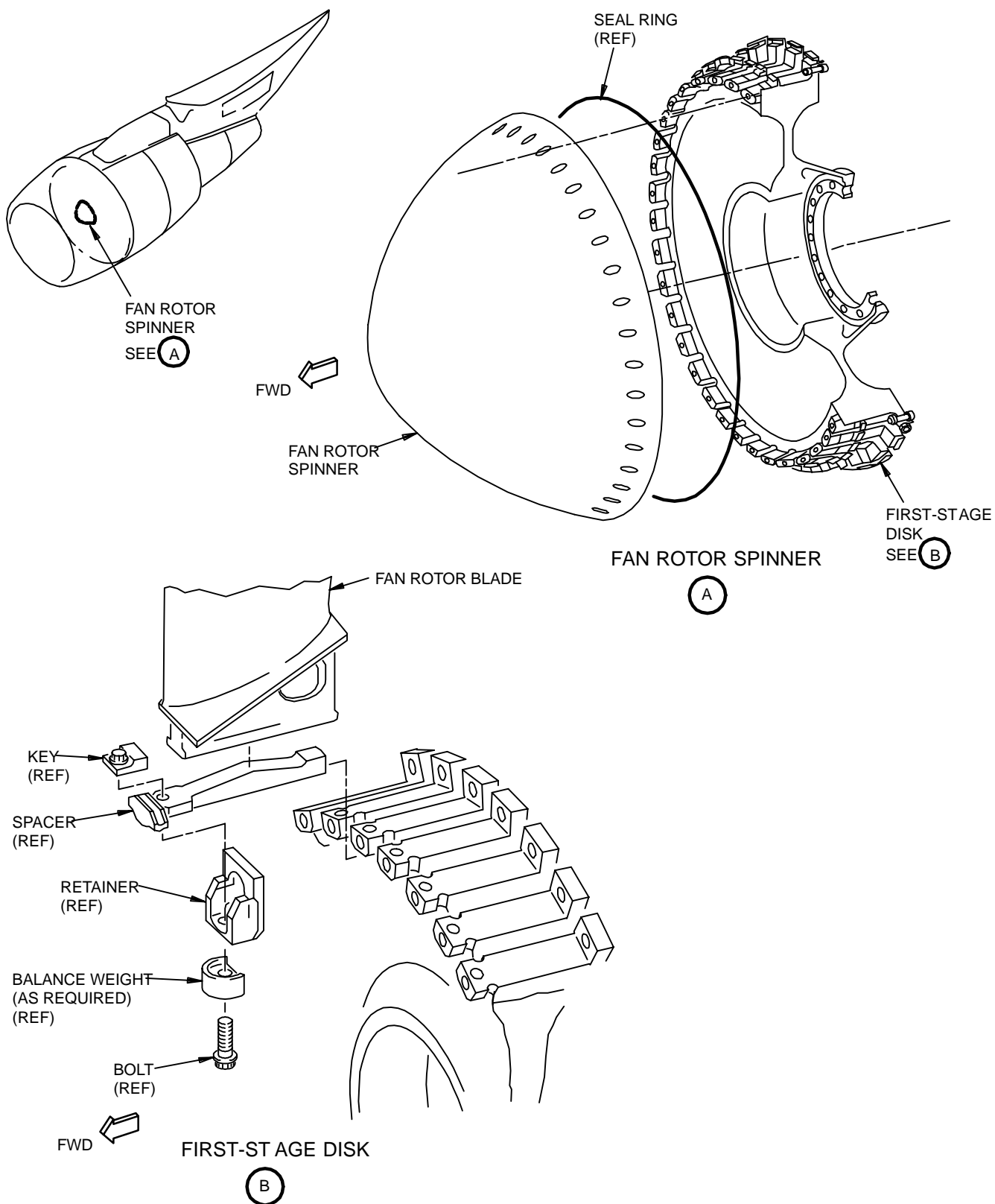
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SHAFT - HORIZONTAL DRIVE, ENG 1	4	1	415,416, THRUST REVERSER HALVES, AGB FWD FACE	72-63-01
SHAFT - HORIZONTAL DRIVE, ENG 2	4	1	425,426, THRUST REVERSER HALVES, AGB FWD FACE	72-63-01
SHAFT - HORIZONTAL DRIVE, ENG 3	4	1	435,436, THRUST REVERSER HALVES, AGB FWD FACE	72-63-01
SHAFT - HORIZONTAL DRIVE, ENG 4	4	1	445,446, THRUST REVERSER HALVES, AGB FWD FACE	72-63-01
SPINNER - FAN ROTOR, ENG 1	1	1	FAN ROTOR	72-31-01
SPINNER - FAN ROTOR, ENG 2	1	1	FAN ROTO	72-31-01
SPINNER - FAN ROTOR, ENG 3	1	1	FAN ROTOR	72-31-01
SPINNER - FAN ROTOR, ENG 4	1	1	FAN ROTOR	72-31-01
VANE - FAN FRAME OUTLET GUIDE, ENG 1	3	100	415,416, THRUST REVERSER HALVES, FAN FRAME	72-33-02
VANE - FAN FRAME OUTLET GUIDE, ENG 2	3	100	425,426, THRUST REVERSER HALVES, FAN FRAME	72-33-02
VANE - FAN FRAME OUTLET GUIDE, ENG 3	3	100	435,436, THRUST REVERSER HALVES, FAN FRAME	72-33-02
VANE - FAN FRAME OUTLET GUIDE, ENG 4	3	100	445,446, THRUST REVERSER	72-33-02

Engine - Component Index
Figure 101 (Sheet 2)

Figure 7 72-00 Engine Component Index Fig. 101 (Sheet 2)

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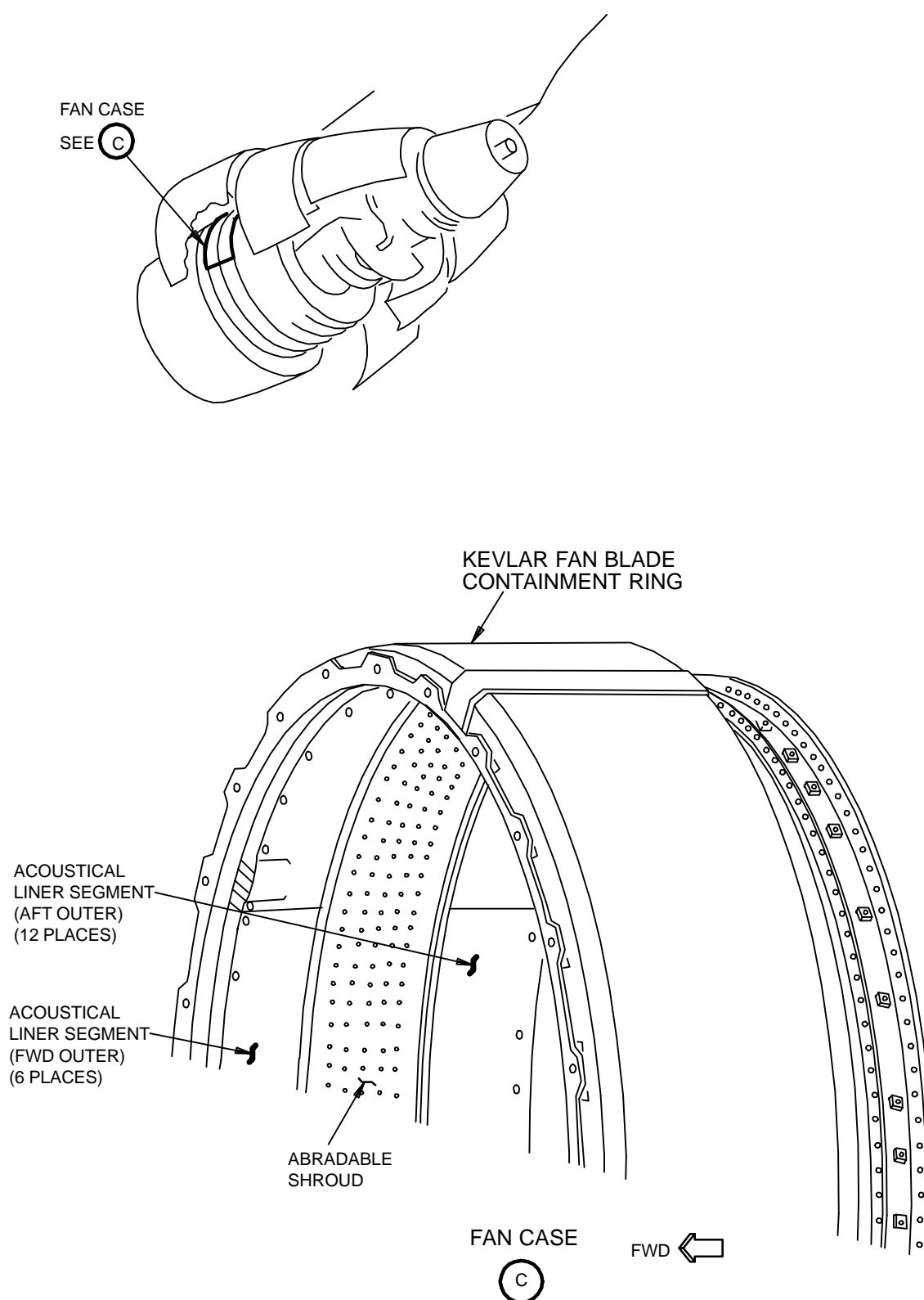


Engine - Component Location
Figure 102 (Sheet 1)

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Figure 8 72-00 Engine Component Location Fig. 102 (Sheet 1)



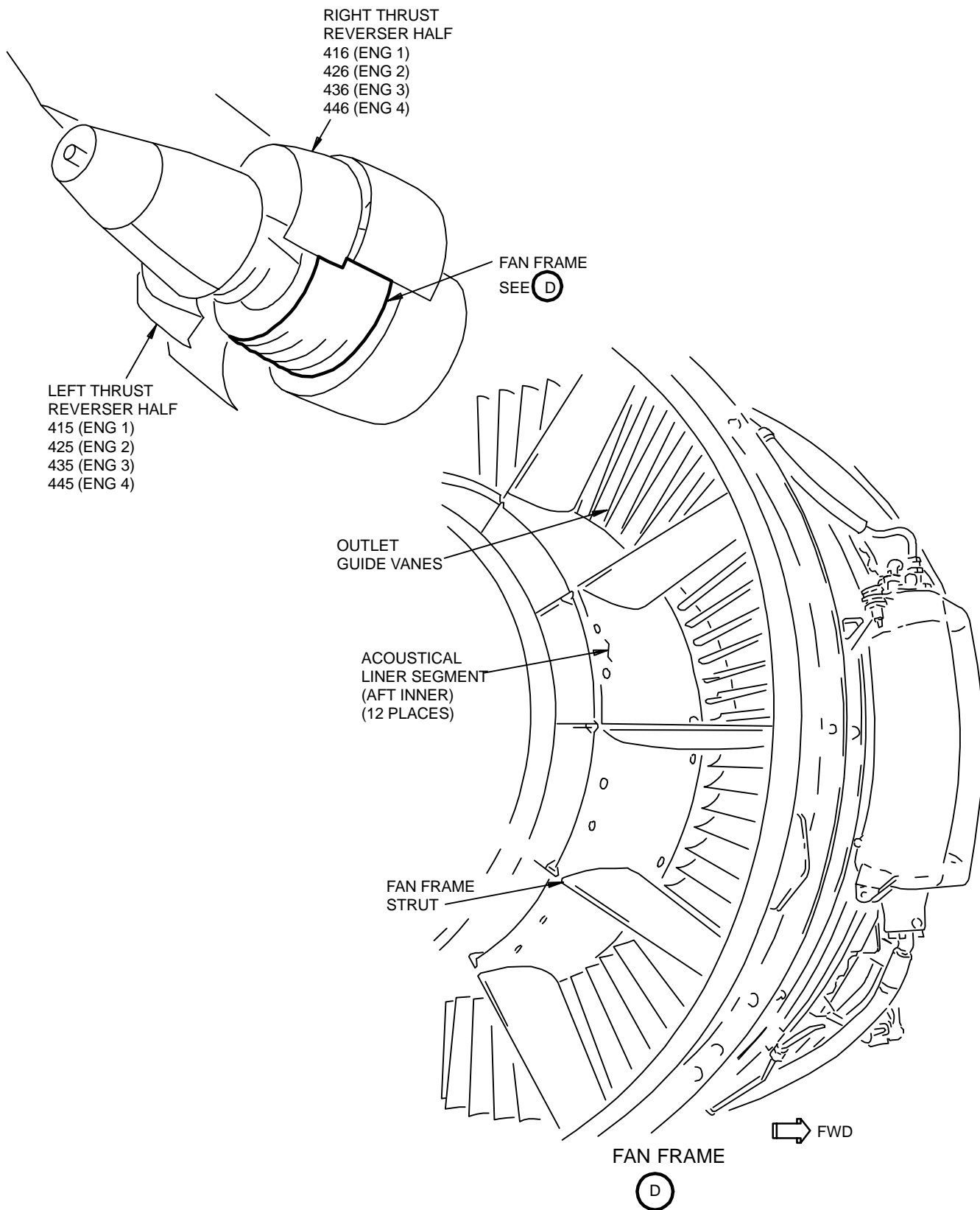


Engine - Component Location
Figure 102 (Sheet 2)

Figure 9 72-00 Engine Component Location Fig. 102 (Sheet 2)

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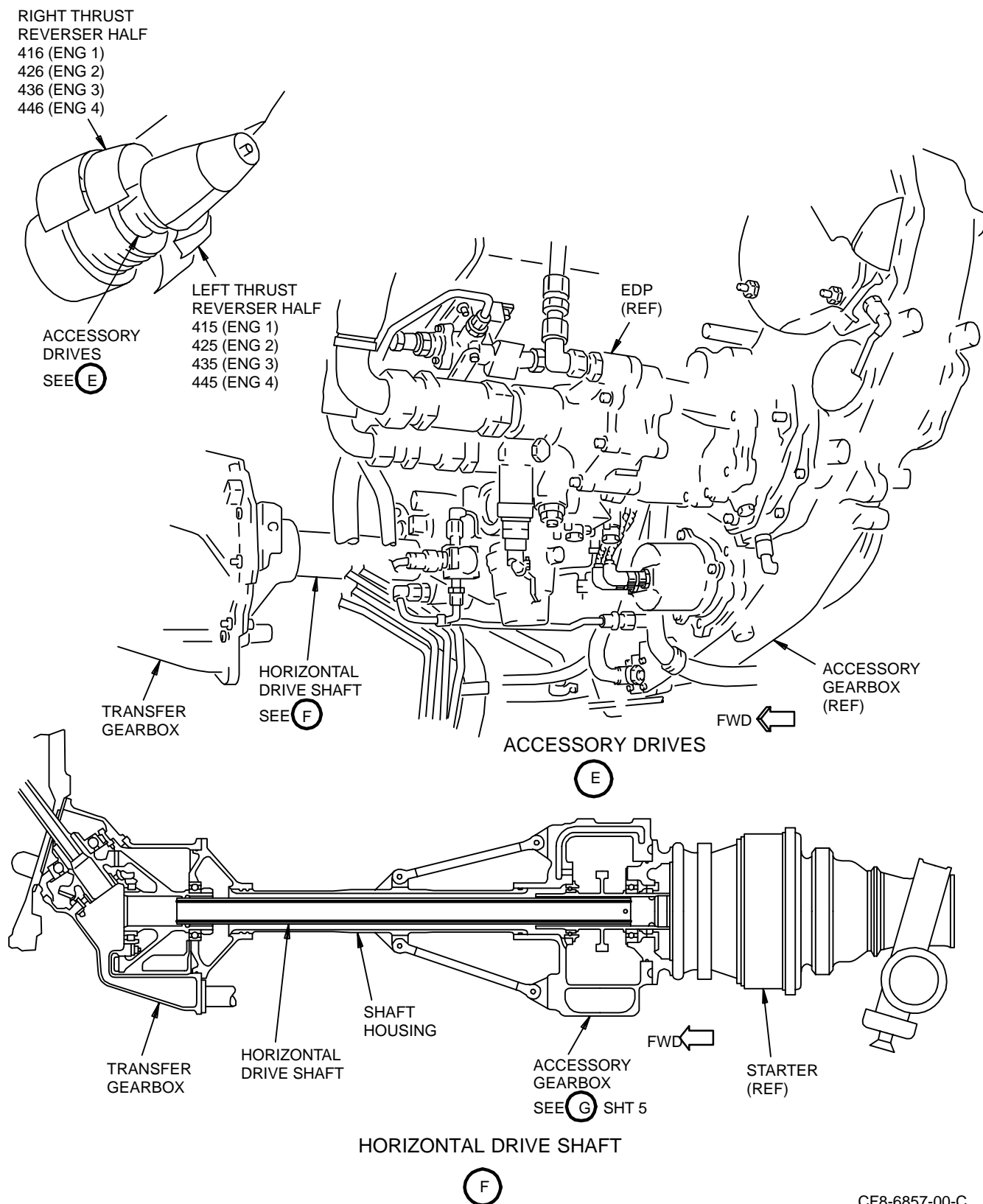


Engine - Component Location
Figure 102 (Sheet 3)

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Figure 10 72-00 Engine Component Location Fig. 102 (Sheet 3)





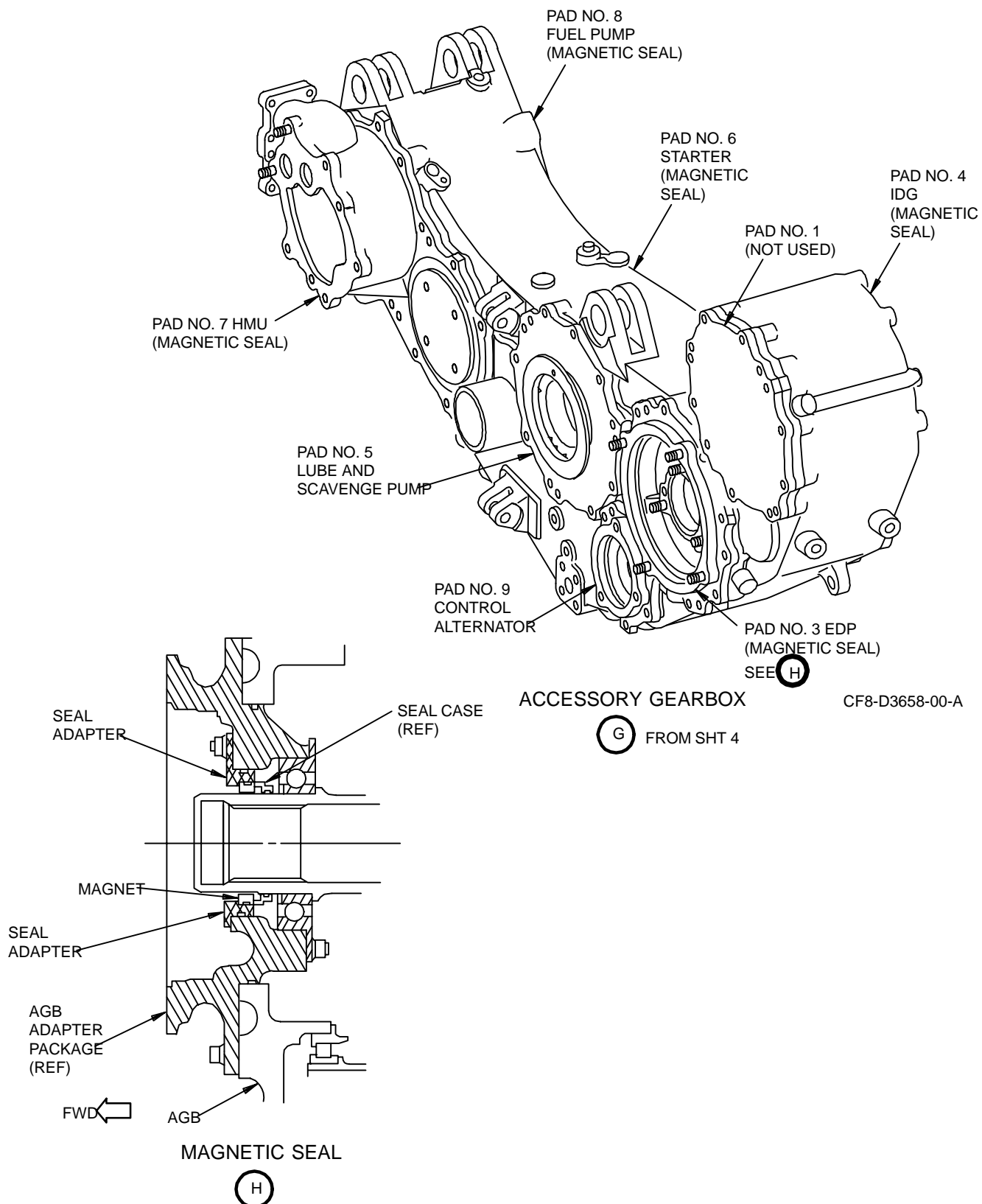
Engine - Component Location
Figure 102 (Sheet 4)

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Figure 11 72-00 Engine Component Location Fig. 102 (Sheet 4)





Engine - Component Location
Figure 102 (Sheet 5)

610670

Figure 12 72-00 Engine Component Location Fig. 102 (Sheet 5)



ATA 73-00 ENGINE FUEL AND CONTROL SYSTEM

COMPONENT INDEX AND LOCATION



ENGINE FUEL AND CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ALTERNATOR - ENG 1 CONTROL, T1519	5	1	415 LEFT THRUST REVERSER HALF	73-21-08
ALTERNATOR - ENG 2 CONTROL, T1519	5	1	425 LEFT THRUST REVERSER HALF	73-21-08
ALTERNATOR - ENG 3 CONTROL, T1519	5	1	435 LEFT THRUST REVERSER HALF	73-21-08
ALTERNATOR - ENG 4 CONTROL, T1519	5	1	445 LEFT THRUST REVERSER HALF	73-21-08
CABLES - ENG 1 ECU	6	7	417,418 CORE COWL PANELS	73-21-18
CABLES - ENG 2 ECU	6	7	427,428 CORE COWL PANELS	73-21-18
CABLES - ENG 3 ECU	6	7	437,438 CORE COWL PANELS	73-21-18
CABLES - ENG 4 ECU	6	7	447,448 CORE COWL PANELS	73-21-18
CARD - ENG 1 EEC/TMC DISCRETES, YLMA002	7	1		73-21-1 1
CARD - ENG 2 EEC/TMC DISCRETES, YLMA004	7	1		73-21-1 1
CARD - ENG 3 EEC/TMC DISCRETES, YLMA006	7	1		73-21-1 1
CARD - ENG 4 EEC/TMC DISCRETES, YLMA008	7	1		73-21-1 1
CARD - (REF 77-00-00, FIG. 101)	7	1		
ENG 1 ENGINE SPEED, YLMA001	7	1		
ENG 2 ENGINE SPEED, YLMA003	7	1		
ENG 3 ENGINE SPEED, YLMA005	7	1		
ENG 4 ENGINE SPEED, YLMA007	7	1		
CIRCUIT BREAKERS -	1		FLT COMPT, P6	
ENG 1 - EEC CHA A RST INH, C10107		1	6J14	*
ENG 1 - IDLE CONT AIR SENSE TMC DISCRETE, C10091		1	6F10	*
ENG 2 - EEC CHA A RST INH, C10108		1	6J15	*
ENG 2 - IDLE CONT AIR SENSE TMC DISCRETE, C10092		1	6E10	*
ENG 3 - EEC CHA A RST INH, C10109		1	6J16	*
ENG 3 - IDLE CONT AIR SENSE TMC DISCRETE, C10093		1	6D10	*
ENG 4 - EEC CHA A RST INH, C10110		1	6J17	*
ENG 4 - IDLE CONT AIR SENSE TMC DISCRETE, C10094		1	6C10	*
SPEED SENSE - ENG 1-1, C10098		1	6K12	*
SPEED SENSE - ENG 1-2, C10097			6K11	*
SPEED SENSE - ENG 2-1, C10096		1	6K10	*
SPEED SENSE - ENG 2-2, C10099			6K13	*
SPEED SENSE - ENG 3-1, C10102		1	6K16	*
SPEED SENSE - ENG 3-2, C10101			6K15	*
SPEED SENSE - ENG 4-1, C10100		1	6K14	*
SPEED SENSE - ENG 4-2, C10103			6K17	*
CIRCUIT BREAKERS -	1		FLT COMPT, P180	
ENG 1 - EEC PWR CHAN A, C10373		1	180J5	*
ENG 2 - EEC PWR CHAN A, C10375		1	180F5	*
ENG 3 - EEC PWR CHAN A, C10377		1	180G20	*
ENG 4 - EEC PWR CHAN A, C10379		1	180D20	*

* SEE WM EQUIPMENT LIST

Engine Fuel and Control System - Component Index
Figure 101 (Sheet 1)

577782

Figure 13 73-00 Engine Fuel and Control Component Index Fig. 101 (Sheet 1)



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS (CONT) -	1			
ENG 1 - EEC PWR CHAN B, C10374		1	180J6	*
ENG 2 - EEC PWR CHAN B, C10376		1	180F6	*
ENG 3 - EEC PWR CHAN B, C10378		1	180G21	*
ENG 4 - EEC PWR CHAN B, C10380		1	180D21	*
CIRCUIT BREAKERS -	1		FLT COMPT, P415	
FUEL PRESSURE ENG 1, C686		1	415K33	*
FUEL PRESSURE ENG 2, C687		1	415K34	*
FUEL PRESSURE ENG 3, C688		1	415K35	*
FUEL PRESSURE ENG 4, C689		1	415K36	*
COMPUTER - (REF 31-61-00, FIG. 101)				
EICAS				
EICAS				
DIODE - (REF 31-01-06, FIG. 101)				
M3387				
M3384, ENG 1				
M3383, ENG 2				
M3388, ENG 2				
M3386, ENG 3				
M3340, ENG 4				
M3385, ENG 4				
DIODE - (REF 31-01-36, FIG. 101)				
M3549, ENG 1				
M3550, ENG 2				
M3551, ENG 3				
M3552, ENG 4				
ELEMENT - ENG 1 FUEL FILTER	4	1	416 RIGHT THRUST REVERSER HALF	73-11-02
ELEMENT - ENG 2 FUEL FILTER	4	1	426 RIGHT THRUST REVERSER HALF	73-11-02
ELEMENT - ENG 3 FUEL FILTER	4	1	436 RIGHT THRUST REVERSER HALF	73-11-02
ELEMENT - ENG 4 FUEL FILTER	4	1	446 RIGHT THRUST REVERSER HALF	73-11-02
FILTER - ENG 1 FUEL	4	1	416 RIGHT THRUST REVERSER HALF	73-11-03
FILTER - ENG 2 FUEL	4	1	426 RIGHT THRUST REVERSER HALF	73-11-03
FILTER - ENG 3 FUEL	4	1	436 RIGHT THRUST REVERSER HALF	73-11-03
FILTER - ENG 4 FUEL	4	1	446 RIGHT THRUST REVERSER HALF	73-11-03

* SEE WM EQUIPMENT LIST

Engine Fuel and Control System - Component Index
Figure 101 (Sheet 2)

577783

Figure 14 73-00 Engine Fuel and Control Component Index Fig. 101 (Sheet 2)



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
HEATER - ENG 1 SERVO FUEL	3	1	416 RIGHT THRUST REVERSER HALF	73-11-09
HEATER - ENG 2 SERVO FUEL	3	1	426 RIGHT THRUST REVERSER HALF	73-11-09
HEATER - ENG 3 SERVO FUEL	3	1	436 RIGHT THRUST REVERSER HALF	73-11-09
HEATER - ENG 4 SERVO FUEL	3	1	446 RIGHT THRUST REVERSER HALF	73-11-09
HOSE - ENG 1 MAIN FUEL SUPPLY	2	1	418 RIGHT CORE COWL PANEL	73-11-07
HOSE - ENG 2 MAIN FUEL SUPPLY	2	1	428 RIGHT CORE COWL PANEL	73-11-07
HOSE - ENG 3 MAIN FUEL SUPPLY	2	1	438 RIGHT CORE COWL PANEL	73-11-07
HOSE - ENG 4 MAIN FUEL SUPPLY	2	1	448 RIGHT CORE COWL PANEL	73-11-07
MODULE - ELECTRONIC ENGINE CONTROL, M7330	1	1		
MODULE - EEC MAINTENANCE, M7319	1	1		
NOZZLES - ENG 1 FUEL	5	30	417,418 CORE COWL PANELS	73-11-05
NOZZLES - ENG 2 FUEL	5	30	427,428 CORE COWL PANELS	73-11-05
NOZZLES - ENG 3 FUEL	5	30	437,438 CORE COWL PANELS	73-11-05
NOZZLES - ENG 4 FUEL	5	30	447,448 CORE COWL PANELS	73-11-05
PLUG - ENG 1 IDENTIFACATION	6	1	413 LEFT FAN COWL PANEL	73-21-19
PLUG - ENG 2 IDENTIFACATION	6	1	423 LEFT FAN COWL PANEL	73-21-19
PLUG - ENG 3 IDENTIFACATION	6	1	433 LEFT FAN COWL PANEL	73-21-19
PLUG - ENG 4 IDENTIFACATION	6	1	443 LEFT FAN COWL PANEL	73-21-19
PLUG - ENG 1 RATING	6	1	413 LEFT FAN COWL PANEL	73-11-19
PLUG - ENG 2 RATING	6	1	423 LEFT FAN COWL PANEL	73-11-19
PLUG - ENG 3 RATING	6	1	433 LEFT FAN COWL PANEL	73-11-19
PLUG - ENG 4 RATING	6	1	443 LEFT FAN COWL PANEL	73-11-19
PUMP - ENG 1 FUEL	4	1	416 RIGHT THRUST REVERSER HALF	73-11-01
PUMP - ENG 2 FUEL	4	1	426 RIGHT THRUST REVERSER HALF	73-11-01
PUMP - ENG 3 FUEL	4	1	436 RIGHT THRUST REVERSER HALF	73-11-01
PUMP - ENG 4 FUEL	4	1	446 RIGHT THRUST REVERSER HALF	73-11-01
RELAY - (REF 31-01-06, FIG. 101) TRIM ENABLE, R7561				
RELAY - (REF 31-01-36, FIG. 101) AIR SENSE, R7359, ENG 1 AIR SENSE, R7360, ENG 2 AIR SENSE, R7361, ENG 3 AIR SENSE, R7362, ENG 4 CH A EEC RESET, R7351, ENG 1 CH A EEC RESET, R7353, ENG 2 CH B EEC RESET, R7352, ENG 1 CH B EEC RESET, R7354, ENG 2 CHAN SEL, R7322, ENG 1 CHAN SEL, R7323, ENG 2 ENGINE START, R7538, ENG 1 ENGINE START, R7540, ENG 2 ENGINE START, R7542, ENG 3 ENGINE START, R7544, ENG 4 FUEL CONTROL, R7307, ENG 1 FUEL CONTROL, R7308, ENG 2 FUEL CONTROL, R7309, ENG 3 FUEL CONTROL, R7310, ENG 4				

Engine Fuel and Control System - Component Index
Figure 101 (Sheet 3)

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Figure 15 73-00 Engine Fuel and Control Component Index Fig. 101 (Sheet 3)



Engine Fuel and Control System - Component Index
Figure 101 (Sheet 4)

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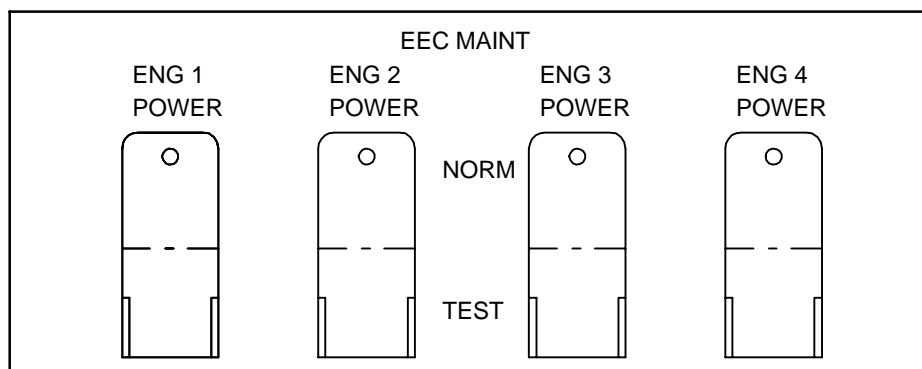
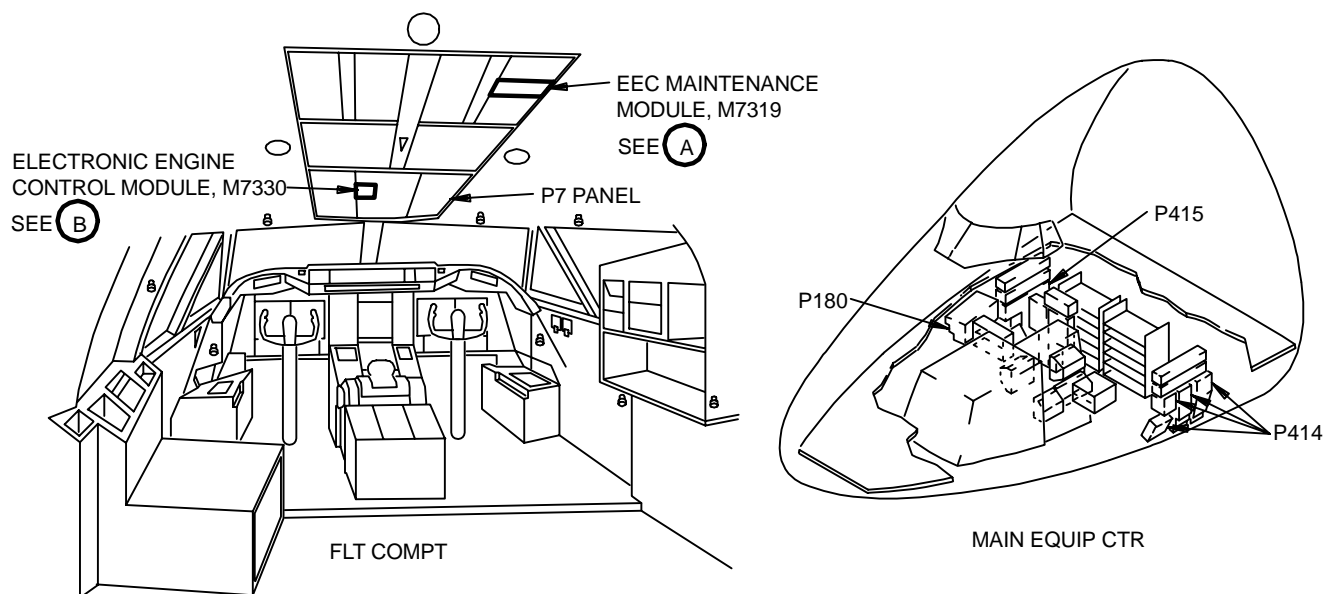
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
STRAINER - ENG 1 FUEL PUMP	4	1	416 RIGHT THRUST REVERSER HALF	73-11-04
STRAINER - ENG 2 FUEL PUMP	4	1	426 RIGHT THRUST REVERSER HALF	73-11-04
STRAINER - ENG 3 FUEL PUMP	4	1	436 RIGHT THRUST REVERSER HALF	73-11-04
STRAINER - ENG 4 FUEL PUMP	4	1	446 RIGHT THRUST REVERSER HALF	73-11-04
SWITCH - (REF 76-11-00, FIG. 101)				
FUEL CONTROL - ENG 1, S1863				
FUEL CONTROL - ENG 2, S1864				
FUEL CONTROL - ENG 3, S1865				
FUEL CONTROL - ENG 4, S1866				
SWITCH - ENG 1 FUEL FILTER DIFFERENTIAL PRESSURE, S1585	4	1	416 RIGHT THRUST REVERSER HALF	73-34-01
SWITCH - ENG 2 FUEL FILTER DIFFERENTIAL PRESSURE, S1585	4	1	426 RIGHT THRUST REVERSER HALF	73-34-01
SWITCH - ENG 3 FUEL FILTER DIFFERENTIAL PRESSURE, S1585	4	1	436 RIGHT THRUST REVERSER HALF	73-34-01
SWITCH - ENG 4 FUEL FILTER DIFFERENTIAL PRESSURE, S1585	4	1	446 RIGHT THRUST REVERSER HALF	73-34-01
TRANSMITTER - ENG 1 FUEL FLOW, M7192	3	1	416 RIGHT THRUST REVERSER HALF	73-31-01
TRANSMITTER - ENG 2 FUEL FLOW, M7192	3	1	426 RIGHT THRUST REVERSER HALF	73-31-01
TRANSMITTER - ENG 3 FUEL FLOW, M7192	3	1	436 RIGHT THRUST REVERSER HALF	73-31-01
TRANSMITTER - ENG 4 FUEL FLOW, M7192	3	1	446 RIGHT THRUST REVERSER HALF	73-31-01
TRANSMITTER - ENG 1 FUEL PRESSURE, M7193	4	1	416 RIGHT THRUST REVERSER HALF	73-34-01
TRANSMITTER - ENG 2 FUEL PRESSURE, M7193	4	1	426 RIGHT THRUST REVERSER HALF	73-34-01
TRANSMITTER - ENG 3 FUEL PRESSURE, M7193	4	1	436 RIGHT THRUST REVERSER HALF	73-34-01
TRANSMITTER - ENG 4 FUEL PRESSURE, M7193	4	1	446 RIGHT THRUST REVERSER HALF	73-34-01
UNIT - (REF 31-61-00, FIG. 101)				
C EFIS/EICAS INTERFACE (EIU), M7352				
L EFIS/EICAS INTERFACE (EIU), M7353				
R EFIS/EICAS INTERFACE (EIU), M7351				
UNIT - ENG 1 HYDROMECHANICAL	3	1	416 RIGHT THRUST REVERSER HALF	73-21-14
UNIT - ENG 2 HYDROMECHANICAL	3	1	426 RIGHT THRUST REVERSER HALF	73-21-14
UNIT - ENG 3 HYDROMECHANICAL	3	1	436 RIGHT THRUST REVERSER HALF	73-21-14
UNIT - ENG 4 HYDROMECHANICAL	3	1	446 RIGHT THRUST REVERSER HALF	73-21-14
UNIT - ENG 1 ELECTRONIC CONTROL, M7198	6	1	413 LEFT FAN COWL PANEL	73-21-15
UNIT - ENG 2 ELECTRONIC CONTROL, M7198	6	1	423 LEFT FAN COWL PANEL	73-21-15
UNIT - ENG 3 ELECTRONIC CONTROL, M7198	6	1	433 LEFT FAN COWL PANEL	73-21-15
UNIT - ENG 4 ELECTRONIC CONTROL, M7198	6	1	443 LEFT FAN COWL PANEL	73-21-15
VALVE - ENG 1 COMBUSTOR DRAIN	2	1	418 RIGHT CORE COWL PANEL	73-11-08
VALVE - ENG 2 COMBUSTOR DRAIN	2	1	428 RIGHT CORE COWL PANEL	73-11-08
VALVE - ENG 3 COMBUSTOR DRAIN	2	1	438 RIGHT CORE COWL PANEL	73-11-08
VALVE - ENG 4 COMBUSTOR DRAIN	2	1	448 RIGHT CORE COWL PANEL	73-11-08
VALVE - ENG 1 FUEL SHUTOFF SOLENOID	3	1	416 RIGHT THRUST REVERSER HALF	73-21-20
VALVE - ENG 2 FUEL SHUTOFF SOLENOID	3	1	426 RIGHT THRUST REVERSER HALF	73-21-20
VALVE - ENG 3 FUEL SHUTOFF SOLENOID	3	1	436 RIGHT THRUST REVERSER HALF	73-21-20
VALVE - ENG 4 FUEL SHUTOFF SOLENOID	3	1	446 RIGHT THRUST REVERSER HALF	72-21-20

Engine Fuel and Control System - Component Index
Figure 101 (Sheet 5)

578071

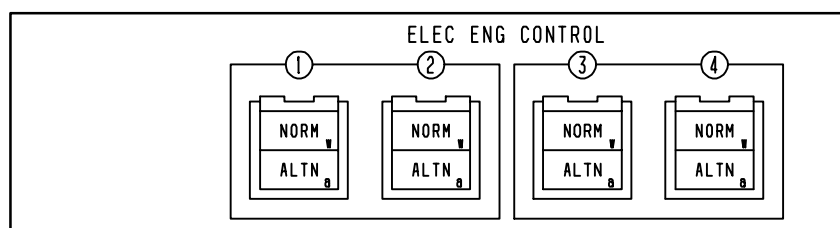
Figure 17 73-00 Engine Fuel and Control Component Index Fig. 101 (Sheet 5)





EEC MAINTENANCE MODULE, M7319

(A)



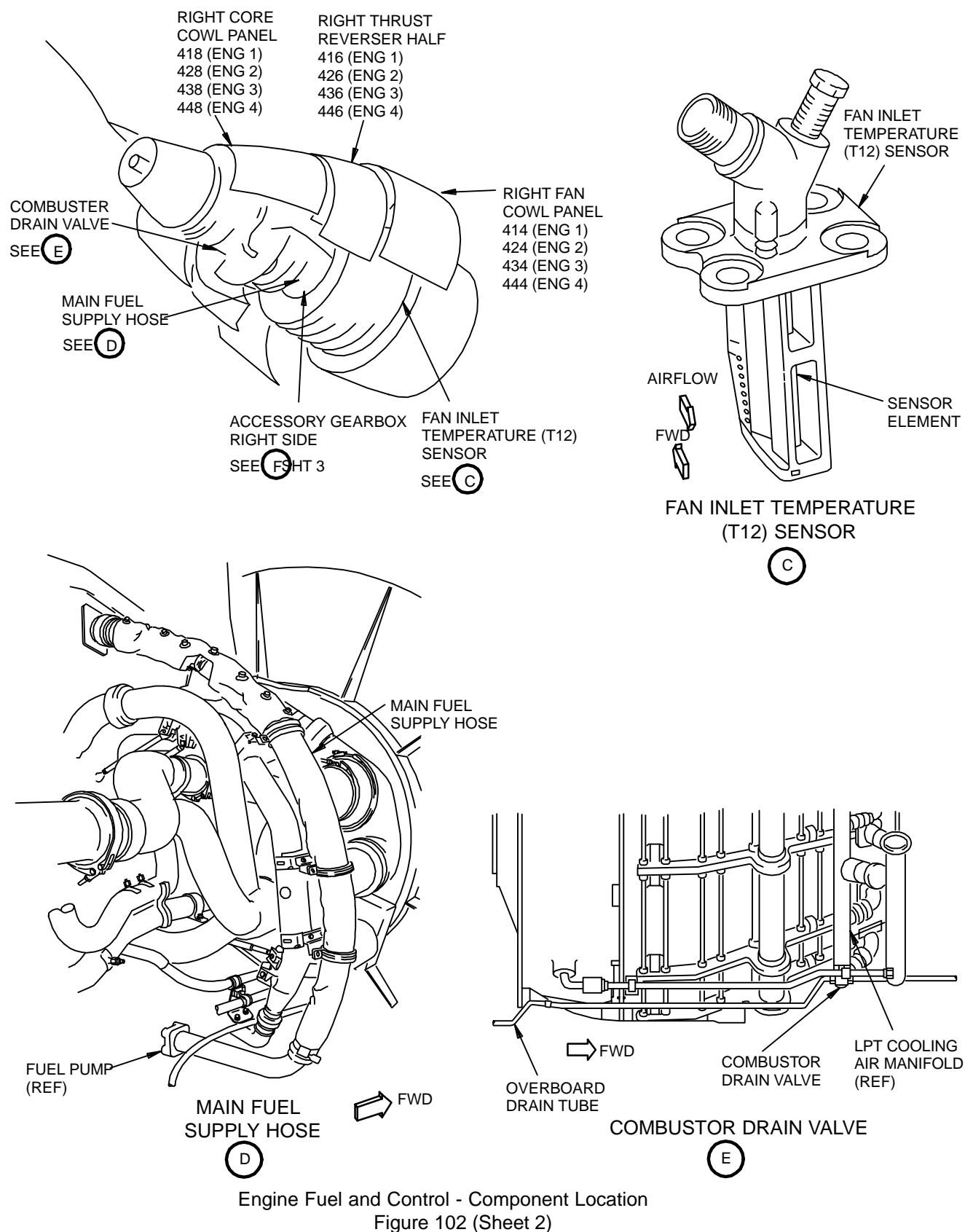
ELECTRONIC ENGINE CONTROL MODULE, M7330

(B)

Engine Fuel and Control - Component Location
Figure 102 (Sheet 1)

576958

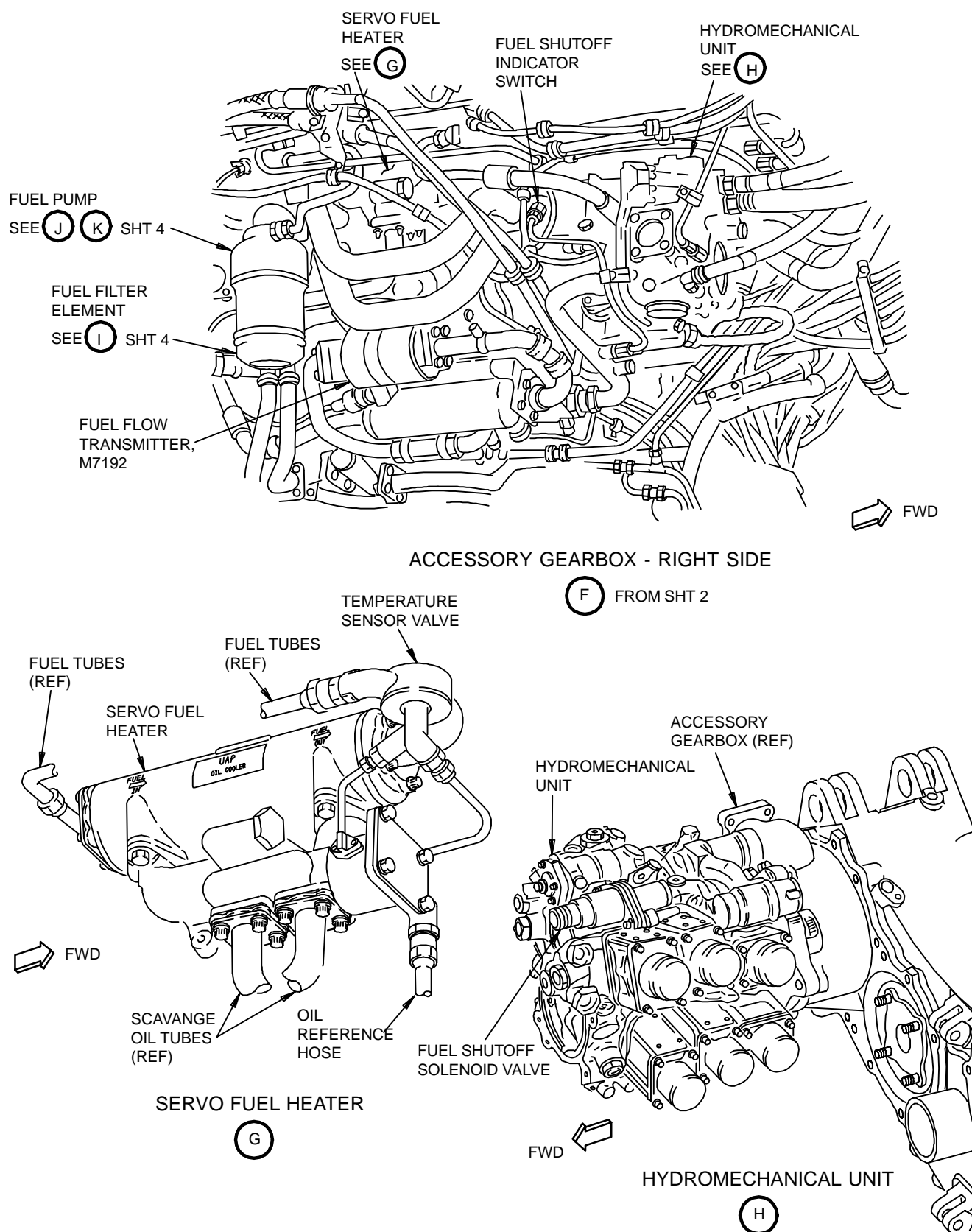
Figure 18 73-00 Engine Fuel and Control Component Location Fig. 102 (Sheet 1)



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Figure 19 73-00 Engine Fuel and Control Component Location Fig. 102 (Sheet 2)



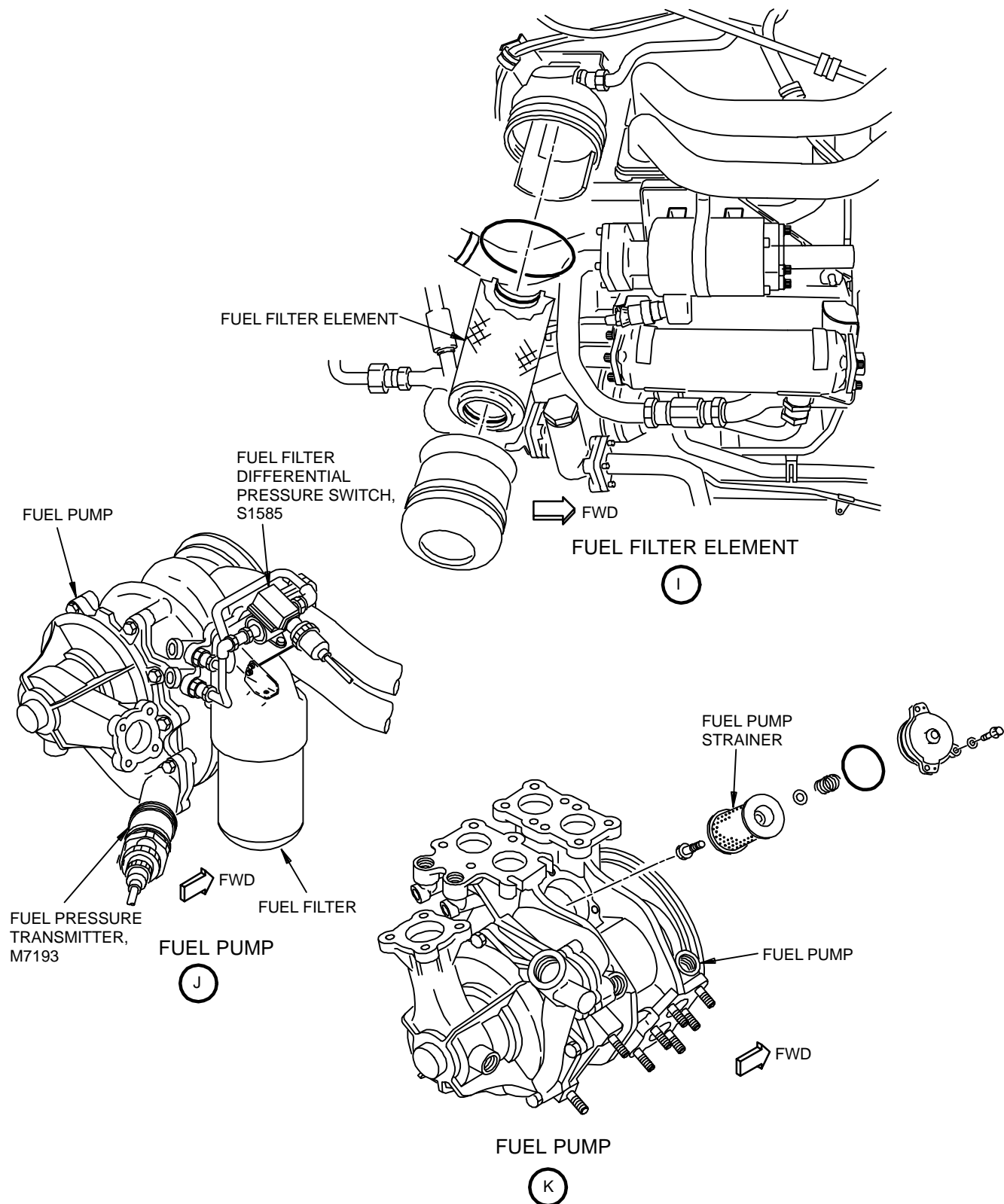


Engine Fuel and Control - Component Location
Figure 102 (Sheet 3)

Figure 20 73-00 Engine Fuel and Control Component Location Fig. 102 (Sheet 3)

576687



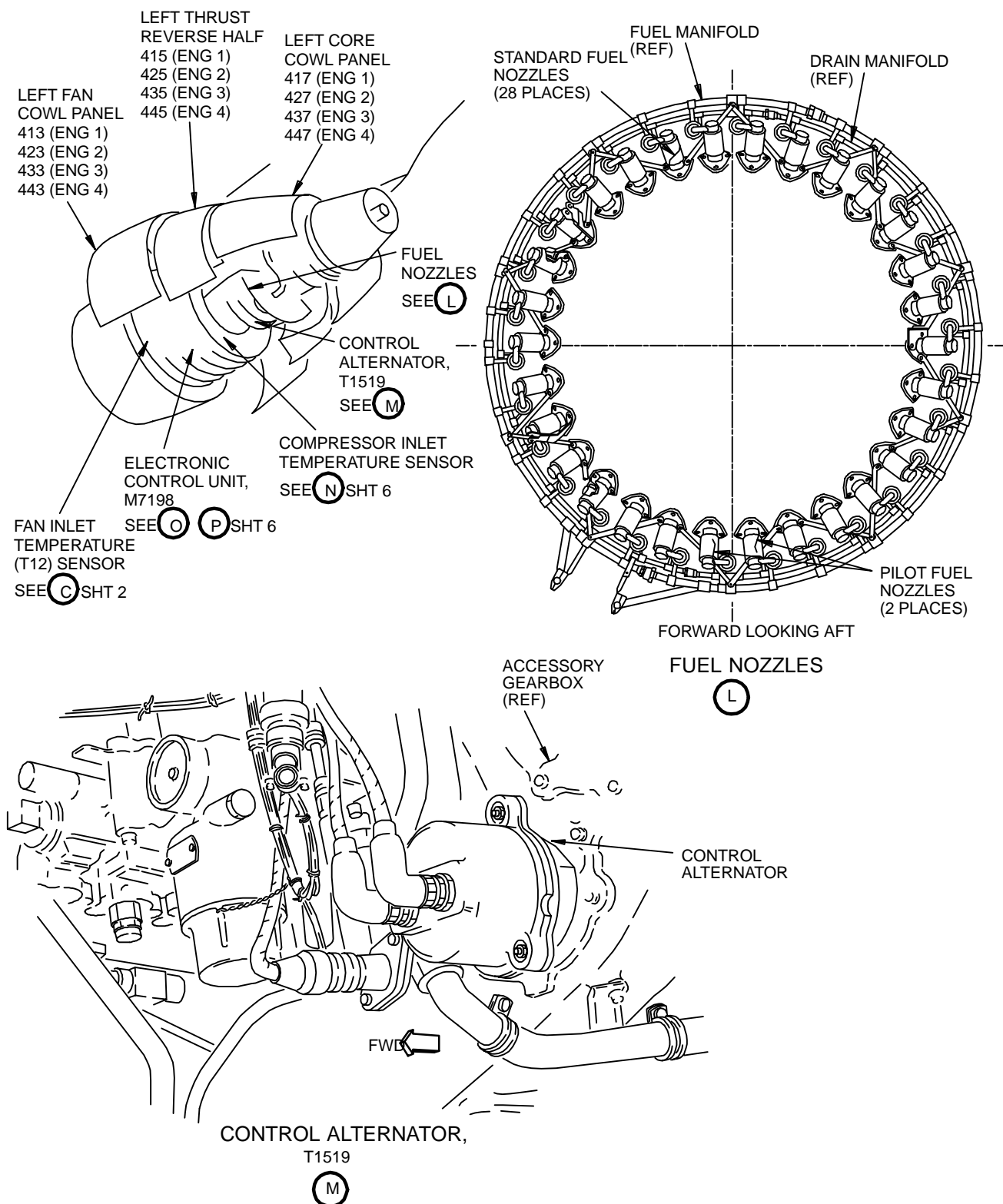


Engine Fuel and Control - Component Location (Details From Sht 3)
Figure 102 (Sheet 4)

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Figure 21 73-00 Engine Fuel and Control Component Location Fig. 102 (Sheet 4)



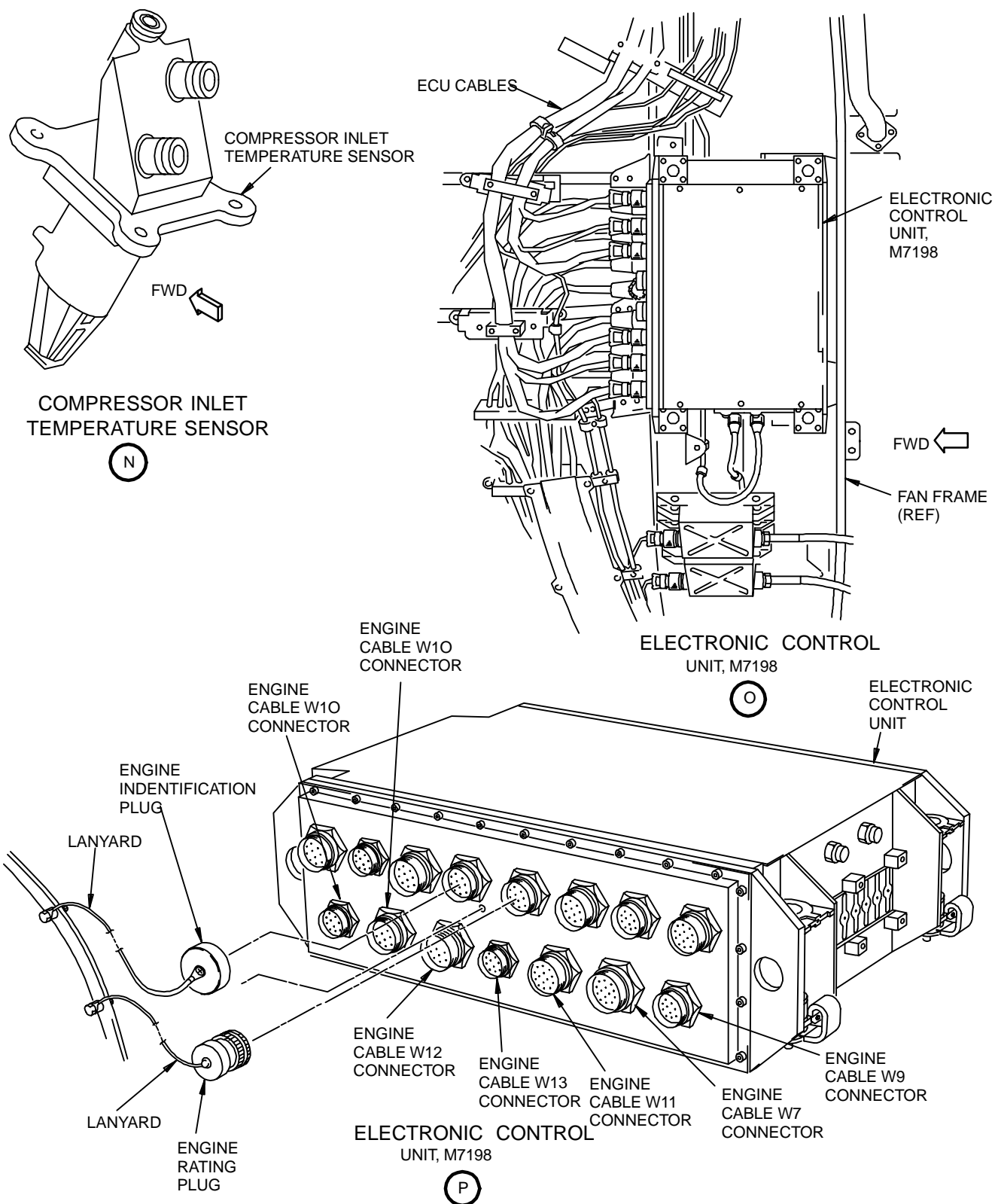


Engine Fuel and Control - Component Location
Figure 102 (Sheet 5)

576994

Figure 22 73-00 Engine Fuel and Control Component Location Fig. 102 (Sheet 5)



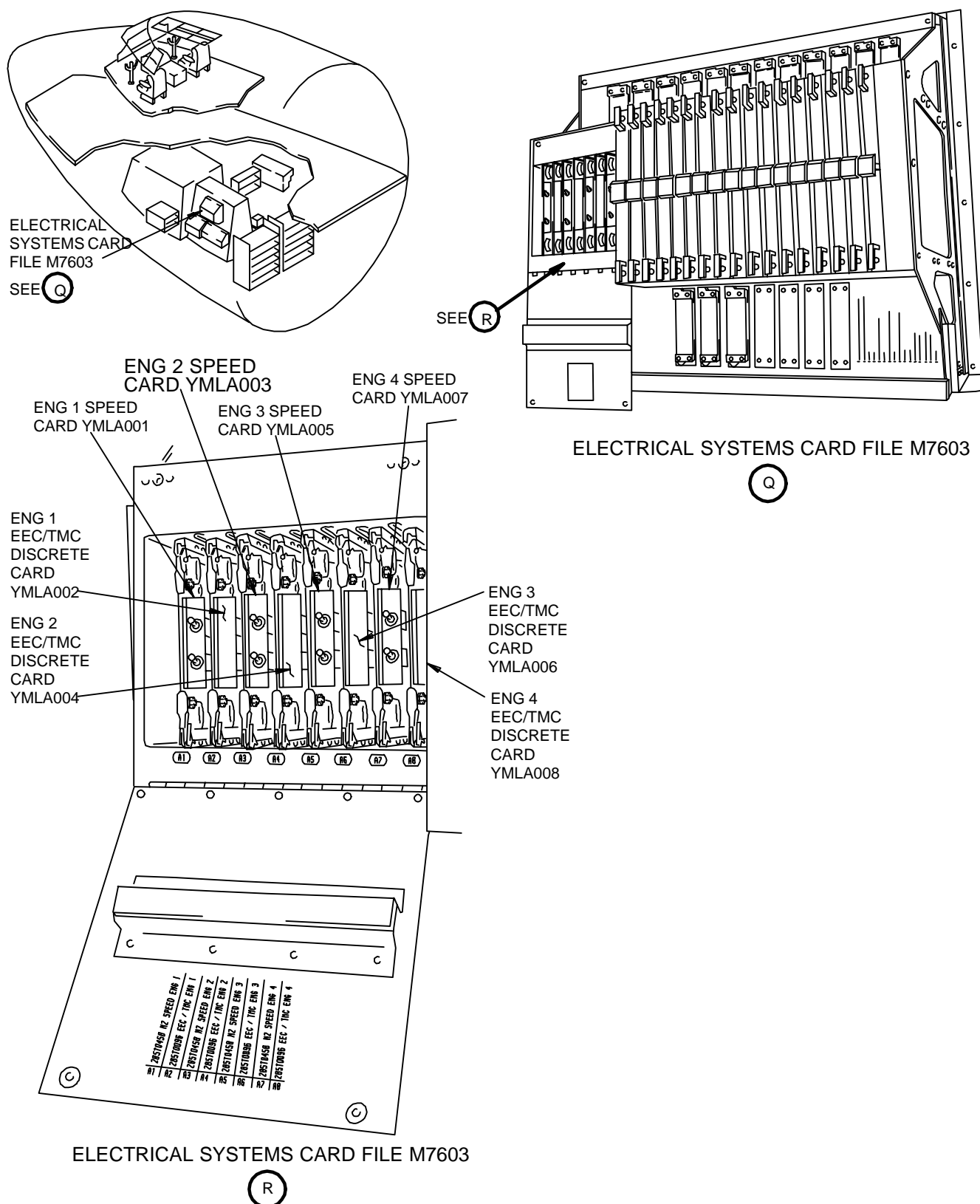


Engine Fuel and Control - Component Location (Details From Sht 5)
Figure 102 (Sheet 6)

576701

Figure 23 73-00 Engine Fuel and Control Component Location Fig. 102 (Sheet 6)





Engine Fuel and Control - Component Location
Figure 102 (Sheet 7)

Figure 24 73-00 Engine Fuel and Control Component Location Fig. 102 (Sheet 7)



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ATA 74-00 IGNITION

COMPONENT INDEX AND LOCATION



IGNITION

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CIRCUIT BREAKERS	1		FLT COMPT, P6	
IGN 1 ENG 1, C394		1	6F1	*
IGN 1 ENG 2, C397		1	6F2	*
IGN 1 ENG 3, C399		1	6F3	*
IGN 1 ENG 4, C401		1	6F4	*
IGN 2 ENG 1, C393		1	6K19	*
IGN 2 ENG 2, C396		1	6K20	*
IGN 2 ENG 3, C398		1	6K21	*
IGN 2 ENG 4, C400		1	6K22	*
STBY IGN ENG 1, C1044		1	6G19	*
STBY IGN ENG 2, C1045		1	6G20	*
STBY IGN ENG 3, C10581		1	6G21	*
STBY IGN ENG 4, C10582		1	6G22	*
EXCITERS - IGNITION	1			74-11-01
ENGINE 1 IGNITION 1, M7196		1	413, FAN COWL PANEL, ENGINE 1, FAN CASE	
ENGINE 1 IGNITION 2, M7197		1	413, FAN COWL PANEL, ENGINE 1, FAN CASE	
ENGINE 2 IGNITION 1, M7196		1	423, FAN COWL PANEL, ENGINE 2, FAN CASE	
ENGINE 2 IGNITION 2, M7197		1	423, FAN COWL PANEL, ENGINE 2, FAN CASE	
ENGINE 3 IGNITION 1, M7196		1	433, FAN COWL PANEL, ENGINE 3, FAN CASE	
ENGINE 3 IGNITION 2, M7197		1	433, FAN COWL PANEL, ENGINE 3, FAN CASE	
ENGINE 4 IGNITION 1, M7196		1	443, FAN COWL PANEL, ENGINE 4, FAN CASE	
ENGINE 4 IGNITION 2, M7197		1	443, FAN COWL PANEL, ENGINE 4, FAN CASE	
LEADS - IGNITION	2,3			74-21-01
ENGINE 1		2	415 AND 416, THRUST REVERSER HALVES	
ENGINE 2		2	425 AND 426, THRUST REVERSER HALVES	
ENGINE 3		2	435 AND 436, THRUST REVERSER HALVES	
ENGINE 4		2	445 AND 446, THRUST REVERSER HALVES	
MODULE - (REF 28-31-00, FIG. 101)				
ENGINE IGNITION/FUEL JETTISON, M7325				
PLUG - IGNITER	2			74-21-02
ENGINE 1		2	416, RIGHT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	
ENGINE 2		2	426, RIGHT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	
ENGINE 3		2	436, RIGHT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	
ENGINE 4		2	446, RIGHT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	

* SEE WDM EQUIPMENT LIST

Ignition - Component Index
Figure 101 (Sheet 1)

600299

Figure 25 74-00 Ignition Component Index Fig. 101 (Sheet 1)



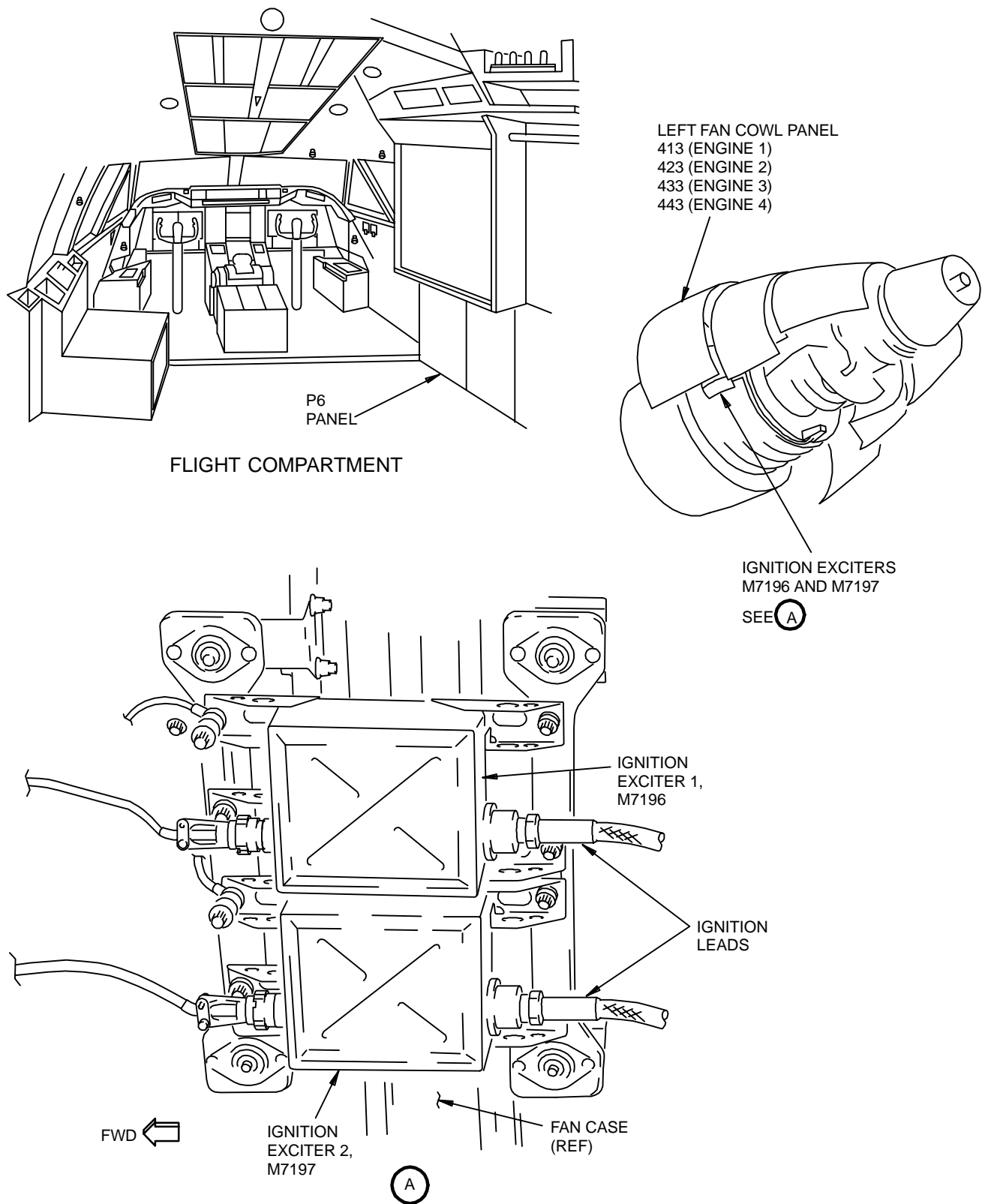
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RELAY - (REF 31-01-06, FIG. 101) AUTO IGNITION DUAL, R7532 AUTO IGNITION SINGLE, R7533 ENGINE 1 AUTO IGNITION TAI, R7634 ENGINE 1 FUEL CUTOFF, R7808 ENGINE 1 IGNITION DUAL CONT, R7841 ENGINE 1 IGNITION SINGLE CONT, R7840 ENGINE 1 IGNITION 1 AUTO STBY, R7848 ENGINE 1 IGNITION 2 AUTO STBY, R7471 ENGINE 2 AUTO IGNITION TAI, R7635 ENGINE 2 FUEL CUTOFF, R7809 ENGINE 2 IGNITION DUAL CONT, R7843 ENGINE 2 IGNITION SINGLE CONT, R7842 ENGINE 2 IGNITION 1 AUTO STBY, R7849 ENGINE 2 IGNITION 2 AUTO STBY, R7472 ENGINE 3 AUTO IGNITION TAI, R7636 ENGINE 3 FUEL CUTOFF, R7810 ENGINE 3 IGNITION DUAL CONT, R7845 ENGINE 3 IGNITION SINGLE CONT, R7844 ENGINE 3 IGNITION 1 AUTO STBY, R7850 ENGINE 3 IGNITION 2 AUTO STBY, R7473 ENGINE 4 AUTO IGNITION TAI, R7637 ENGINE 4 FUEL CUTOFF, R7811 ENGINE 4 IGNITION DUAL CONT, R7847 ENGINE 4 IGNITION SINGLE CONT, R7846 ENGINE 4 IGNITION 1 AUTO STBY, R7851 ENGINE 4 IGNITION 2 AUTO STBY, R7474 UNIT - (REF 31-61-00, FIG. 101) EFIS/EICAS INTERFACE NO. 1, M7351 EFIS/EICAS INTERFACE NO. 2, M7352 EFIS/EICAS INTERFACE NO. 3, M7353 UNIT - (REF 27-51-00, FIG. 101) FLAP CONTROL L, M7881 FLAP CONTROL R, M7879 UNIT - (REF 73-00-00, FIG. 101) ENGINE CONTROL, M7198				

Ignition - Component Index
Figure 101 (Sheet 2)

Figure 26 74-00 Ignition Component Index Fig. 101 (Sheet 2)

600302



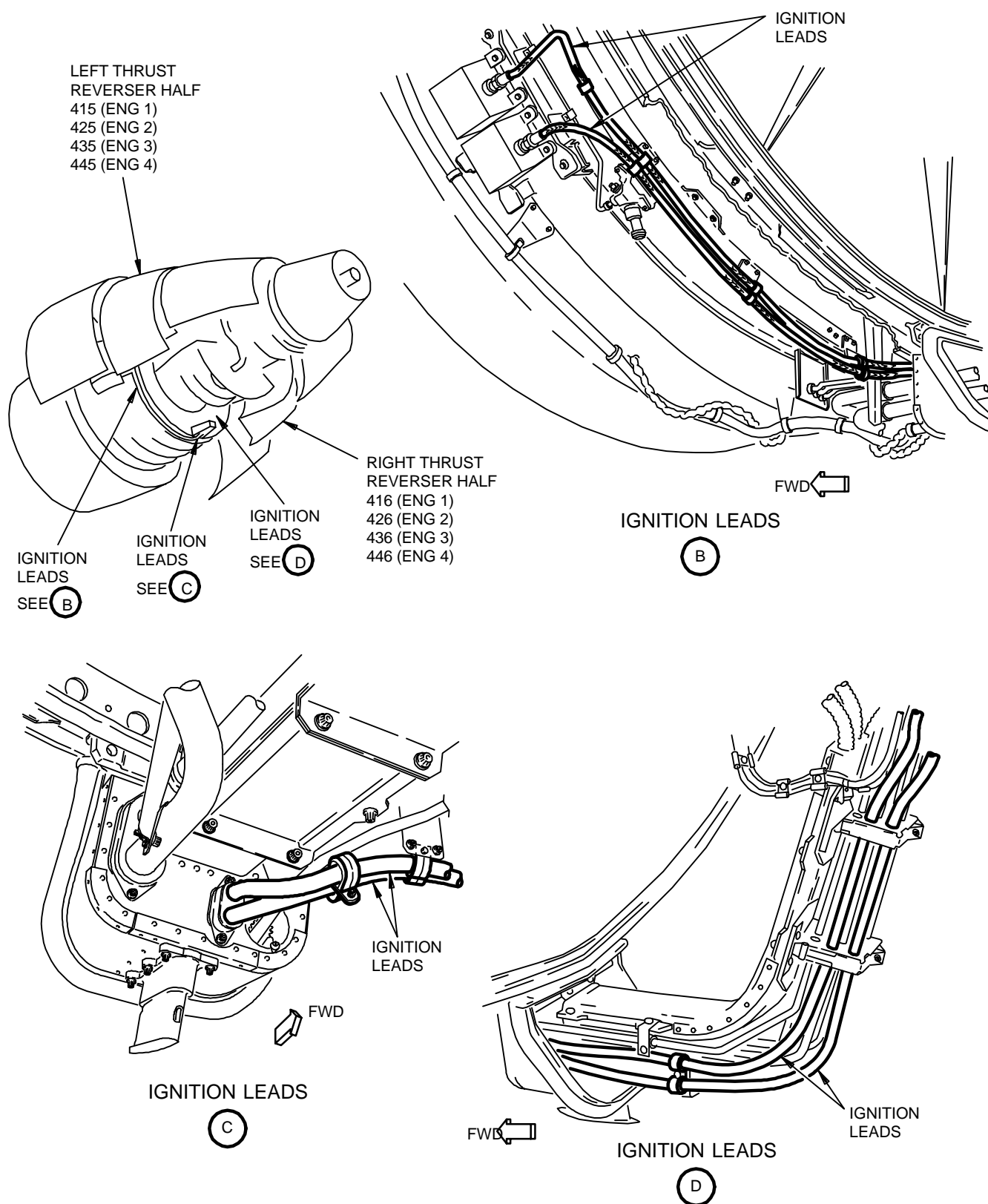


Ignition - Component Location
Figure 102 (Sheet 1)

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Figure 27 74-00 Ignition Component Location Fig. 102 (Sheet 1)

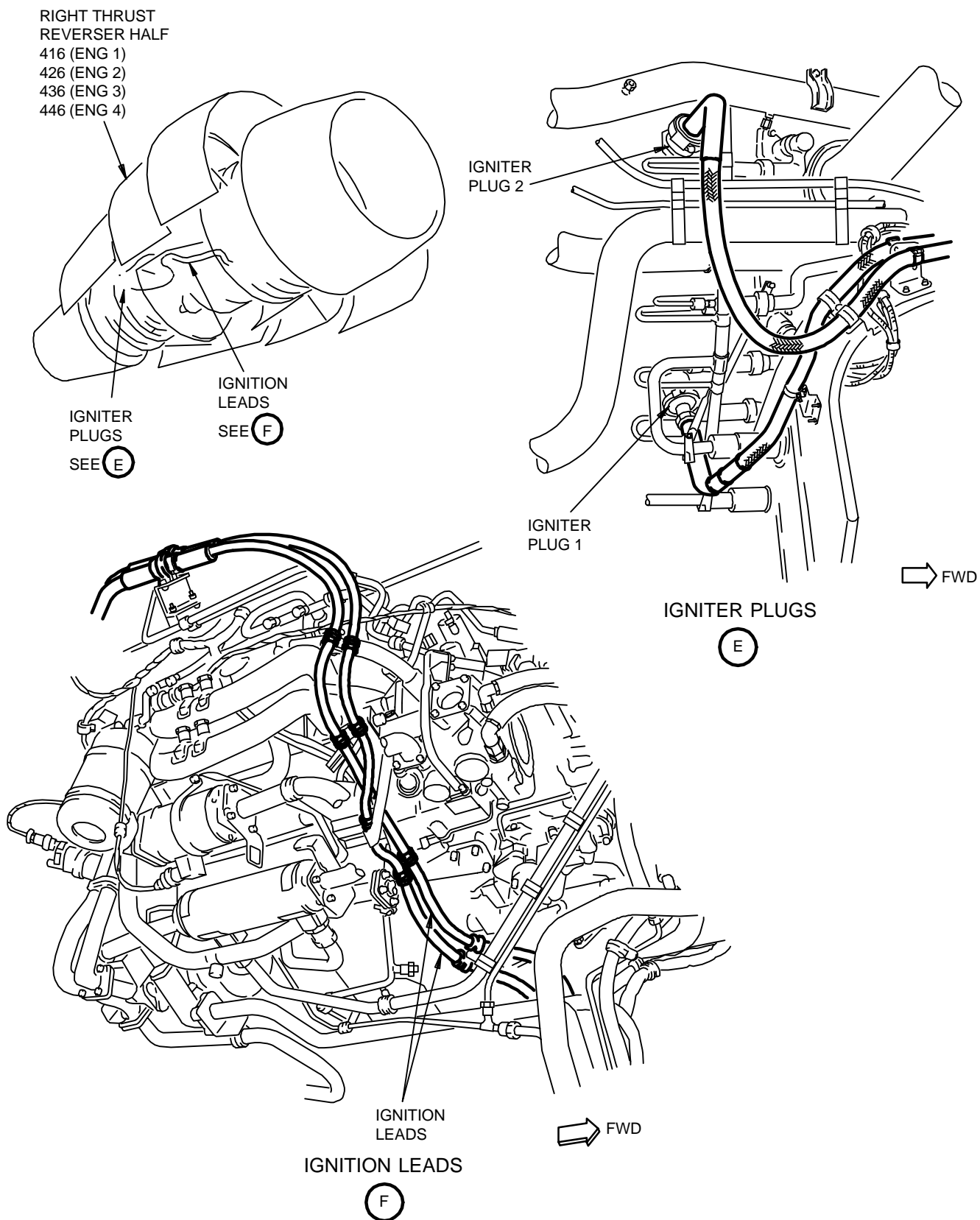




Ignition - Component Location
 Figure 102 (Sheet 2)

Figure 28 74-00 Ignition Component Location Fig. 102 (Sheet 2)





Ignition - Component Location
Figure 102 (Sheet 3)

599956

Figure 29 74-00 Ignition Component Location Fig. 102 (Sheet 3)

ATA 75-00 AIR

COMPONENT INDEX AND LOCATION



AIR

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - ENGINE 1 VARIABLE BYPASS VALVE	3	2	415, LEFT THRUST REVERSER HALF	75-32-01
ACTUATOR - ENGINE 2 VARIABLE BYPASS VALVE	3	2	416, RIGHT THRUST REVERSER HALF	75-32-01
ACTUATOR - ENGINE 3 VARIABLE BYPASS VALVE	3	2	425, LEFT THRUST REVERSER HALF	75-32-01
ACTUATOR - ENGINE 4 VARIABLE BYPASS VALVE	3	2	426, RIGHT THRUST REVERSER HALF	75-32-01
ACTUATOR - ENGINE 1 VARIABLE STATOR VANE	3	2	435, LEFT THRUST REVERSER HALF	75-32-01
ACTUATOR - ENGINE 2 VARIABLE STATOR VANE	3	2	436, RIGHT THRUST REVERSER HALF	75-32-01
ACTUATOR - ENGINE 3 VARIABLE STATOR VANE	3	2	445, LEFT THRUST REVERSER HALF	75-32-01
ACTUATOR - ENGINE 4 VARIABLE STATOR VANE	3	2	446, RIGHT THRUST REVERSER HALF	75-32-01
CIRCUIT BREAKERS -	1		415, LEFT THRUST REVERSER HALF	75-31-02
ENG 1 EEC PWR CH A, C10373		1	416, RIGHT THRUST REVERSER HALF	75-31-02
ENG 1 EEC PWR CH B, C10374		1	425, LEFT THRUST REVERSER HALF	75-31-02
ENG 2 EEC PWR CH A, C10375		1	426, RIGHT THRUST REVERSER HALF	75-31-02
ENG 2 EEC PWR CH B, C10376		1	435, LEFT THRUST REVERSER HALF	75-31-02
ENG 3 EEC PWR CH A, C10377		1	436, RIGHT THRUST REVERSER HALF	75-31-02
ENG 3 EEC PWR CH B, C10378		1	445, LEFT THRUST REVERSER HALF	75-31-02
ENG 4 EEC PWR CH A, C10379		1	446, RIGHT THRUST REVERSER HALF	75-31-02
ENG 4 EEC PWR CH B, C10380		1	117A, MAIN EQUIP CENTER, P180	
SOLENOID - ENGINE 1 11TH-STAGE COOLING VALVE	2	1	180J5	*
SOLENOID - ENGINE 2 11TH-STAGE COOLING VALVE	2	1	180J5	*
SOLENOID - ENGINE 3 11TH-STAGE COOLING VALVE	2	1	180F5	*
SOLENOID - ENGINE 4 11TH-STAGE COOLING VALVE	2	1	180F6	*
UNIT - (73-00-00/101)			180G20	*
ELECTRONIC CONTROL, M7198			180G21	*
HYDROMECHANICAL			180D20	*
VALVE - ENGINE 1 BORE COOLING	3	3	415, LEFT THRUST REVERSER HALF	75-24-12
VALVE - ENGINE 2 BORE COOLING	3	3	425, LEFT THRUST REVERSER HALF	75-24-12
VALVE - ENGINE 3 BORE COOLING	3	3	435, LEFT THRUST REVERSER HALF	75-24-12
VALVE - ENGINE 4 BORE COOLING	3	3	445, LEFT THRUST REVERSER HALF	75-24-12
			413, LEFT FAN COWL PANEL	75-21-01
			414, RIGHT FAN COWL PANEL	75-21-01
			423, LEFT FAN COWL PANEL	75-21-01
			424, RIGHT FAN COWL PANEL	75-21-01
			433, LEFT FAN COWL PANEL	75-21-01
			434, RIGHT FAN COWL PANEL	75-21-01
			443, LEFT FAN COWL PANEL	75-21-01
			444, RIGHT FAN COWL PANEL	75-21-01

* SEE THE WDM EQUIPMENT LIST

Air - Component Index
Figure 101 (Sheet 1)

Figure 30 75-00 Air Component Index Fig. 101 (Sheet 1)

578181



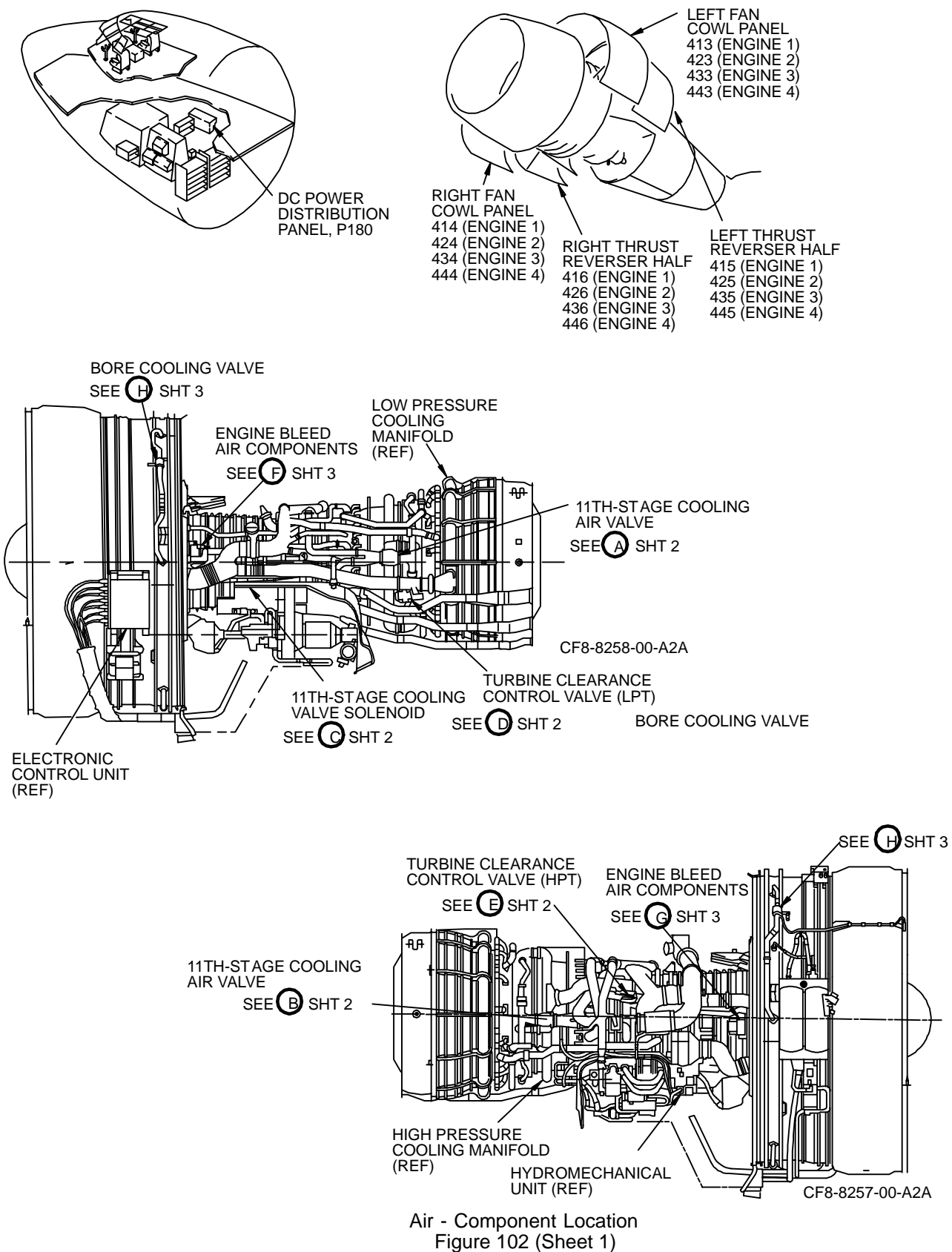
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
VALVE - ENGINE 1 CORE COMPARTMENT COOLING	3	1	415, LEFT THRUST REVERSER HALF	75-23-01
VALVE - ENGINE 2 CORE COMPARTMENT COOLING	3	1	425, LEFT THRUST REVERSER HALF	75-23-01
VALVE - ENGINE 3 CORE COMPARTMENT COOLING	3	1	435, LEFT THRUST REVERSER HALF	75-23-01
VALVE - ENGINE 4 CORE COMPARTMENT COOLING	3	1	445, LEFT THRUST REVERSER HALF	75-23-01
VALVE - ENGINE 1 11TH-STAGE COOLING AIR	2	2	415, LEFT THRUST REVERSER HALF 416, RIGHT THRUST REVERSER HALF	75-24-1 1
VALVE - ENGINE 2 11TH-STAGE COOLING AIR	2	2	425, LEFT THRUST REVERSER HALF 426, RIGHT THRUST REVERSER HALF	75-24-1 1
VALVE - ENGINE 3 11TH-STAGE COOLING AIR	2	2	435, LEFT THRUST REVERSER HALF 436, RIGHT THRUST REVERSER HALF	75-24-1 1
VALVE - ENGINE 4 11TH-STAGE COOLING AIR	2	2	445, LEFT THRUST REVERSER HALF 446, RIGHT THRUST REVERSER HALF	75-24-1 1
VALVE - ENGINE 1 TURBINE CLEARANCE CONTROL	2	2	415, LEFT THRUST REVERSER HALF 416, RIGHT THRUST REVERSER HALF	75-24-01
VALVE - ENGINE 2 TURBINE CLEARANCE CONTROL	2	2	425, LEFT THRUST REVERSER HALF 426, RIGHT THRUST REVERSER HALF	75-24-01
VALVE - ENGINE 3 TURBINE CLEARANCE CONTROL	2	2	435, LEFT THRUST REVERSER HALF 436, RIGHT THRUST REVERSER HALF	75-24-01
VALVE - ENGINE 4 TURBINE CLEARANCE CONTROL	2	2	445, LEFT THRUST REVERSER HALF 446, RIGHT THRUST REVERSER HALF	75-24-01
VALVE - ENGINE 1 VARIABLE BYPASS	3	12	415, LEFT THRUST REVERSER HALF 416, RIGHT THRUST REVERSER HALF	75-32-02
VALVE - ENGINE 2 VARIABLE BYPASS	3	12	425, LEFT THRUST REVERSER HALF 426, RIGHT THRUST REVERSER HALF	75-32-02
VALVE - ENGINE 3 VARIABLE BYPASS	3	12	435, LEFT THRUST REVERSER HALF 436, RIGHT THRUST REVERSER HALF	75-32-02
VALVE - ENGINE 4 VARIABLE BYPASS	3	12	445, LEFT THRUST REVERSER HALF 446, RIGHT THRUST REVERSER HALF	75-32-02

Air - Component Index
Figure 101 (Sheet 2)

Figure 31 75-00 Air Component Index Fig. 101 (Sheet 2)

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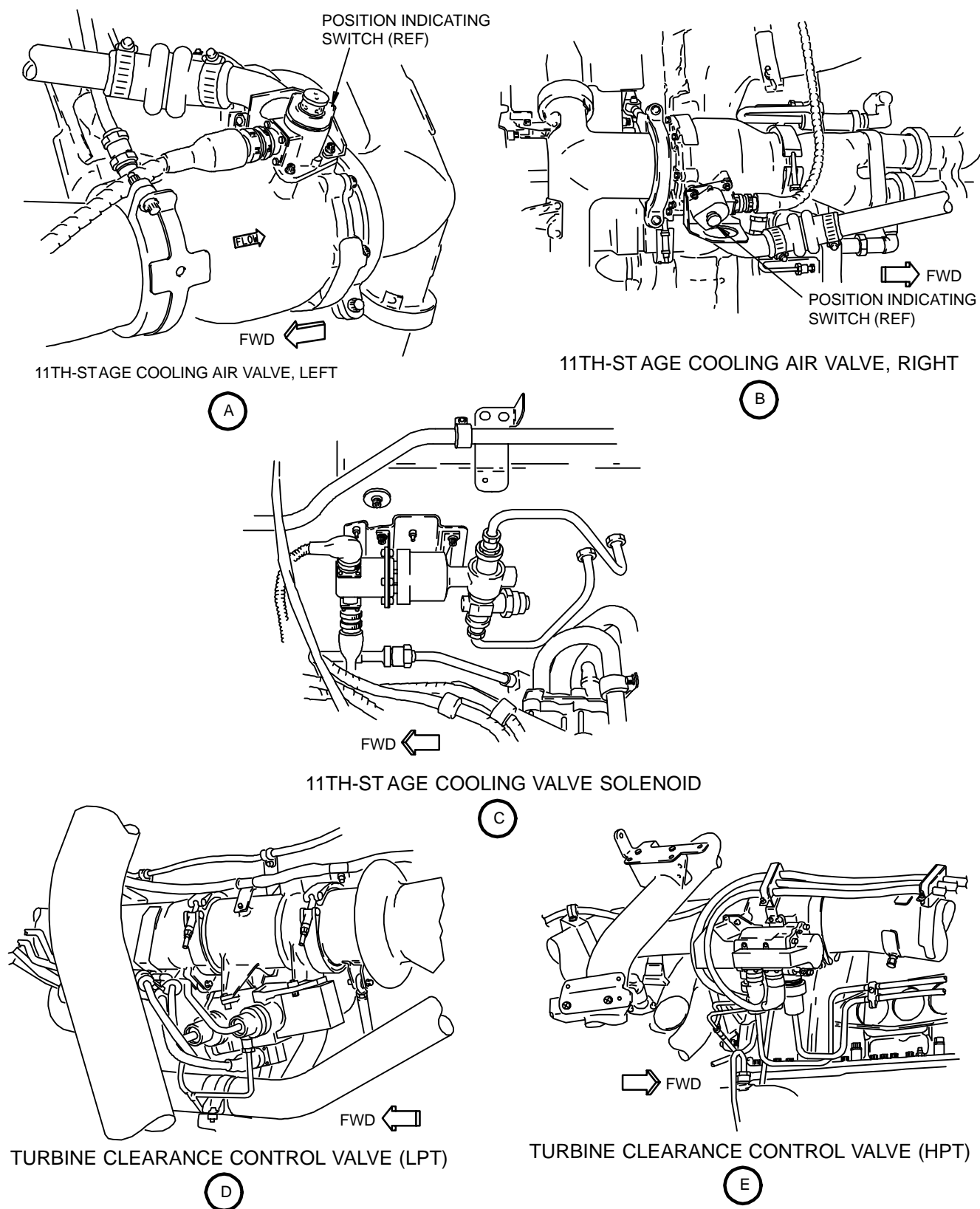




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Figure 32 75-00 Air Component Location Fig. 102 (Sheet 1)

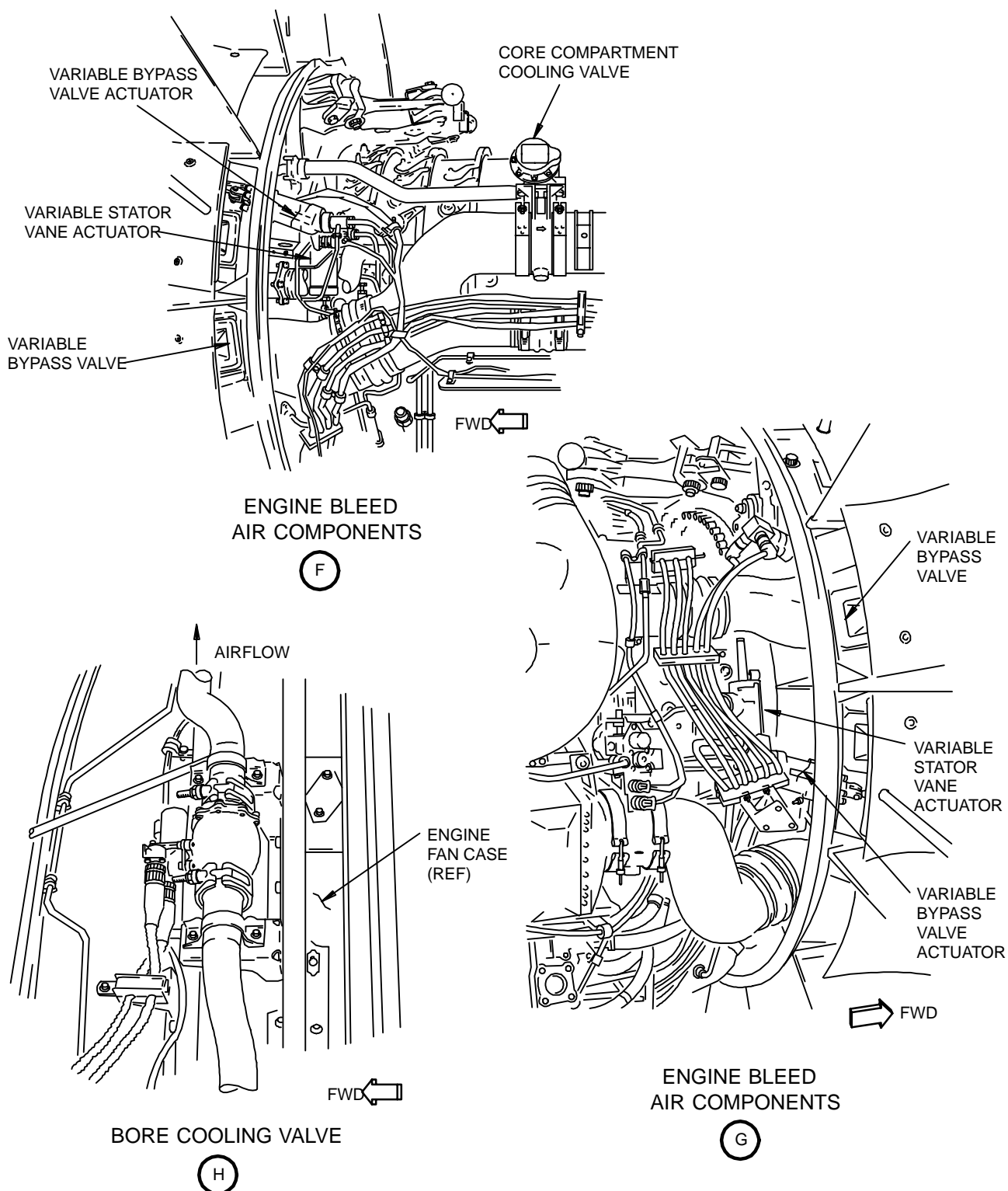




Air - Component Location
Figure 102 (Sheet 2)

Figure 33 75-00 Air Component Location Fig. 102 (Sheet 2)





Air - Component Location
Figure 102 (Sheet 3)

577072

Figure 34 75-00 Air Component Location Fig. 102 (Sheet 3)



ATA 76-00

ENGINE CONTROL SYSTEM



ENGINE CONTROL SYSTEM

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ASSEMBLY - AUTOTHROTTLE BRAKE	2	1	FLT COMPT, CONTROL STAND	76-11-05
ASSEMBLY - MICROSWITCH PACK	1	1	FLT COMPT, CONTROL STAND	76-11-03
ASSEMBLY - THRUST LEVER PACK	2	1	FLT COMPT, CONTROL STAND	76-11-01
CARDS - (29-30-00/101)				
HYDIM 1, ENG 1, YMLA020				
HYDIM 2, ENG 2, YMLA021				
HYDIM 3, ENG 3, YMLA022				
HYDIM 4, ENG 4, YMLA022				
CIRCUIT BREAKERS -	1		FLT COMPT, P7	
FMCS A/T SERVO EXC, C10333		1	7C25	*
FMCS A/T SERVO L, C8854		1	7C4	*
FMCS A/T SERVO R, C8855		1	7C26	*
CIRCUIT BREAKERS -	1		FLT COMPT, P6	
FUEL CONT VALVE ENG 1, C1040		1	6L10	*
FUEL CONT VALVE ENG 2, C1041		1	6L11	*
FUEL CONT VALVE ENG 3, C1042		1	6L12	*
FUEL CONT VALVE ENG 4, C1043		1	6L13	*
DIODES - (31-01-36/101)				
ISOLATION, M3439				
ISOLATION, M3440				
ISOLATION, M3441				
ISOLATION, M3442				
MOTOR - A/T SERVO, M7444	3	1	FLT COMPT, CONTROL STAND	76-12-01
RELAYS - (31-01-36/101)				
FUEL CUTOFF, ENG 1, R8142				
FUEL CUTOFF, ENG 2, R8143				
FUEL CUTOFF, ENG 3, R8144				
FUEL CUTOFF, ENG 4, R8145				
RELAYS - (31-01-36/101)				
FUEL/IGN CONT, ENG 1, R7307				
FUEL/IGN CONT, ENG 2, R7308				
FUEL/IGN CONT, ENG 3, R7309				
FUEL/IGN CONT, ENG 4, R7310				

* SEE THE WDM EQUIPMENT LIST

1 RELAY R8142-R8145 IS INSTALLED ON AIRPLANE AFA 301 ONLY

Engine Control System - Component Index
Figure 101 (Sheet 1)

685938

Figure 35 76-00 Engine Control System Component Index Fig. 101 (Sheet 1)



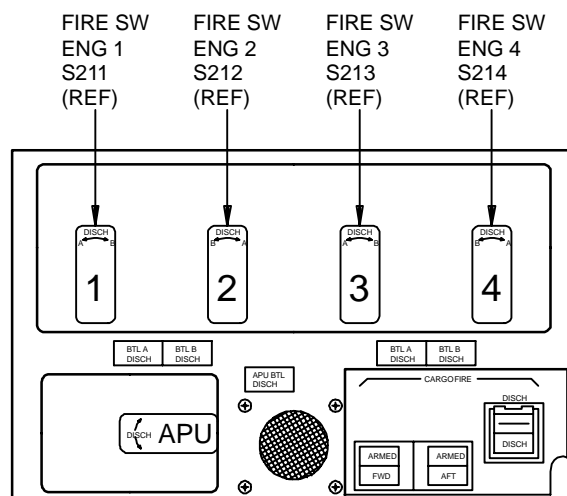
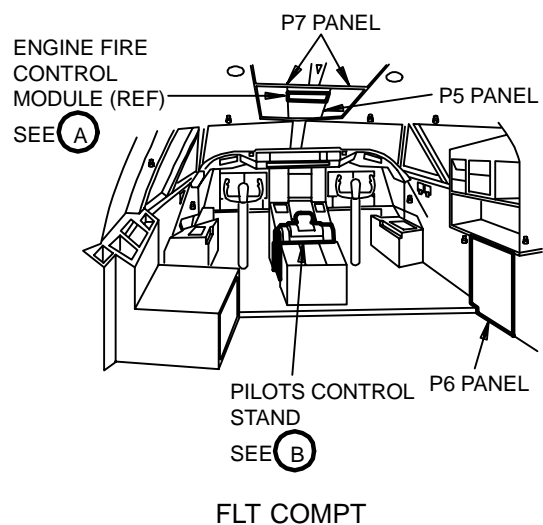
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RESOLVER - THRUST LEVER POSITION (TLA) T1742,T1743,T1744,T1745	2	4	PASS COMPT, CEILING PANELS UNDER CONTROL STAND	76-11-02
SWITCH - A/T DISCONNECT, S7	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - A/T DISCONNECT, S9	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - A/T GO AROUND L, S1	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - A/T GO AROUND L, S2	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - A/T GO AROUND R, S5	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - A/T GO AROUND R, S6	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - A/T RESET, S8	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - A/T RESET, S10	3	1	FLT COMPT, CONTROL STAND	76-12-02
SWITCH - (REF 26-21-00, FIG. 101) FIRE, ENG 1, S211 FIRE, ENG 2, S212 FIRE, ENG 3, S213 FIRE, ENG 4, S214				
SWITCH - FUEL CONT, ENG 1, S1863	2	1	FLT COMPT, CONTROL STAND	76-11-03
SWITCH - FUEL CONT, ENG 2, S1864	2	1	FLT COMPT, CONTROL STAND	76-11-03
SWITCH - FUEL CONT, ENG 3, S1865	2	1	FLT COMPT, CONTROL STAND	76-11-03
SWITCH - FUEL CONT, ENG 4, S1866	2	1	FLT COMPT, CONTROL STAND	76-11-03
UNIT - (REF 31-61-00, FIG. 101) C, EFIS/EICAS INTERFACE M7352 L, EFIS/EICAS INTERFACE M7353 R, EFIS/EICAS INTERFACE M7351				

Engine Control System - Component Index
Figure 101 (Sheet 2)

Figure 36 76-00 Engine Control System Component Index Fig. 101 (Sheet 2)

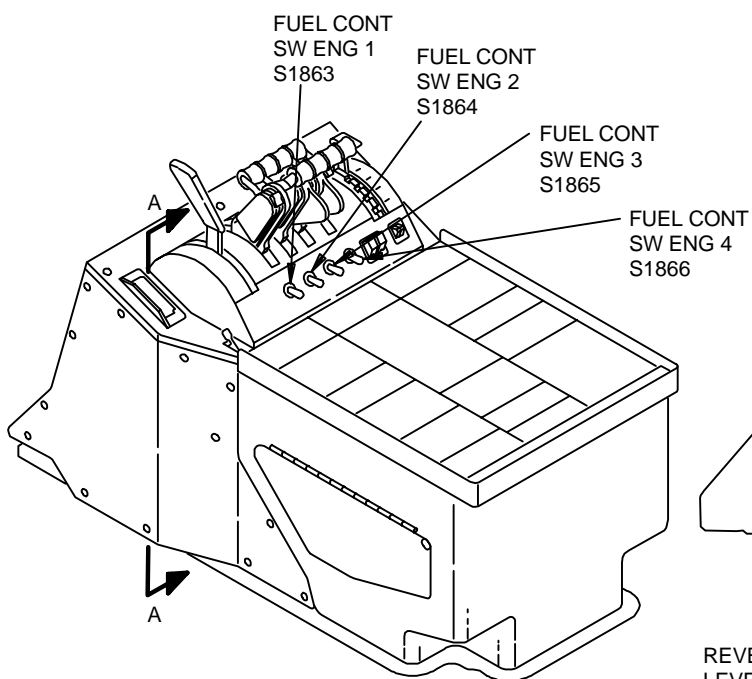
611507





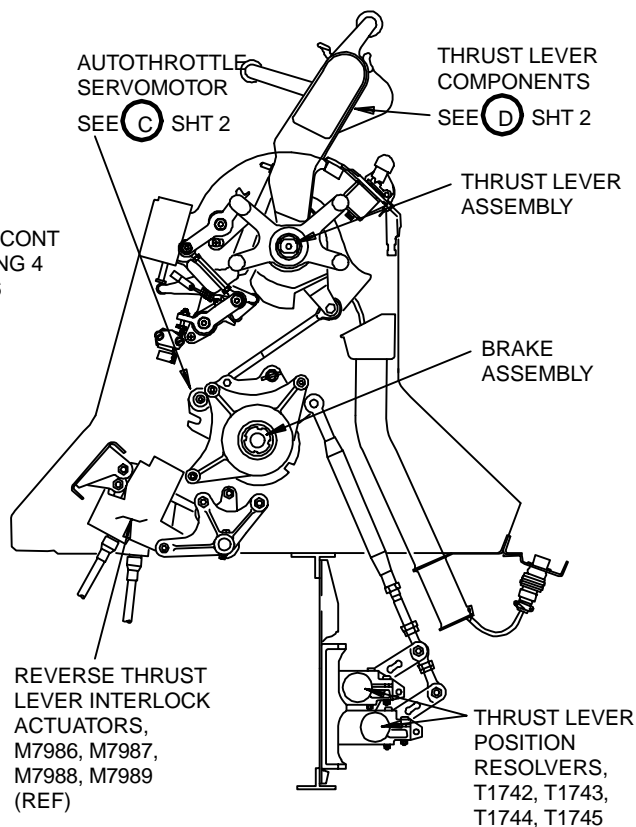
ENGINE FIRE CONTROL MODULE (REF)

(A)



PILOTS CONTROL STAND

(B)



PILOTS CONTROL STAND

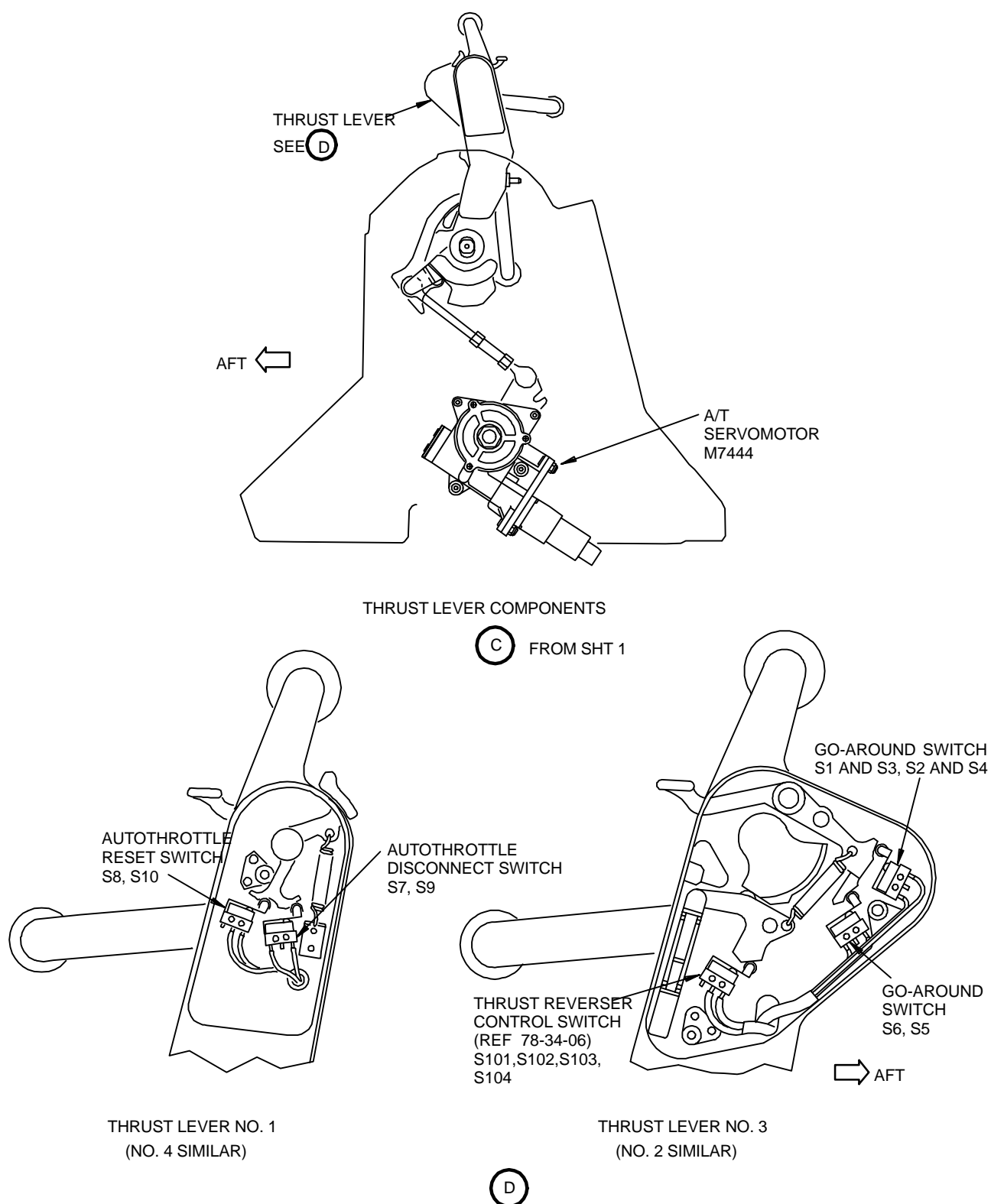
A-A

Engine Control System - Component Location
Figure 102 (Sheet 1)

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Figure 37 76-00 Engine Control System Component Location Fig. 102 (Sheet 1)





Engine Controls - Component Location
Figure 102 (Sheet 2)

Figure 38 76-00 Engine Controls Component Location Fig. 102 (Sheet 2)

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ATA 77-00 ENGINE INDICATIONS

COMONENT INDEX AND LOCATION



ENGINE INDICATING

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACCELEROMETER - ENGINE CORE, ENG 1, T676	3	1	415, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-31-02
ACCELEROMETER - ENGINE CORE, ENG 2, T676	3	1	425, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-31-02
ACCELEROMETER - ENGINE CORE, ENG 3, T676	3	1	435, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-31-02
ACCELEROMETER - ENGINE CORE, ENG 4, T676	3	1	445, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-31-02
ACCELEROMETER - ENGINE FAN, ENG 1, T677	3	1	415, LEFT THRUST REVERSER HALF, NO. 8 FAN FRAME STRUT	77-31-01
ACCELEROMETER - ENGINE FAN, ENG 2, T677	3	1	425, LEFT THRUST REVERSER HALF, NO. 8 FAN FRAME STRUT	77-31-01
ACCELEROMETER - ENGINE FAN, ENG 3, T677	3	1	435, LEFT THRUST REVERSER HALF, NO. 8 FAN FRAME STRUT	77-31-01
ACCELEROMETER - ENGINE FAN, ENG 4, T677	3	1	445, LEFT THRUST REVERSER HALF, NO. 8 FAN FRAME STRUT	77-31-01
CABLE - EGT THERMOCOUPLE, ENG 1	2	2	417 AND 418, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-02
CABLE - EGT THERMOCOUPLE, ENG 2	2	2	427 AND 428, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-02
CABLE - EGT THERMOCOUPLE, ENG 3	2	2	437 AND 438, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-02
CABLE - EGT THERMOCOUPLE, ENG 4	2	2	447 AND 448, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-02
CARD - ENGINE SPEED, ENG 1, YMLA001	1	1	115, LEFT HAND AREA BETWEEN NOSE GEAR WELL AND FUSELAGE	77-12-01
CARD - ENGINE SPEED, ENG 2, YMLA003	1	1	115, LEFT HAND AREA BETWEEN NOSE GEAR WELL AND FUSELAGE	77-12-01
CARD - ENGINE SPEED, ENG 3, YMLA005	1	1	115, LEFT HAND AREA BETWEEN NOSE GEAR WELL AND FUSELAGE	77-12-01
CARD - ENGINE SPEED, ENG 4, YMLA007	1	1	115, LEFT HAND AREA BETWEEN NOSE GEAR WELL AND FUSELAGE	77-12-01
CIRCUIT BREAKER			FLT COMPT, P6	
VIB AMP ENG 1&2, C101		1	6H26	*
VIB AMP ENG 3&4, C10090		1	6H27	*
JUNCTION BOX - EGT SHUNT, ENG 1	2	1	417, LEFT CORE COWL PANEL, DIFFUSER CASE	77-21-03
JUNCTION BOX - EGT SHUNT, ENG 2	2	1	427, LEFT CORE COWL PANEL, DIFFUSER CASE	77-21-03
JUNCTION BOX - EGT SHUNT, ENG 3	2	1	437, LEFT CORE COWL PANEL, DIFFUSER CASE	77-21-03
JUNCTION BOX - EGT SHUNT, ENG 4	2	1	447, LEFT CORE COWL PANEL, DIFFUSER CASE	77-21-03

* SEE WDM EQUIPMENT LIST

Engine Indicating - Component Index
Figure 101 (Sheet 1)

683748

Figure 39 77-00 Engine Indication Component Index Fig. 101 (Sheet 1)



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
PROBE - EGT THERMOCOUPLE, ENG 1	2	8	417 AND 418, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-01
PROBE - EGT THERMOCOUPLE, ENG 2	2	8	427 AND 428, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-01
PROBE - EGT THERMOCOUPLE, ENG 3	2	8	437 AND 438, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-01
PROBE - EGT THERMOCOUPLE, ENG 4	2	8	447 AND 448, LEFT AND RIGHT CORE COWL PANELS, TURBINE EXHAUST CASE	77-21-01
PROBE - P49 PRESSURE, ENG 1	4	1	417, LEFT CORE COWL PANEL, LOW PRESSURE TURBINE CASE	77-34-03
PROBE - P49 PRESSURE, ENG 2	4	1	427, LEFT CORE COWL PANEL, LOW PRESSURE TURBINE CASE	77-34-03
PROBE - P49 PRESSURE, ENG 3	4	1	437, LEFT CORE COWL PANEL, LOW PRESSURE TURBINE CASE	77-34-03
PROBE - P49 PRESSURE, ENG 4	4	1	447, LEFT CORE COWL PANEL, LOW PRESSURE TURBINE CASE	77-34-03
PROBE - T5 TEMPERATURE, ENG 1	3	1	417, LEFT CORE COWL PANEL, TURBINE REAR FRAME	77-34-07
PROBE - T5 TEMPERATURE, ENG 2	3	1	427, LEFT CORE COWL PANEL, TURBINE REAR FRAME	77-34-07
PROBE - T5 TEMPERATURE, ENG 3	3	1	437, LEFT CORE COWL PANEL, TURBINE REAR FRAME	77-34-07
PROBE - T5 TEMPERATURE, ENG 4	3	1	447, LEFT CORE COWL PANEL, TURBINE REAR FRAME	77-34-07
SENSOR - N1 FAN SHAFT SPEED, ENG 1, T430	4	1	414, RIGHT FAN COWL PANEL, NO. 3 FAN FRAME STRUT	77-12-01
SENSOR - N1 FAN SHAFT SPEED, ENG 2, T430	4	1	424, RIGHT FAN COWL PANEL, NO. 3 FAN FRAME STRUT	77-12-01
SENSOR - N1 FAN SHAFT SPEED, ENG 3, T430	4	1	434, RIGHT FAN COWL PANEL, NO. 3 FAN FRAME STRUT	77-12-01
SENSOR - N1 FAN SHAFT SPEED, ENG 4, T430	4	1	444, RIGHT FAN COWL PANEL, NO. 3 FAN FRAME STRUT	77-12-01
SENSOR - N2 SPEED, ENG 1, T417	4	1	416, RIGHT THRUST REVERSER HALF, ACCESSORY GEARBOX	77-12-02
SENSOR - N2 SPEED, ENG 2, T417	4	1	426, RIGHT THRUST REVERSER HALF, ACCESSORY GEARBOX	77-12-02
SENSOR - N2 SPEED, ENG 3, T417	4	1	436, RIGHT THRUST REVERSER HALF, ACCESSORY GEARBOX	77-12-02
SENSOR - N2 SPEED, ENG 4, T417	4	1	446, RIGHT THRUST REVERSER HALF, ACCESSORY GEARBOX	77-12-02

Engine Indicating - Component Index
Figure 101 (Sheet 2)

Figure 40 77-00 Engine Indicating Component Index Fig. 101 (Sheet 2)

683764



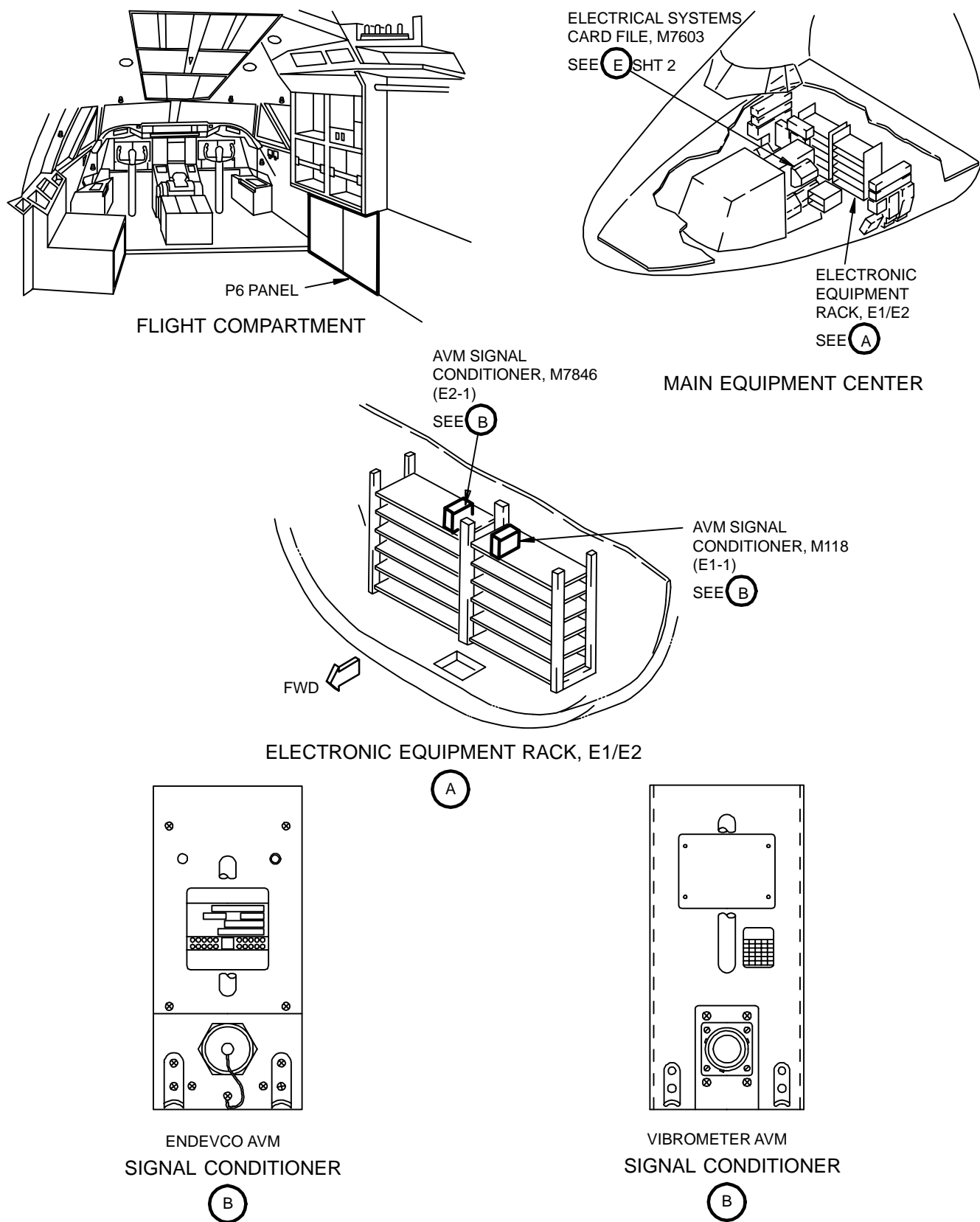
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
SENSOR - PS14 PRESSURE, ENG 1	2	1	413, LEFT FAN COWL PANEL, FAN CASE	77-34-01
SENSOR - PS14 PRESSURE, ENG 2	2	1	423, LEFT FAN COWL PANEL, FAN CASE	77-34-01
SENSOR - PS14 PRESSURE, ENG 3	2	1	433, LEFT FAN COWL PANEL, FAN CASE	77-34-01
SENSOR - PS14 PRESSURE, ENG 4	2	1	443, LEFT FAN COWL PANEL, FAN CASE	77-34-01
SENSOR - T3 TEMPERATURE, ENG 1	3	1	415, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-34-04
SENSOR - T3 TEMPERATURE, ENG 2	3	1	425, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-34-04
SENSOR - T3 TEMPERATURE, ENG 3	3	1	435, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-34-04
SENSOR - T3 TEMPERATURE, ENG 4	3	1	445, LEFT THRUST REVERSER HALF, COMPRESSOR REAR FRAME	77-34-04
SIGNAL CONDITIONER - AIRBORNE VIBRATION MONITOR, ENG 1&2, M118	1	1	117, LEFT HAND ELECTRICAL AND ELECTRONICS COMPARTMENT, E1-1	77-31-03
SIGNAL CONDITIONER - AIRBORNE VIBRATION MONITOR, ENG 3&4, M7846	1	1	118, RIGHT HAND ELECTRICAL AND ELECTRONICS COMPARTMENT, E2-1	77-31-03
UNIT - (REF 31-61-00, FIG.101) EFIS/EICAS INTERFACE, M7351 EFIS/EICAS INTERFACE, M7352 EFIS/EICAS INTERFACE, M7353				

Engine Indicating - Component Index
Figure 101 (Sheet 3)

Figure 41 77-00 Engine Indicating Component Index Fig. 101 (Sheet 3)

683771



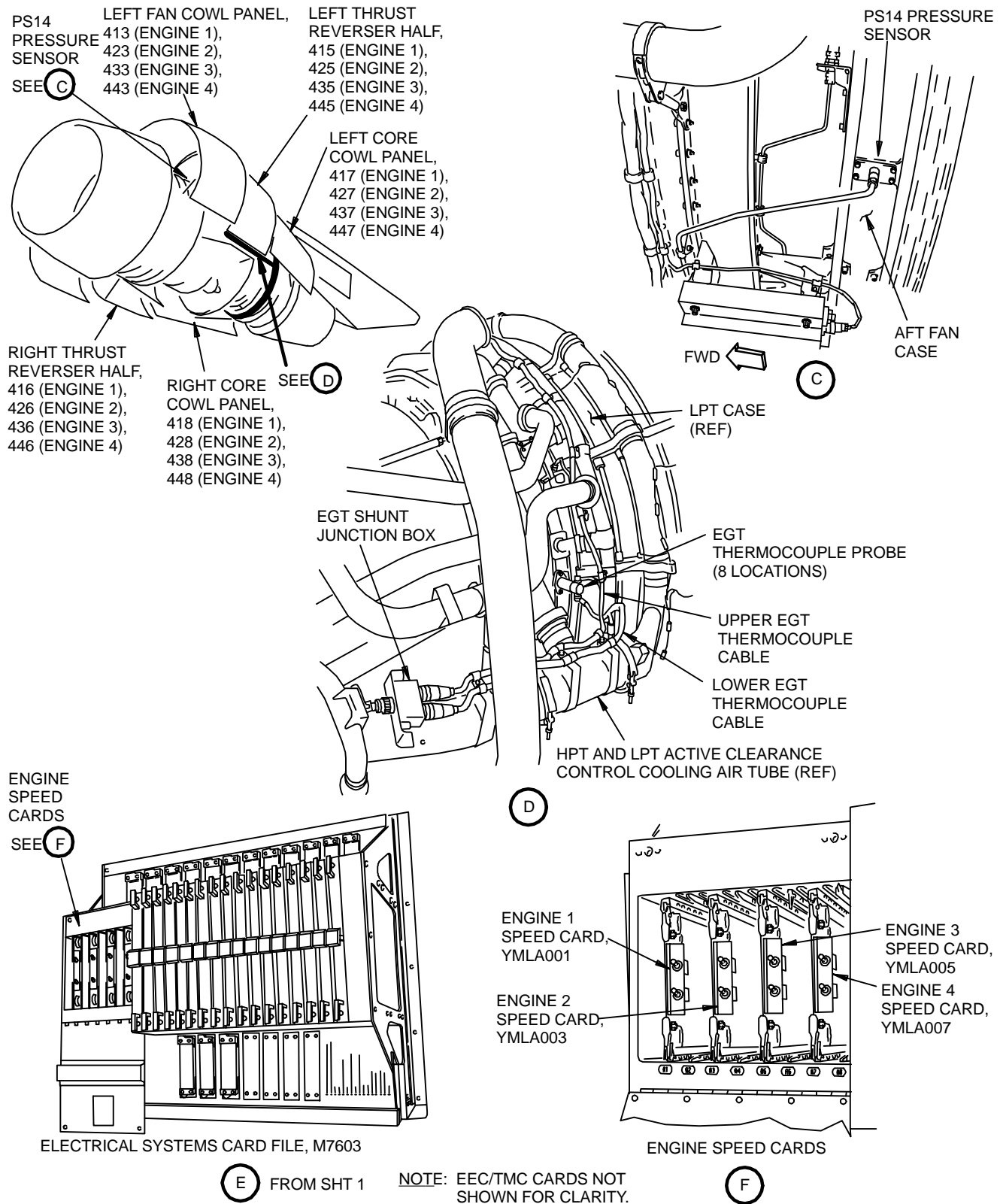


Engine Indicating - Component Location
Figure 102 (Sheet 1)

Figure 42 77-00 Engine Indication Component Location Fig. 102 (Sheet 1)

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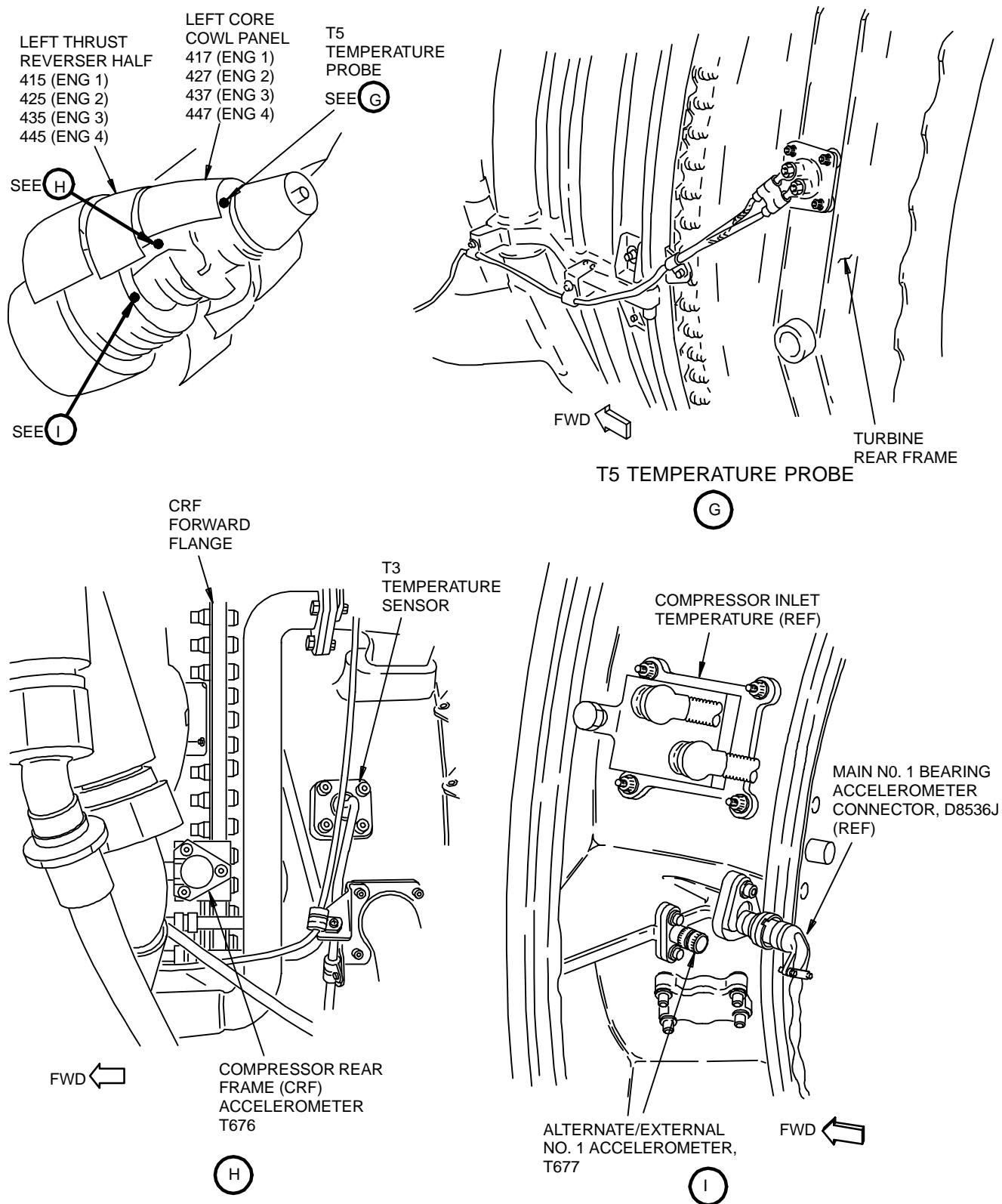


Engine Indicating - Component Location
Figure 102 (Sheet 2)

Figure 43 77-00 Engine Indication Component Location Fig. 102 (Sheet 2)

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Engine Indicating Component Location
Figure 102 (Sheet 3)

Figure 44 77-00 Engine Indication Component Location Fig. 102 (Sheet 3)



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ATA 78-00 EXHAUST

COMPONENT INDEX AND LOCATION



EXHAUST

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ACTUATOR - ANGLE GEARBOX AND BALLSCREW				78-31-22
ENG 1 L REVERSER HALF	3	2	415, L THRUST REVERSER TORQUE BOX	
ENG 1 R REVERSER HALF	3	2	416, R THRUST REVERSER TORQUE BOX	
ENG 2 L REVERSER HALF	3	2	425, L THRUST REVERSER TORQUE BOX	
ENG 2 R REVERSER HALF	3	2	426, R THRUST REVERSER TORQUE BOX	
ENG 3 L REVERSER HALF	3	2	435, L THRUST REVERSER TORQUE BOX	
ENG 3 R REVERSER HALF	3	2	436, R THRUST REVERSER TORQUE BOX	
ENG 4 L REVERSER HALF	3	2	445, L THRUST REVERSER TORQUE BOX	
ENG 4 R REVERSER HALF	3	2	446, R THRUST REVERSER TORQUE BOX	
ACTUATOR - OPENING				78-31-06
ENG 1 L REVERSER HALF	5	1	415, L THRUST REVERSER HALF	
ENG 1 R REVERSER HALF	5	1	416, R THRUST REVERSER HALF	
ENG 2 L REVERSER HALF	5	1	425, L THRUST REVERSER HALF	
ENG 2 R REVERSER HALF	5	1	426, R THRUST REVERSER HALF	
ENG 3 L REVERSER HALF	5	1	435, L THRUST REVERSER HALF	
ENG 3 R REVERSER HALF	5	1	436, R THRUST REVERSER HALF	
ENG 4 L REVERSER HALF	5	1	445, L THRUST REVERSER HALF	
ENG 4 R REVERSER HALF	5	1	446, R THRUST REVERSER HALF	
ACTUATOR - REVERSE THRUST LEVER INTERLOCK				78-34-03
ENG 1, M7986	9	1	FLT DECK CONTROL STAND	
ENG 2, M7987	9	1	FLT DECK CONTROL STAND	
ENG 3, M7988	9	1	FLT DECK CONTROL STAND	
ENG 4, M7989	9	1	FLT DECK CONTROL STAND	
CABLE - BLOWOUT DOOR				78-31-19
ENG 1	6	2	415, THRUST REVERSER BLOWOUT DOOR	
ENG 2	6	2	425, THRUST REVERSER BLOWOUT DOOR	
ENG 3	6	2	435, THRUST REVERSER BLOWOUT DOOR	
ENG 4	6	2	445, THRUST REVERSER BLOWOUT DOOR	
CABLES - ELECTRICAL				78-31-23
ENG 1	3	2	415 AND 416, THRUST REVERSER HALVES	
ENG 2	3	2	425 AND 426, THRUST REVERSER HALVES	
ENG 3	3	2	435 AND 436, THRUST REVERSER HALVES	
ENG 4	3	2	445 AND 446, THRUST REVERSER HALVES	
CIRCUIT BREAKERS -			FLT COMPARTMENT, P6	
ENG 1 T/R CONT			6F13	*
ENG 1 T/R IND			6F12	*
ENG 2 T/R CONT			6E13	*
ENG 2 T/R IND			6E12	*
ENG 3 T/R CONT			6D13	*
ENG 3 T/R IND			6D12	*
ENG 4 T/R CONT			6C13	*
ENG 4 T/R IND			6C12	*

* SEE WDM EQUIPMENT LIST

Exhaust - Component Index
Figure 101 (Sheet 1)

Figure 45 78-00 Exhaust Component Index Fig. 101 (Sheet 1)

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
COWL - TRANSLATING				
ENG 1	2	2	415 AND 416, THRUST REVERSER HALVES	78-31-10
ENG 2	2	2	425 AND 426, THRUST REVERSER HALVES	
ENG 3	2	2	435 AND 436, THRUST REVERSER HALVES	
ENG 4	2	2	445 AND 446, THRUST REVERSER HALVES	
DEFLECTORS -				
ENG 1	2	32	415 AND 416, THRUST REVERSER HALVES	78-31-16
ENG 2	2	32	425 AND 426, THRUST REVERSER HALVES	
ENG 3	2	32	435 AND 436, THRUST REVERSER HALVES	
ENG 4	2	32	445 AND 446, THRUST REVERSER HALVES	
DOOR - ACCESS				
ENG 1	6	1	415, L THRUST REVERSER HALF	78-31-19
ENG 2	6	1	425, L THRUST REVERSER HALF	
ENG 3	6	1	435, L THRUST REVERSER HALF	
ENG 4	6	1	445, L THRUST REVERSER HALF	
DOOR - BLOWOUT				
ENG 1	6	1	415, L THRUST REVERSER HALF	78-31-19
ENG 2	6	1	425, L THRUST REVERSER HALF	
ENG 3	6	1	435, L THRUST REVERSER HALF	
ENG 4	6	1	445, L THRUST REVERSER HALF	
DOOR - BLOCKER				
ENG 1	2	12	415 AND 416, THRUST REVERSER HALVES	78-31-14
ENG 2	2	12	425 AND 426, THRUST REVERSER HALVES	
ENG 3	2	12	435 AND 436, THRUST REVERSER HALVES	
ENG 4	2	12	445 AND 446, THRUST REVERSER HALVES	
FILTER - DIRECTIONAL PILOT VALVE				
ENG 1	4	1	413, L FAN COWL PANEL	78-34-02
ENG 2	4	1	423, L FAN COWL PANEL	
ENG 3	4	1	433, L FAN COWL PANEL	
ENG 4	4	1	443, L FAN COWL PANEL	
HINGE - BLOCKER DOOR				
ENG 1	2	24	415 AND 416, THRUST REVERSER HALVES	78-31-17
ENG 2	2	24	425 AND 426, THRUST REVERSER HALVES	
ENG 3	2	24	435 AND 436, THRUST REVERSER HALVES	
ENG 4	2	24	445 AND 446, THRUST REVERSER HALVES	

* SEE WDM EQUIPMENT LIST

Exhaust - Component Index
Figure 101 (Sheet 2)

Figure 46 78-00 Exhaust Component Index Fig. 101 (Sheet 2)

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COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
HOSE - OPENING ACTUATOR FLEXIBLE				78-31-08
ENG 1	5	2	415 AND 416, THRUST REVERSER HALVES	
ENG 2	5	2	425 AND 426, THRUST REVERSER HALVES	
ENG 3	5	2	435 AND 436, THRUST REVERSER HALVES	
ENG 4	5	2	445 AND 446, THRUST REVERSER HALVES	
LATCH - TENSION				78-31-04
ENG 1	8	3	415 AND 416, THRUST REVERSER HALVES	
ENG 2	8	3	425 AND 426, THRUST REVERSER HALVES	
ENG 3	8	3	435 AND 436, THRUST REVERSER HALVES	
ENG 4	8	3	445 AND 446, THRUST REVERSER HALVES	
LINKS - BLOCKER DOOR DRAG				78-31-15
ENG 1	2	12	415 AND 416, THRUST REVERSER HALVES	
ENG 2	2	12	425 AND 426, THRUST REVERSER HALVES	
ENG 3	2	12	435 AND 436, THRUST REVERSER HALVES	
ENG 4	2	12	445 AND 446, THRUST REVERSER HALVES	
MODULE - CENTER DRIVE UNIT POSITION SWITCH				78-36-01
ENG 1	4		414, R FAN COWL PANEL	
ENG 2	4		424, R FAN COWL PANEL	
ENG 3	4		434, R FAN COWL PANEL	
ENG 4	4		444, R FAN COWL PANEL	
PLUG - TURBINE EXHAUST				78-11-02
ENG 1	1	1	AFT END OF ENGINE	
ENG 2	1	1	AFT END OF ENGINE	
ENG 3	1	1	AFT END OF ENGINE	
ENG 4	1	1	AFT END OF ENGINE	
RELAYS - (REF 31-01-06, FIG. 101)				
ENG 1 INTERLOCK, R7640				
ENG 2 INTERLOCK, R7641				
ENG 3 INTERLOCK, R7642				
ENG 4 INTERLOCK, R7643				

* SEE WDM EQUIPMENT LIST

Exhaust - Component Index
Figure 101 (Sheet 3)

Figure 47 78-00 Exhaust Component Index Fig. 101 (Sheet 3)

607287



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RELAYS - (REF 31-01-36, FIG. 101) ENG 1 T/R DEPLOY, R7142 ENG 1 T/R DISAGREE, R7371 ENG 1 T/R HYDRAULIC ISLN VALVE, R7375 ENG 1 T/R INDICATION, R7132 ENG 1 T/R ISLN DETECTOR, R7367 ENG 1 T/R VALVE, R7128 ENG 2 T/R DEPLOY, R7143 ENG 2 T/R DISAGREE, R7372 ENG 2 T/R HYDRAULIC ISLN VALVE, R7376 ENG 2 T/R INDICATION, R7133 ENG 2 T/R ISLN DETECTOR, R7368 ENG 2 T/R VALVE, R7129 RELAYS - (REF 31-01-39, FIG. 101) ENG 1 T/R GROUND SAFETY, R7364 ENG 2 T/R GROUND SAFETY, R7366 ENG 3 T/R DEPLOY, R7144 ENG 3 T/R DISAGREE, R7373 ENG 3 T/R GROUND SAFETY, R7365 ENG 3 T/R HYDRAULIC ISLN VALVE, R7377 ENG 3 T/R INDICATION, R7134 ENG 3 T/R ISLN DETECTOR, R7369 ENG 3 T/R VALVE, R7130 ENG 4 T/R DEPLOY, R7145 ENG 4 T/R DISAGREE, R7374 ENG 4 T/R GROUND SAFETY, R7363 ENG 4 T/R HYDRAULIC ISLN VALVE, R7378 ENG 4 T/R INDICATION, R7135 ENG 4 T/R ISLN DETECTOR, R7370 GROUND SAFETY, R8015 GROUND SAFETY, R8016 REVERSER - THRUST ENG 1 ENG 2 ENG 3 ENG 4 RING - THRUST REVERSER LATCH ENG 1 ENG 2 ENG 3 ENG 4				
	2	2	415 AND 416, THRUST REVERSER HALVES	78-31-01
	2	2	425 AND 426, THRUST REVERSER HALVES	
	2	2	435 AND 436, THRUST REVERSER HALVES	
	2	2	445 AND 446, THRUST REVERSER HALVES	
	8	2	413 AND 414, THRUST REVERSER TORQUE BOX	78-31-02
	8	2	423 AND 424, THRUST REVERSER TORQUE BOX	
	8	2	433 AND 434, THRUST REVERSER TORQUE BOX	
	8	2	443 AND 444, THRUST REVERSER TORQUE BOX	

* SEE WDM EQUIPMENT LIST

Exhaust - Component Index
Figure 101 (Sheet 4)

Figure 48 78-00 Exhaust Component Index Fig. 101 (Sheet 4)

607301



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
ROD - THRUST REVERSER HOLD-OPEN				78-31-1 1
ENG 1	3	2	413 AND 414, FAN COWL PANELS	
ENG 2	3	2	423 AND 424, FAN COWL PANELS	
ENG 3	3	2	433 AND 434, FAN COWL PANELS	
ENG 4	3	2	443 AND 444, FAN COWL PANELS	
SENSOR - THRUST REVERSER POSITION FEEDBACK				78-34-10
ENG 1 L THRUST REVERSER HALF, T1768	4	1	413, L FAN COWL PANEL	
ENG 1 R THRUST REVERSER HALF, T1767	4	1	414, R FAN COWL PANEL	
ENG 2 L THRUST REVERSER HALF, T1768	4	1	423, L FAN COWL PANEL	
ENG 2 R THRUST REVERSER HALF, T1767	4	1	424, R FAN COWL PANEL	
ENG 3 L THRUST REVERSER HALF, T1768	4	1	433, L FAN COWL PANEL	
ENG 3 R THRUST REVERSER HALF, T1767	4	1	434, R FAN COWL PANEL	
ENG 4 L THRUST REVERSER HALF, T1768	4	1	443, L FAN COWL PANEL	
ENG 4 R THRUST REVERSER HALF, T1767	4	1	444, R FAN COWL PANEL	
SHAFT - FLEXIBLE DRIVE				78-31-18
ENG 1	3	4	413 AND 414, FAN COWL PANELS	
ENG 2	3	4	423 AND 424, FAN COWL PANELS	
ENG 3	3	4	433 AND 434, FAN COWL PANELS	
ENG 4	3	4	443 AND 444, FAN COWL PANELS	
SLEEVE - TURBINE EXHAUST				78-11-01
ENG 1	1	1	AFT END OF ENGINE	
ENG 2	1	1	AFT END OF ENGINE	
ENG 3	1	1	AFT END OF ENGINE	
ENG 4	1	1	AFT END OF ENGINE	
SWITCH - THRUST REVERSER CONTROL				78-34-06
ENG 1, S101	10	1	FLT COMPARTMENT, THRUST LEVER	
ENG 2, S102	10	1	FLT COMPARTMENT, THRUST LEVER	
ENG 3, S103	10	1	FLT COMPARTMENT, THRUST LEVER	
ENG 4, S104	10	1	FLT COMPARTMENT, THRUST LEVER	
SWITCH PACK - THROTTLE (REF 76-00-00, FIG. 101)				
ENG 1, S181				
ENG 2, S182				
ENG 3, S183				
ENG 4, S184				

* SEE WDM EQUIPMENT LIST

Exhaust - Component Index
Figure 101 (Sheet 5)

Figure 49 78-00 Exhaust Component Index Fig. 101 (Sheet 5)

607317



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
UNIT - CENTER DRIVE				78-31-21
ENG 1 L THRUST REVERSER	3	1	413, L FAN COWL PANEL	
ENG 1 R THRUST REVERSER	3	1	414, R FAN COWL PANEL	
ENG 2 L THRUST REVERSER	3	1	423, L FAN COWL PANEL	
ENG 2 R THRUST REVERSER	3	1	424, R FAN COWL PANEL	
ENG 3 L THRUST REVERSER	3	1	433, L FAN COWL PANEL	
ENG 3 R THRUST REVERSER	3	1	434, R FAN COWL PANEL	
ENG 4 L THRUST REVERSER	3	1	443, L FAN COWL PANEL	
ENG 4 R THRUST REVERSER	3	1	444, R FAN COWL PANEL	
UNIT - (REF 31-61-00, FIG. 101)				
EFIS/EICAS INTERFACE NO. 1, M7351				
EFIS/EICAS INTERFACE NO. 2, M7352				
EFIS/EICAS INTERFACE NO. 3, M7353				
UNIT - (REF 73-00-00, FIG. 101)				
ENG CONTROL, M7198				
VALVE - DIRECTIONAL PILOT				78-34-01
ENG 1	3	1	413, L FAN COWL PANEL	
ENG 2	3	1	423, L FAN COWL PANEL	
ENG 3	3	1	433, L FAN COWL PANEL	
ENG 4	3	1	443, L FAN COWL PANEL	
VALVE - OPENING SYSTEM RELIEF				78-31-03
ENG 1 L THRUST REVERSER	6	1	413, L FAN COWL PANEL	
ENG 1 R THRUST REVERSER	6	1	414, R FAN COWL PANEL	
ENG 2 L THRUST REVERSER	6	1	423, L FAN COWL PANEL	
ENG 2 R THRUST REVERSER	6	1	424, R FAN COWL PANEL	
ENG 3 L THRUST REVERSER	6	1	433, L FAN COWL PANEL	
ENG 3 R THRUST REVERSER	6	1	434, R FAN COWL PANEL	
ENG 4 L THRUST REVERSER	6	1	443, L FAN COWL PANEL	
ENG 4 R THRUST REVERSER	6	1	444, R FAN COWL PANEL	
VALVE - THRUST REVERSER PRESSURE REGULATING AND SHUTOFF				78-34-05
ENG 1, V360	7	1	STRUT, NO. 3 FWD FAIRING	
ENG 2, V361	7	1	STRUT, NO. 3 FWD FAIRING	
ENG 3, V362	7	1	STRUT, NO. 3 FWD FAIRING	
ENG 4, V363	7	1	STRUT, NO. 3 FWD FAIRING	

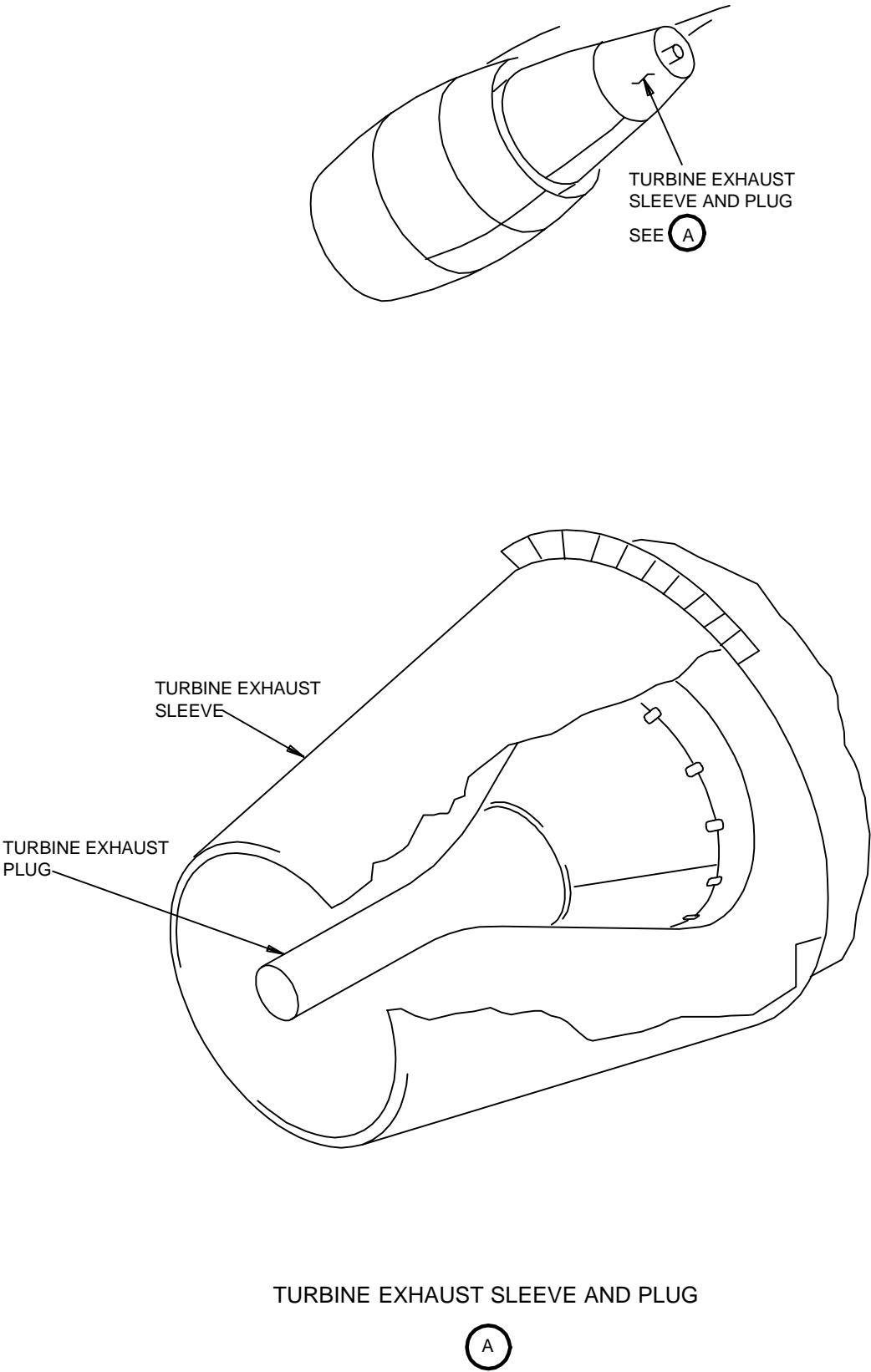
* SEE WDM EQUIPMENT LIST

Exhaust - Component Index
Figure 101 (Sheet 6)

Figure 50 78-00 Exhaust Component Index Fig. 101 (Sheet 6)

607324

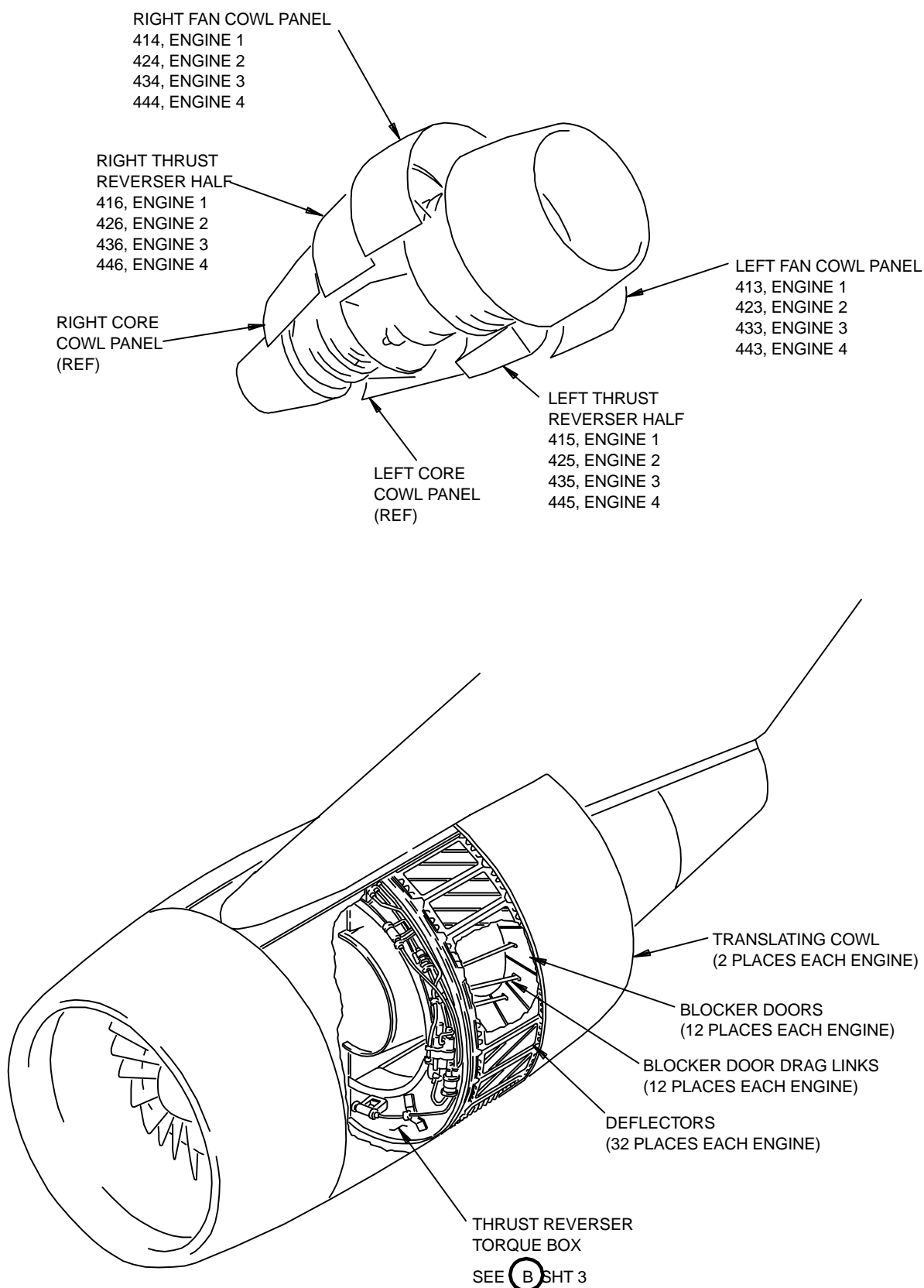




Exhaust - Component Location
Figure 102 (Sheet 1)

Figure 51 78-00 Exhaust Component Location Fig. 102 (Sheet 1)

607573

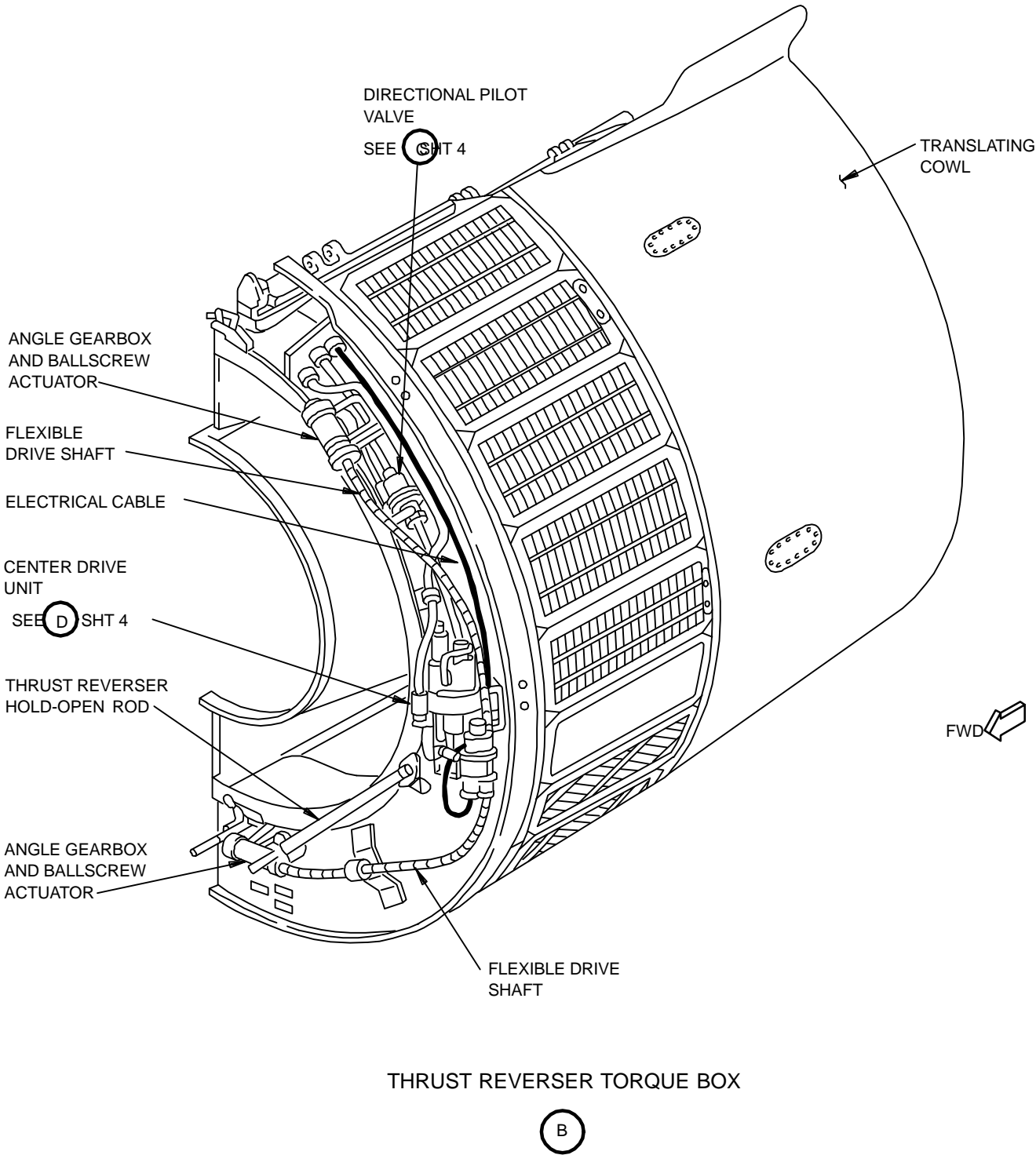


Exhaust - Component Location
Figure 102 (Sheet 2)

Figure 52 78-00 Exhaust Component Location Fig. 102 (Sheet 2)

607583

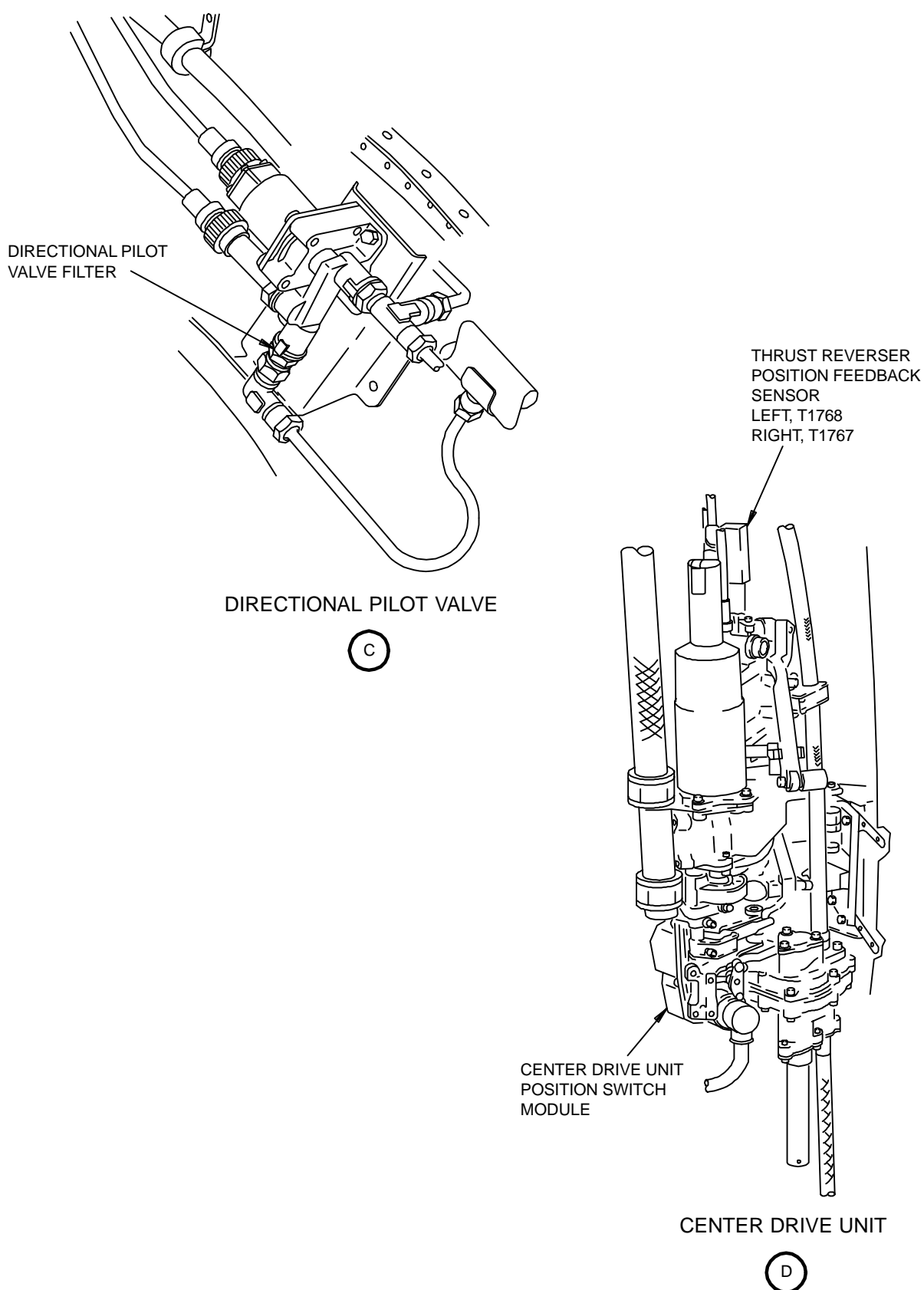




Exhaust - Component Location (Detail from Sht 2)
Figure 102 (Sheet 3)

607593

Figure 53 78-00 Exhaust Component Location Fig. 102 (Sheet 3)

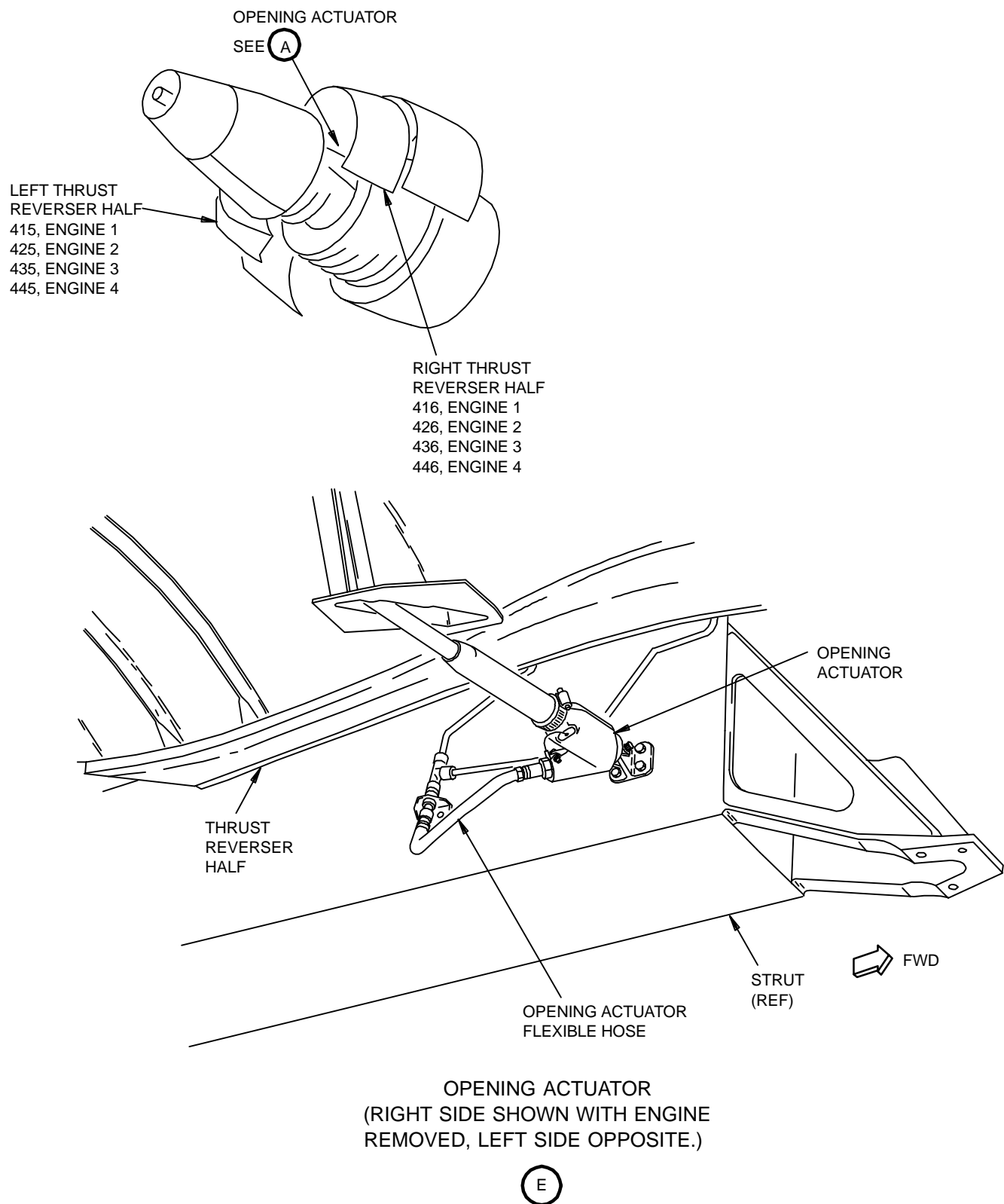


Exhaust - Component Location (Details from Sht 3)

Figure 102 (Sheet 4)

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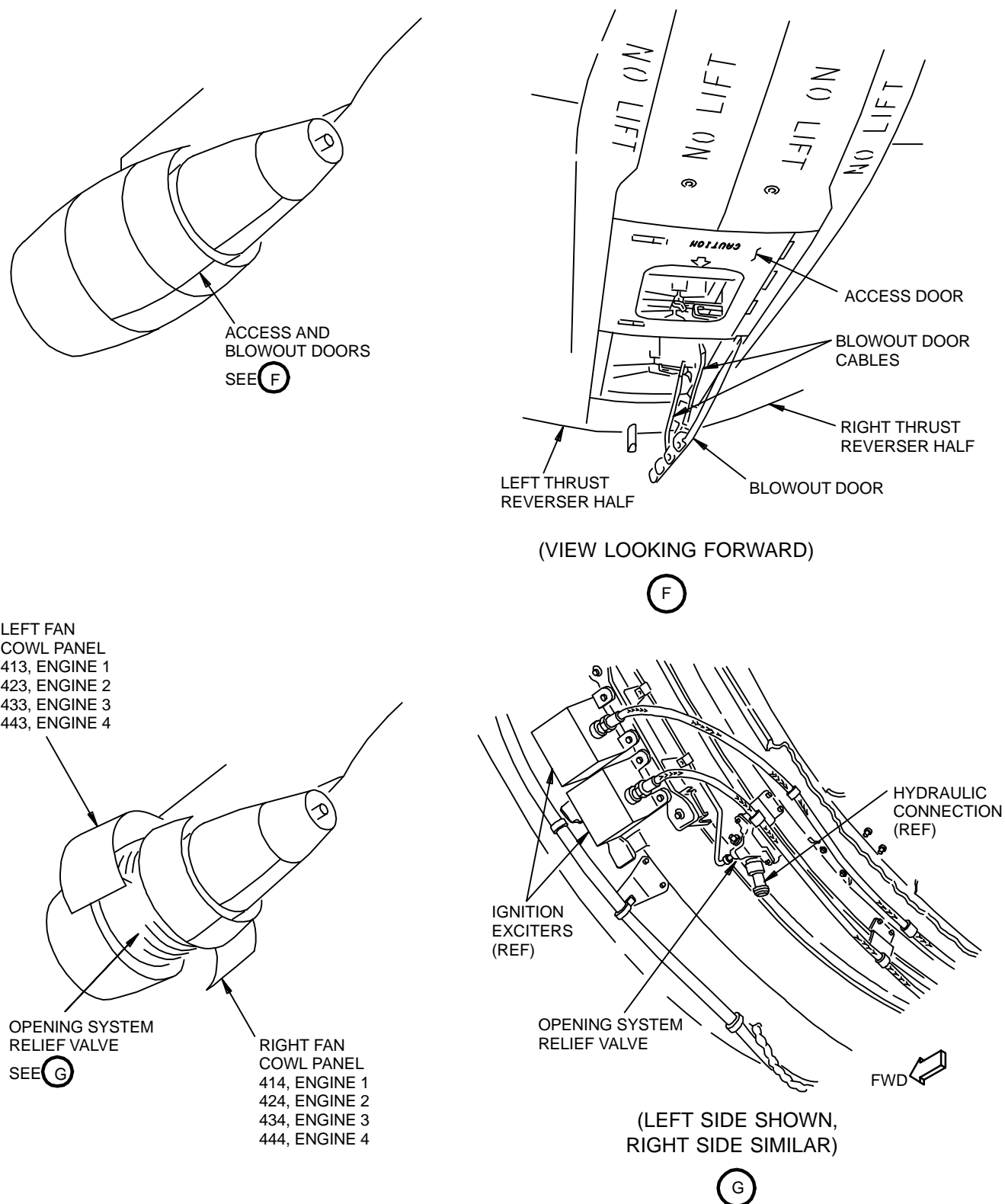
Figure 54 78-00 Exhaust Component Location Fig. 102 (Sheet 4)



Exhaust - Component Location
 Figure 102 (Sheet 5)

Figure 55 78-00 Exhaust Component Location Fig. 102 (Sheet 5)

607765

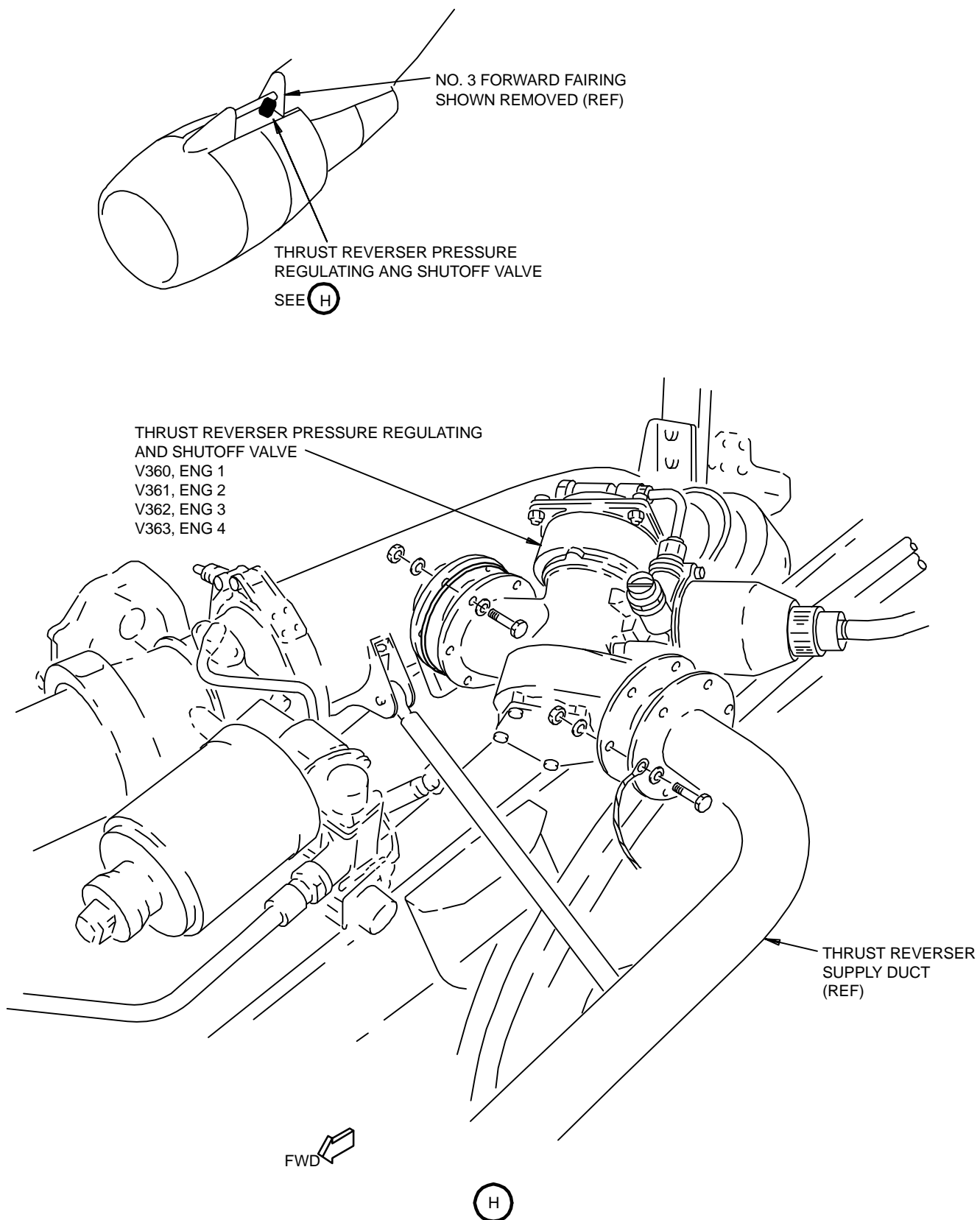


Exhaust - Component Location
Figure 102 (Sheet 6)

Figure 56 78-00 Exhaust Component Location Fig. 102 (Sheet 6)

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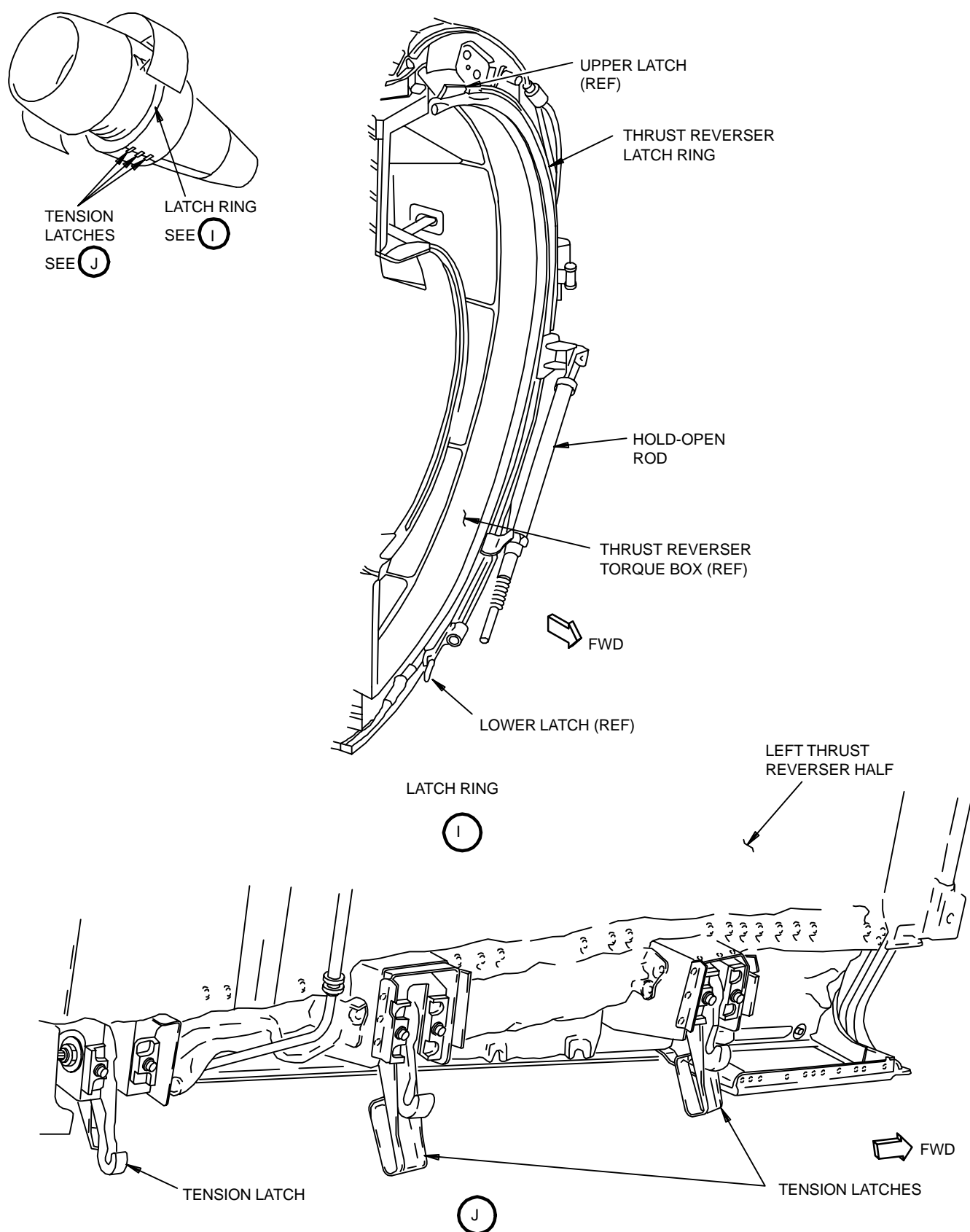


Exhaust - Component Location
Figure 102 (Sheet 7)

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Figure 57 78-00 Exhaust Component Location Fig. 102 (Sheet 7)



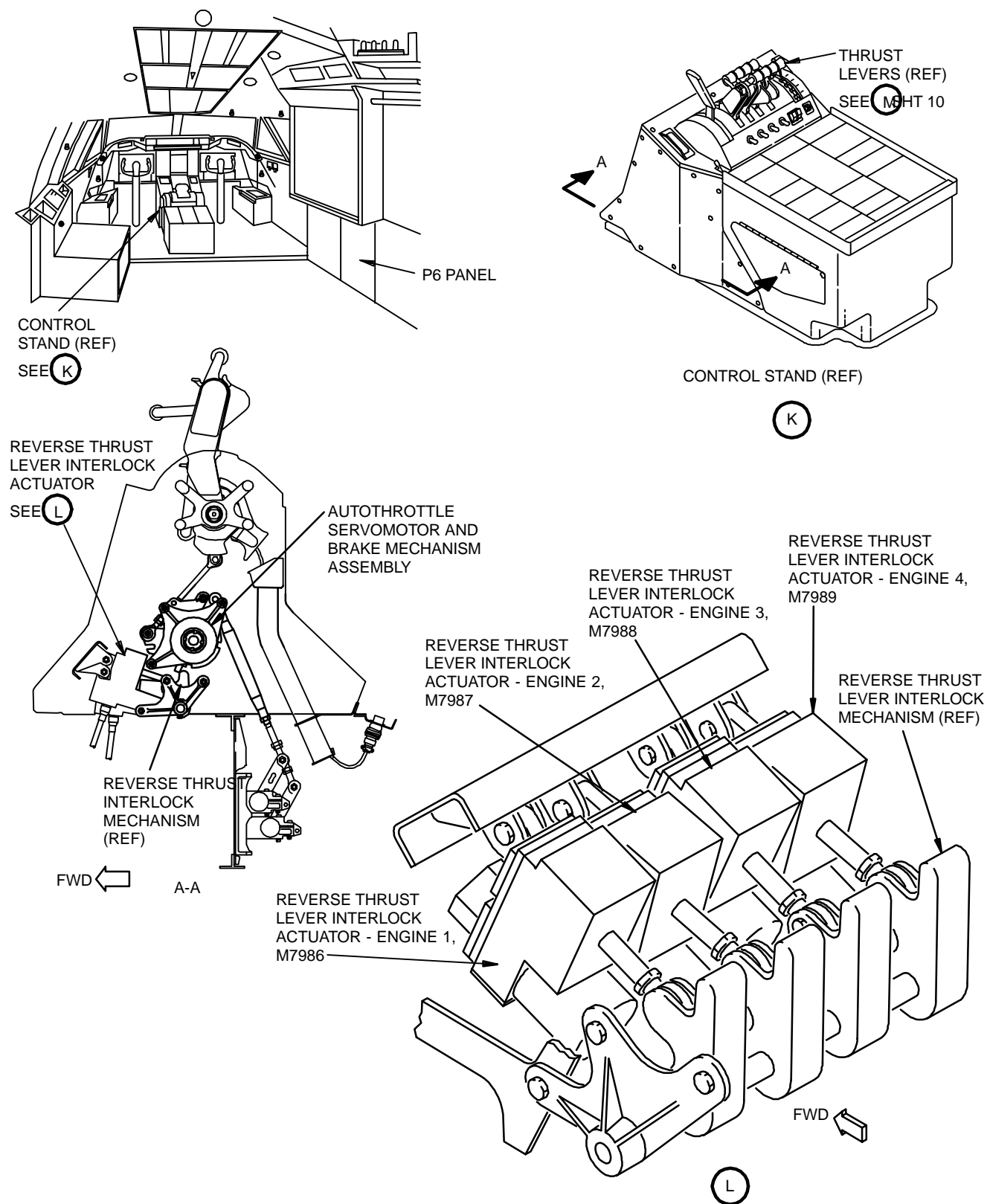


Exhaust - Component Location
Figure 102 (Sheet 8)

Figure 58 78-00 Exhaust Component Location Fig. 102 (Sheet 8)

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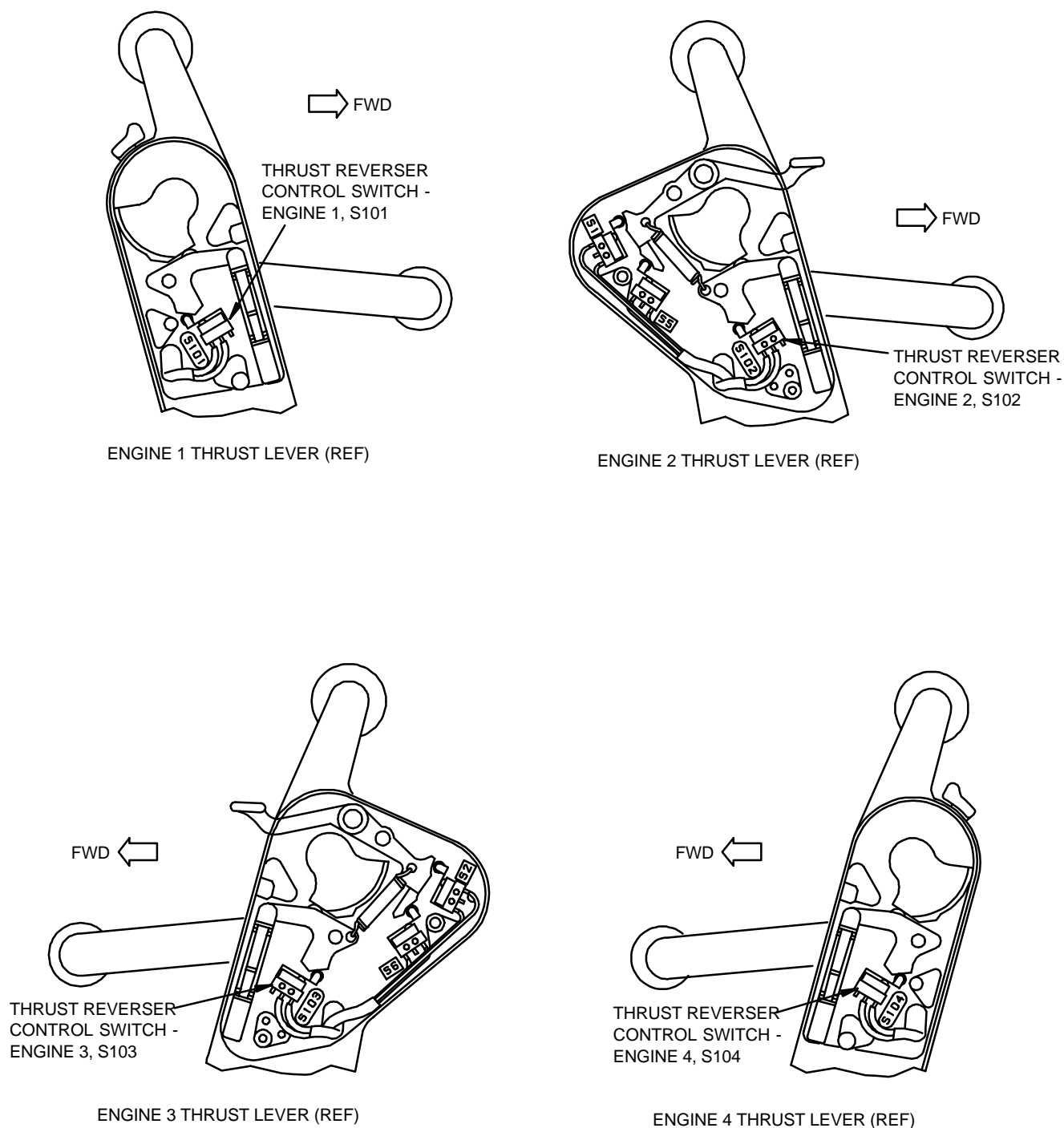


Exhaust - Component Location
Figure 102 (Sheet 9)

607972

Figure 59 78-00 Exhaust Component Location Fig. 102 (Sheet 9)





Exhaust - Component Location (Details from Sht 9)
Figure 102 (Sheet 10)

Figure 60 78-00 Exhaust Component Location Fig. 102 (Sheet 10)

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ATA 79-00 OIL

COMPONENT INDEX AND LOCATION



OIL

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CAP - OIL TANK FILLER, ENG 1	2	1	414, RIGHT FAN COWL PANEL, OIL TANK	79-11-03
CAP - OIL TANK FILLER, ENG 2	2	1	424, RIGHT FAN COWL PANEL, OIL TANK	79-11-03
CAP - OIL TANK FILLER, ENG 3	2	1	434, RIGHT FAN COWL PANEL, OIL TANK	79-11-03
CAP - OIL TANK FILLER, ENG 4	2	1	444, RIGHT FAN COWL PANEL, OIL TANK	79-11-03
CIRCUIT BREAKER -	1		FLT COMPT, P6	
OIL PRESS ENG 1, C49		1	6D1	*
OIL PRESS ENG 2, C50		1	6D2	*
OIL PRESS ENG 3, C51		1	6D3	*
OIL PRESS ENG 4, C52		1	6D4	*
DETECTOR - MAGNETIC CHIP, ENG 1	3	1	415D, IDG OIL THRUST REVERSER ACCESS DOOR, AGB AFT FACE	79-21-05
DETECTOR - MAGNETIC CHIP, ENG 2	3	1	425D, IDG OIL THRUST REVERSER ACCESS DOOR, AGB AFT FACE	79-21-05
DETECTOR - MAGNETIC CHIP, ENG 3	3	1	435D, IDG OIL THRUST REVERSER ACCESS DOOR, AGB AFT FACE	79-21-05
DETECTOR - MAGNETIC CHIP, ENG 4	3	1	445D, IDG OIL THRUST REVERSER ACCESS DOOR, AGB AFT FACE	79-21-05
ELEMENT - SCAVENGE OIL FILTER, ENG 1	1	1	414, RIGHT FAN COWL PANEL, FAN CASE	79-21-04
ELEMENT - SCAVENGE OIL FILTER, ENG 2	1	1	424, RIGHT FAN COWL PANEL, FAN CASE	79-21-04
ELEMENT - SCAVENGE OIL FILTER, ENG 3	1	1	434, RIGHT FAN COWL PANEL, FAN CASE	79-21-04
ELEMENT - SCAVENGE OIL FILTER, ENG 4	1	1	444, RIGHT FAN COWL PANEL, FAN CASE	79-21-04
FILTER - LUBE, ENG 1	4	1	415, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-07
FILTER - LUBE, ENG 2	4	1	425, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-07
FILTER - LUBE, ENG 3	4	1	435, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-07
FILTER - LUBE, ENG 4	4	1	445, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-07
FILTER - SCAVENGE OIL, ENG 1	1	1	414, RIGHT FAN COWL PANEL, FAN CASE	79-21-08
FILTER - SCAVENGE OIL, ENG 2	1	1	424, RIGHT FAN COWL PANEL, FAN CASE	79-21-08
FILTER - SCAVENGE OIL, ENG 3	1	1	434, RIGHT FAN COWL PANEL, FAN CASE	79-21-08
FILTER - SCAVENGE OIL, ENG 4	1	1	444, RIGHT FAN COWL PANEL, FAN CASE	79-21-08

* SEE WDM EQUIPMENT LIST

Oil - Component Index
Figure 101 (Sheet 1)

Figure 61 79-00 Oil Component Index Fig. 101 (Sheet 1)

612041



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
HEAT EXCHANGER - FUEL/OIL, ENG 1	5	1	416, RIGHT THRUST REVERSER HALF, AGB FWD FACE	79-21-01
HEAT EXCHANGER - FUEL/OIL, ENG 2	5	1	426, RIGHT THRUST REVERSER HALF, AGB FWD FACE	79-21-01
HEAT EXCHANGER - FUEL/OIL, ENG 3	5	1	436, RIGHT THRUST REVERSER HALF, AGB FWD FACE	79-21-01
HEAT EXCHANGER - FUEL/OIL, ENG 4	5	1	446, RIGHT THRUST REVERSER HALF, AGB FWD FACE	79-21-01
PUMP - LUBE AND SCAVENGE, ENG 1	4	1	415, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-21-03
PUMP - LUBE AND SCAVENGE, ENG 2	4	1	425, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-21-03
PUMP - LUBE AND SCAVENGE, ENG 3	4	1	435, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-21-03
PUMP - LUBE AND SCAVENGE, ENG 4	4	1	445, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-21-03
SCREENS - SUPPLY NAD SCAVENGE INLET - ENG 1	4	6	415, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-06
SCREENS - SUPPLY NAD SCAVENGE INLET - ENG 2	4	6	425, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-06
SCREENS - SUPPLY NAD SCAVENGE INLET - ENG 3	4	6	435, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-06
SCREENS - SUPPLY NAD SCAVENGE INLET - ENG 4	4	6	445, LEFT THRUST REVERSER HALF, LUBE/SCAVENGE PUMP	79-21-06
SENSOR - OIL TEMPERATURE, ENG 1	4	1	415, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-34-01
SENSOR - OIL TEMPERATURE, ENG 2	4	1	425, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-34-01
SENSOR - OIL TEMPERATURE, ENG 3	4	1	435, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-34-01
SENSOR - OIL TEMPERATURE, ENG 4	4	1	445, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-34-01
SWITCH - LOW OIL PRESSURE WARNING, ENG 1, S1584	4	1	415, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-33-01
SWITCH - LOW OIL PRESSURE WARNING, ENG 2, S1584	4	1	425, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-33-01
SWITCH - LOW OIL PRESSURE WARNING, ENG 3, S1584	4	1	435, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-33-01
SWITCH - LOW OIL PRESSURE WARNING, ENG 4, S1584	4	1	445, LEFT THRUST REVERSER HALF, AGB, FWD FACE	79-33-01
SWITCH - OIL FILTER DIFFERENTIAL PRESSURE, ENG 1, S1583	1	1	414, RIGHT FAN COWL PANEL, FAN CASE	79-35-01
SWITCH - OIL FILTER DIFFERENTIAL PRESSURE, ENG 2, S1583	1	1	424, RIGHT FAN COWL PANEL, FAN CASE	79-35-01
SWITCH - OIL FILTER DIFFERENTIAL PRESSURE, ENG 3, S1583	1	1	434, RIGHT FAN COWL PANEL, FAN CASE	79-35-01
SWITCH - OIL FILTER DIFFERENTIAL PRESSURE, ENG 4, S1583	1	1	444, RIGHT FAN COWL PANEL, FAN CASE	79-35-01

* SEE WDM EQUIPMENT LIST

Oil - Component Index
Figure 101 (Sheet 2)

Figure 62 79-00 Oil Component Index Fig. 101 (Sheet 2)

612066



COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
TANK - OIL, ENG 1	1,2	1	414, RIGHT FAN COWL PANEL, FAN CASE	79-11-01
TANK - OIL, ENG 2	1,2	1	424, RIGHT FAN COWL PANEL, FAN CASE	79-11-01
TANK - OIL, ENG 3	1,2	1	434, RIGHT FAN COWL PANEL, FAN CASE	79-11-01
TANK - OIL, ENG 4	1,2	1	444, RIGHT FAN COWL PANEL, FAN CASE	79-11-01
TRANSMITTER - OIL PRESSURE, ENG 1, T679	4	1	415, LEFT THRUST REVERSER HALF, AGB FWD FACE	79-32-01
TRANSMITTER - OIL PRESSURE, ENG 2, T679	4	1	425, LEFT THRUST REVERSER HALF, AGB FWD FACE	79-32-01
TRANSMITTER - OIL PRESSURE, ENG 3, T679	4	1	435, LEFT THRUST REVERSER HALF, AGB FWD FACE	79-32-01
TRANSMITTER - OIL PRESSURE, ENG 4, T679	4	1	445, LEFT THRUST REVERSER HALF, AGB FWD FACE	79-32-01
TRANSMITTER - OIL QUANTITY, ENG 1, T675	2	1	414, RIGHT FAN COWL PANEL, OIL TANK	79-31-01
TRANSMITTER - OIL QUANTITY, ENG 2, T675	2	1	424, RIGHT FAN COWL PANEL, OIL TANK	79-31-01
TRANSMITTER - OIL QUANTITY, ENG 3, T675	2	1	434, RIGHT FAN COWL PANEL, OIL TANK	79-31-01
TRANSMITTER - OIL QUANTITY, ENG 4, T675	2	1	444, RIGHT FAN COWL PANEL, OIL TANK	79-31-01
UNIT - (REF 31-61-00, FIG. 101) C EFIS/EICAS INTERFACE, M7352 C EFIS/EICAS INTERFACE, M7353 C EFIS/EICAS INTERFACE, M7351				
VALVE - OIL TANK PRESSURIZING, ENG 1	2	1	414, RIGHT FAN COWL PANEL, OIL TANK	79-11-02
VALVE - OIL TANK PRESSURIZING, ENG 2	2	1	424, RIGHT FAN COWL PANEL, OIL TANK	
VALVE - OIL TANK PRESSURIZING, ENG 3	2	1	434, RIGHT FAN COWL PANEL, OIL TANK	
VALVE - OIL TANK PRESSURIZING, ENG 4	2	1	444, RIGHT FAN COWL PANEL, OIL TANK	
VALVE - OIL TANK RELIEF, ENG 1	2	1	414, RIGHT FAN COWL PANEL, OIL TANK	79-11-04
VALVE - OIL TANK RELIEF, ENG 2	2	1	424, RIGHT FAN COWL PANEL, OIL TANK	
VALVE - OIL TANK RELIEF, ENG 3	2	1	434, RIGHT FAN COWL PANEL, OIL TANK	
VALVE - OIL TANK RELIEF, ENG 4	2	1	444, RIGHT FAN COWL PANEL, OIL TANK	

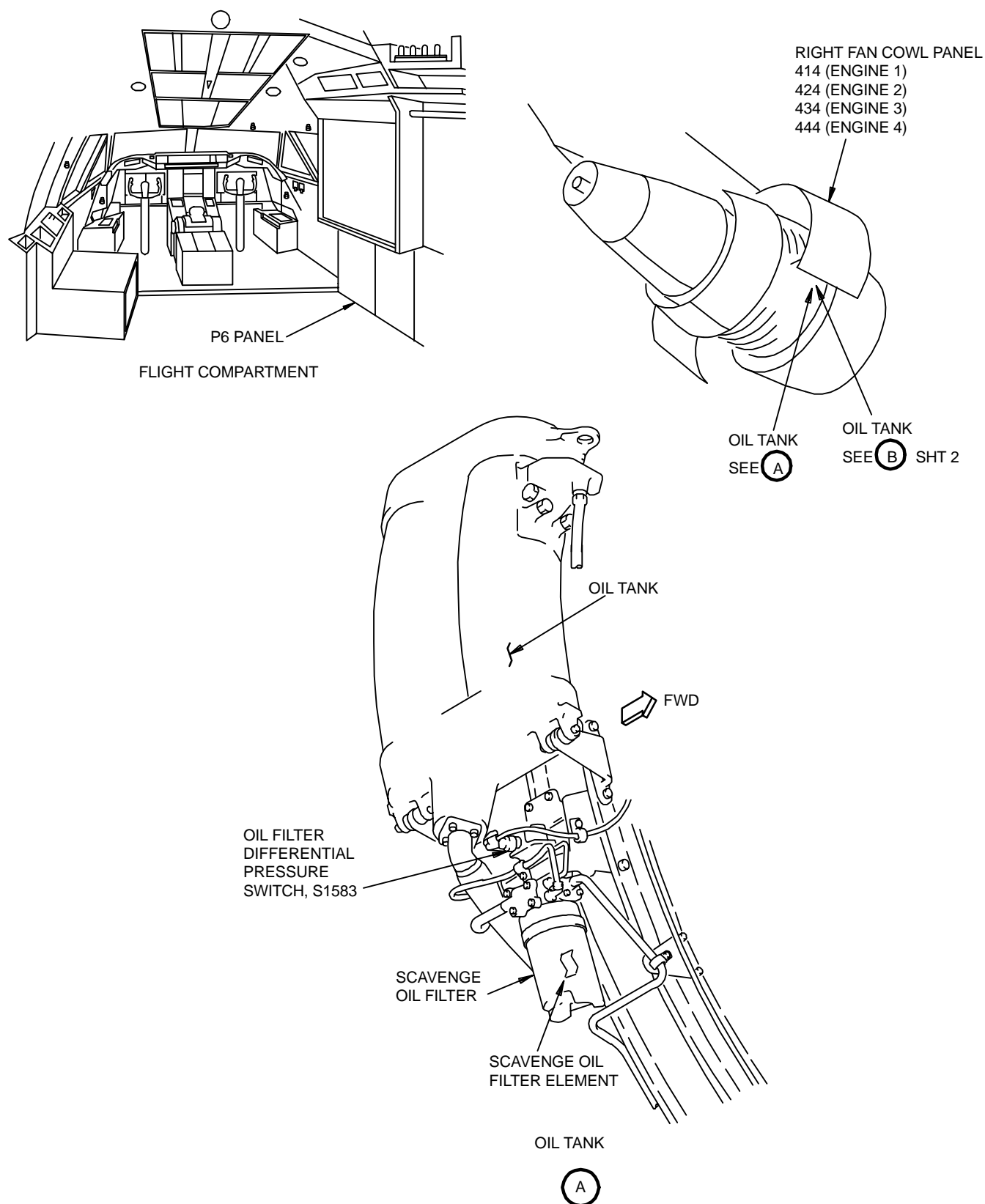
* SEE WDM EQUIPMENT LIST

Oil - Component Index
Figure 101 (Sheet 3)

Figure 63 79-00 Oil Component Index Fig. 101 (Sheet 3)

612078



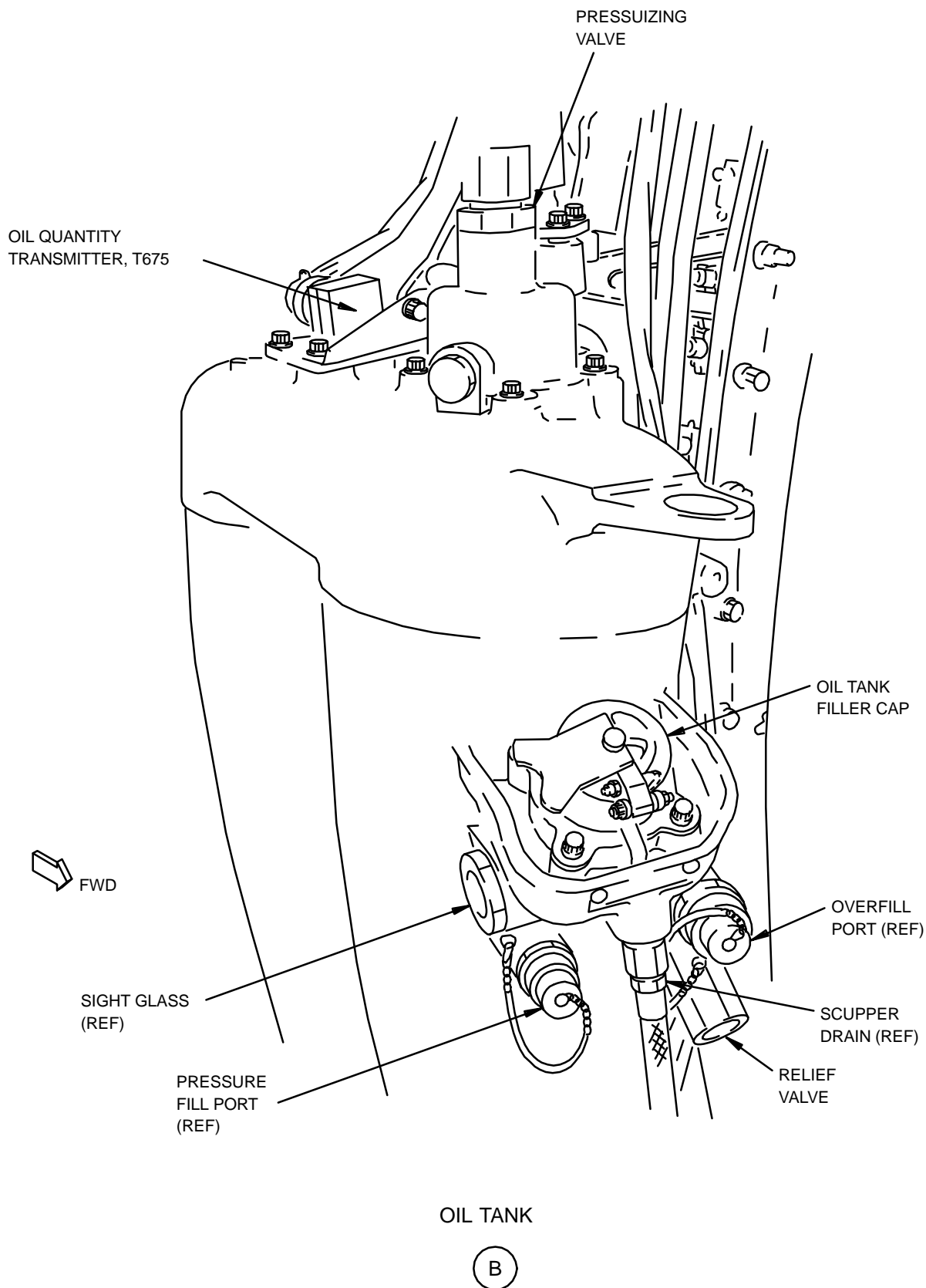


Oil - Component Location
Figure 102 (Sheet 1)

Figure 64 79-00 Oil Component Location Fig. 102 (Sheet 1)

610519





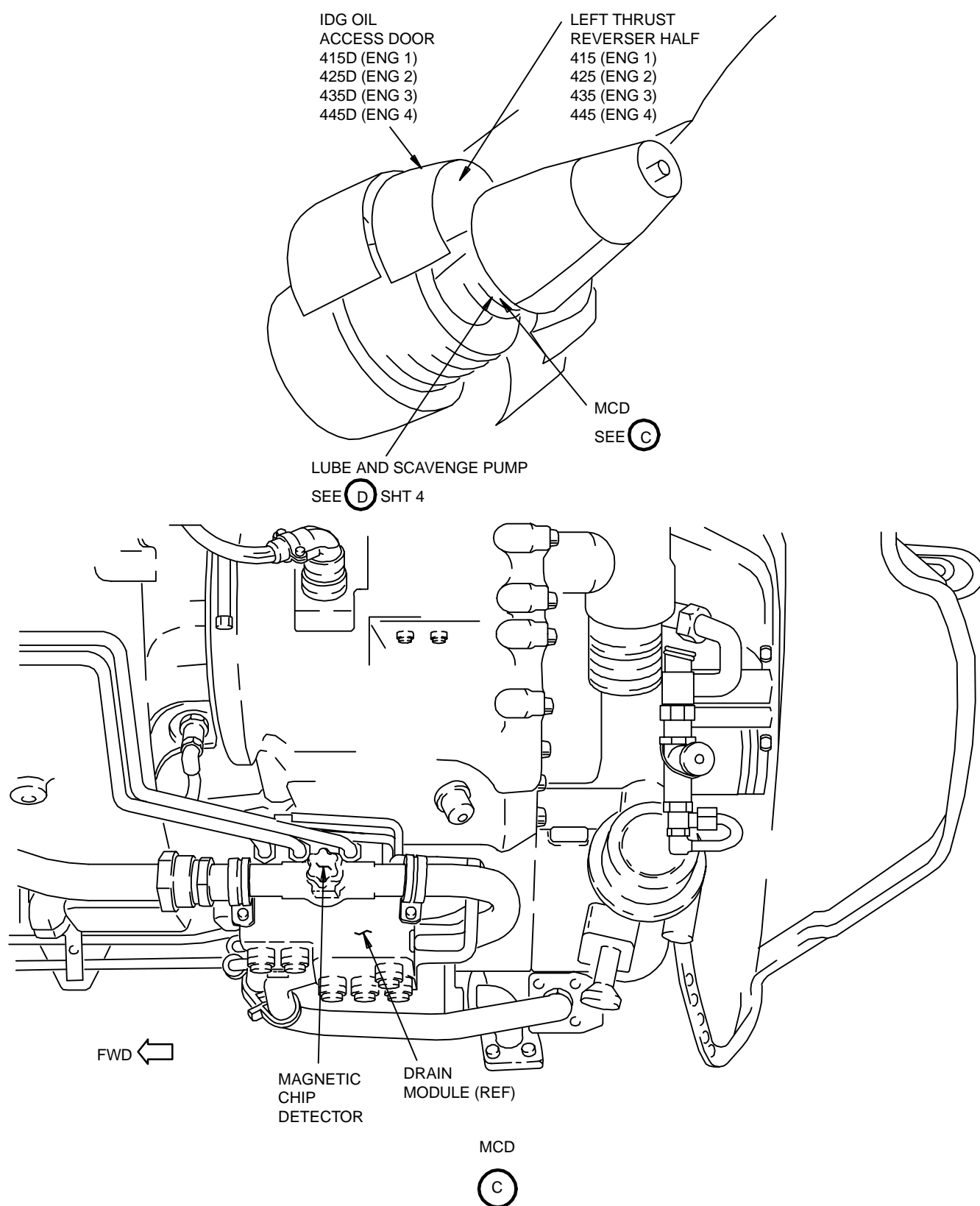
Oil - Component Location (Detail from Sht 1)

Figure 102 (Sheet 2)

Figure 65 79-00 Oil Component Location Fig. 102 (Sheet 2)

610531



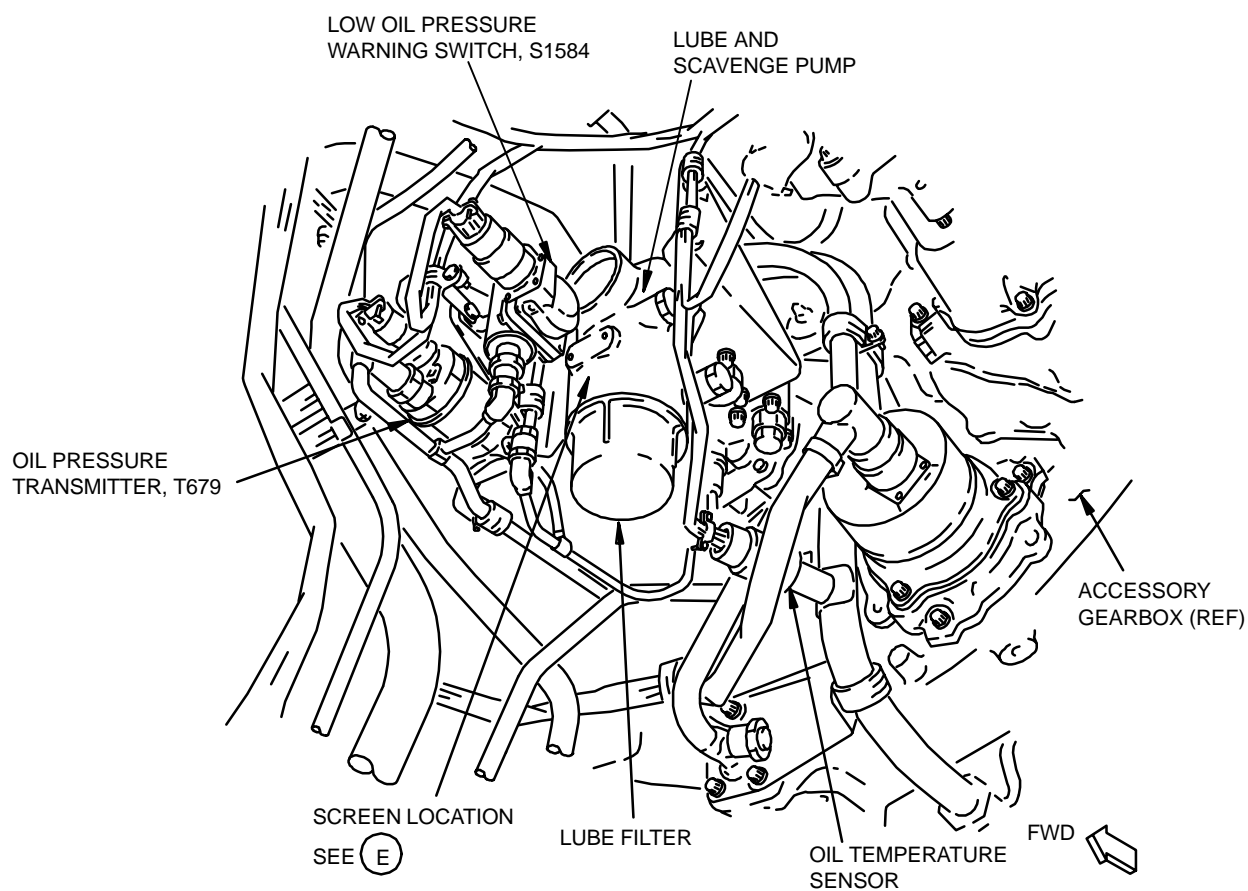


Oil - Component Location
Figure 102 (Sheet 3)

Figure 66 79-00 Oil Component Location Fig. 102 (Sheet 3)

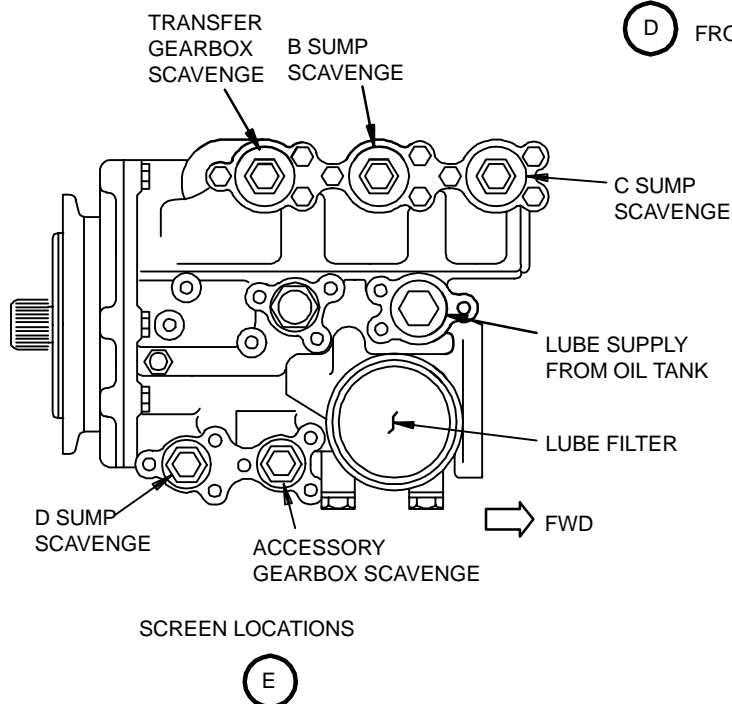
610590





LUBE AND SCAVENGE PUMP

(D) FROM SHT 3

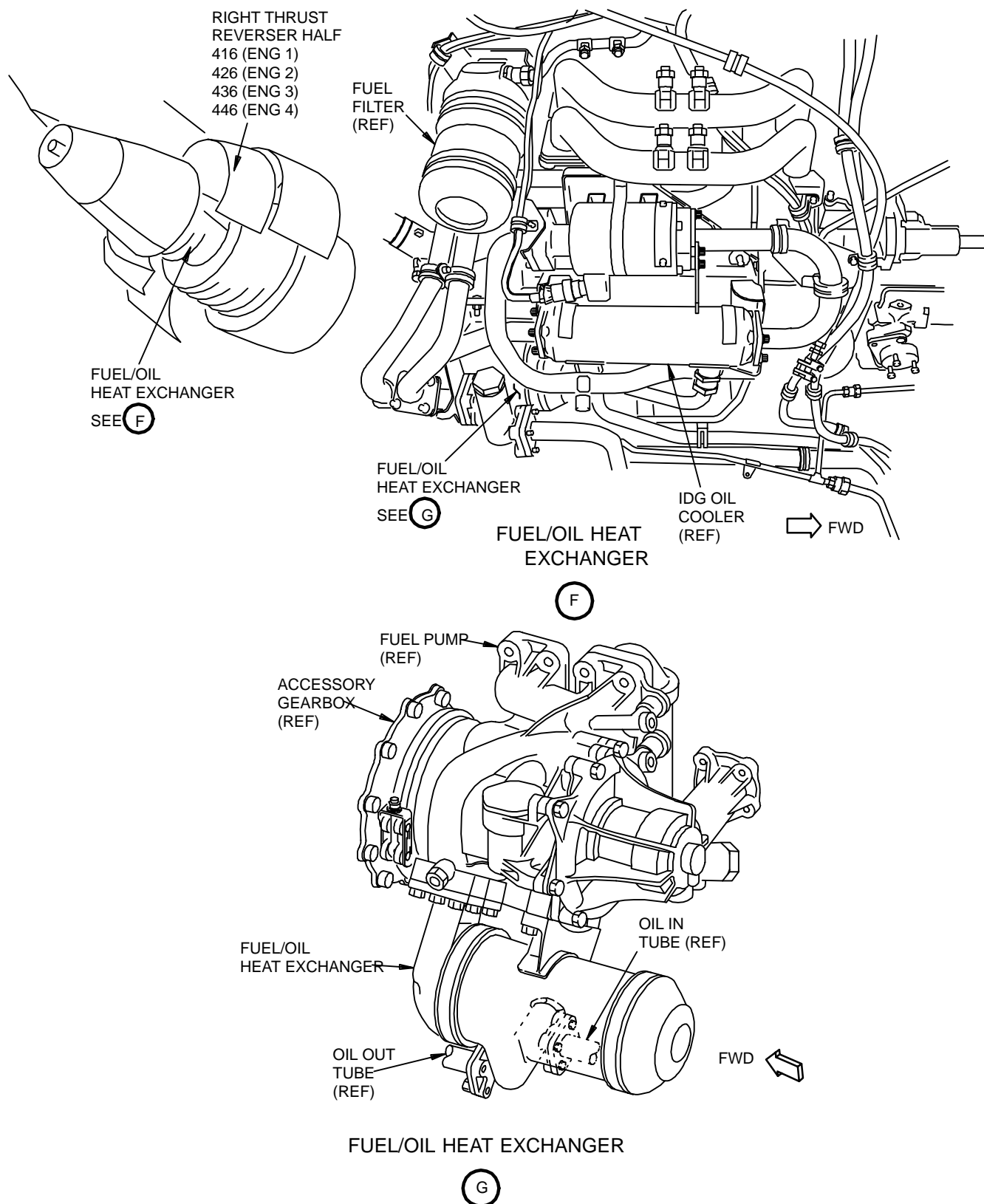


Oil - Component Location
Figure 102 (Sheet 4)

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Figure 67 79-00 Oil Component Location Fig. 102 (Sheet 4)





Oil - Component Location
Figure 102 (Sheet 5)

Figure 68 79-00 Oil Component Location Fig. 102 (Sheet 5)

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ATA 80-00 STARTING

COMPONENT INDEX AND LOCATION



STARTING

COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
CARD - (REF 77-00-00, FIG. 101) ENGINE SPEED CARD, ENG. 1, YMLA001 ENGINE SPEED CARD, ENG. 2, YMLA003 ENGINE SPEED CARD, ENG. 3, YMLA005 ENGINE SPEEC CARD, ENG. 4, YMLA007				
CIRCUIT BREAKERS ENG START AIR CONT, C395 ENG 1 A/APU ENG START PERF SOL PWR, C10185	1	1 1	FLT COMPT, P6 6J18 6F15	* * 80-11-05
DUCT - STARTER PNEUMATIC ENGINE 1	1	1	417, LEFT CORE COWL PANEL, COMPRESSOR REAR FRAME, LEFT SIDE	
ENGINE 2	1	1	427, LEFT CORE COWL PANEL, COMPRESSOR REAR FRAME, LEFT SIDE	
ENGINE 3	1	1	437, LEFT CORE COWL PANEL, COMPRESSOR REAR FRAME, LEFT SIDE	
ENGINE 4	1	1	447, LEFT CORE COWL PANEL, COMPRESSOR REAR FRAME, LEFT SIDE	
FILTER - START VALVE ENGINE 1	2	1	415, LEFT THRUST REVERSER HALF, GEARBOX AFT FACE	80-11-04
ENGINE 2	2	1	425, LEFT THRUST REVERSER HALF, GEARBOX AFT FACE	
ENGINE 3	2	1	435, LEFT THRUST REVERSER HALF, GEARBOX AFT FACE	
ENGINE 4	2	1	445, LEFT THRUST REVERSER HALF, GEARBOX AFT FACE	
MODULE - (REF 28-31-00, FIG. 101) ENGINE IGNITION/FUEL JETTISON, M7325				
RELAY - (REF 31-01-06, FIG. 101) ENGINE 1 AUTOSTART, R7804 ENGINE 1 FUEL CUTOFF, R7808 ENGINE 2 AUTOSTART, R7805 ENGINE 2 FUEL CUTOFF, R7809 ENGINE 3 AUTOSTART, R7806 ENGINE 3 FUEL CUTOFF, R7810 ENGINE 4 AUTOSTART, R7807 ENGINE 4 FUEL CUTOFF, R7811				

* SEE WDM EQUIPMENT LIST

Starting - Component Index
Figure 101 (Sheet 1)

600307

Figure 69 80-00 Starting Component Index Fig. 101 (Sheet 1)



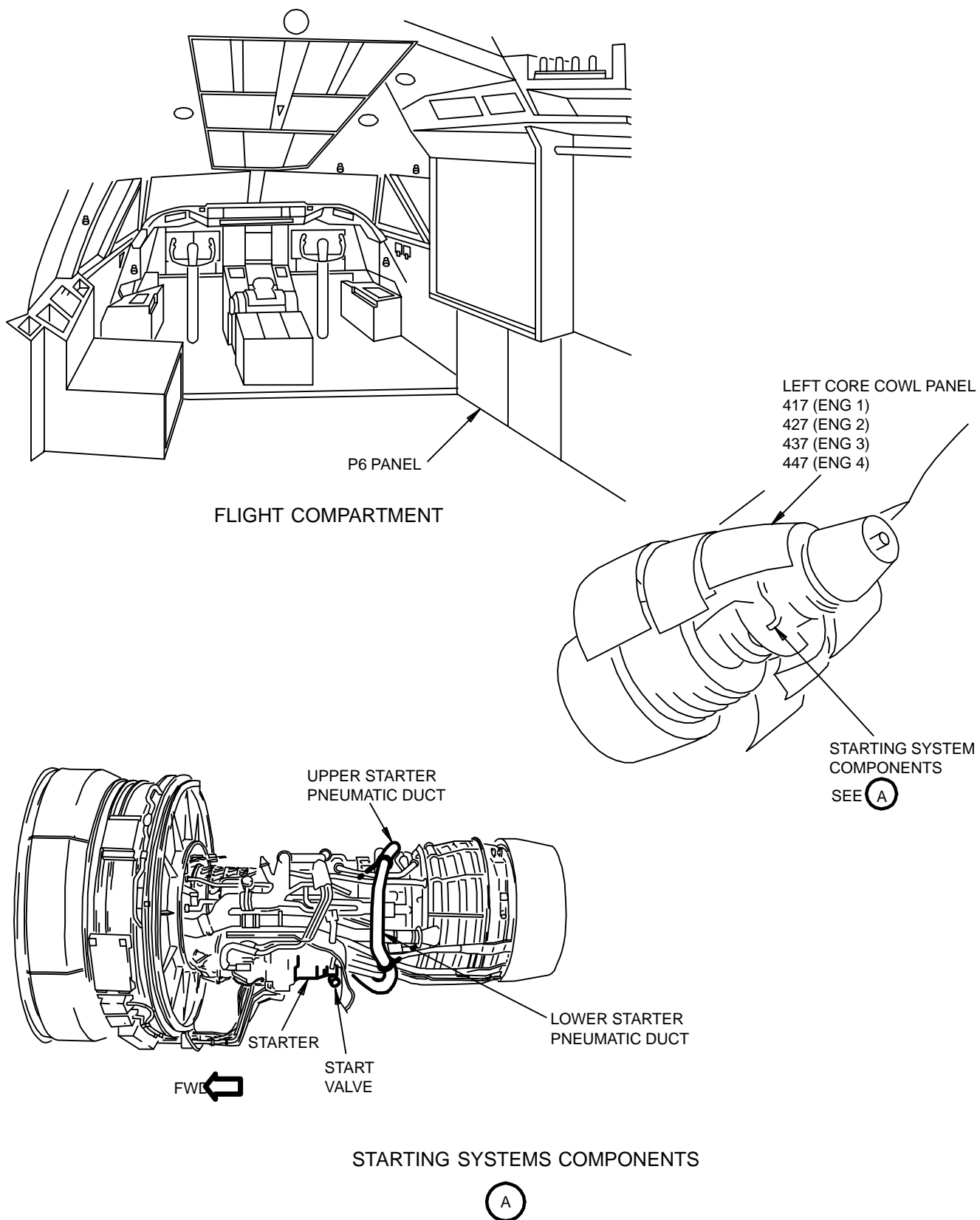
COMPONENT	FIG. 102 SHT	QTY	ACCESS/AREA	REFERENCE
RELAY - (REF 31-01-36, FIG. 101) ENGINE 1 START 1, R7535 ENGINE 1 START 2, R7537 ENGINE 2 START 1, R7539 ENGINE 2 START 2, R7540 RELAY - (REF 31-01-39, FIG. 101) ENGINE 3 START 1, R7541 ENGINE 3 START 2, R7542 ENGINE 4 START 1, R7543 ENGINE 4 START 2, R7544 STARTER ENGINE 1	2	1	415 AND 416, THRUST REVERSER HALVES, GEARBOX AFT FACE 425 AND 426, THRUST REVERSER HALVES, GEARBOX AFT FACE 435 AND 436, THRUST REVERSER HALVES, GEARBOX AFT FACE 445 AND 446, THRUST REVERSER HALVES, GEARBOX AFT FACE	80-11-01
ENGINE 2	2	1		
ENGINE 3	2	1		
ENGINE 4	2	1		
UNIT - (REF 31-61-00, FIG. 101) EFIS/EICAS INTERFACE NO. 1, M7351 EFIS/EICAS INTERFACE NO. 2, M7352 EFIS/EICAS INTERFACE NO. 3, M7353 UNIT - (REF 73-00-00, FIG. 101) ENGINE CONTROL, M7198 VALVE - START, V351 ENGINE 1	2	1	415 AND 416, THRUST REVERSER HALVES, GEARBOX AFT FACE 425 AND 426, THRUST REVERSER HALVES, GEARBOX AFT FACE 435 AND 436, THRUST REVERSER HALVES, GEARBOX AFT FACE 445 AND 446, THRUST REVERSER HALVES, GEARBOX AFT FACE	80-11-02
ENGINE 2	2	1		
ENGINE 3	2	1		
ENGINE 4	2	1		

Starting - Component Index
Figure 101 (Sheet 2)

Figure 70 80-00 Starting Component Index Fig. 101 (Sheet 2)

600310





Starting - Component Location
Figure 102 (Sheet 1)

Figure 71 80-00 Starting Component Location Fig. 102 (Sheet 1)

600243



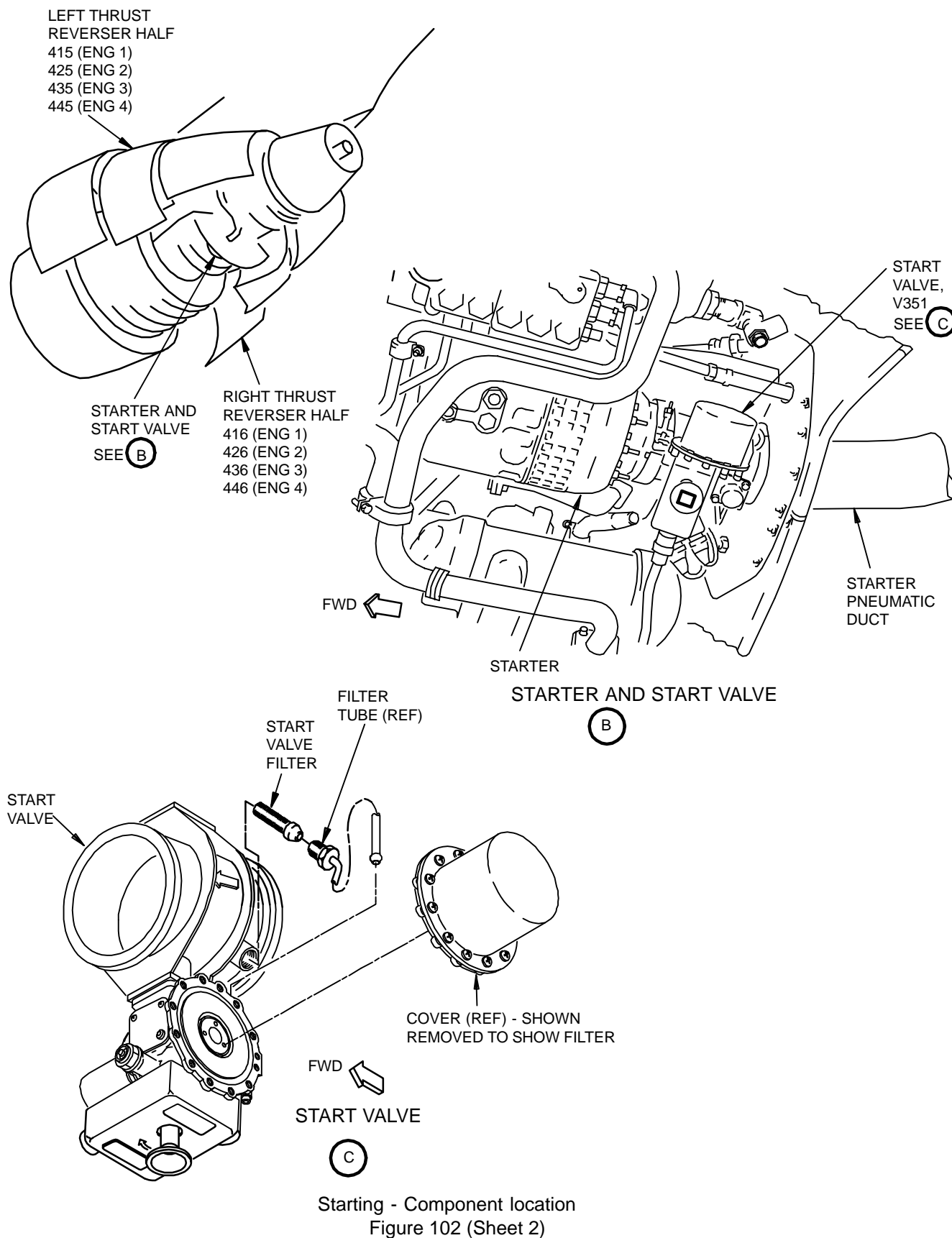


Figure 72 80-00 Starting Component Location Fig. 102 (Sheet 2)

599990



