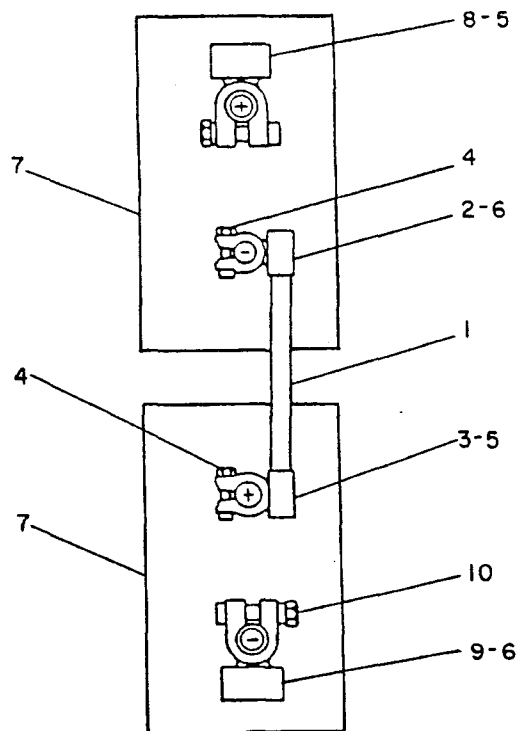


ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
BE	1	2V7397 5P0747	1	CABLE AS CABLE (00 GA)
	2	5M9205	1	TERMINAL AS (NEG)
	3	5M9204	1	TERMINAL AS (POS) (EA TERM AS INCL)
	4	1M6119	1	BOLT
		1M6120	1	NUT
	5	9G0004	2	COVER (POS)
	6	9G0003	2	COVER (NEG)
	7	3T5857	2	BATTERY (12 VOLT)
	8	5M9204	1	TERMINAL AS (POS)
	9	5M9205	1	TERMINAL AS (NEG) (EA TERM AS INCL)
	10	1M6119	1	BOLT
		1M6120	1	NUT

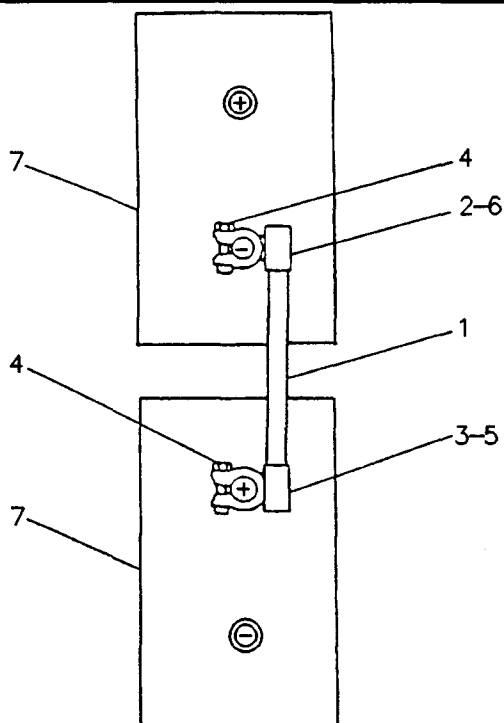
B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER

B-402931 EP

1401

7C1899 BATTERY GP

24 Volt, 66 Ampere, Maintenance Free
For Use With Battery Support
An Attachment



NOTE	REF NO	PART NUMBER	QTY	PART NAME
BE	1	2V7397 5P0747	1	CABLE AS CABLE (00 GA)
	2	5M9205	1	TERMINAL AS (NEG)
	3	5M9204	1	TERMINAL AS (POS) (EA TERM AS INCL)
	4	1M6119	1	BOLT
		1M6120	1	NUT
	5	9G0004	2	COVER (POS)
	6	9G0003	2	COVER (NEG)
	7	3T5760	2	BATTERY-MAINTENANCE FREE (12 VOLT)

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER

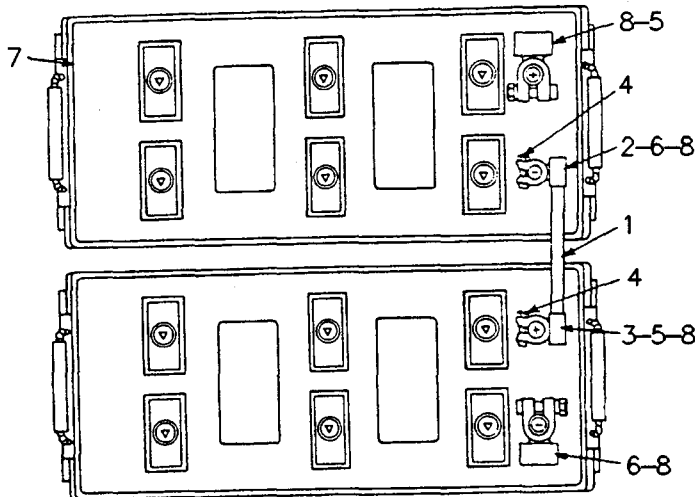
R-504135 EP

1401

7C1900 BATTERY GP

24 Volt, 100 Ampere, Maintenance Free
For Use With Battery Support
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
E	1	2V7397	1	CABLE AS
		5P0747		CABLE 20CM
	2	5M9205	1	TERMINAL AS (NEG)
	3	5M9204	1	TERMINAL AS (POS)
				(EA TERM AS INCL)
	4	1M6119	2	BOLT
		1M6120	2	NUT
	5	9G0004	2	COVER -TERM (POS)
	6	9G0003	2	COVER -TERM (NEG)
	7	9G4234	2	BATTERY
		7N0060	6	VENT AS
	8	8L8413	4	STRAP-CABLE

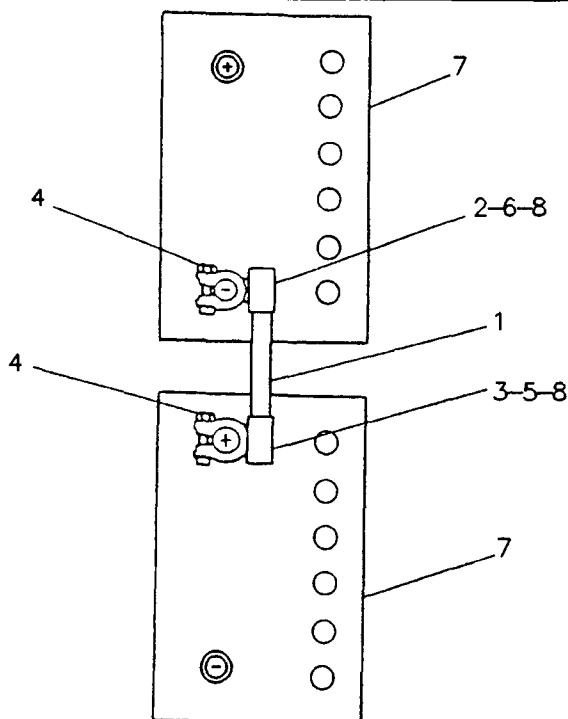
E-ORDER BY THE CENTIMETER

R-500341 EP

1401

7C1976 BATTERY GP

24 Volt, 67 Ampere, Low Maintenance
For Use With Battery Support
An Attachment



NOTE	REF NO	PART NUMBER	QTY	PART NAME
BE	1	2V7397	1	CABLE AS
		5P0747		CABLE (OO GA)
	2	5M9205	1	TERMINAL AS (NEG)
	3	5M9204	1	TERMINAL AS (POS)
				(EA TERM AS INCL)
	4	1M6119	1	BOLT
		1M6120	1	NUT
	5	9G0004	2	COVER (POS)
	6	9G0003	2	COVER (NEG)
	7	9G4233	2	BATTERY
				(EACH INCLUDES)
		7N0060	6	VENT AS
	8	8L8413	4	STRAP-CABLE

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER

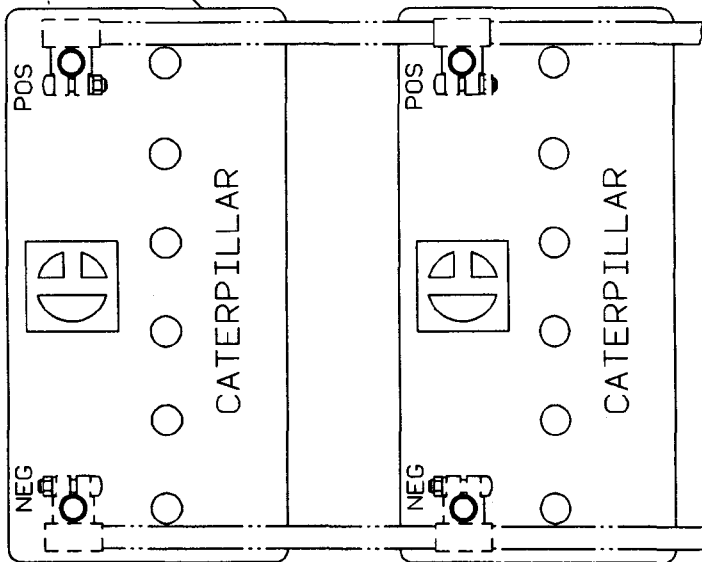
R-508554 EP

1401

7C1977 BATTERY GP

24 Volt, 92 Ampere, Low Maintenance
For Use With Battery Support
An Attachment

ELECTRICAL AND STARTING SYSTEM



TOP VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	9G4233	2	BATTERY
		7N0060	6	(EACH INCLUDES) VENT AS

C-457104 EP

1401

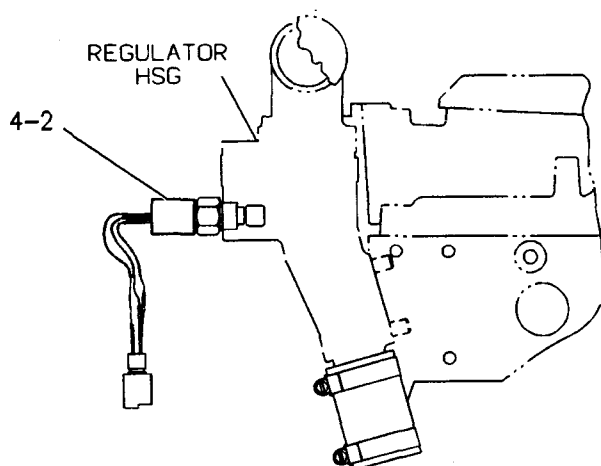
9Y5704 BATTERY GP

12 Volt-Lmho 1230 CCA-184 Amp Hr

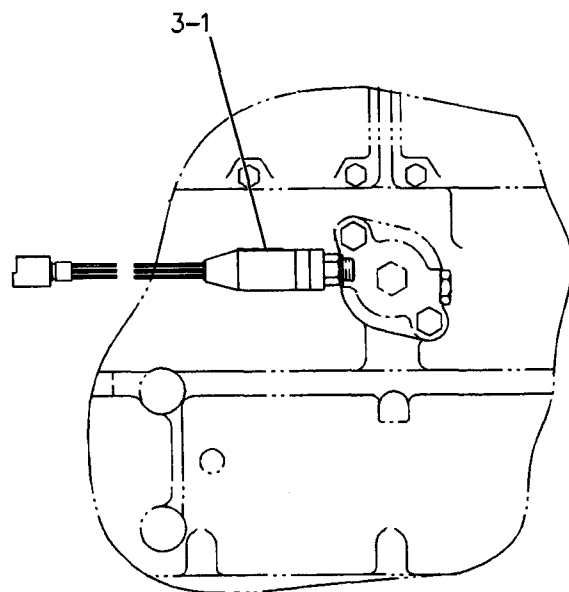
For Starting At Ambient Temp Above -30 Deg C (-22 Deg F)

Requires 9Y3529 Battery Support Gp On Stationary Base Units, An Attachment

ELECTRICAL AND STARTING SYSTEM



MOUNTING LOCATION FOR WATER TEMPERATURE ALARM CONTACTOR



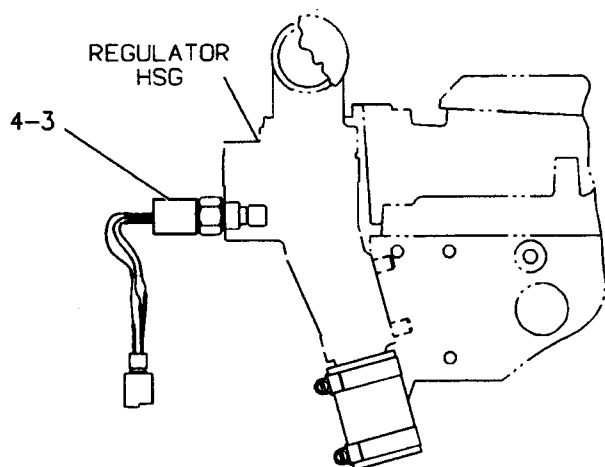
MOUNTING LOCATION FOR OIL PRESSURE SWITCH

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	6T6652	1	SWITCH AS-PRESSURE (OIL)					
		7N7779	1	SOCKET					
		7N7780	2	PIN-CONNECTOR (BLADE)					
		7N7781	1	HOUSING-RECEPTACLE					
	2	7E8342	1	SWITCH AS-TEMPERATURE (WATER)					
		7N7779	1	SOCKET					
		7N7780	2	PIN-CONNECTOR (BLADE)					
		7N7781	1	HOUSING-RECEPTACLE					
	3	3J1907	1	SEAL-O-RING (15.85MM OD)					
	4	3K0360	1	SEAL-O-RING (16.36MM ID)					

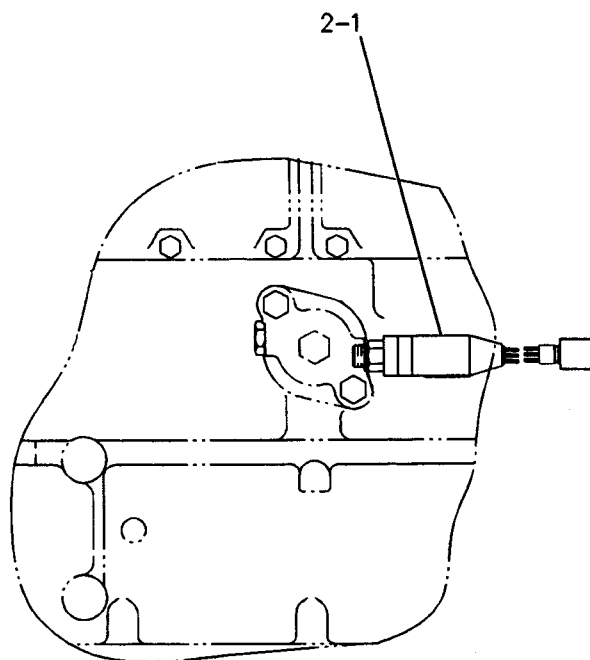
R-585885 CP

1004327 CONTACTOR GP
An Attachment

ELECTRICAL AND STARTING SYSTEM



MOUNTING LOCATION FOR WATER
TEMPERATURE ALARM CONTACTOR



MOUNTING LOCATION FOR
OIL PRESSURE SWITCH

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	9X4276	1	SWITCH AS-PRESSURE (OIL)					
		7N7779	1	SOCKET					
		7N7780	2	PIN-CONNECTOR (BLADE)					
		7N7781	1	HOUSING-RECEPTACLE					
	2	3J1907	1	SEAL-O-RING (15.85MM OD)					
	3	3K0360	1	SEAL-O-RING (16.36MM ID)					
	4	7E8343	1	SWITCH AS-TEMPERATURE (WATER)					
		7N7779	1	SOCKET					
		7N7780	1	PIN-CONNECTOR (BLADE)					
		7N7781	1	HOUSING-RECEPTACLE					

R-585887 CP

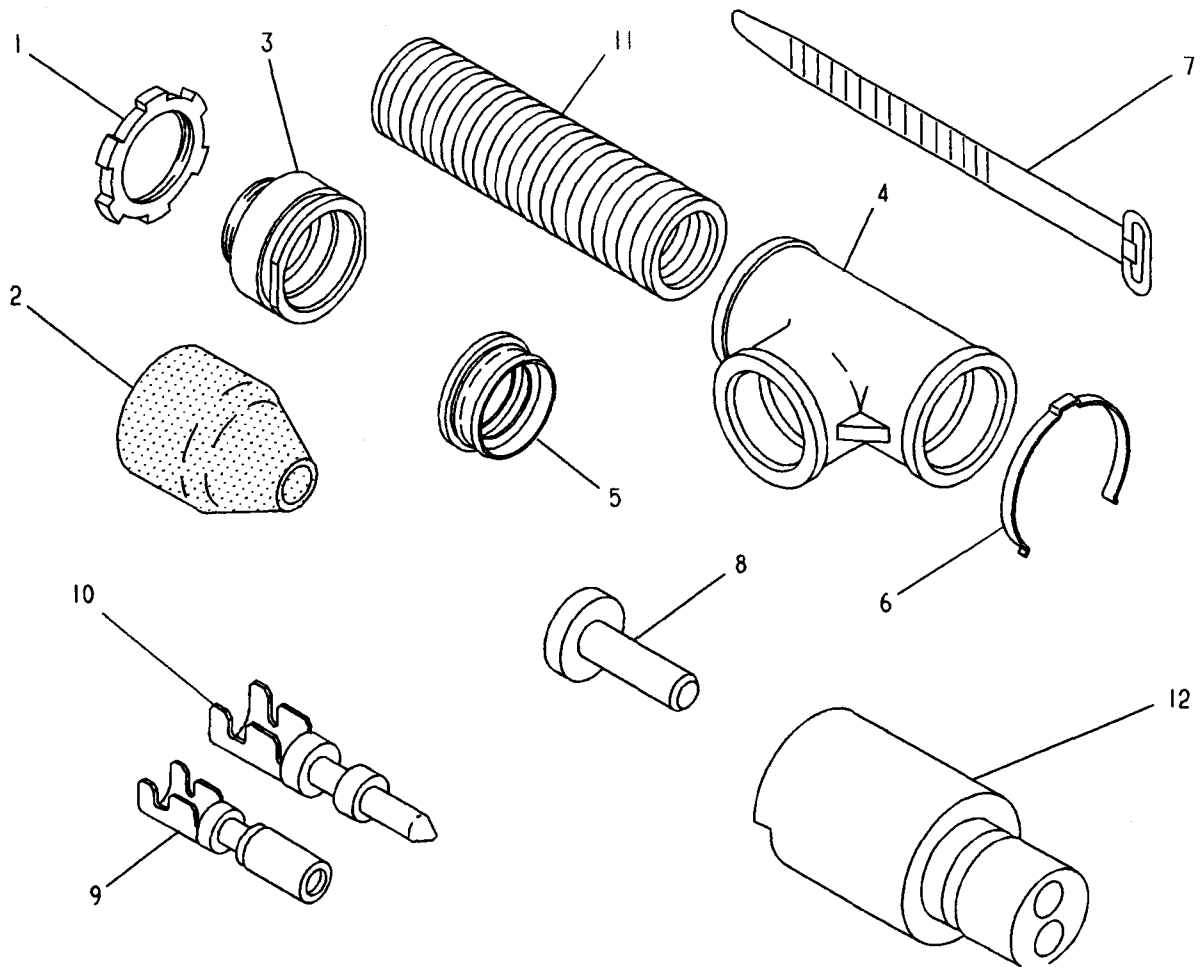
1004328 CONTACTOR GP
An Attachment

[illegible]

1408

Part Of 9Y7780 Wiring Gp
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	625388		LOCKNUT	D	11	6V5817		CONDUIT-FLEXIBLE
	2	1S2244		BOOT-CONDUIT					25.4MM (.75IN)ID
		1S2294		BOOT-CONDUIT	D		6V5818		CONDUIT-FLEXIBLE
				16MM (.63IN)ID	D		6V5819		CONDUIT-FLEXIBLE
	3	5N9117		ADAPTER (1-11.5 THD)		12	7N7781		HOUSING-RECEPTACLE
	4	5N9065		TEE 35MM (1.38IN)ID					(2 PIN-1 SOCKET)
		5N9066		TEE 28.6MM (1.13IN)ID					THE FOLLOWING WIRES
	5	5N9067		COLLAR 25.4MM(1.0IN) TO					ARE AVAILABLE:
				25.4MM(1.0IN)	D		5P5675		WIRE (6 GA)
		5N9068		COLLAR 25.4MM(1.0IN) TO	D		5P5622		WIRE (10 GA)
				19.1MM(.75IN)	D		5P5624		WIRE (14 GA)
		5N9070		COLLAR 19.1MM(.75IN) TO	D		5P5623		WIRE (16 GA)
				19.1MM(.75IN)	D		6V2369		WIRE (4 GA)
		5N9071		COLLAR 19.1MM(.75IN) TO					
				12.7MM(.50IN)	F		3S8888		MARKER-WIRE (NOS.1-1000)
	6	5N9072		CLIP (LARGE)					
		5N9073		CLIP (SMALL)					
	7	8L8413		STRAP-CABLE					
	8	9G3695		PLUG-SEAL					
	9	7N7779		SOCKET					
	10	7N7780		PIN-CONNECTOR					

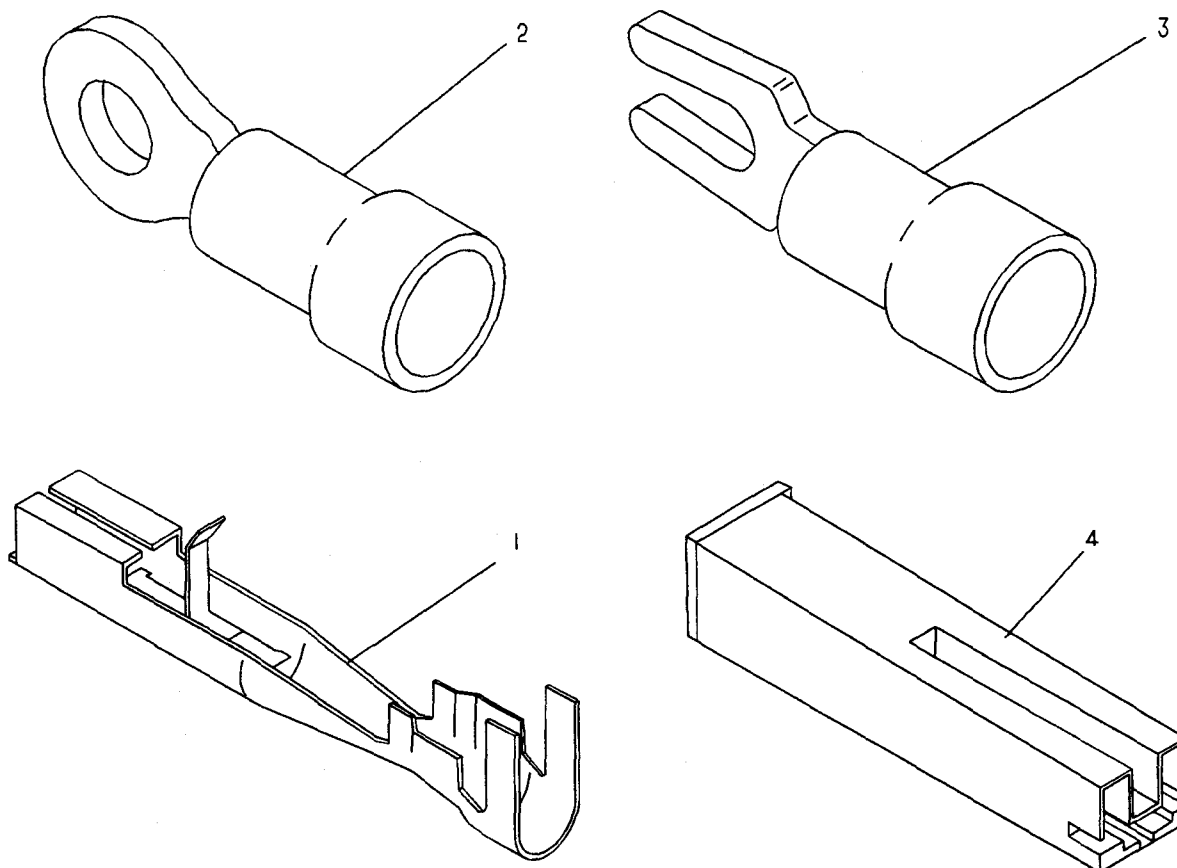
D-ORDER BY THE METER
F-NOT SHOWN

C-463994 EP

1408

9Y7521 HARNESS GP-WIRING-PART 1 OF 2
Part Of 9Y7780 Wiring Gp
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	6T6505		HOUSING-RECEPTACLE (14-18 GA)		3	5P1475		TERMINAL (14-16 GA/NO.8 SCREW)
	2	2L8050		TERMINAL (6 GA)			5P1476		TERMINAL (14-16 GA/NO.10 SCREW)
		2L8066		6.4MM(.25IN)SCREW			5P1477		TERMINAL (10 GA/NO.8 SCREW)
				TERMINAL (10 GA/NO. 10 SCREW)			5P1478		TERMINAL (10 GA/NO.10 SCREW)
		2L8067		TERMINAL (10 GA)			5P2321		TERMINAL (14-16 GA/NO.6 SCREW)
		2L8071		6.4MM(.25IN)SCREW		4	6T6506		TERMINAL (14-18 GA)
		2L8081		TERMINAL (14-16 GA)					
				12.7MM(.5IN)SCREW					
		9G4344		TERMINAL (4 GA)					
				12.7MM(.5IN)SCREW					
		3T4684		TERMINAL AS (4 GA)					
				6.4MM(.25IN)SCREW					
		5P3454		TERMINAL (4 GA)					
				7.93MM(.312IN)SCREW					
		7H1180		TERMINAL AS (6-8 GA)					
				7.93MM(.312IN)SCREW					
		2L8065		TERMINAL (10-12 GA)					
				4.17MM(.164IN)NO.8 SCREW					
		2L8075		TERMINAL (14-16 GA)					
				4.17MM(.164IN)NO.8 SCREW					

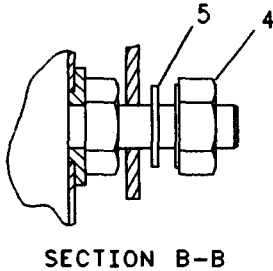
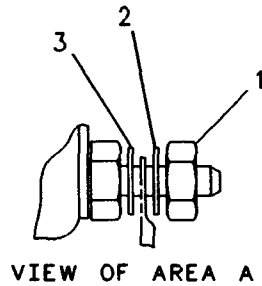
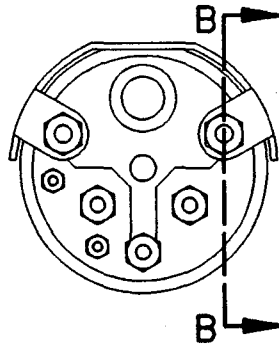
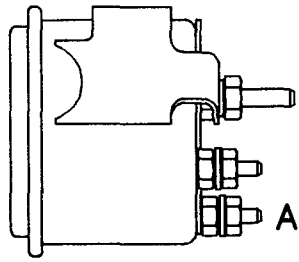
C-541103 EP

1408

9Y7521 HARNESS GP-WIRING-PART 2 OF 2

Part Of 9Y7780 Wiring Gp
An Attachment

ELECTRICAL AND STARTING SYSTEM

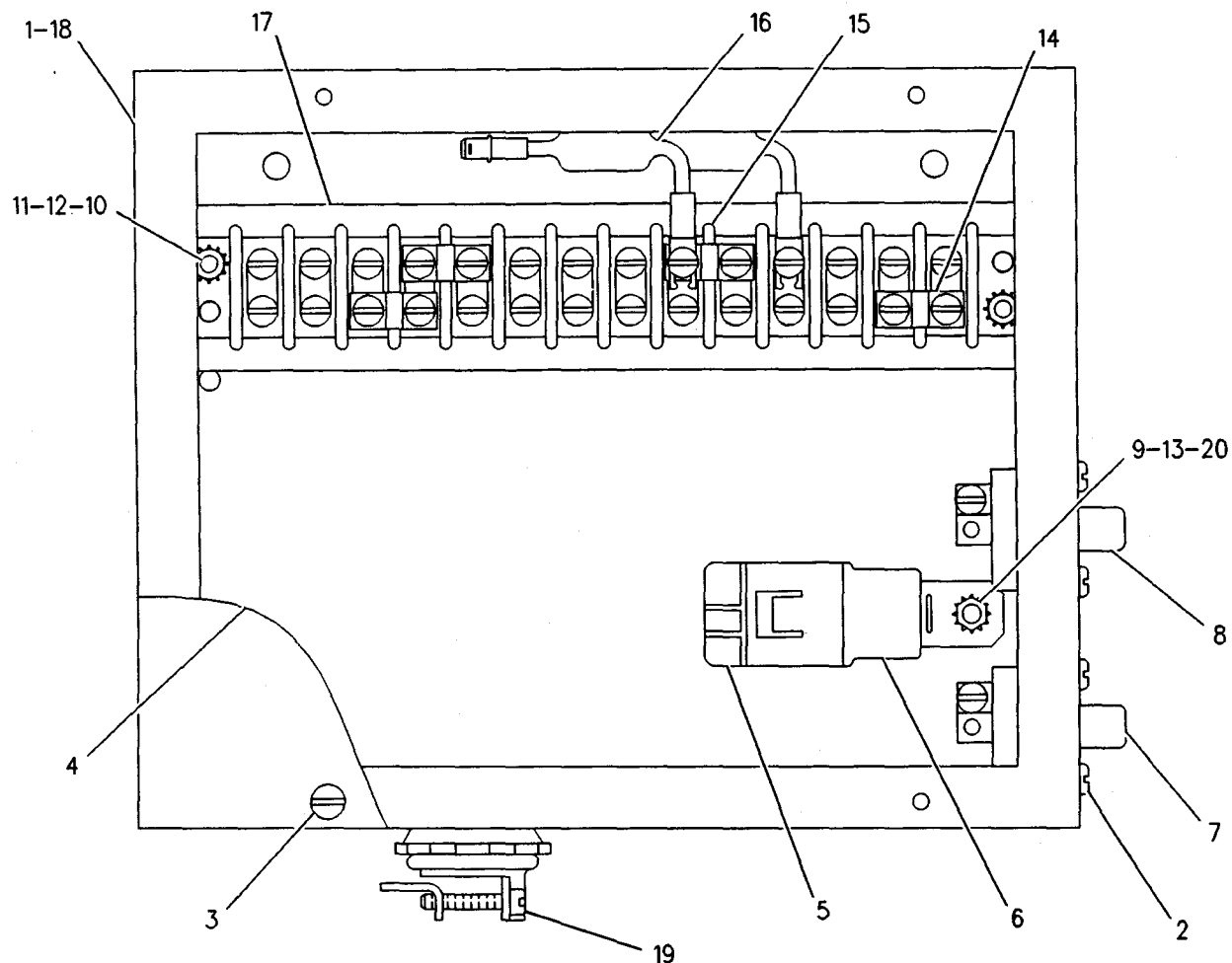


NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	6V8368	2	NUT
	2	4B5324	2	WASHER
	3	3L8187	2	LOCKWASHER
	4	4B2043	2	NUT
	5	9B7233	2	LOCKWASHER

F-564316 EP

1051457 INDICATOR AS-VOLT
 Part Of 9Y5733 Meter Gp-Volt
 An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	4W7957	1	PLATE GP-IDENTIFICATION		17	5L8546	1	STRIP-MARKER
	2	7S4338	4	SCREW-MACHINE (8-32X.75IN)		18	9Y3658	1	JUNCTION BOX
	3	9M5520	4	SCREW-TAPPING		19	6I0921	1	CONNECTOR
	4	3N0855	1	COVER-BOX		20	9S8750	1	NUT-FULL (1/4-20 THD)
	5	3E5519	1	PLUG AS-CONNECTOR					
	6	7X1379	1	RELAY AS					
	7	6T3644	1	CIRCUIT BREAKER AS (20 AMP)					
		6V8376	2	SCREW-MACHINE (8-32X.25 IN)					
		9B7233	2	LOCKWASHER (NO.8)					
	8	6T3642	1	CIRCUIT BREAKER AS (10 AMP)					
		6V8376	2	SCREW-MACHINE (8-32X.25 IN)					
		9B7233	2	LOCKWASHER (NO.8)					
M	9	3K6881	1	SCREW-MACHINE (M5X0.8X20MM)					
	10	8T4127	2	SCREW-MACHINE (M5X0.8X20MM)					
M	11	9F8125	2	LOCKWASHER (5.18MM ID)					
	12	6V8127	2	NUT					
	13	1H3338	1	LOCKWASHER (6.64MM ID)					
	14	5N5159	4	JUMPER-STRIP					
	15	4D1260	1	STRIP-TERMINAL					
	16	7W9551	2	DIODE AS					

M-METRIC PART

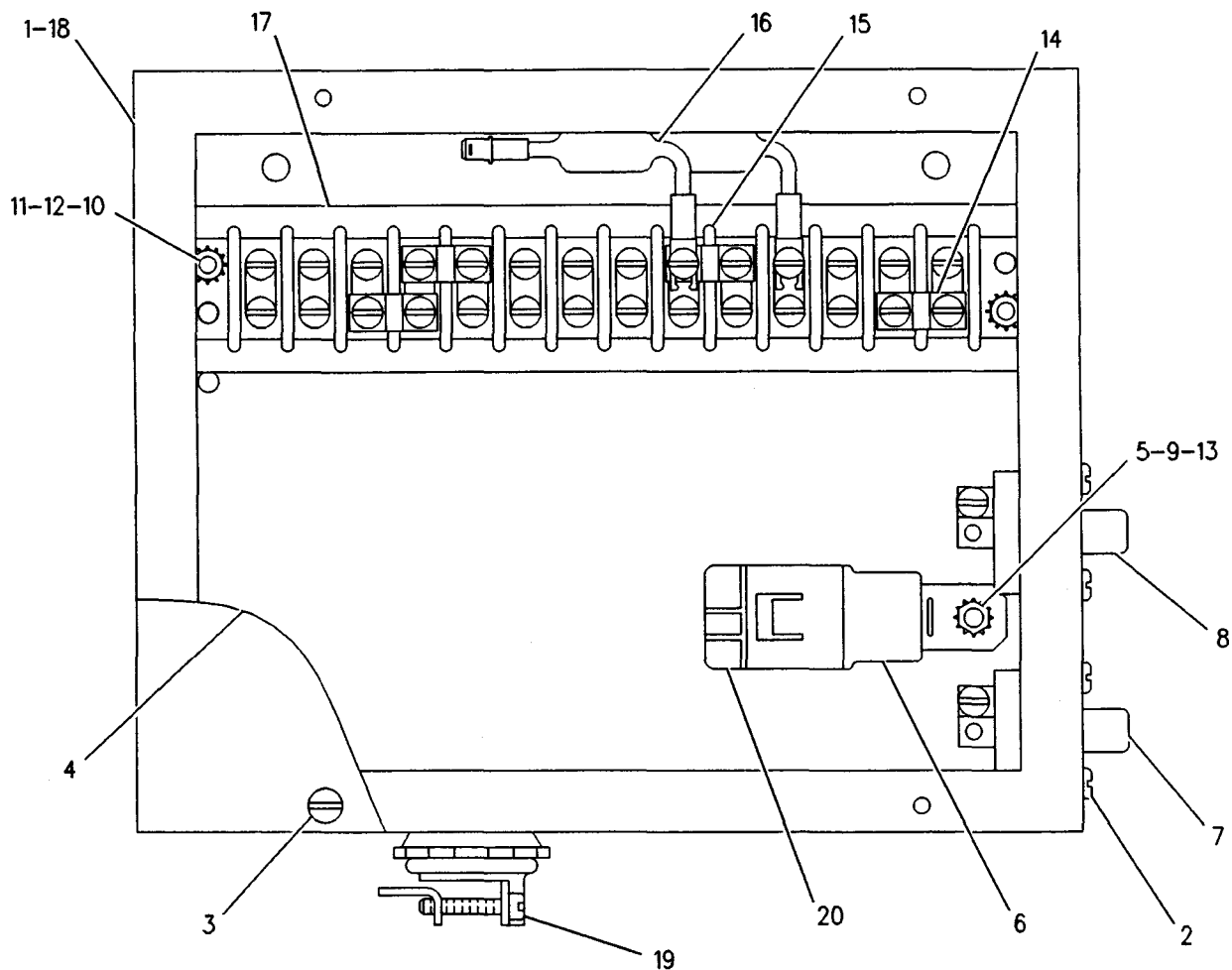
F-607248 CP

7426

7E4887 JUNCTION BOX GP

Part Of 1220443 & 7E4886 Shutoff Gp-Electrical
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	4W7957	1	PLATE GP-IDENTIFICATION		15	4D1260	1	STRIP-TERMINAL
	2	7S4338	4	SCREW-MACHINE (8-32X.75IN)		16	7W9551	2	DIODE AS (EACH INCLUDES)
	3	9M5520	4	SCREW-TAPPING			4S1988	1	TERMINAL
	4	3N0855	1	COVER-BOX			5P1475	1	TERMINAL (BLADE)
	5	9S8750	1	NUT-FULL (1/4-20 THD)			6V1614	1	TUBE-SHRINKABLE
	6	3E5239	1	RELAY AS		17	5L8546	1	STRIP-MARKER
	7	6T3644	1	CIRCUIT BREAKER AS (20 AMP)		18	9Y3658	1	JUNCTION BOX
		6V8376	2	SCREW-MACHINE (8-32X.25 IN)		19	6I0921	1	CONNECTOR
		9B7233	2	LOCKWASHER (NO.8)		20	3E5519	1	PLUG AS-CONNECTOR
	8	6T3642	1	CIRCUIT BREAKER AS (10 AMP)					
		6V8376	2	SCREW-MACHINE (8-32X.25 IN)					
		9B7233	2	LOCKWASHER (NO.8)					
M	9	1H3338	1	LOCKWASHER (6.64MM ID)					
	10	8T4127	2	SCREW-MACHINE (M5X0.8X20MM)					
			2	LOCKWASHER (5.18MM ID)					
M	11	9F8125	2	NUT					
	12	6V8127	2	SCREW-MACHINE					
	13	3K6881	1	JUMPER-STRIP					
	14	5N5159	4						

D-ORDER BY THE METER
M-METRIC PART

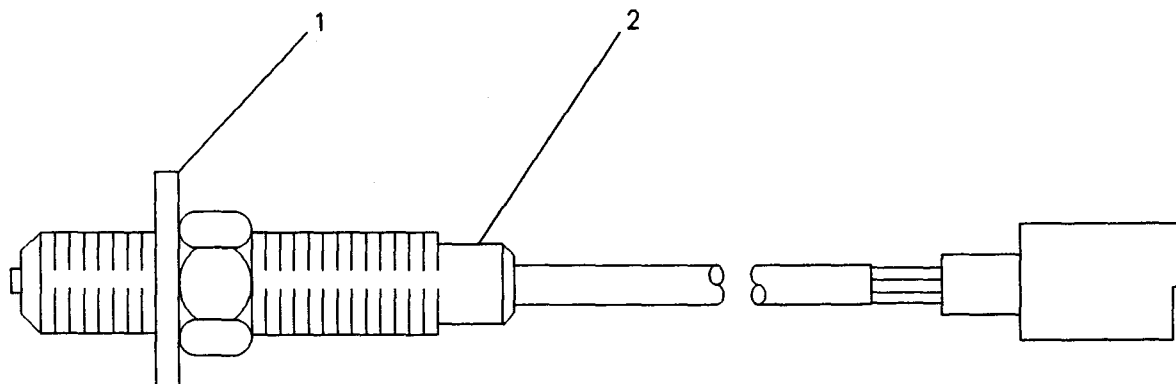
F-607361 CP

7426

9Y3657 JUNCTION BOX GP

Part Of 1220445 & 9Y2109 Shutoff Gp-Electrical
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
B	1	4B4281	1	WASHER					
	2	3E7886	1	SENSOR AS-SPEED					

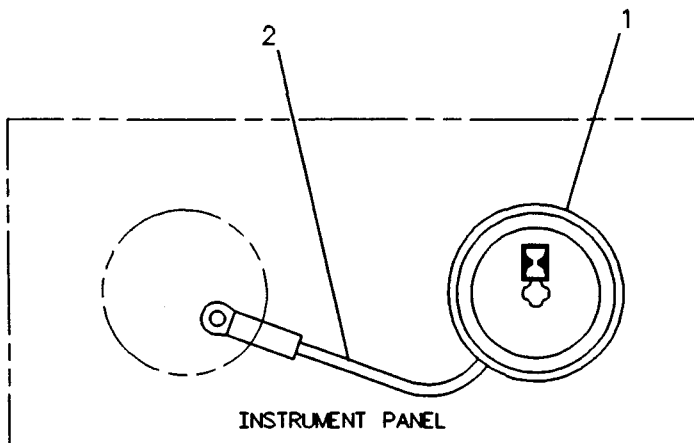
B-USE AS REQUIRED

F-553442 EP

7462

7W3355 MAGNETIC PICKUP GP
 Part Of 9Y1132, 9Y1378, & 9Y7333 Tachometer
 An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
Y E	1	9G6762	1	METER AS-SERVICE
	2	6I2019	1	WIRE AS
		2L8074	1	TERMINAL
		8T7875		WIRE (12CM)
		6T6506	1	TERMINAL
		6T6505	1	HOUSING-RECEPTACLE

E-ORDER BY THE CENTIMETER
Y-SEPARATE ILLUSTRATION

F-540786 EP

7478

6I2016 METER GP-SERVICE

9G6762-Page 289

An Attachment

1 9W1490 KIT-SERVICE METER

1 6T7568 METER-SERVICE

1 7T8579 METER-SERVICE

462699 P

7480

9G6762 METER AS-SERVICE

Part Of 6I2016 Meter As

For Use With 12 Volt Or 24 Volt Electrical Systems

Field Replacement Order 9W1490-Page 290

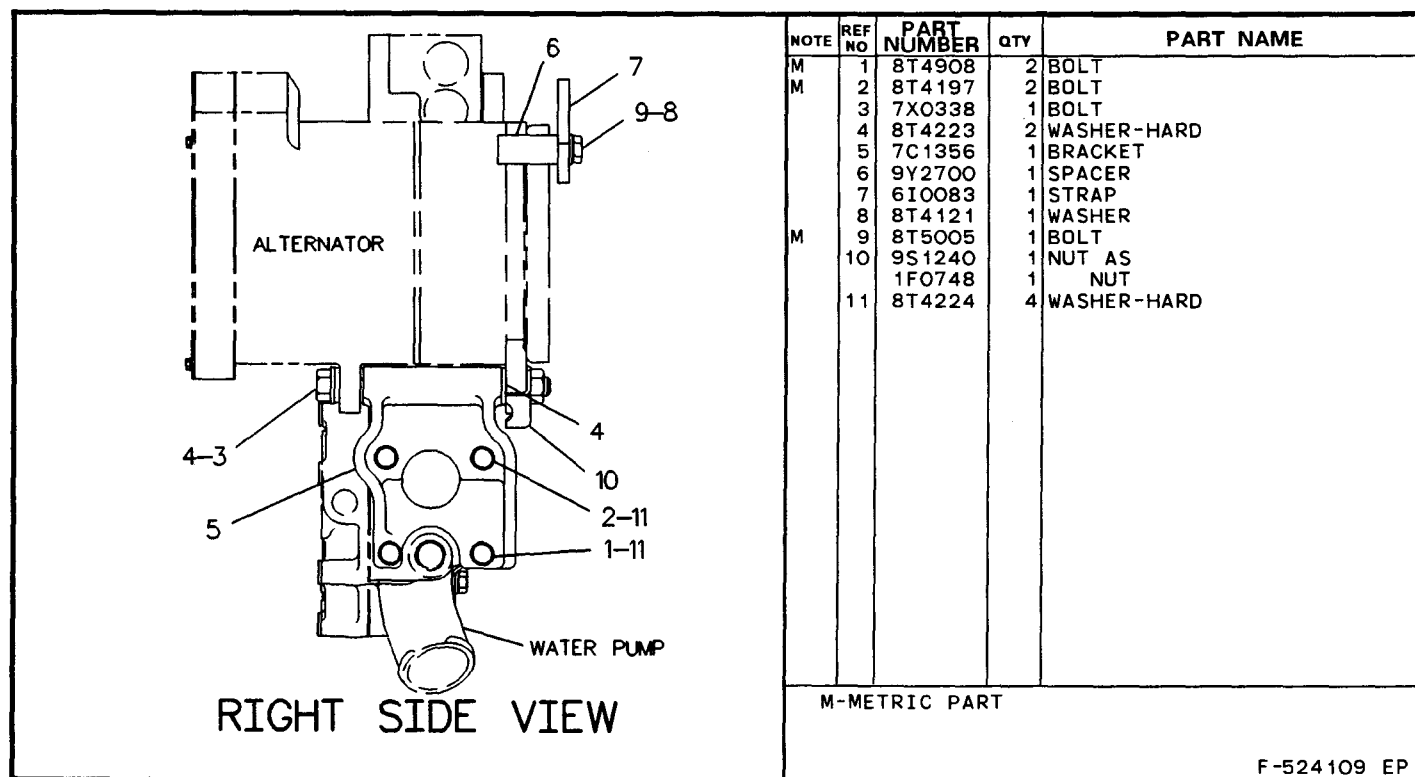
ELECTRICAL AND STARTING SYSTEM

1 8T0701 FILM
1 9G6762 METER AS-SERVICE

525778 P

7478

9W1490 KIT-SERVICE METER
Field Replacement For 9G6762-Page 289

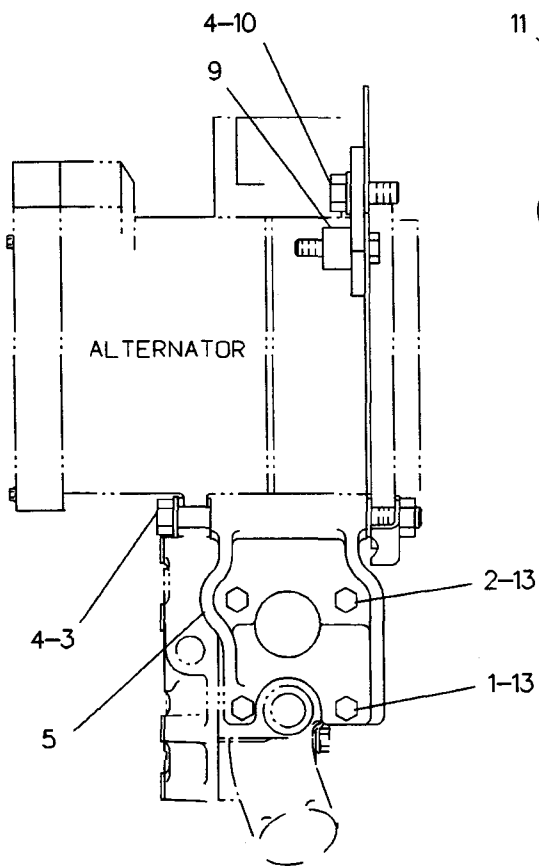


F-524109 EP

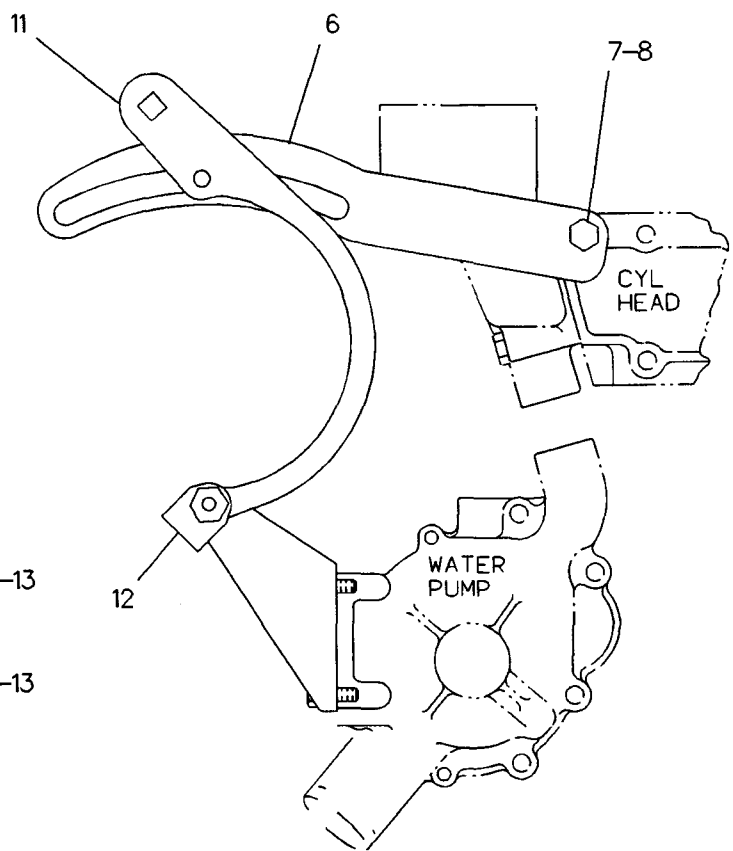
1405

610084 MOUNTING GP-ALTERNATOR
An Attachment

ELECTRICAL AND STARTING SYSTEM



SIDE VIEW OF ENGINE



FRONT VIEW OF ENGINE

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	8T4908	2	BOLT					
M	2	8T4197	2	BOLT					
	3	7X0338	1	BOLT					
	4	8T4223	2	WASHER-HARD					
	5	7C1356	1	BRACKET					
	6	7C1357	1	STRAP					
M	7	8T4185	1	BOLT					
	8	8T4121	1	WASHER					
	9	8L5423	1	SPACER					
	10	8T8917	1	BOLT					
	11	1012960	1	BRACKET					
	12	9S1240	1	NUT AS					
		1F0748	1	NUT					
	13	8T4224	4	WASHER-HARD					

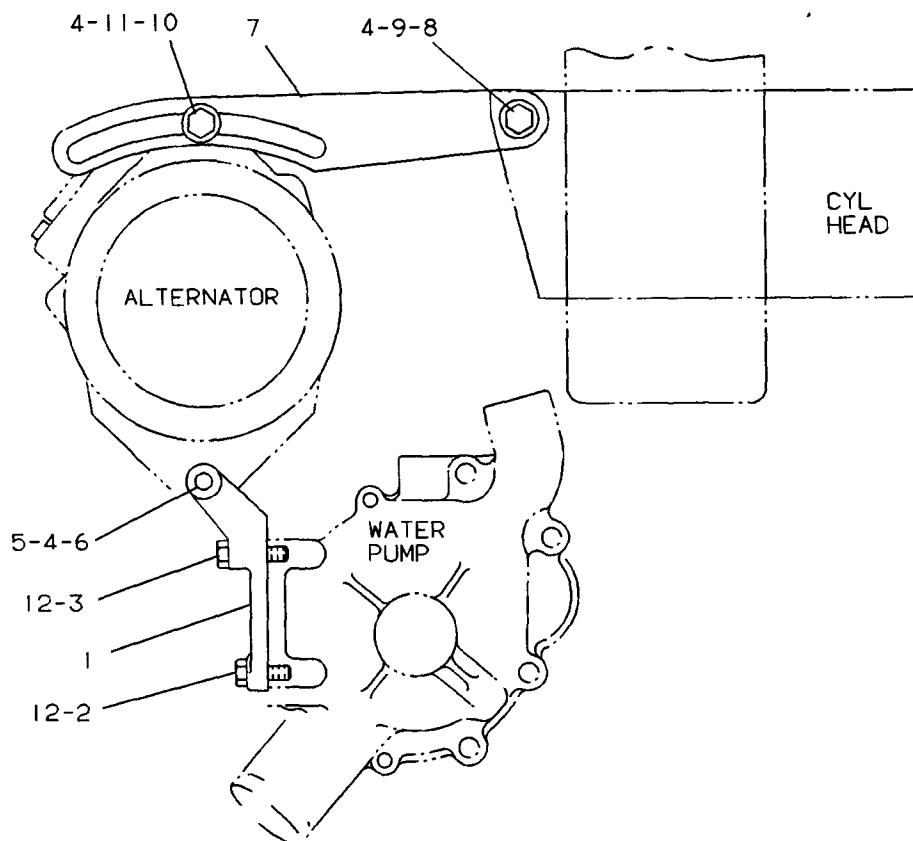
M-METRIC PART

R-564984 EP

1405

9Y3946 MOUNTING GP-ALTERNATOR
An Attachment

ELECTRICAL AND STARTING SYSTEM



FRONT VIEW OF ENGINE

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	7W8807	1	BRACKET					
M	2	8T7547	2	BOLT					
	3	8T4197	2	BOLT					
	4	8T4121	6	WASHER					
	5	9Y0083	1	SPACER					
M	6	8T4178	1	BOLT					
	7	7C0484	1	STRAP					
M	8	8T6466	1	BOLT					
	9	7K3215	2	BOSS					
M	10	8T4186	1	BOLT					
M	11	8T4133	1	NUT					
	12	8T4224	4	WASHER-HARD					

M-METRIC PART

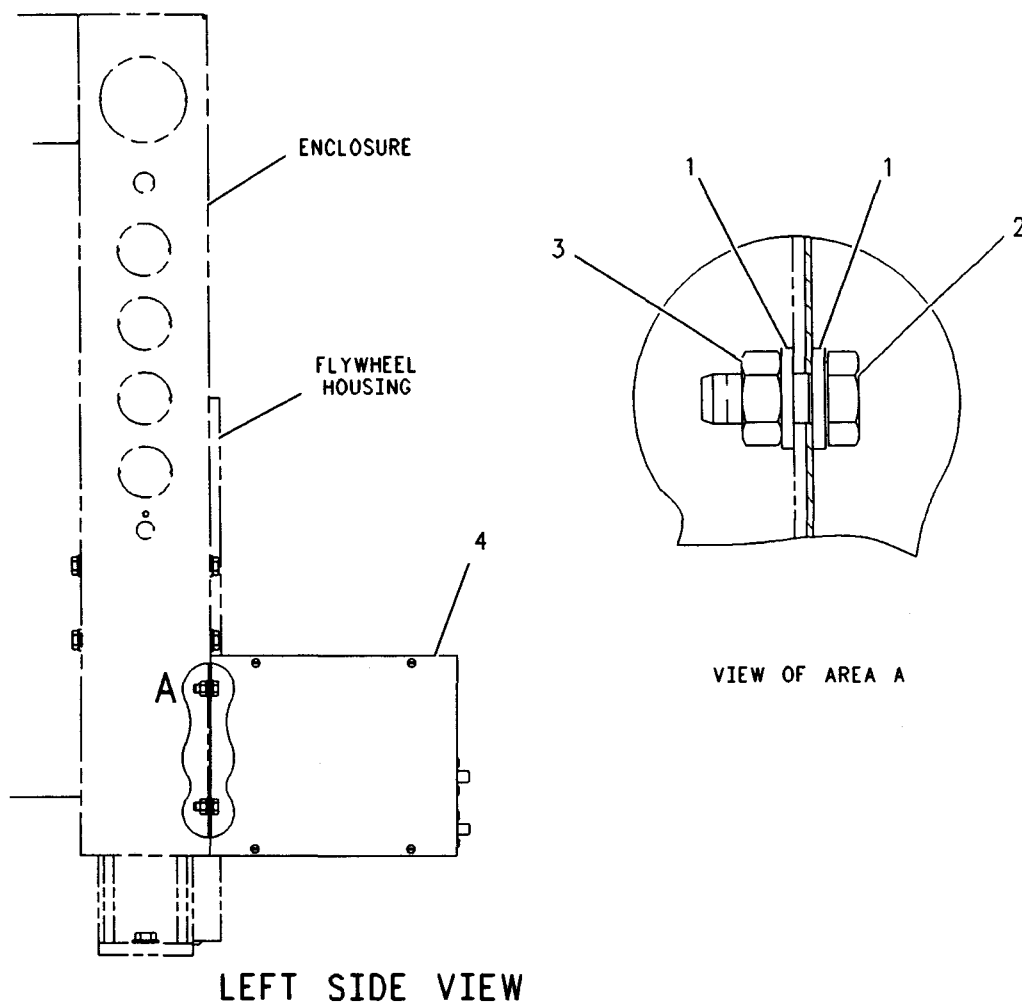
C-488708 EP

1405

9Y5371 MOUNTING GP-ALTERNATOR

For Use With Alternator With 50.7 Pivot Spool Length, 10 MM (.39IN) Pivot Bolt Diameter & Either 167.6 Or 183 Swing Radius
An Attachment

ELECTRICAL AND STARTING SYSTEM



LEFT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	9M1974	4	WASHER-HARD (2MM THK)					
M	2	6V5217	2	BOLT (M8X1.25X20MM)					
Y	3	5P7970	2	NUT (M8X1.25 THD)					
	4	7E4887	1	JUNCTION BOX GP					

M-METRIC PART
Y-SEPARATE ILLUSTRATION

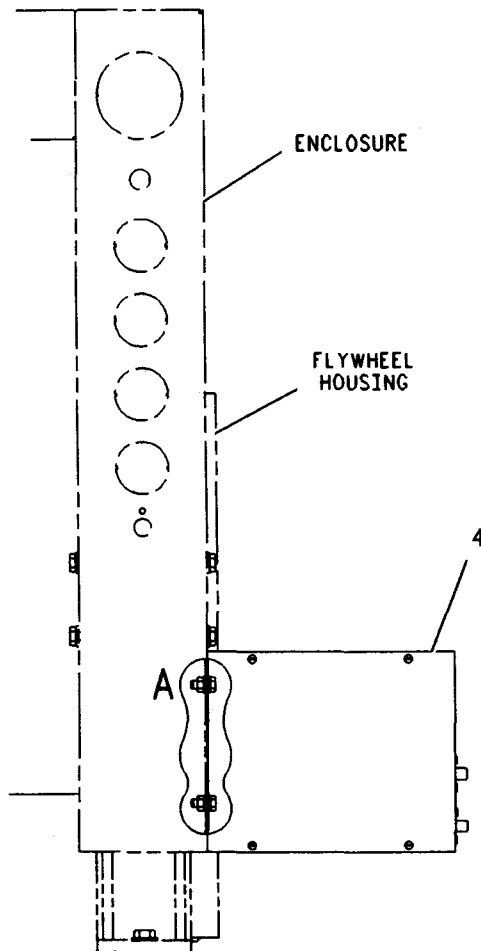
F-607471 CP

1220443 SHUTOFF GP-ELECTRICAL

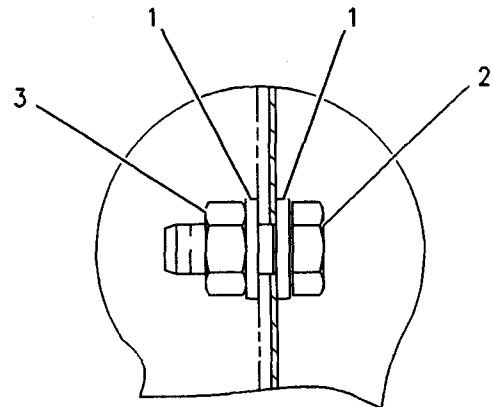
7E4887-Page 286

An Attachment

ELECTRICAL AND STARTING SYSTEM



LEFT SIDE VIEW



VIEW OF AREA A

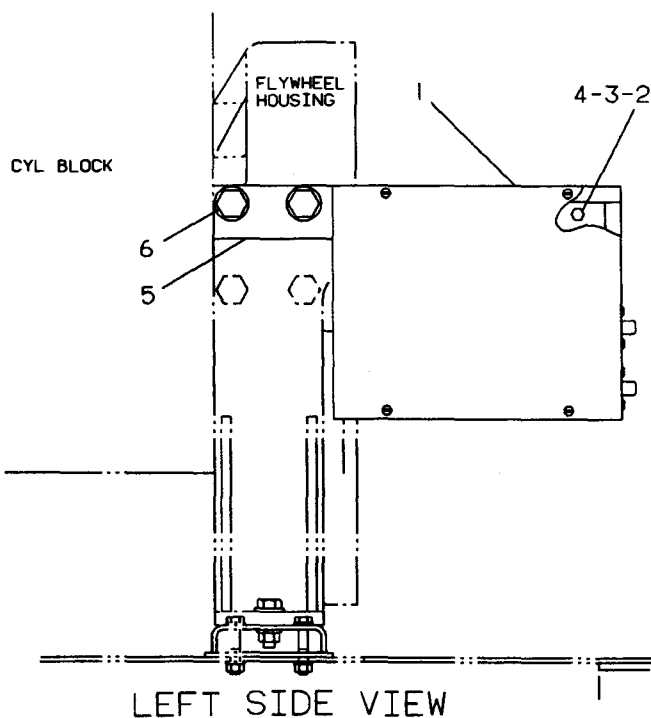
NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	9M1974	4	WASHER-HARD (2MM THK)					
M	2	6V5217	2	BOLT (M8X1.25X20MM)					
M	3	5P7970	2	NUT (M8X1.25 THD)					
Y	4	9Y3657	1	JUNCTION BOX GP					

M-METRIC PART
Y-SEPARATE ILLUSTRATION

F-607598 CP

1220445 SHUTOFF GP-ELECTRICAL
9Y3657-Page 287
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
Y	1	7E4887	1	JUNCTION BOX GP
M	2	8T4138	2	BOLT
	3	8T4205	4	WASHER-HARD
M	4	5C2890	2	NUT
	5	7E3542	1	STRAP
M	6	8T7338	2	BOLT
		8T4122	2	WASHER

M-METRIC PART
Y-SEPARATE ILLUSTRATION

R-482179 EP

7418

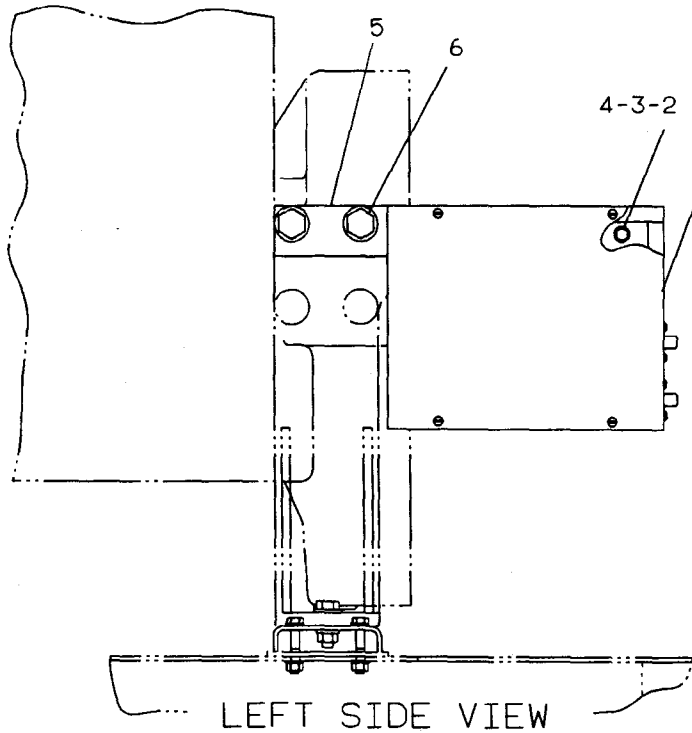
7E4886 SHUTOFF GP-ELECTRICAL

12 Volt

7E4887-Page 286

An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
Y	1	9Y3657	1	JUNCTION BOX GP
M	2	8T4138	2	BOLT
	3	8T4205	4	WASHER-HARD
M	4	5C2890	2	NUT
	5	7E3542	1	STRAP
	6	8T7338	2	BOLT
		8T4122	2	WASHER

M-METRIC PART
Y-SEPARATE ILLUSTRATION

C-488651 EP

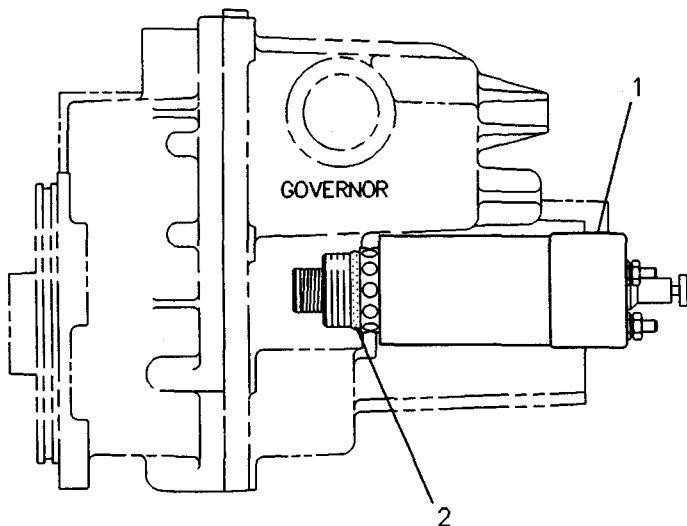
7426

9Y2109 SHUTOFF GP-ELECTRICAL

9Y3657-Page 287

For Use With Junction Box
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
C	1	8C3663	1	SOLENOID AS-MAGNETIC
		6V8377	2	NUT (8-32 THD)
		9B7233	2	LOCKWASHER
		6V8378	1	NUT (10-32 THD)
		4B4274	1	WASHER
	2	4K1388	1	SEAL-O-RING

C-CHANGE FROM PREVIOUS TYPE

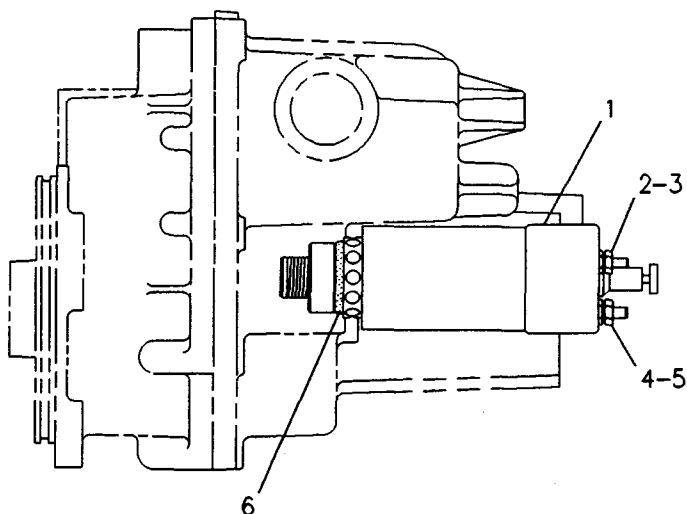
F-531440 EP

1259

7C4028 SOLENOID GP-SHUTOFF

24 Volt

For Use With 24 Volt Latching Type Shutoff
An Attachment



NOTE	REF NO	PART NUMBER	QTY	PART NAME
C	1	8C3662	1	SOLENOID AS
	2	6V8377	2	NUT (8-32 THD)
	3	9B7233	2	LOCKWASHER
	4	6V8378	1	NUT (10-32 THD)
	5	4B4274	1	WASHER
	6	4K1388	1	SEAL-O-RING

C-CHANGE FROM PREVIOUS TYPE

F-547262 EP

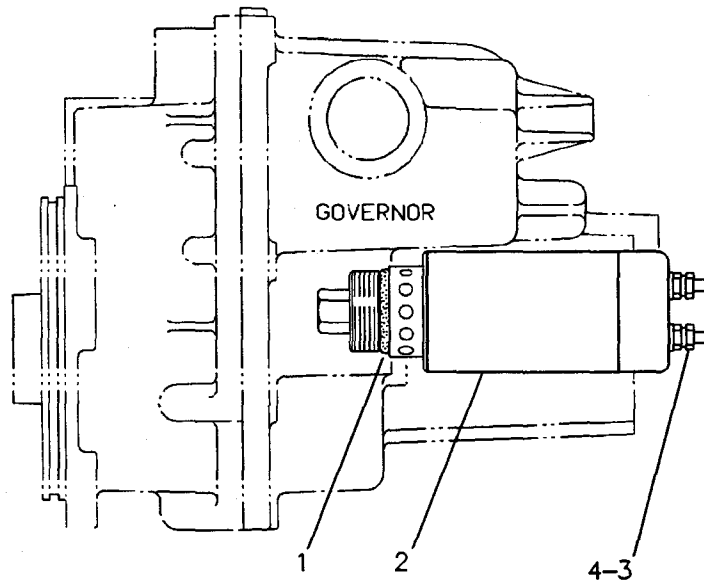
1259

7C7695 SOLENOID GP-SHUTOFF

12 Volt

For Use With 12 Volt Latching Type Shutoff
An Attachment

ELECTRICAL AND STARTING SYSTEM



LEFT SIDE VIEW

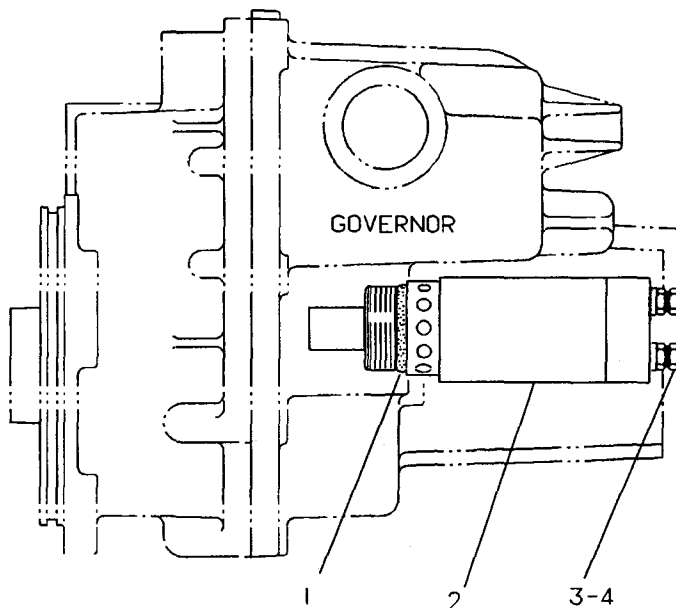
NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	4K1388	1	SEAL-O-RING
	2	3E0268	1	SOLENOID AS
	3	6V8377	2	NUT
	4	9B7233	2	LOCKWASHER

R-502935 EP

1259

7C9458 SOLENOID GP-SHUTOFF

24 Volt
Energized To Run
An Attachment



LEFT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	4K1388	1	SEAL-O-RING
	2	9X5302	1	SOLENOID AS
	3	6V8377	2	NUT
	4	9B7233	2	LOCKWASHER

R-512641 EP

1259

9Y0545 SOLENOID GP-SHUTOFF

12 Volt
Energized To Run
An Attachment

ELECTRICAL AND STARTING SYSTEM

- 1 2L8078 TERMINAL
- 1 2L8081 TERMINAL
- 1 2V1713 TAG-STARTING AID
- 1 6N9995 ATOMIZER AS-ETHER
- 1 3T3453 SWITCH AS-AID
- 1 3T9493 VALVE AS-START
- 2 5P1476 TERMINAL-SPADE
- 1 8J7844 FITTING-ADAPTER
- 1 5P2948 CONNECTOR-TUBE
- 2 3K0360 SEAL-O-RING
- 1 5P5391 FILM-INSTRUCTION
- 1 7N0140 TUBE AS-COIL
- 1 7N2059 CLAMP AS
- 2 7N7779 SOCKET-CONNECTOR
- 2 7N7780 PIN-CONNECTOR
- 2 7N9738 HOUSING
- 1 8C3569 SWITCH AS -TEMPERTURE
- 1 8N3536 TUBE-STEEL

541923 P

1456

7E4860 STARTING AID GP-ETHER

12 Volt, Spray Atomizer
An Attachment

- 1 6N9995 ATOMIZER AS-ETHER
- 1 2L8078 TERMINAL
- 1 8J7844 FITTING-ADAPTER
- 2 3K0360 SEAL-O-RING
- 1 2L8081 TERMINAL
- 1 2V1713 TAG-STARTING AID
- 1 3T3453 SWITCH AS-AID
- 2 5P1476 TERMINAL-SPADE
- 1 5P2984 CONNECTOR-TUBE
- 1 5P5391 FILM-INSTRUCTIONS
- 1 7N0140 TUBE AS-COIL
- 1 7N2059 CLAMP AS
- 2 7N7779 SOCKET-CONNECTOR
- 2 7N7780 PIN-CONNECTOR
- 2 7N9738 HOUSING
- 1 8C3569 SWITCH AS-TEMPATURE
- 1 8N3536 TUBE-STEEL
- 1 9G4365 VALVE AS-START

541927 P

1456

7E4861 STARTING AID GP-ETHER

24 Volt, Spray Atomizer
An Attachment

ELECTRICAL AND STARTING SYSTEM

	PAGE
1 6V5720 STARTING MOTOR GP-ELECTRIC.....	312
1 1068557 STARTING MOTOR GP-ELECTRIC.....	301

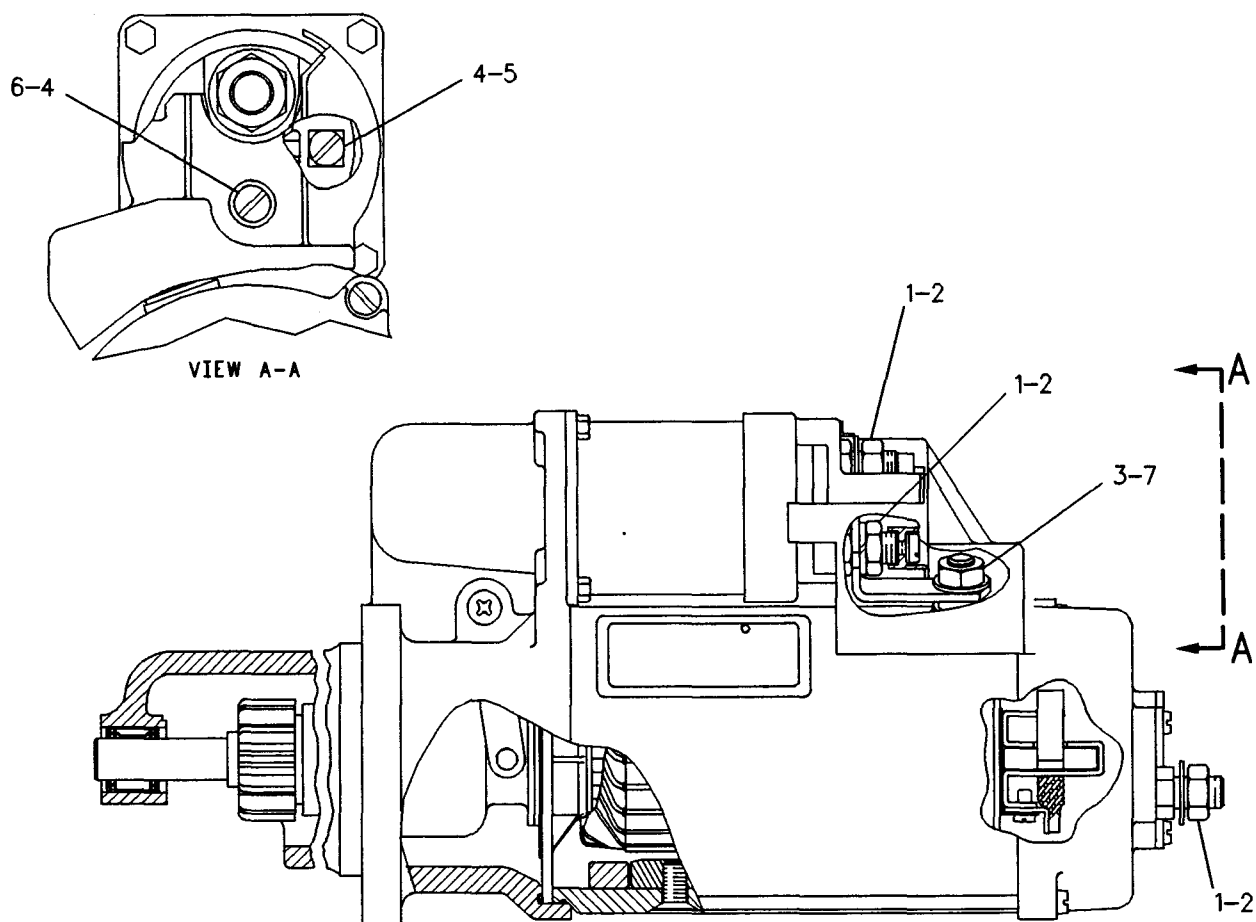
565245 P

1453

1047040 STARTING MOTOR GP-ELECTRIC
24 Volt

Part Of 1083858 Starting Motor
Field Replacement Order 1068558-Page 302, An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	8T4244	3	NUT					
	2	7X0562	3	WASHER-HARD					
M	3	8T4133	1	NUT					
M	4	9X2036	2	SCREW-PAN HEAD					
	5	8F1434	1	LOCKWASHER					
	6	8T0328	1	WASHER-HARD					
	7	8T4121	1	WASHER					

M-METRIC PART

F-564687 EP

1453

1068557 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 1047040 & 1068558 Starting Motor
An Attachment

ELECTRICAL AND STARTING SYSTEM

	PAGE
1 1068557 STARTING MOTOR GP-ELECTRIC.....	301
1 1068559 STARTING MOTOR GP-ELECTRIC.....	303

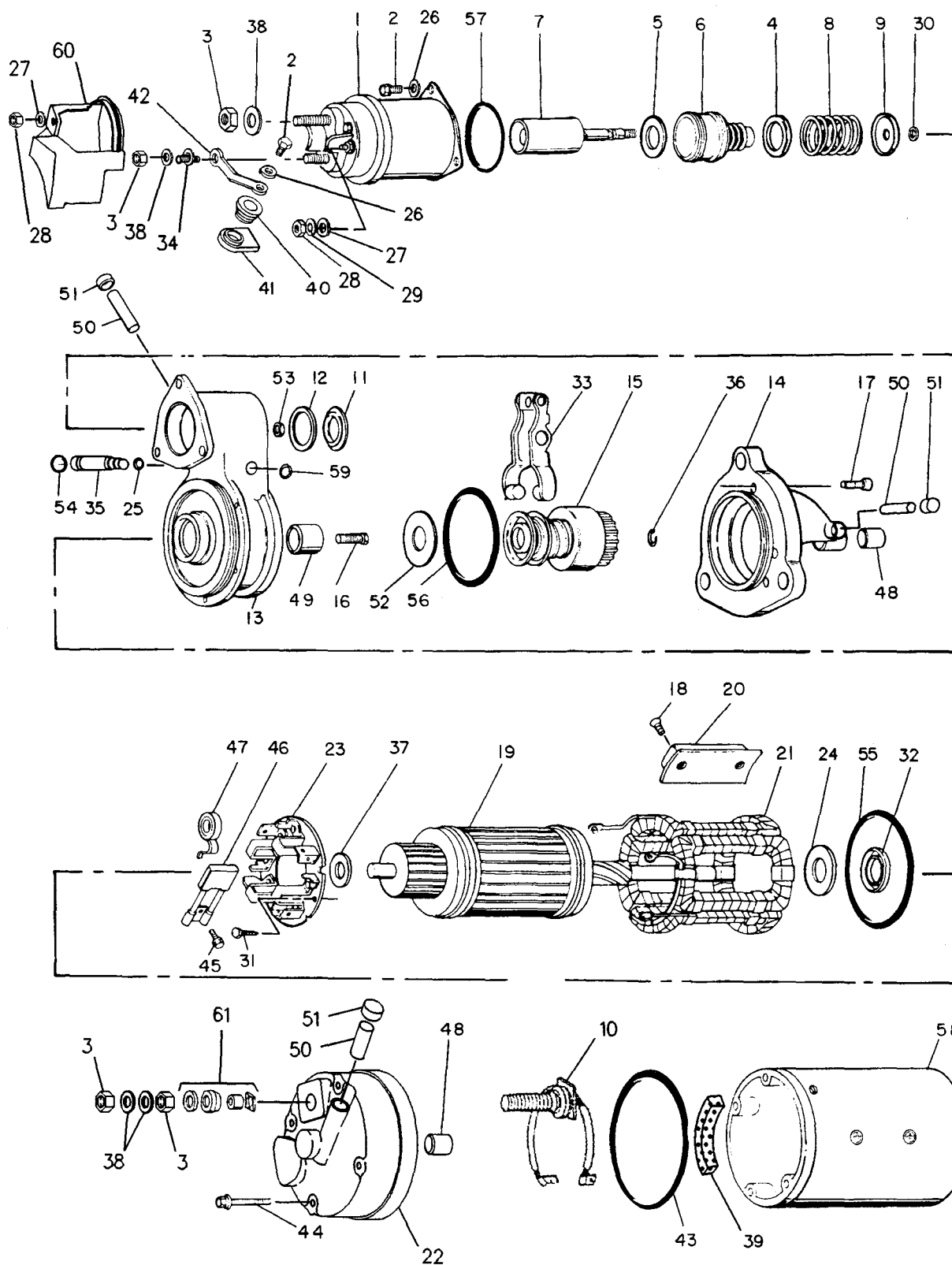
561501 P

1453

1068558 STARTING MOTOR GP-ELECTRIC*R
24 Volt

Field Replacement For 1047040-Page 300 & 8C4774-Page 319

ELECTRICAL AND STARTING SYSTEM



R-561533 EP

1453

1068559 STARTING MOTOR GP-ELECTRIC
 24 Volt
 Part Of 1068558 Starting Motor

ELECTRICAL AND STARTING SYSTEM

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	3E7859	1	SOLENOID AS					THE FOLLOWING REPAIR KITS ARE AVAILABLE: 1 KIT-BUSHING (INCL PARTS MARKED J) 1 KIT-BRUSH (INCL PARTS MARKED L) 1 KIT-LEVER (INCL PARTS MARKED P) 1 KIT-INSULATOR (INCL PARTS MARKED N)
	2	557349	4	BOLT			3E7860	1	
	3	6V8188	4	NUT					
	4	4M1828	1	RETAINER-SPRING			9X4825	1	
J	5	369821	1	WASHER					
	6	7T3269	1	BOOT			3E7861	1	
	7	7T3270	1	PLUNGER AS					
	8	9M7609	1	SPRING			8T9884	1	
	9	4M1827	1	RETAINER-SPRING					
	10	1029863	1	TERMINAL AS					
	11	4M1831	1	PLUG-LEVER HOUSING					
JLP	12	7L2894	1	GASKET					
	13	7X1952	1	HOUSING AS					
	14	3E7858	1	HOUSING AS					
	15	3E7857	1	DRIVE AS-STARTING MOTOR					
	16	369823	5	BOLT					
	17	7X3373	6	BOLT					
	18	3F0379	8	SCREW-POLE SHOE					
	19	3E7855	1	ARMATURE AS					
	20	7X1950	4	SHOE-POLE					
	21	3E7852	1	COIL-STARTING MOTOR					
	22	1067149	1	HOUSING AS					
	23	9X4821	1	PLATE AS					
JZ	24		1	SPACER					
PZ	25		1	RING					
	26	8T4205	4	WASHER-HARD					
	27	8T0328	2	WASHER-HARD					
	28	4B2049	2	NUT					
	29	8F1434	1	LOCKWASHER					
	30	2H3429	1	RING-RETAINING					
LZ	31		4	SCREW					
JZ	32		1	RETAINER					
PZ	33		1	LEVER AS					
	34	3E7853	1	TERMINAL-STARTING MOTOR					
PZ	35		1	SHAFT AS					
JZ	36		1	RING					
JZ	37		1	WASHER					
	38	7X0562	4	WASHER-HARD					
	39	7T3454	1	INSULATOR					
	40	7T3451	1	INSULATOR-TERMINAL					
	41	8T8569	1	INSULATOR-TERMINAL					
	42	9X4271	1	CONNECTOR					
JLZ	43		1	O-RING					
LZ	44		4	SCREW					
LZ	45		4	SCREW AS					
LZ	46		4	BRUSH					
LZ	47		4	SPRING					
JZ	48		2	BUSHING					
JZ	49		1	BUSHING					
JZ	50		3	PLUG					
JZ	51		3	CUP					
JZ	52		1	WASHER					
PJZ	53		1	NUT					
PZ	54		1	SEAL					
PJZ	55		1	O-RING					
JPZ	56		1	O-RING					
JZ	57		1	O-RING					
Z	58		1	HOUSING					
PZ	59		1	RETAINER					
	60	9X4824	1	COVER-STARTING MOTOR					
NZ	61		3	INSULATOR					
NZ			1	BUSHING					

Z-NOT SERVICED SEPARATELY

583570 EP

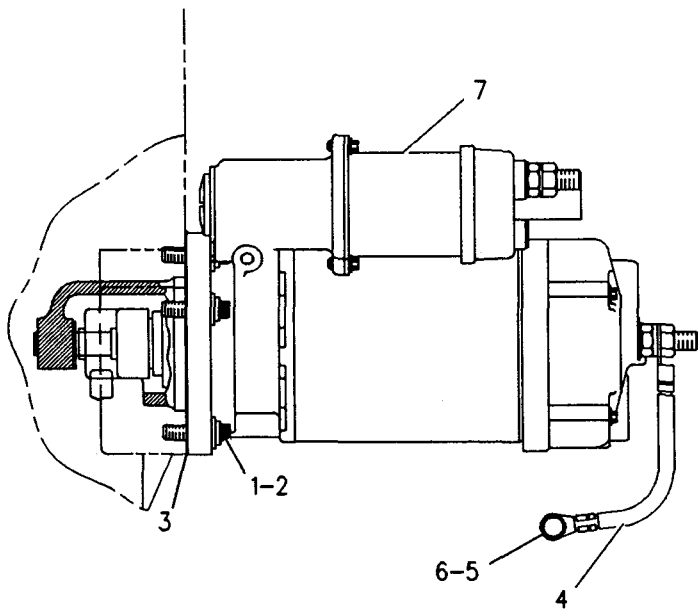
1453

1068559 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 1068558 Starting Motor

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	1087808	3	BOLT
	2	6V5839	3	WASHER
	3	3K3257	1	GASKET
	4	9Y8241	1	WIRE AS
M	5	8T4200	1	BOLT
	6	8T4224	1	WASHER-HARD
Y	7	6V4212	1	STARTING MOTOR GP-ELECTRIC

M-METRIC PART
Y-SEPARATE ILLUSTRATION

F-575864 EP

1453

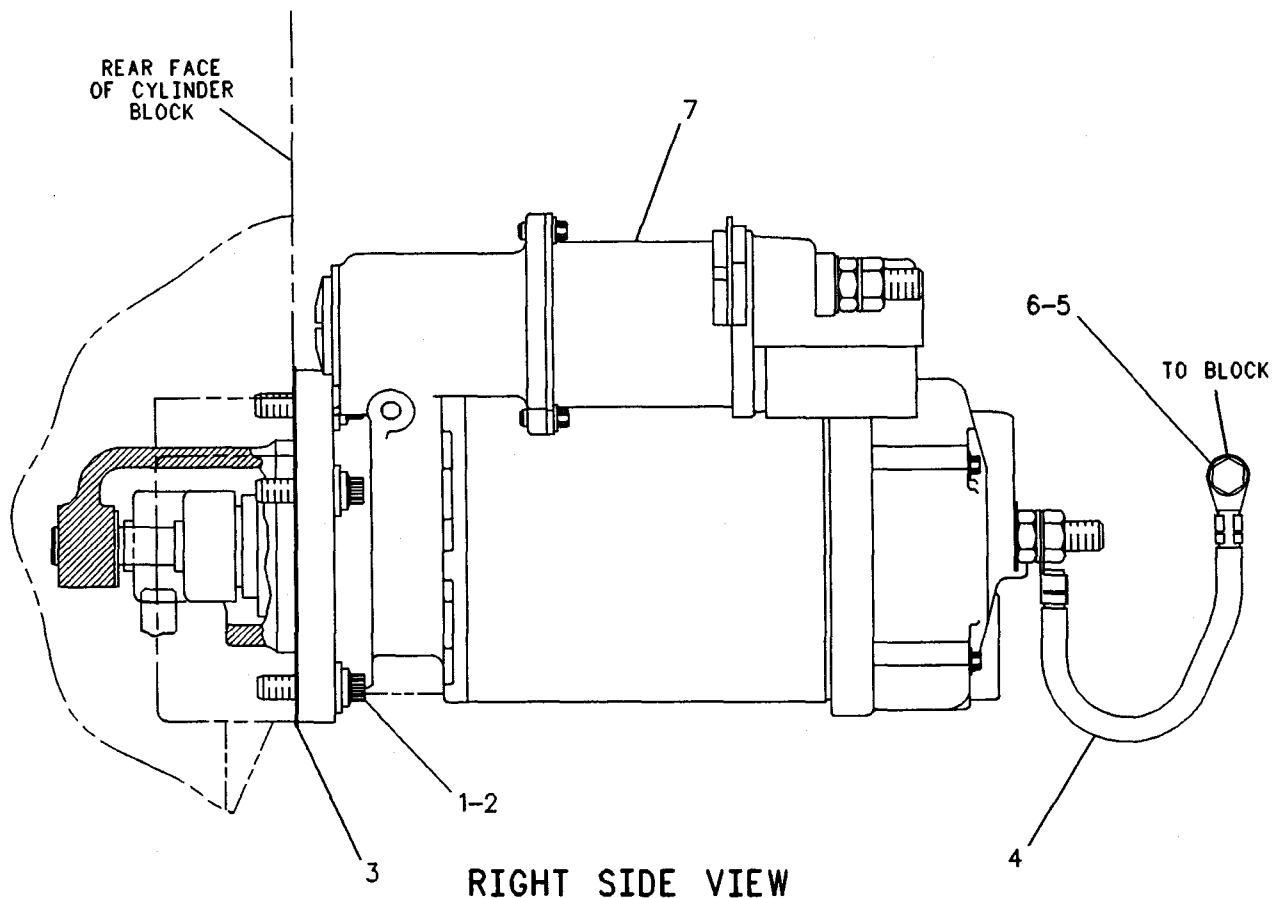
1083857 STARTING MOTOR GP-ELECTRIC

12 Volt

6V4212-Page 310

An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	1087808	3	BOLT					
	2	6V5839	3	WASHER					
	3	3K3257	1	GASKET					
	4	9Y8241	1	WIRE AS					
M	5	8T4200	1	BOLT					
	6	8T4224	1	WASHER-HARD					
Y	7	1047040	1	STARTING MOTOR GP-ELECTRIC					

M-METRIC PART
Y-SEPARATE ILLUSTRATION

F-568195 EP

1453

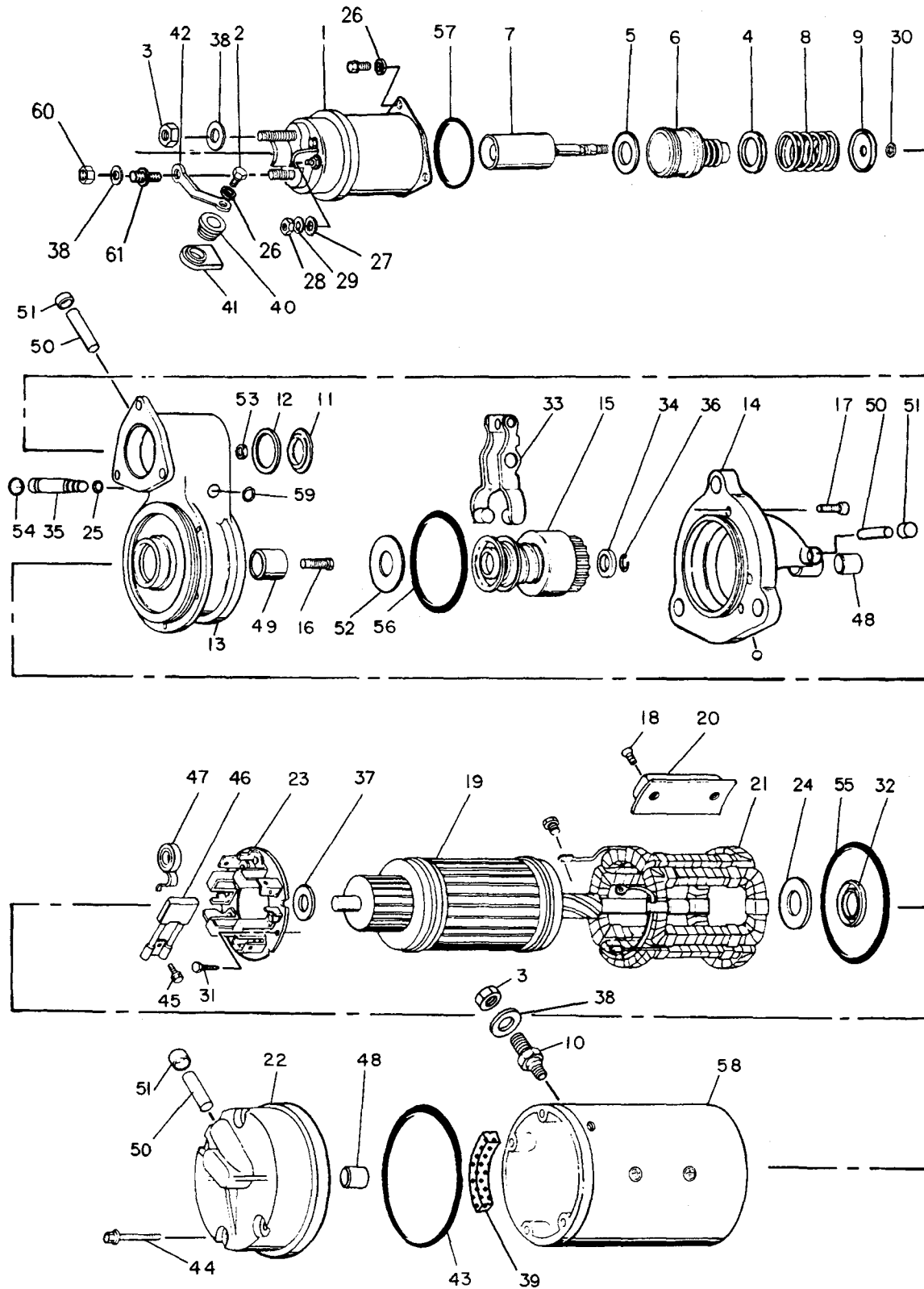
1083858 STARTING MOTOR GP-ELECTRIC

24 Volt

1047040-Page 300

An Attachment

ELECTRICAL AND STARTING SYSTEM



R-561250 EP

1453

3E1944 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 8C4774 Starting Motor
An Attachment

ELECTRICAL AND STARTING SYSTEM

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	9X4823	1	SOLENOID AS					THE FOLLOWING REPAIR KITS ARE AVAILABLE: KIT-BUSHING (INCL PARTS MARKED J) KIT-BRUSH (INCL PARTS MARKED L) KIT-LEVER (INCL PARTS MARKED P)
	2	5S7349	4	BOLT			9X4270	1	
	3	6V8188	2	NUT					
	4	4M1828	1	RETAINER-SPRING			9X4825	1	
J	5	369821	1	WASHER			7X1958	1	
	6	7T3269	1	BOOT					
	7	7T3270	1	PLUNGER AS					
	8	9M7609	1	SPRING					
	9	4M1827	1	RETAINER-SPRING					
	10	8C5639	1	TERMINAL					
JLP	11	4M1831	1	PLUG-LEVER HOUSING					
	12	7L2894	1	GASKET					
	13	7X1952	1	HOUSING AS					
	14	7X1954	1	HOUSING AS-DRIVE					
	15	7X1953	1	DRIVE AS-MOTOR					
	16	369823	5	BOLT					
	17	7X3373	6	BOLT					
	18	3FO379	7	SCREW-POLE SHOE					
	19	7X1951	1	ARMATURE AS					
	20	7X1950	4	SHOE-POLE					
	21	9X4822	1	COIL AS					
	22	9X4253	1	HOUSING AS					
	23	9X4821	1	PLATE AS					
JZ	24		1	SPACER					
PZ	25		1	SEAL					
	26	8T4205	4	WASHER-HARD					
	27	8T0328	1	WASHER-HARD					
	28	4B2049	1	NUT					
	29	8F1434	1	LOCKWASHER					
	30	2H3429	1	RING-RETAINING					
	31	9S2542	4	SCREW-TAPPING					
JZ	32		1	RETAINER-SEAL					
PZ	33		1	LEVER AS					
JZ	34		1	STOP					
PZ	35		1	LEVER AS					
JZ	36		1	RING					
JZ	37		1	WASHER					
	38	7X0562	3	WASHER-HARD					
	39	7T3454	1	INSULATOR					
	40	7T3451	1	INSULATOR-TERMINAL					
	41	8T8569	1	INSULATOR-TERMINAL					
	42	9X4271	1	CONNECTOR					
PLZ	43		1	O-RING					
LZ	44		4	SCREW					
PLZ	45		4	SCREW AS					
LZ	46		4	BRUSH					
LZ	47		4	SPRING					
JZ	48		2	BUSHING					
JZ	49		1	BUSHING					
JZ	50		3	PLUG					
JZ	51		3	CUP					
JZ	52		1	WASHER					
PJZ	53		1	NUT					
PZ	54		1	SEAL					
PJZ	55		1	O-RING					
JPZ	56		1	O-RING					
JZ	57		1	O-RING					
Z	58		1	HOUSING					
PZ	59		1	RETAINER					
	60	3H3680	1	NUT-JAM					
	61	3E7853	1	TERMINAL-STARTING MOTOR					

Z-NOT SERVICED SEPARATELY

561195 EP

1453

3E1944 STARTING MOTOR GP-ELECTRIC

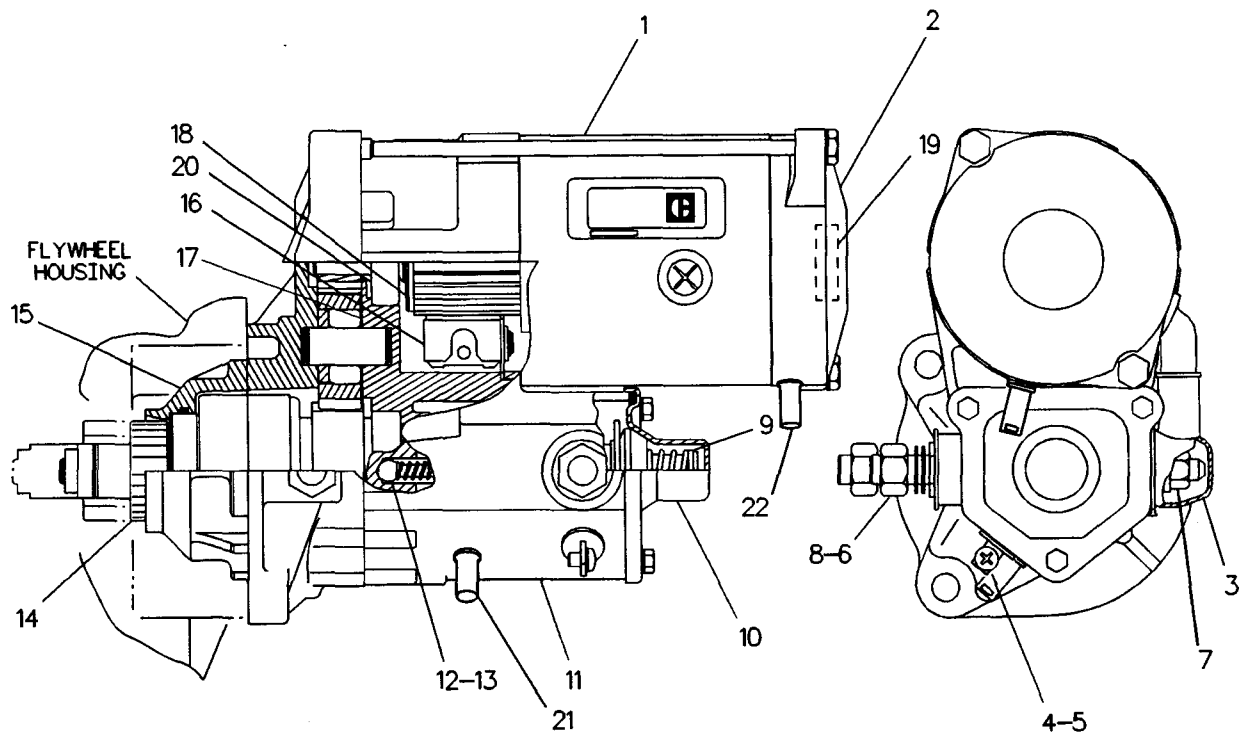
24 Volt

Part Of 8C4774 Starting Motor
An Attachment

308

SEBP2462

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M M M	1	9X1270	1	CASE AS-STARTING MOTOR					THE FOLLOWING REPAIR KITS ARE AVAILABLE: 1 KIT-TERMINAL (INCL. NUTS, WASHERS, BUSHINGS, SEALS, PLATES & TERMINALS) 1 KIT-BRUSH (INCL. BRUSHES & SCREWS) 1 KIT-STARTING MOTOR SEAL (INCL. SEALS & GASKET) 1 KIT-HARDWARE (INCL. BOLTS, SCREWS, NUT, WASHER & LOCKWASHERS) 1 KIT-STARTING MOTOR GEAR (INCL. PINIONS, ROLLERS & RETAINERS)
	2	9X1276	1	FRAME-STARTER			9X0295	1	
	3	9X1278	1	BOOT					
	4	9X2036	1	SCREW-PAN HEAD					
	5	8F1434	1	LOCKWASHER					
	6	8T4244	2	NUT					
	7	8T4133	1	NUT					
		8T4121	1	WASHER			9X1285	1	
	8	7X0562	2	WASHER-HARD					
	9	8C9778	1	PLUNGER AS					
	10	9X1277	1	COVER			9X1284	1	
	11	3E6497	1	SWITCH AS (STARTER)					
	12	8J4455	1	BALL					
	13	7T6090	1	SPRING			9X1283	1	
	14	9X1272	1	DRIVE AS-STARTING MOTOR					
	15	9X1273	1	HOUSING-STARTING MOTOR					
	16	9X1275	1	HOLDER AS-BRUSH					
	17	7T6087	1	WASHER			9X1282	1	
	18	9X1271	1	ARMATURE AS					
	19	2P8104	1	BEARING					
	20	8L4070	1	BALL BEARING					
	21	3E5154	1	BUSHING-STARTING MOTOR					
	22	3E5153	1	COVER-STARTING MOTOR					

M-METRIC PART

R-519983 EP

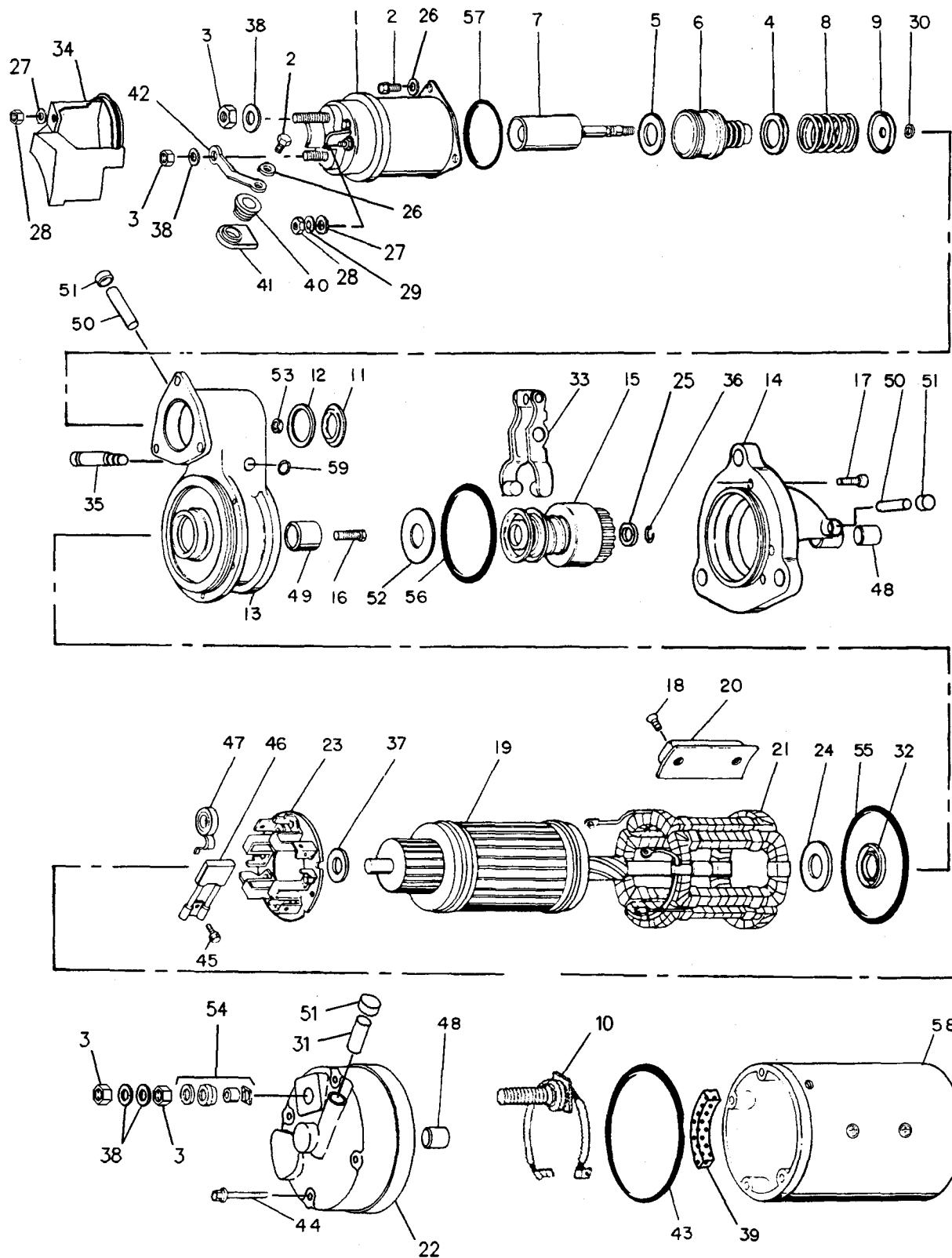
1453

3E5382 STARTING MOTOR GP-ELECTRIC

12 Volt

Part Of 7W8759 Starting Motor
An Attachment

ELECTRICAL AND STARTING SYSTEM



R-574759 EP

1453

6V4212 STARTING MOTOR GP-ELECTRIC
12 Volt

Part Of 1083857 Starting Motor
Field Replacement For 7X5987-Page 317.01
An Attachment

ELECTRICAL AND STARTING SYSTEM

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	9X4250	1	SOLENOID AS					THE FOLLOWING REPAIR
	2	5S7349	5	BOLT					KITS ARE AVAILABLE:
	3	6V8188	3	NUT			9X4270	1	KIT-BUSHING
	4	4M1828	1	RETAINER-SPRING					(INCL PARTS MARKED J)
J	5	369821	1	WASHER			9X4251	1	KIT-BRUSH
	6	7T3269	1	BOOT					(INCL PARTS MARKED L)
	7	7T3270	1	PLUNGER AS			7X1958	1	KIT-LEVER
	8	9M7609	1	SPRING					(INCL PARTS MARKED P)
	9	4M1827	1	RETAINER-SPRING			8T9884	1	KIT-INSULATOR
	10	1029863	1	TERMINAL AS					(INCL PARTS MARKED N)
	11	4M1831	1	PLUG-LEVER HOUSING					
JP	12	7L2894	1	GASKET					
	13	7X1952	1	HOUSING AS					
	14	7X1954	1	HOUSING AS-DRIVE					
	15	7X1953	1	DRIVE AS-MOTOR					
	16	369823	5	BOLT					
	17	7X3373	6	BOLT					
	18	3F0379	8	SCREW-POLE SHOE					
	19	9X4249	1	ARMATURE AS					
	20	7X1950	4	SHOE-POLE					
	21	9X4248	1	COIL-STARTING MOTOR					
	22	1067149	1	HOUSING AS					
	23	9X4252	1	PLATE AS-STARTING MOTOR					
JZ	24		1	SPACER					
JPZ	25		1	STOP					
	26	8T4205	5	WASHER-HARD					
	27	8T0328	2	WASHER-HARD					
	28	4B2049	2	NUT					
	29	8F1434	1	LOCKWASHER					
	30	2H3429	1	RING-RETAINING					
JZ	31		4	WICK					
JZ	32		1	SEAL					
PZ	33		1	LEVER AS					
	34	9X4824	1	COVER-STARTING MOTOR					
PZ	35		1	SHAFT AS					
JZ	36		1	RING					
JZ	37		1	WASHER					
	38	7X0562	3	WASHER-HARD					
	39	7T3454	1	INSULATOR					
	40	7T3451	1	INSULATOR-TERMINAL					
	41	8T8569	1	INSULATOR-TERMINAL					
	42	9X4271	1	CONNECTOR					
PLZ	43		1	O-RING					
LZ	44		4	SCREW AS					
JLZ	45		4	SCREW AS					
LZ	46		4	BRUSH					
LZ	47		4	SPRING					
JZ	48		2	BUSHING					
JZ	49		1	BUSHING					
JZ	50		2	PLUG					
JZ	51		3	CUP					
JZ	52		1	WASHER					
JPZ	53		1	NUT					
NZ	54		3	INSULATOR					
NZ			1	BUSHING					
PJZ	55		1	O-RING					
JPZ	56		1	O-RING					
JZ	57		1	O-RING					
Z	58		1	HOUSING					
PZ	59		1	RING					

Z-NOT SERVICED SEPARATELY

574760 EP

1453

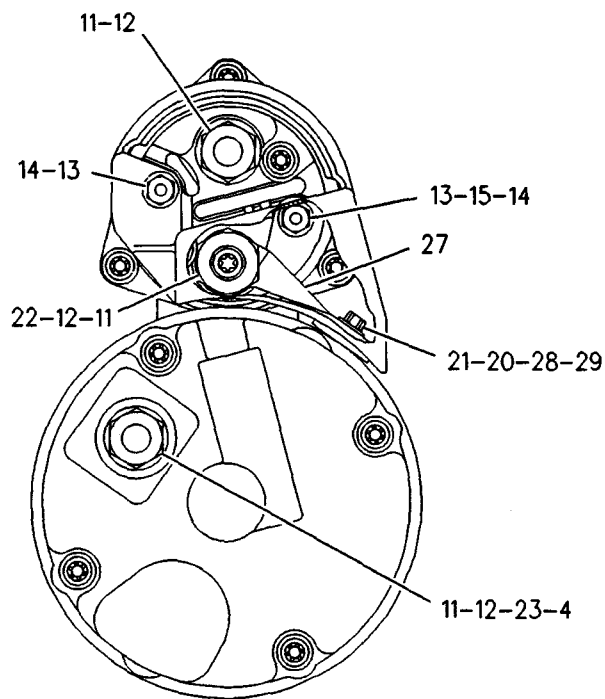
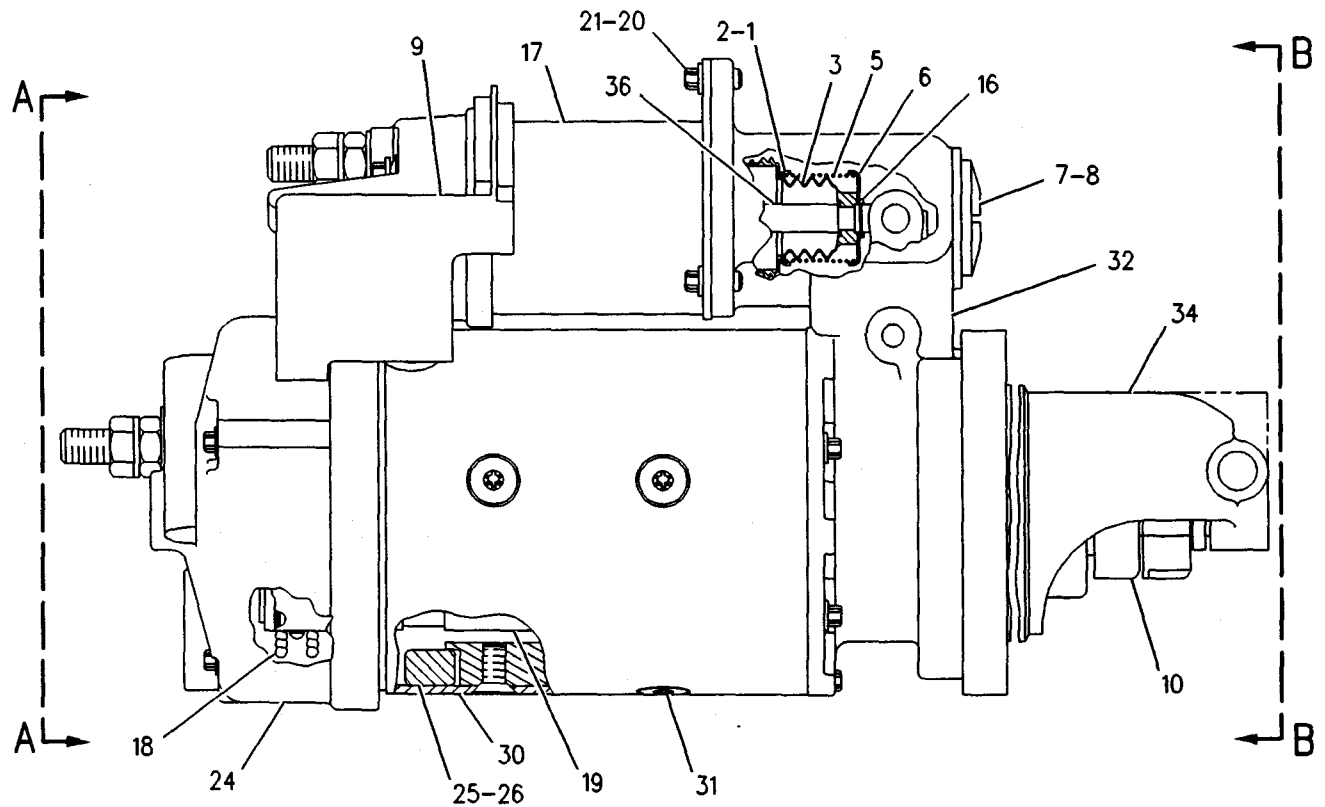
6V4212 STARTING MOTOR GP-ELECTRIC
12 Volt

Part Of 1083857 Starting Motor
Field Replacement For 7X5987-Page 317.01
An Attachment

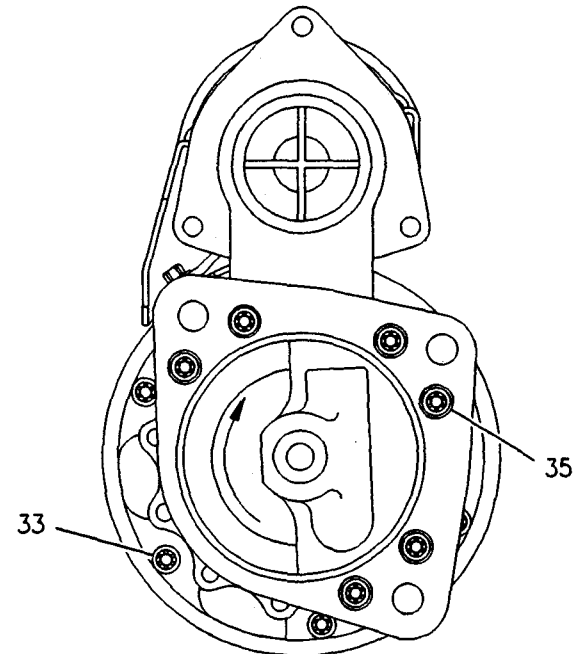
SEBP2462

311

ELECTRICAL AND STARTING SYSTEM



VIEW A-A



VIEW B-B

1453

6V5720 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 1047040 Starting Motor
An Attachment

F-568205 EP

ELECTRICAL AND STARTING SYSTEM

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	4M1828	1	RETAINER-SPRING					
	2	369821	1	WASHER					
	3	7T3269	1	BOOT					
	4	8T9884	1	KIT-INSULATOR					
	5	9M7609	1	SPRING					
	6	4M1827	1	RETAINER-SPRING					
	7	4M1831	1	PLUG-LEVER HOUSING					
	8	7L2894	1	GASKET					
	9	9X4824	1	COVER-STARTING MOTOR					
	10	7X1953	1	DRIVE AS-MOTOR					
	11	7X0562	4	WASHER-HARD					
	12	6V8188	4	NUT					
	13	4B2049	2	NUT					
	14	8T0328	2	WASHER-HARD					
	15	8F1434	1	LOCKWASHER					
	16	2H3429	1	RING-RETAINING					
	17	9X4823	1	SOLENOID AS					
	18	9X4821	1	PLATE AS					
	19	7X1951	1	ARMATURE AS					
	20	5S7349	4	BOLT					
	21	8T4205	4	WASHER-HARD					
	22	3E7853	1	TERMINAL-STARTING MOTOR					
	23	1029863	1	TERMINAL AS					
	24	1067149	1	HOUSING AS					
	25	9X4822	1	COIL AS					
	26	7T3454	1	INSULATOR					
	27	9X4271	1	CONNECTOR					
	28	8T8569	1	INSULATOR-TERMINAL					
	29	7T3451	1	INSULATOR-TERMINAL					
	30	7X1950	4	SHOE-POLE					
	31	3F0379	8	SCREW-POLE SHOE					
	32	7X1952	1	HOUSING AS					
	33	369823	5	BOLT					
	34	7X1954	1	HOUSING AS-DRIVE					
	35	7X3373	6	BOLT					
	36	7T3270	1	PLUNGER AS					
		7X1958	1	KIT-LEVER (INCL. LEVER, SEALS, & RETAINER)					
		9X4270	1	KIT-BUSHING (INCL. BUSHINGS, SEALS, O-RINGS, CUP, SPACER, STOP, PLUG)					
		9X4825	1	KIT-BRUSH (INCL. BRUSHES)					

568206 EP

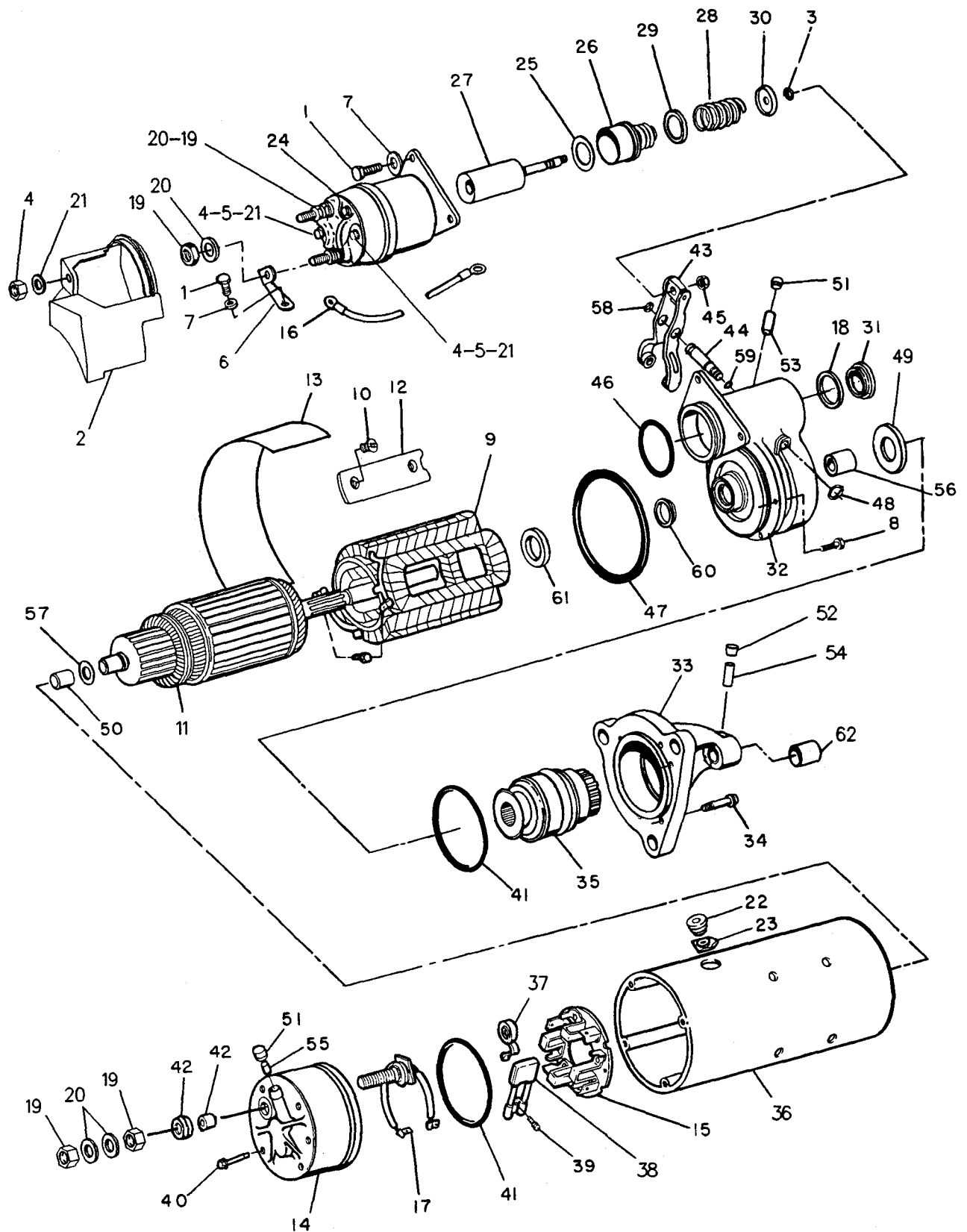
453

6V5720 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 1047040 Starting Motor
An Attachment

ELECTRICAL AND STARTING SYSTEM



R-574592 EP

1453

6V5821 STARTING MOTOR GP-ELECTRIC* R

24 Volt

Field Replacement For 9X4507-Page 320

ELECTRICAL AND STARTING SYSTEM

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
		1 557349	4	BOLT					THE FOLLOWING REPAIR
		2 9X4824	1	COVER-STARTING MOTOR					KITS ARE AVAILABLE:
		3 2H3429	2	RING-RETAINING			8C3655	1	KIT-BRUSH
		4 4B2049	3	NUT					(INCL. PARTS MARKED J)
		5 8F1434	2	LOCKWASHER			7T3267	1	KIT-BUSHING
		6 7T3271	1	CONNECTOR					(INCL. PARTS MARKED P)
		7 8T4205	4	WASHER-HARD			7T3268	1	KIT-LEVER
		8 369823	5	BOLT					(INCL. PARTS MARKED N)
		9 7T3277	1	COIL AS-FIELD			8T9884	1	KIT-INSULATOR
		10 3F0379	8	SCREW-POLE SHOE					(INCL. PARTS MARKED L)
		11 7T3276	1	ARMATURE AS					
		12 8H1141	4	SHOE-POLE					
		13 7T3454	1	INSULATOR					
		14 7T3279	1	HOUSING AS					
		15 7T3278	1	HOLDER AS-BRUSH					
		16 3T3422	1	WIRE AS					
		17 8T8566	1	TERMINAL AS					
		18 7L2894	1	GASKET					
NP		19 6V8188	4	NUT					
		20 7X0562	4	WASHER-HARD					
		21 8T0328	3	WASHER-HARD					
		22 7T3451	1	INSULATOR-TERMINAL					
		23 8T8569	1	INSULATOR-TERMINAL					
		24 9X9511	1	SOLENOID AS					
		25 369821	1	WASHER					
		26 7T3269	1	BOOT					
		27 7T3270	1	PLUNGER AS					
		28 9M7609	1	SPRING					
		29 4M1828	1	RETAINER-SPRING					
		30 4M1827	1	RETAINER-SPRING					
		31 4M1831	1	PLUG-LEVER HOUSING					
		32 7T3973	1	HOUSING AS-LEVER					
		33 9X9510	1	HOUSING AS					
		34 7X3373	6	BOLT					
		35 6N3827	1	DRIVE AS-MOTOR					
Z		36	1	HOUSING					
JZ		37	4	SPRING					
JZ		38	4	BRUSH					
JZ		39	4	SCREW					
JPZ		40	6	SCREW AS.					
JPZ		41	1	SEAL (O-RING)					
LZ		42	3	INSULATOR					
LZ			1	BUSHING					
NZ		43	1	LEVER AS.					
NA		44	1	LEVER AS.					
NPZ		45	1	NUT					
NPZ		46	1	SEAL (O-RING)					
PZ		47	1	SEAL (O-RING)					
NZ		48	1	RETAINER					
PZ		49	1	GASKET (WASHER)					
PZ		50	1	BUSHING					
PZ		51	2	CUP (PLUG)					
PZ		52 9F2247	1	PLUG					
PZ		53	1	PLUG					
PZ		54 9F2547	1	WICK					
PZ		55	1	PLUG					
PZ		56	1	BUSHING					
PZ		57	1	WASHER					
NZ		58	1	SEAL (O-RING)					
NZ		59	1	SEAL (O-RING)					
PZ		60	1	RETAINER(SEAL)					
PZ		61	1	SPACER					
PZ		62	1	BUSHING					

A-NOT PART OF THIS GROUP
Z-NOT SERVICED SEPARATELY

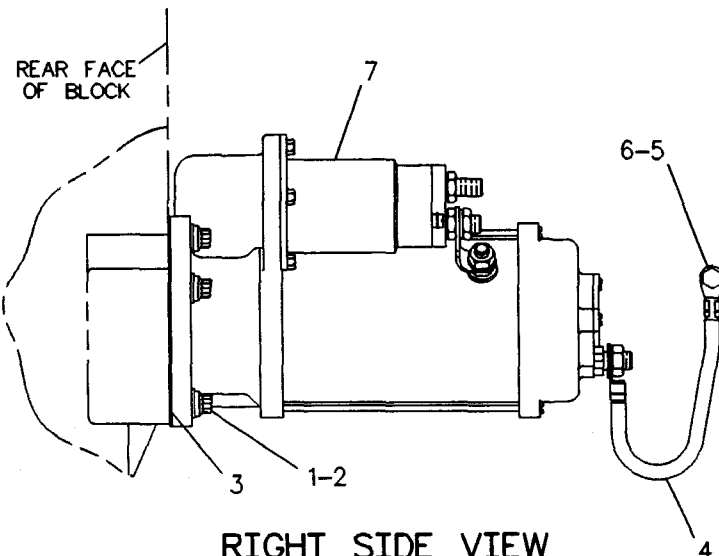
574593 EP

1453

6V5821 STARTING MOTOR GP-ELECTRIC*R
24 Volt

Field Replacement For 9X4507-Page 320

ELECTRICAL AND STARTING SYSTEM

					NOTE	REF NO	PART NUMBER	QTY	PART NAME
 RIGHT SIDE VIEW					M	1	1087808	3	BOLT
						2	6V5839	3	WASHER
						3	3K3257	1	GASKET
					B	4	9Y8241	1	WIRE AS
					M	5	8T4200	1	BOLT
						6	8T4224	1	WASHER-HARD
					YR	7	8C4774	1	STARTING MOTOR GP-ELECTRIC
					B-USE AS REQUIRED M-METRIC PART R-REMFG PART MAY BE AVAILABLE Y-SEPARATE ILLUSTRATION				

F-580328 EP

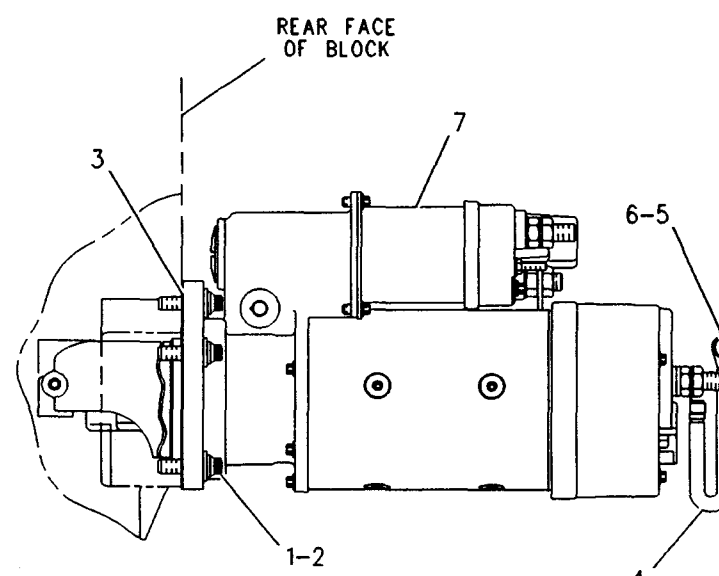
1453

7C0747 STARTING MOTOR GP-ELECTRIC

24 Volt

8C4774-Page 319

An Attachment

					NOTE	REF NO	PART NUMBER	QTY	PART NAME
 RIGHT SIDE VIEW					M	1	1087808	3	BOLT (M10X1.5X35MM)
						2	6V5839	3	WASHER (2.5MM THK)
						3	3K3257	1	GASKET
						4	9Y8241	1	WIRE AS
					M	5	8T4200	1	BOLT (M8X1.25X16MM)
						6	8T4224	1	WASHER-HARD (2MM THK)
					Y	7	9X4507	1	STARTING MOTOR GP-ELECTRIC
					M-METRIC PART Y-SEPARATE ILLUSTRATION				

F-607499 CP

1453

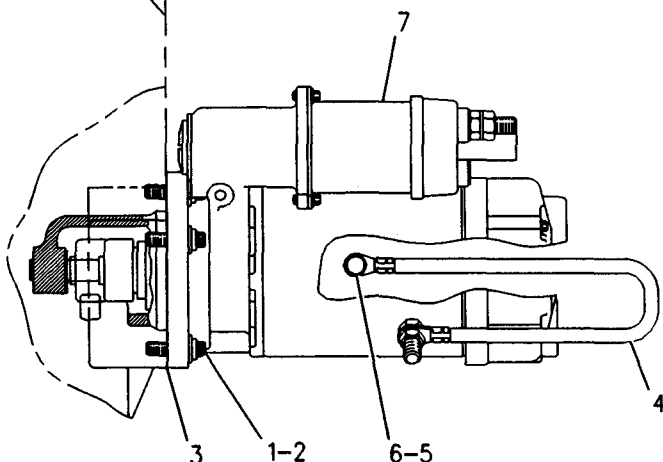
7E5979 STARTING MOTOR GP-ELECTRIC

9X4507-Page 320

An Attachment

ELECTRICAL AND STARTING SYSTEM

REAR FACE OF
CYL BLOCK



RIGHT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	1087808	3	BOLT
	2	6V5839	3	WASHER (2.5MM THK)
	3	3K3257	1	GASKET
	4	9Y8241	1	WIRE AS
M	5	8T4200	1	BOLT (M8X1.25X16MM)
	6	8T4224	1	WASHER-HARD (2MM THK)
Y	7	7X5987	1	STARTING MOTOR GP-ELECTRIC

M-METRIC PART
Y-SEPARATE ILLUSTRATION

F-601616 CP

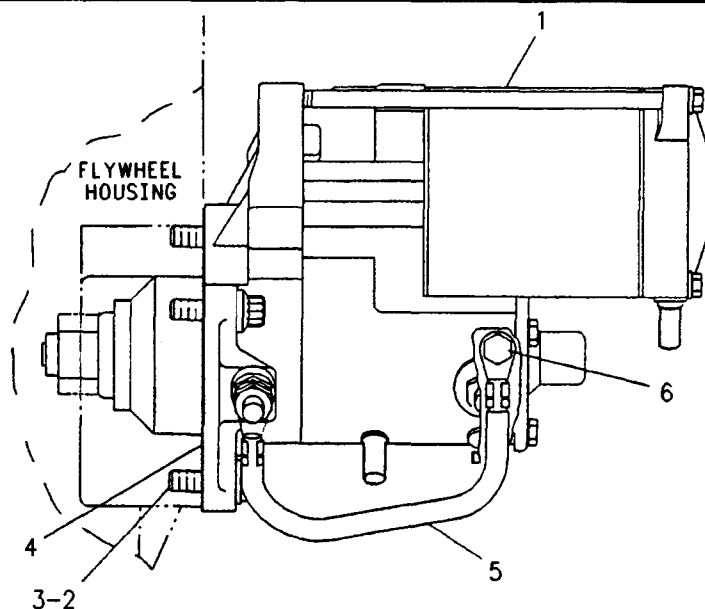
453

7E3561 STARTING MOTOR GP-ELECTRIC

12 Volt

7X5987-Page 317.01

An Attachment



RIGHT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME
CY	1	3E5382	1	STARTING MOTOR GP-ELECTRIC
M	2	1087808	3	BOLT (M10X1.5X35MM)
	3	6V5839	3	WASHER (2.5MM THK)
	4	3K3257	1	GASKET
	5	9Y8241	1	WIRE AS
M	6	8T4200	1	BOLT (M8X1.25X16MM)
		8T4224	1	WASHER-HARD (2MM THK)

C-CHANGE FROM PREVIOUS TYPE
M-METRIC PART
Y-SEPARATE ILLUSTRATION

R-606360 CP

453

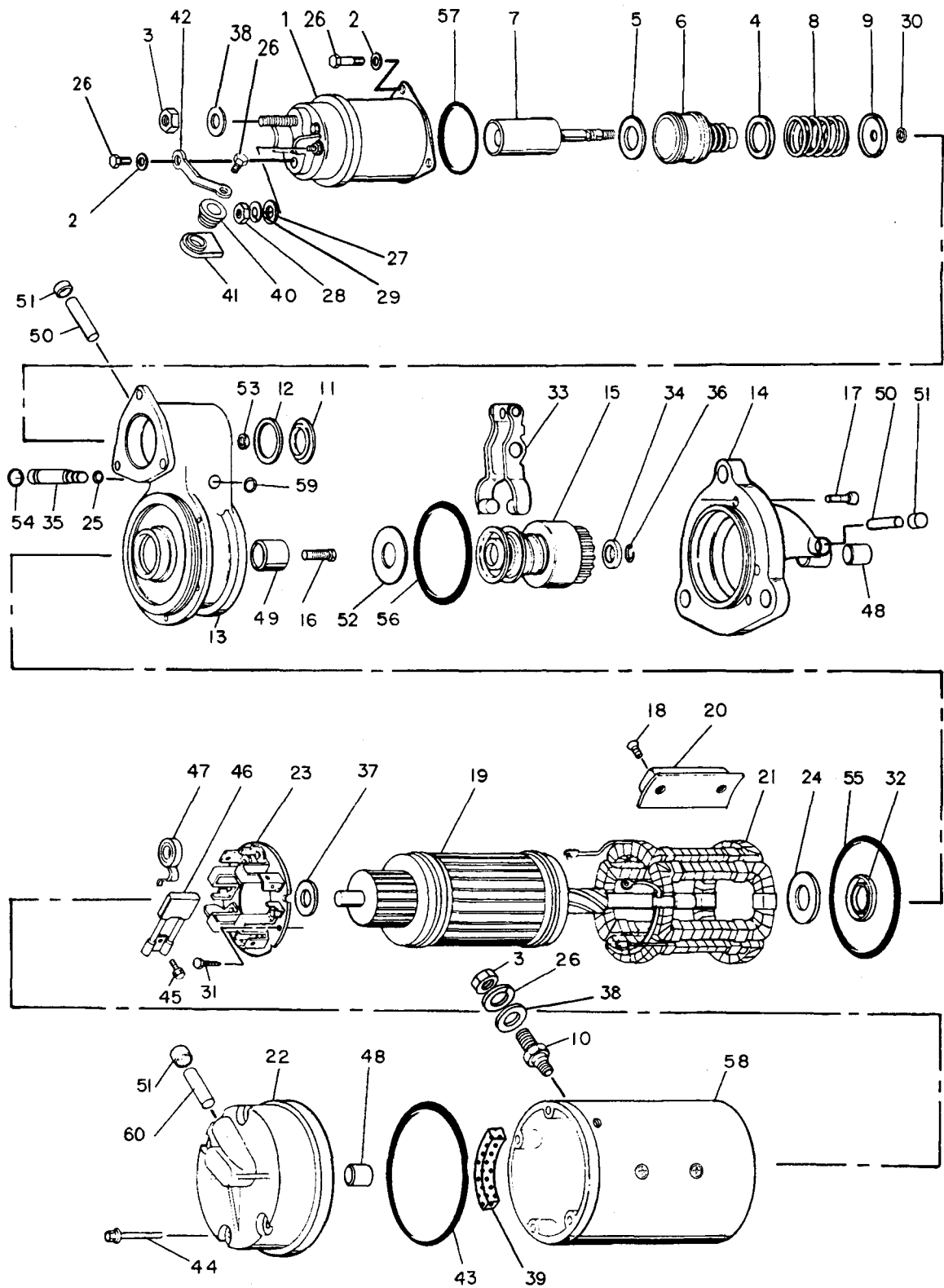
7W8759 STARTING MOTOR GP-ELECTRIC

12 Volt

3E5382-Page 309

An Attachment

ELECTRICAL AND STARTING SYSTEM



R-575862 EP

1453

7X5987 STARTING MOTOR GP-ELECTRIC

12 Volt

Part Of 7E3561 Starting Motor
Field Replacement Order 6V4212-Page 310
An Attachment

317.01

SEBP2462

ELECTRICAL AND STARTING SYSTEM

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	9X4250	1	SOLENOID AS					THE FOLLOWING REPAIR KITS ARE AVAILABLE: 1 KIT-BUSHING (INCL PARTS MARKED J) 1 KIT-BRUSH (INCL PARTS MARKED L) 1 KIT-LEVER (INCL PARTS MARKED P)
	2	8T4205	5	WASHER-HARD			9X4270	1	
	3	6V8188	2	NUT					
	4	4M1828	1	RETAINER-SPRING			9X4251	1	
	5	369821	1	WASHER					
	6	7T3269	1	BOOT			7X1958	1	
	7	7T3270	1	PLUNGER AS					
	8	9M7609	1	SPRING					
	9	4M1827	1	RETAINER-SPRING					
	10	8C5639	1	TERMINAL					
	11	4M1831	1	PLUG-LEVER HOUSING					
JZ	12	7L2894	1	GASKET					
	13	7X1952	1	HOUSING AS					
	14	7X1954	1	HOUSING AS-DRIVE					
	15	7X1953	1	DRIVE AS-MOTOR					
	16	369823	5	BOLT					
	17	7X3373	6	BOLT					
	18	3F0379	7	SCREW-POLE SHOE					
	19	9X4249	1	ARMATURE AS					
	20	7X1950	4	SHOE-POLE					
	21	9X4248	1	COIL-STARTING MOTOR					
	22	9X4253	1	HOUSING AS					
JZ	23	9X4252	1	PLATE AS-STARTING MOTOR					
PZ	24		1	SPACER					
	25		1	SEAL					
	26	5S7349	5	BOLT					
	27	8T0328	1	WASHER-HARD					
	28	4B2049	1	NUT					
	29	8F1434	1	LOCKWASHER					
	30	2H3429	1	RING-RETAINING					
	31	9S2542	2	SCREW-TAPPING					
JZ	32		1	RETAINER-SEAL					
PZ	33		1	LEVER AS					
JPZ	34		1	STOP					
PZ	35		1	SHAFT AS					
JZ	36		1	RING					
JZ	37		1	WASHER					
	38	7X0562	2	WASHER-HARD					
	39	7T3454	1	INSULATOR					
	40	7T3451	1	INSULATOR-TERMINAL					
	41	8T8569	1	INSULATOR-TERMINAL					
	42	9X4271	1	CONNECTOR					
PLZ	43		1	O-RING					
LZ	44		4	SCREW					
JLZ	45		4	SCREW AS					
LZ	46		4	BRUSH					
LZ	47		4	SPRING					
JZ	48		2	BUSHING					
JZ	49		1	BUSHING					
JZ	50		2	PLUG					
JZ	51		3	CUP					
JZ	52		1	WASHER					
PJZ	53		1	NUT					
PZ	54		1	SEAL					
PJZ	55		1	O-RING					
JPZ	56		1	O-RING					
JZ	57		1	O-RING					
Z	58		1	HOUSING					
PZ	59		1	RETAINER					
JZ	60		1	WICK					

Z-NOT SERVICED SEPARATELY

575863 EP

1453

7X5987 STARTING MOTOR GP-ELECTRIC

12 Volt

Part Of 7E3561 Starting Motor

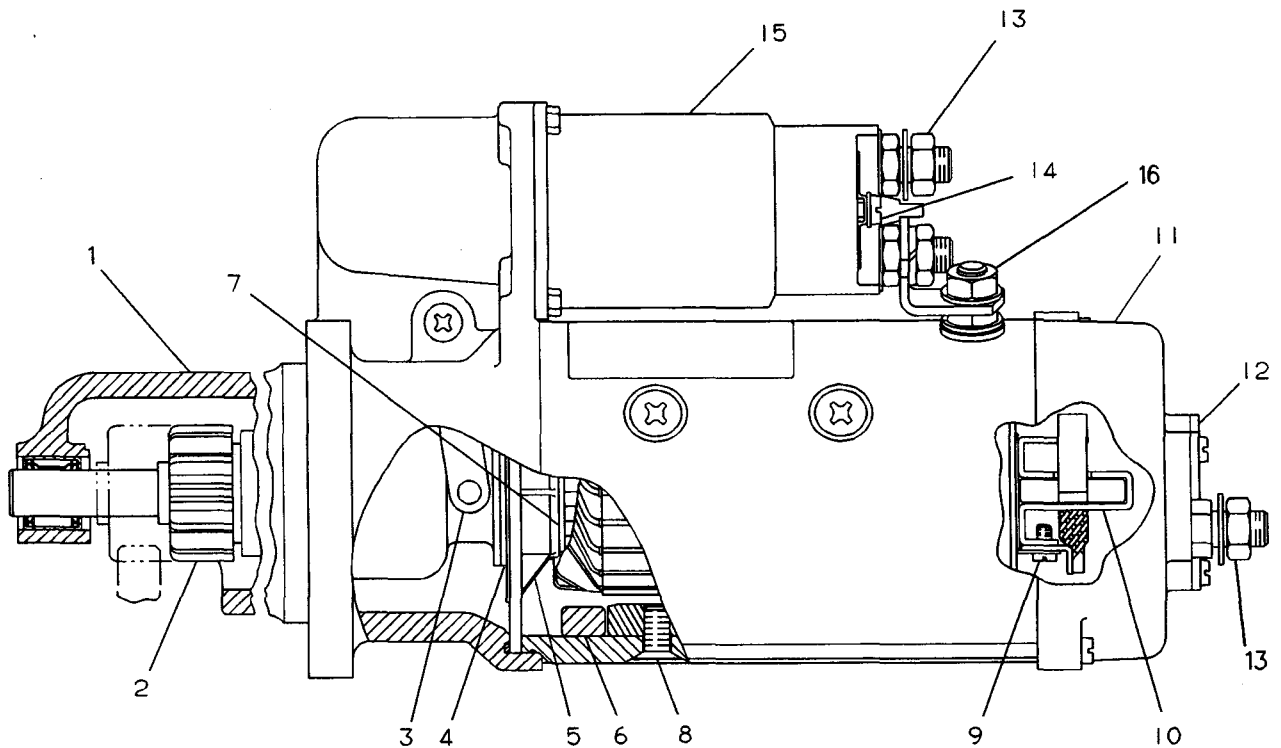
Field Replacement Order 6V4212-Page 310

An Attachment

SEBP2462

317.02

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	9X0300	1	HOUSING AS					THE FOLLOWING REPAIR KITS ARE AVAILABLE:
	2	9X0294	1	DRIVE AS-STARTING MOTOR			9X0299	1	KIT-BRUSH (INCL BRUSH ASSEMBLIES, SCREWS & SPRINGS)
	3	9X0298	1	LEVER AS-STARTER			9X3412	1	KIT-ARMATURE (INCL ARMATURE AS, SHIMS & DISC)
	4	9X0293	1	WASHER			9X3408	1	KIT-BEARING (INCL BEARINGS)
	5	9X0292	1	FLANGE-STARTER			9X3409	1	KIT-STARTING MOTOR SEAL (INCL O-RINGS & SEAL)
	6	9X0288	1	COIL-STARTING MOTOR			9X3411	1	KIT-HARDWARE (INCL SCREWS, WASHERS, NUT & SEAL)
	7	9X0291	1	WASHER			9X3407	1	KIT-TERMINAL STARTER (INCL INSULATOR, WASHERS, NUTS, STUD, BUSHING, SCREWS, SEAL, LOCKWASHER, BAR & PIN)
M	8	9X0289	8	SCREW					
M	9	8T0258	4	SCREW					
	10	9X0290	1	HOLDER AS					
	11	9X0296	1	HOUSING AS					
M	12	9X0297	1	PLATE					
	13	8T4244	3	NUT					
M	14	7X0562	3	WASHER-HARD					
		9X2036	1	SCREW-PAN HEAD					
		8F1434	1	LOCKWASHER					
M	15	9X0301	1	SOLENOID AS					
	16	8T4133	1	NUT					
		8T4121	1	WASHER					

M-METRIC PART

R-560924 EP

1453

8C4773 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 8C4774 Starting Motor
An Attachment

ELECTRICAL AND STARTING SYSTEM

	PAGE
1 3E1944 STARTING MOTOR GP-ELECTRIC.....	307
1 8C4773 STARTING MOTOR GP-ELECTRIC.....	318

561196 P

1453

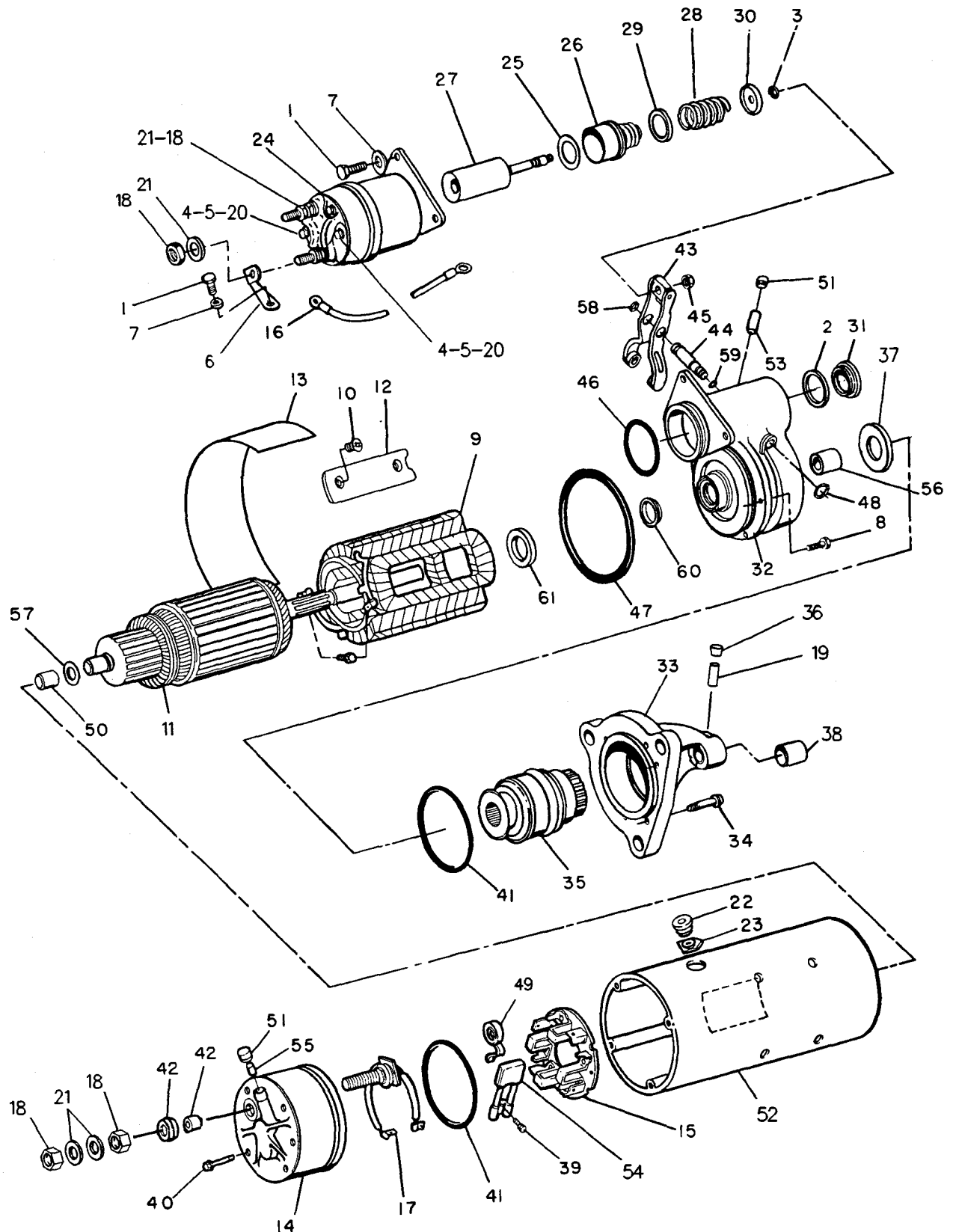
8C4774 STARTING MOTOR GP-ELECTRIC*R

24 Volt

Part Of 7C0747 Starting Motor

Field Replacement Order 1068558-Page 302, An Attachment

ELECTRICAL AND STARTING SYSTEM



R-574104 EP

1453

9X4507 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 7E5979 Starting Motor

Field Replacement Order 6V5821-Page 314, An Attachment

ELECTRICAL AND STARTING SYSTEM

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	5S7349	4	BOLT (1/4-20X.5IN)					THE FOLLOWING REPAIR
	2	7L2894	1	GASKET					KITS ARE AVAILABLE:
	3	2H3429	1	RING-RETAINING			8C3655	1	KIT-BRUSH
	4	4B2049	2	NUT					(INCL. PARTS MARKED J)
	5	8F1434	2	LOCKWASHER (5MM ID)			7T3267	1	KIT-BUSHING
	6	7T3271	1	CONNECTOR			7T3268	1	KIT-LEVER
	7	8T4205	4	WASHER-HARD (2MM THK)					(INCL. PARTS MARKED N)
	8	369823	5	BOLT			8T9884	1	KIT-INSULATOR
	9	7T3277	1	COIL AS-FIELD					(INCL. PARTS MARKED L)
	10	3F0379	8	SCREW-POLE SHOE					
	11	7T3276	1	ARMATURE AS					
	12	8H1141	4	SHOE-POLE					
	13	7T3454	1	INSULATOR					
	14	7T3279	1	HOUSING AS					
	15	7T3278	1	HOLDER AS-BRUSH					
	16	3T3422	1	WIRE AS					
	17	8T8566	1	TERMINAL AS					
	18	6V8188	4	NUT (1/2-13 THD)					
	19	9F2547	1	WICK					
	20	8T0328	2	WASHER-HARD (1MM THK)					
	21	7X0562	4	WASHER-HARD					
	22	7T3451	1	INSULATOR-TERMINAL					
	23	8T8569	1	INSULATOR-TERMINAL					
	24	9X9511	1	SOLENOID AS					
	25	369821	1	WASHER					
	26	7T3269	1	BOOT					
	27	7T3270	1	PLUNGER AS					
	28	9M7609	1	SPRING					
	29	4M1828	1	RETAINER-SPRING					
	30	4M1827	1	RETAINER-SPRING					
	31	4M1831	1	PLUG-LEVER HOUSING					
	32	1059702	1	HOUSING AS (LEVER)					
	33	9X9510	1	HOUSING AS					
	34	7X3373	6	BOLT (5/16-18X.88IN)					
	35	6N3827	1	DRIVE AS-MOTOR					
	36	9F2247	1	PLUG					
Z	37		1	GASKET (WASHER)					
Z	38		1	BUSHING					
JZ	39		4	SCREW					
JZ	40		6	SCREW AS.					
JZ	41		1	SEAL (O-RING)					
LZ	42		3	INSULATOR					
LZ			1	BUSHING					
NZ	43		1	LEVER AS.					
NZ	44		1	LEVER AS.					
NZ	45		1	NUT					
NZ	46		1	SEAL (O-RING)					
PZ	47		1	SEAL (O-RING)					
NZ	48		1	RETAINER					
JZ	49		1	SPRING					
Z	50		1	BUSHING					
Z	51		2	CUP (PLUG)					
Z	52		1	HOUSING					
Z	53		1	PLUG					
JZ	54		4	BRUSH					
Z	55		1	PLUG					
Z	56		1	BUSHING					
Z	57		1	WASHER					
NZ	58		1	SEAL (O-RING)					
NZ	59		1	SEAL (O-RING)					
Z	60		1	RETAINER (SEAL)					
Z	61		1	SPACER					

Z-NOT SERVICED SEPARATELY

607360 CP

1453

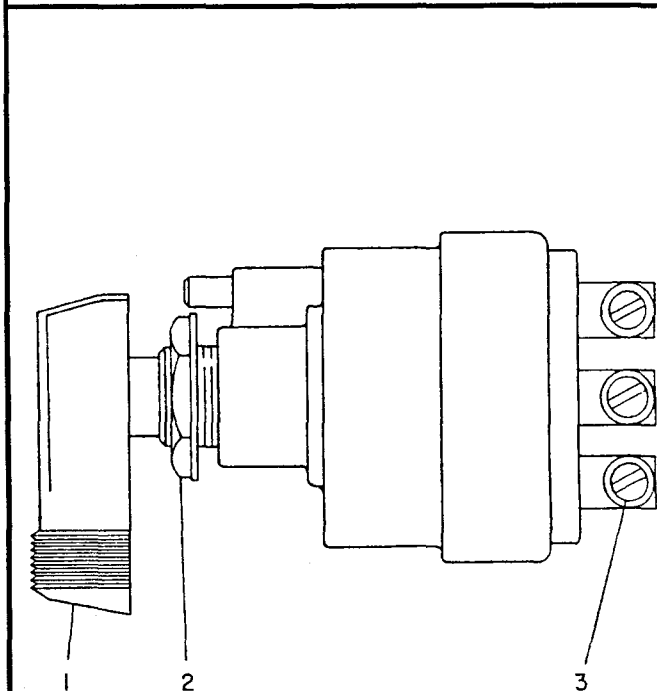
9X4507 STARTING MOTOR GP-ELECTRIC

24 Volt

Part Of 7E5979 Starting Motor

Field Replacement Order 6V5821-Page 314, An Attachment

ELECTRICAL AND STARTING SYSTEM

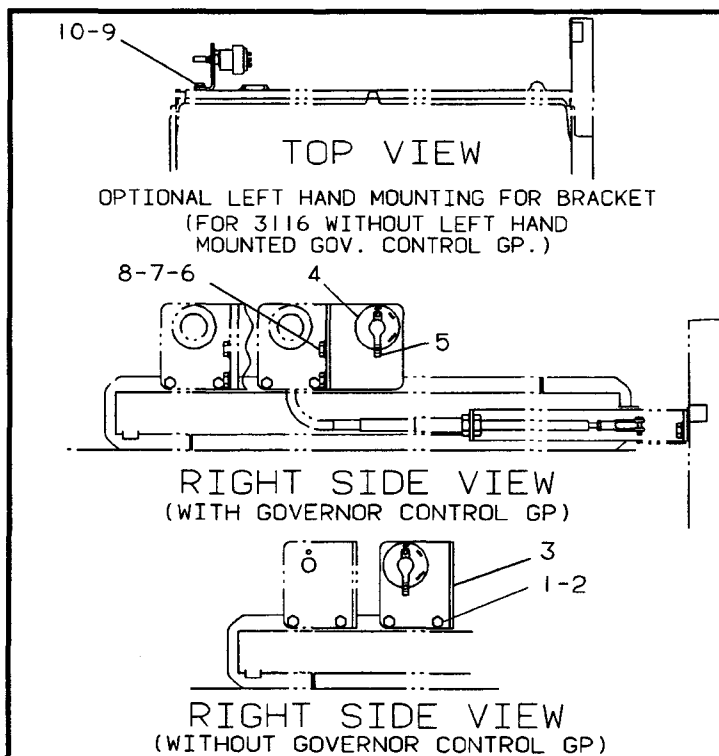


NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	8F3437	1	LEVER-SWITCH
		5L7200	1	SCREW
		3B4501	1	LOCKWASHER
	2	8C6808	1	NUT
		7M0327	1	WASHER-THRUST
	3	6V8364	4	SCREW-MACHINE
		8F1434	4	LOCKWASHER

B-498887 EP

1416

9W1077 SWITCH AS-START
Part Of 9Y7003 & 8N5881 Switch
An Attachment



NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	8T4224	2	WASHER-HARD
	2	8T4197	2	BOLT
	3	9Y7004	1	BRACKET
	4	8J4785	1	PLATE-INSTRUCTION
	5	9W1077	1	SWITCH AS-START
	6	8T4133	2	NUT
	7	8T4121	4	WASHER
	8	8T4195	2	BOLT
	9	8T4121	2	WASHER
	10	8T4137	2	BOLT

M-METRIC PART
Y-SEPARATE ILLUSTRATION

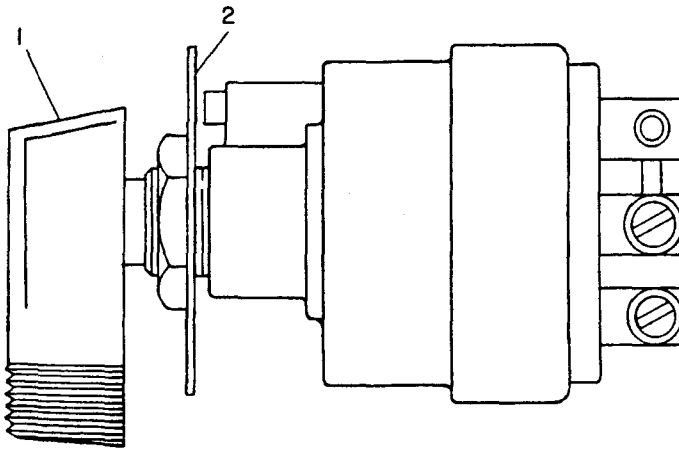
C-501448 EP

1416

9Y7003 SWITCH GP
9W1077-Page 323

Start/Stop - To Access From Right Side Or Left Side Of Engine
An Attachment

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME
YC	1	9W1077	1	SWITCH AS-START
C	2	8J4785	1	PLATE-INSTRUCTION

C-CHANGE FROM PREVIOUS TYPE
Y-SEPARATE ILLUSTRATION

B-456728 EP

1416

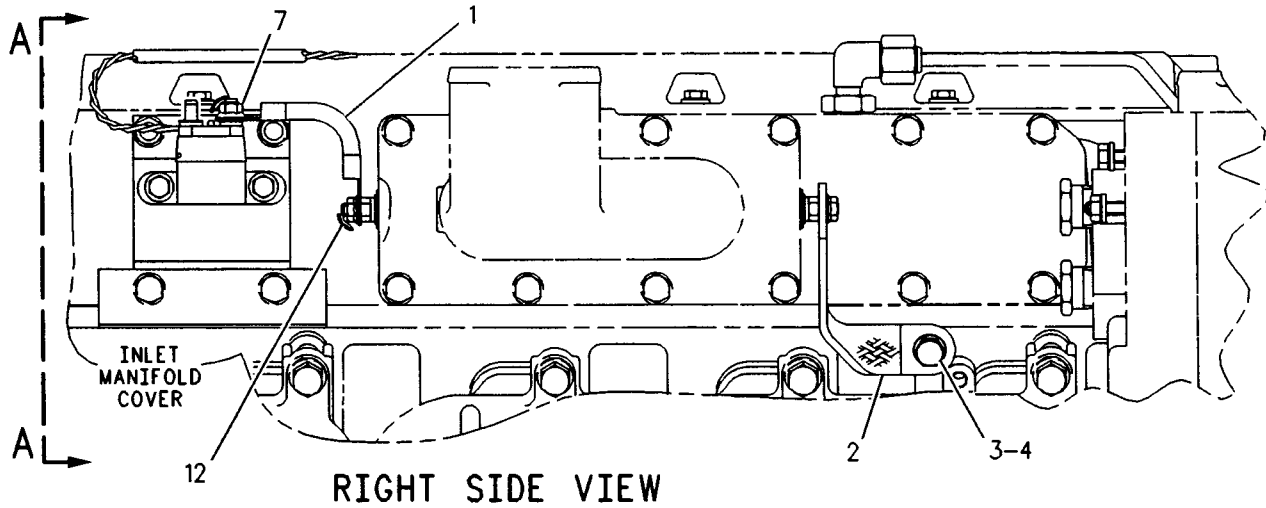
8N5881 SWITCH GP-HEAT START

9W1077-Page 323

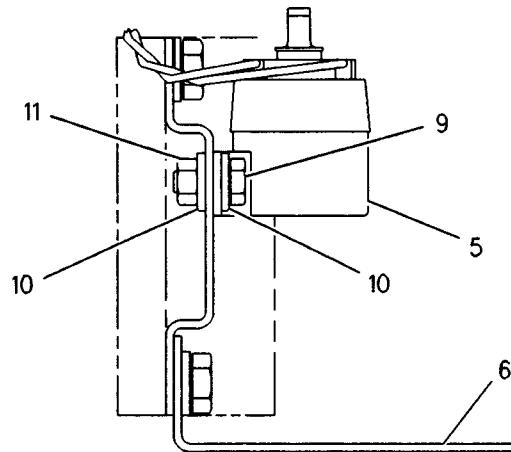
For Use With Instrument Panel

Not For Use With Automatic Start-Stop, An Attachment

ELECTRICAL AND STARTING SYSTEM



RIGHT SIDE VIEW



VIEW A-A

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	4P1826	1	WIRE AS					
	2	7E5714	1	STRAP-GROUNDING					
	3	8T4200	1	BOLT (M8X1.25X16MM)					
	4	8T4224	1	WASHER-HARD (2MM THK)					
	5	3E7276	1	SWITCH AS-MAGNETIC					
	6	7E8828	1	SHIELD-HEAT					
M	7	1126646	1	LOCKNUT					
	8	7E4512	1	BRACKET					
M	9	8T4970	2	BOLT (M6X1.0X14MM)					
	10	8T4205	4	WASHER-HARD (2MM THK)					
M	11	5C2890	2	NUT (M6X1.00 THD)					
	12	39835	2	PROTECTOR					

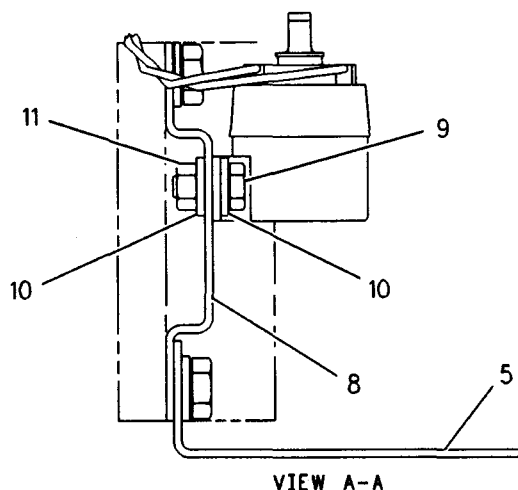
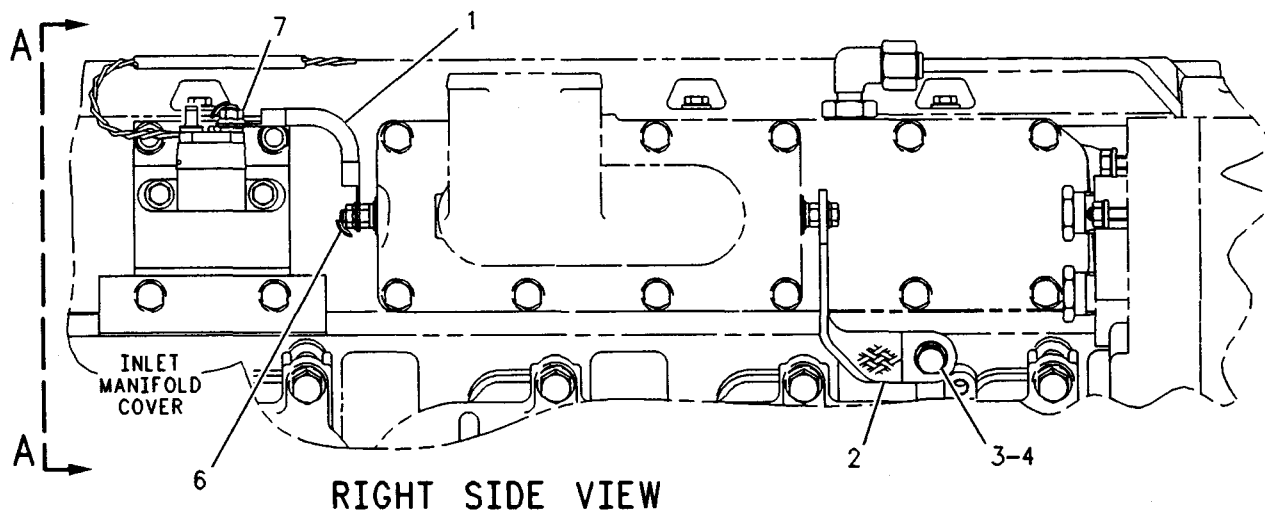
M-METRIC PART

F-607581 CP

1408

1281674 WIRING GP

ELECTRICAL AND STARTING SYSTEM



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	4P1826	1	WIRE AS					
	2	7E5714	1	STRAP-GROUNDING					
M	3	8T4200	1	BOLT (M8X1.25X16MM)					
	4	8T4224	1	WASHER-HARD (2MM THK)					
	5	7E8828	1	SHIELD-HEAT					
	6	39835	2	PROTECTOR					
M	7	1126646	1	LOCKNUT					
	8	7E4512	1	BRACKET					
M	9	8T4970	2	BOLT (M6X1.0X14MM)					
	10	8T4205	4	WASHER-HARD (2MM THK)					
M	11	5C2890	2	NUT (M6X1.00 THD)					

M-METRIC PART

F-607894 CP

1408

1281675 WIRING GP
An Attachment

ELECTRICAL AND STARTING SYSTEM

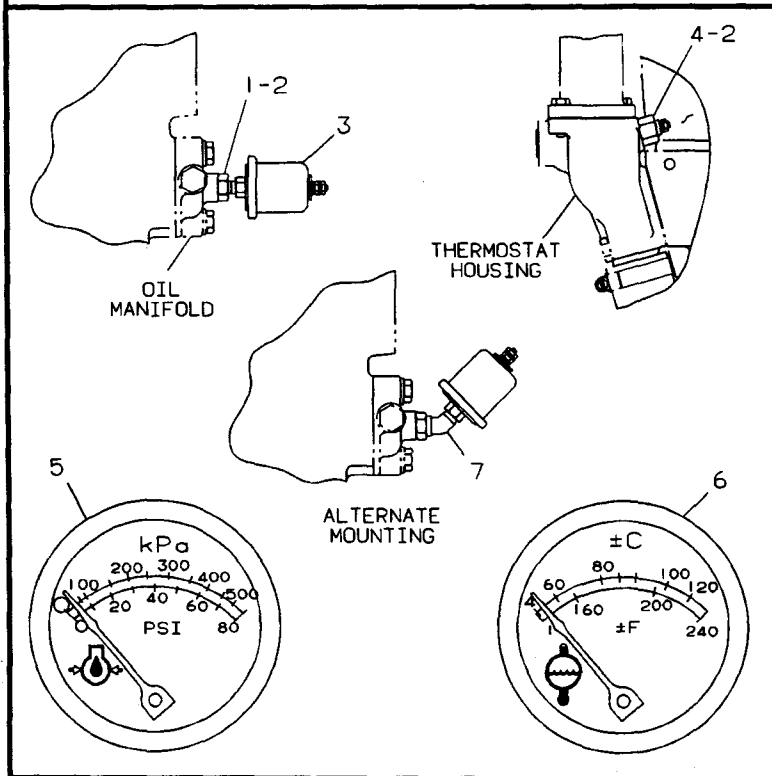
	PAGE
1 9Y7782 FASTENER GP-WIRING HARNESS.....	282
1 9Y7521 HARNESS GP-WIRING.....	283

463843 P

1408

9Y7780 WIRING GP
An Attachment

OPERATOR STATION



NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	3Y2888	1	CONNECTOR
	2	3J1907	2	SEAL-O-RING
	3	302010	1	SENDER AS (PRESS)
	4	4W9972	1	SENDER-TEMPERATURE (TEMP)
	5	4W6353	1	INDICATOR (OIL PRESS)
	6	4W2622	1	INDICATOR (WATER TEMP)
	7	8L5008	1	ELBOW-PIPE

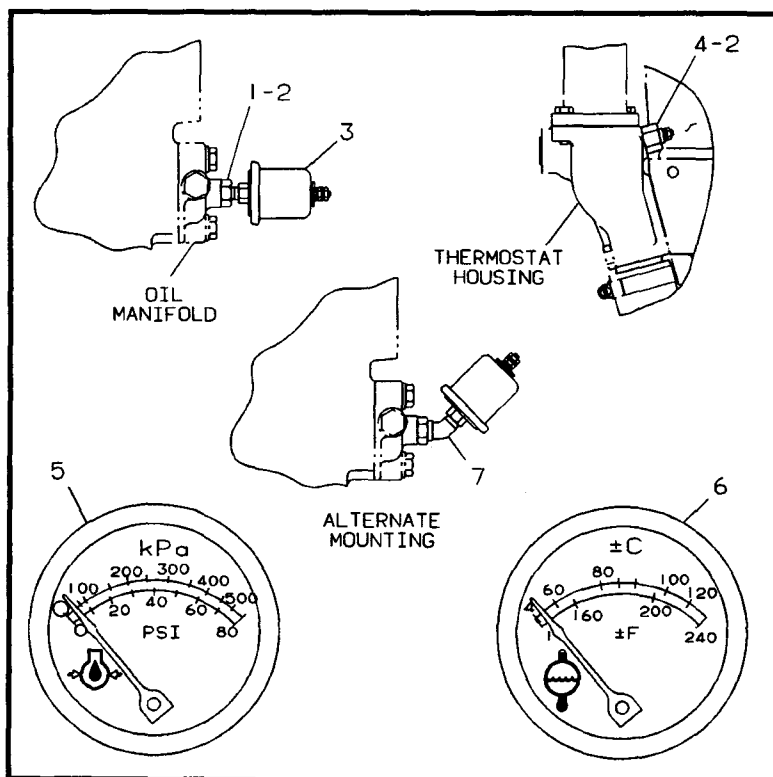
C-488781 EP

7455

9Y6596 GAUGE GP-ENGINE

12 Volt

Oil Pressure & Water Temperature
An Attachment



NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	3Y2888	1	CONNECTOR
	2	3J1907	2	SEAL-O-RING
	3	302010	1	SENDER AS (PRESS)
	4	8N3844	1	SENDER-TEMPERATURE (TEMP)
	5	4W2065	1	INDICATOR-ENGINE OIL PRESSURE (OIL PRESS)
	6	4W0483	1	INDICATOR-COOLANT TEMPERATURE (WATER TEMP)
	7	8L5008	1	ELBOW-PIPE

C-488794 EP

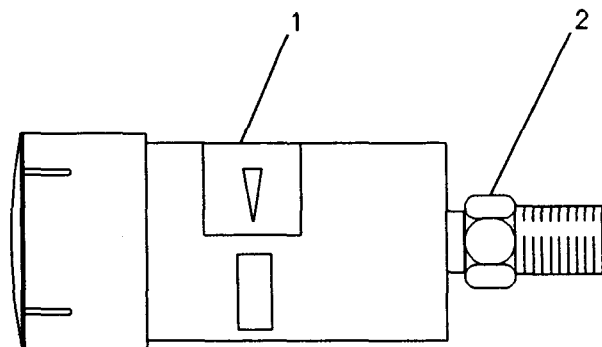
7455

9Y6597 GAUGE GP-ENGINE

24 Volt

Oil Pressure & Water Temperature
An Attachment

OPERATOR STATION

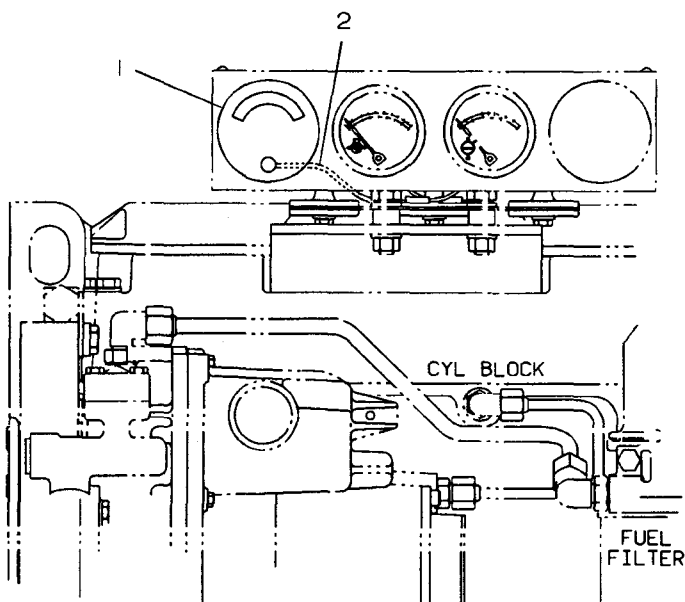


NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	1W0613	1	INDICATOR-AIR FILTER SERVICE
	2	5L3233	1	FITTING

F-519355 EP

7452

7E5170 INDICATOR GP-FILTER CHANGE
For Use With 1.1 L Engine
An Attachment



LEFT SIDE VIEW

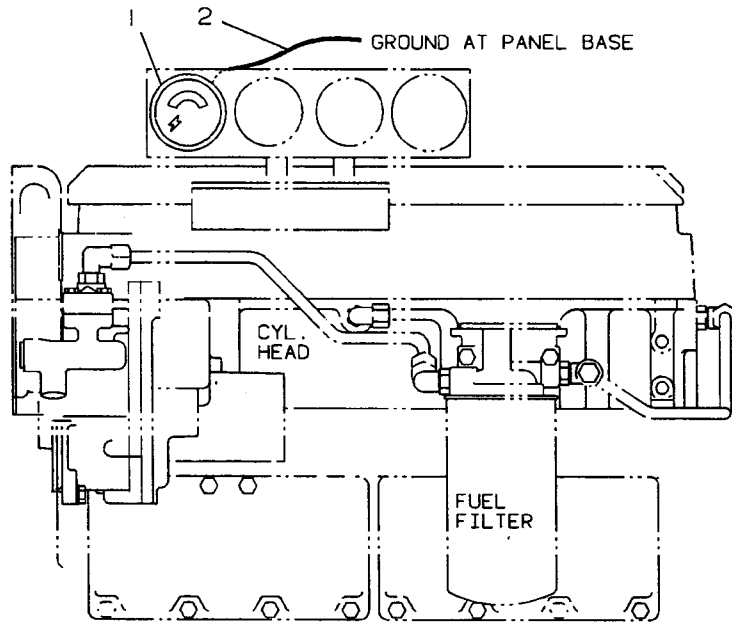
NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	1W6379	1	INDICATOR AS-VOLT
		6V8368	2	NUT (6-32 THD)
		4B5324	2	WASHER (1.2MM THK)
		3L8187	2	LOCKWASHER (.48MM THK)
		6V8377	2	NUT BRASS (8-32 THD)
		9B7233	2	LOCKWASHER (.52MM THK)
	2	9Y5721	1	WIRE AS

C-482503 EP

7468

9Y5732 METER GP-VOLT
12 Volt
For Use With Instrument Panel

OPERATOR STATION



LEFT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME
Y	1	1051457	1	INDICATOR AS-VOLT
	2	9Y5721	1	WIRE AS

Y-SEPARATE ILLUSTRATION

C-570910 EP

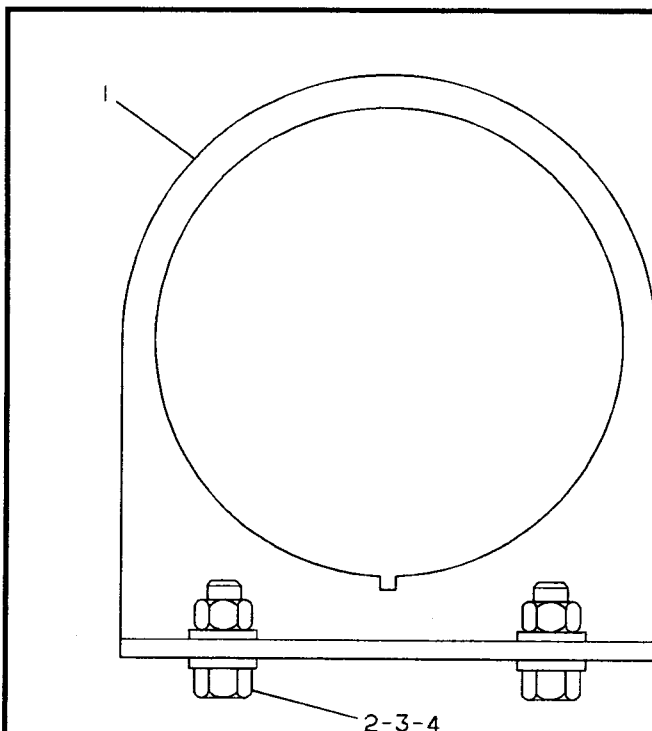
7468

9Y5733 METER GP-VOLT

24 Volt

1051457-Page 285

For Use With Instrument Panel, An Attachment



NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	7L4536	1	BRACKET-TACHOMETER
	2	5C9553	2	BOLT
M	3	8T4205	2	WASHER-HARD
	4	5C2890	2	NUT

M-METRIC PART

C-462563 EP

7462

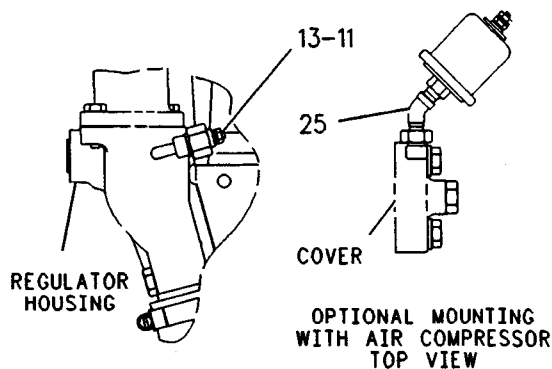
9Y8184 MOUNTING GP-TACHOMETER

Engine Mounted

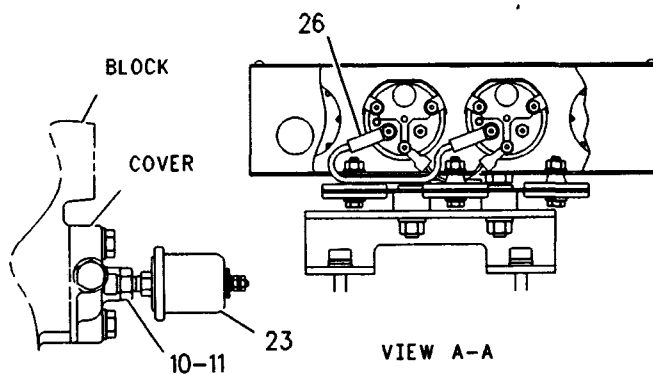
For Use With 9Y5475 Panel Gp-Instrument

An Attachment

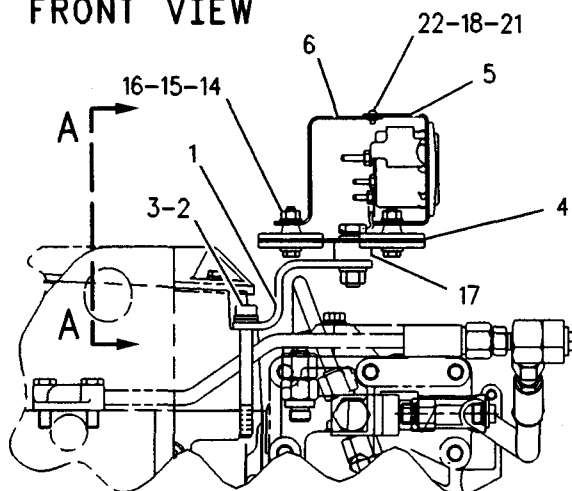
OPERATOR STATION



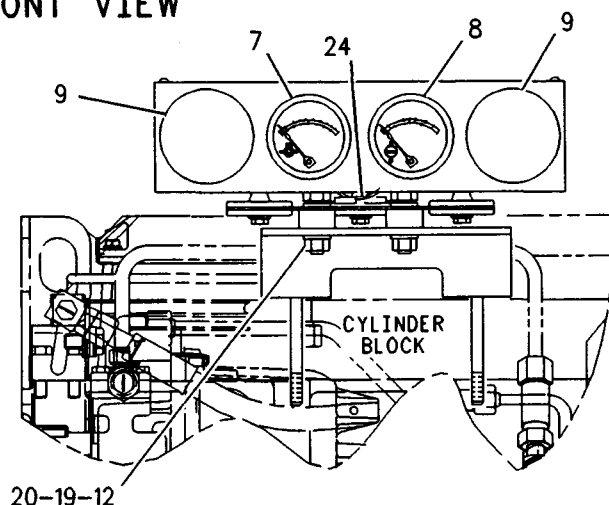
FRONT VIEW



FRONT VIEW



FRONT VIEW



LEFT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	1242372	1	BRACKET-PANEL	B	23	302010	1	SENDER AS (OIL PRESS)
	2	6V5196	2	BOLT-SOCKET HEAD			4B4274	1	WASHER (1.2MM THK)
	3	9M1974	4	WASHER-HARD (2MM THK)			6V8378	1	NUT (10-32 THD)
	4	2N5848	1	BASE AS			8F1434	1	LOCKWASHER (5MM ID)
	5	2N0816	1	PANEL-INSTRUMENT		24	9Y5721	2	WIRE AS
	6	9Y5807	1	COVER-PANEL		25	8L5008	1	ELBOW-PIPE
	7	4W6353	1	INDICATOR (OIL PRESS)		26	6I2017	1	WIRE AS
		6I2017	1	WIRE AS					
	8	4W2622	1	INDICATOR (WATER TEMP)					
	9	1L6561	2	PLUG					
	10	3Y2888	1	CONNECTOR					
	11	3J1907	2	SEAL-O-RING (11.89MM ID)					
	12	8T4121	4	WASHER (21MM OD)					
M	13	4W9972	1	SENDER-TEMPERATURE (WATER TEMP)					
	14	8T4205	6	WASHER-HARD (2MM THK)					
	15	8T4971	3	BOLT (M6X1.0X30MM)					
M	16	5C2890	3	NUT (M6X1.00 THD)					
	17	4S5719	2	SPACER					
M	18	4B2041	2	NUT (6-32 THD)					
	19	8T4196	2	BOLT (M10X1.50X35MM)					
	20	8T4133	2	NUT (M10X1.50 THD)					
	21	4B1219	2	SCREW-MACHINE					
	22	6V9499	4	WASHER-HARD					

B-USE AS REQUIRED
M-METRIC PART

F-607386 CP

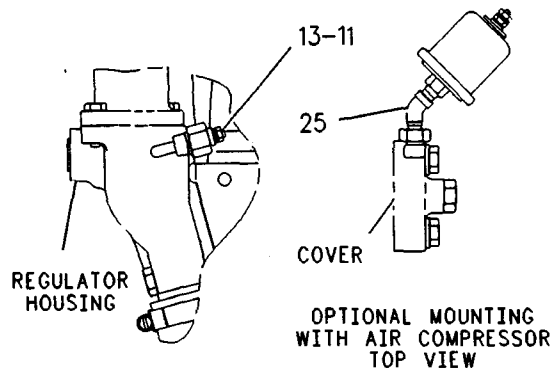
7451

9Y5475 PANEL GP-INSTRUMENT

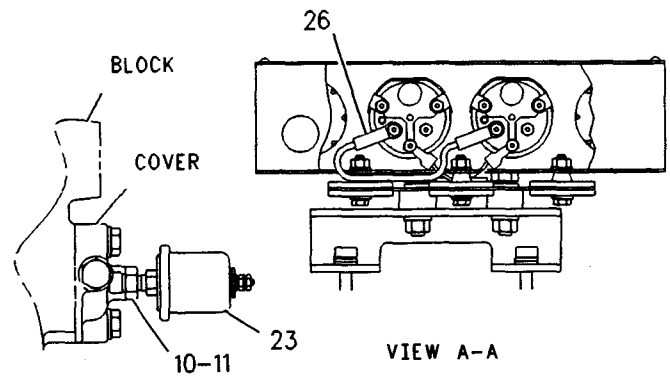
12 Volt

For Use With Engine Enclosure
An Attachment

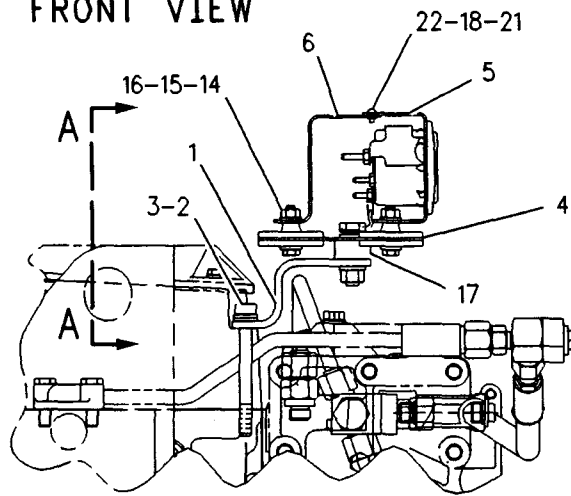
OPERATOR STATION



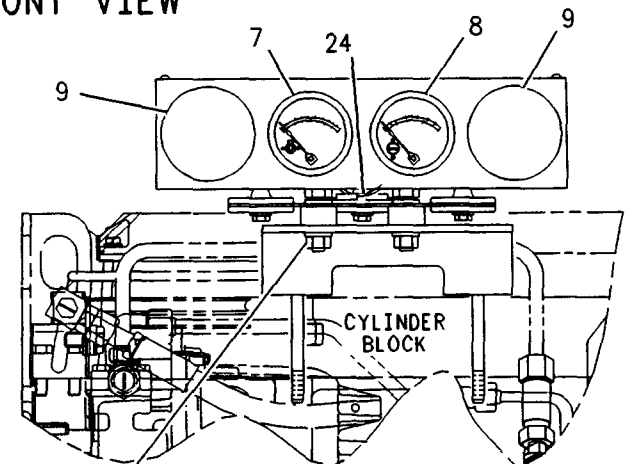
FRONT VIEW



FRONT VIEW



FRONT VIEW



LEFT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	1242372	1	BRACKET-PANEL	B		4B4274	1	WASHER (1.2MM THK)
	2	6V5196	2	BOLT-SOCKET HEAD			6V8378	1	NUT (10-32 THD)
	3	9M1974	4	WASHER-HARD (2MM THK)			8F1434	1	LOCKWASHER (5MM ID)
	4	2N5848	1	BASE AS		24	9Y5721	2	WIRE AS
	5	2N0816	1	PANEL-INSTRUMENT		25	8L5008	1	ELBOW-PIPE
	6	9Y5807	1	COVER-PANEL		26	6I2017	1	WIRE AS
	7	4W2065	1	INDICATOR-ENGINE OIL PRESSURE (OIL PRESS)					
	8	4W0483	1	INDICATOR-COOLANT TEMPERATURE (WATER TEMP)					
	9	1L6561	2	PLUG					
	10	3Y2888	1	CONNECTOR					
	11	3U1907	2	SEAL-O-RING (11.89MM ID)					
	12	8T4121	4	WASHER (21MM OD)					
	13	8N3844	1	SENDER-TEMPERATURE (WATER TEMP)					
M	14	8T4205	6	WASHER-HARD (2MM THK)					
	15	8T4971	3	BOLT (M6X1.0X30MM)					
	16	5C2890	3	NUT (M6X1.00 THD)					
M	17	4S5719	2	SPACER					
	18	4B2041	2	NUT (6-32 THD)					
M	19	8T4196	2	BOLT (M10X1.50X35MM)					
	20	8T4133	2	NUT (M10X1.50 THD)					
	21	4B1219	2	SCREW-MACHINE					
	22	6V9499	4	WASHER-HARD					
	23	302010	1	SENDER AS (OIL PRESS)					

B-USE AS REQUIRED
M-METRIC PART

F-607385 CP

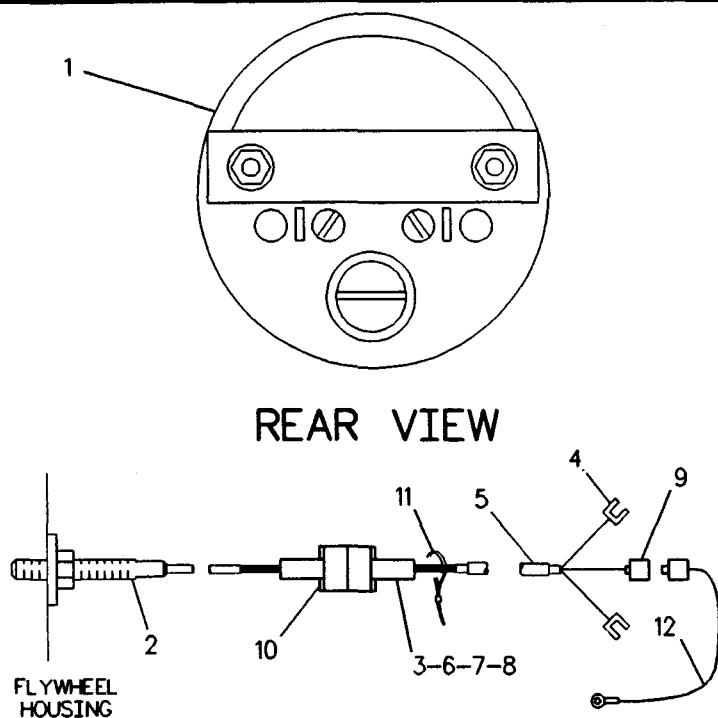
7451

9Y5476 PANEL GP-INSTRUMENT

24 Volt

For Use With Engine Enclosure
An Attachment

OPERATOR STATION



NOTE	REF NO	PART NUMBER	QTY	PART NAME
Y	1	9X1117	1	TACHOMETER
	2	7W3355	1	MAGNETIC PICKUP GP
	3	9Y9849	1	WIRE AS-TACHOMETER
BE	4	9G3186	2	TERMINAL-SPADE
	5	6V2744		WIRE (18 GA)
	6	7N9737	1	HOUSING-PLUG
	7	7N7779	1	SOCKET
	8	7N7780	1	PIN-CONNECTOR
	9	7N7221	1	TERMINAL
	10	9G9151	1	CLIP
	11	8L8413	1	STRAP-CABLE
	12	2W0619	1	WIRE AS
		2L8079	1	TERMINAL
	4S1988	1	TERMINAL	

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER
Y-SEPARATE ILLUSTRATION

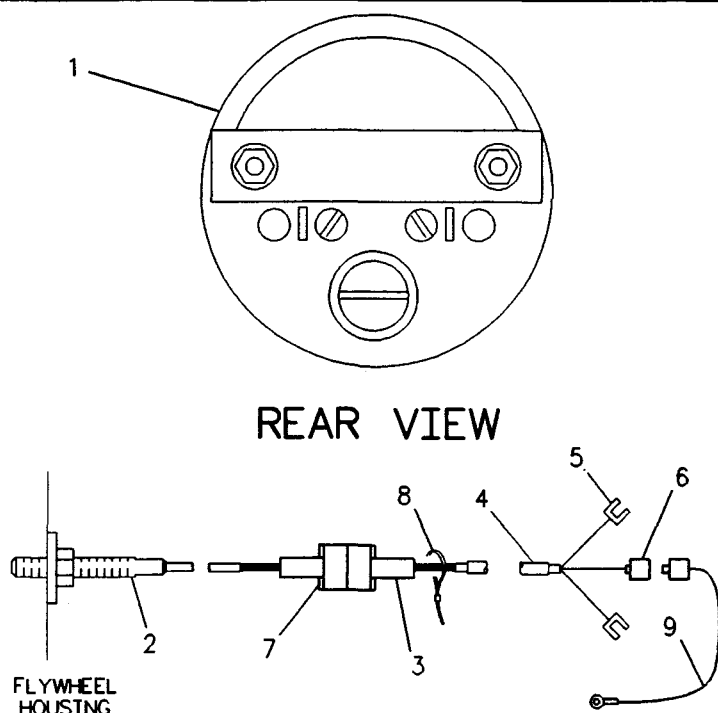
F-593025 CP

462

9Y1132 TACHOMETER GP-ELECTRIC

7W3355-Page 288

For Use With 134 Tooth Flywheel
An Attachment



NOTE	REF NO	PART NUMBER	QTY	PART NAME
Y	1	9X1117	1	TACHOMETER
	2	7W3355	1	MAGNETIC PICKUP GP
	3	9Y9849	1	WIRE AS-TACHOMETER
		7N9737	1	HOUSING-PLUG
		7N7779	1	SOCKET
BE		7N7780	1	PIN-CONNECTOR
	4	6V2744	1	WIRE (18 GA)
	5	9G3186	2	TERMINAL-SPADE
	6	7N7221	1	TERMINAL
	7	9G9151	1	CLIP
	8	8L8413	1	STRAP-CABLE
	9	2W0619	1	WIRE AS
		2L8079	1	TERMINAL
	4S1988	1	TERMINAL	

B-USE AS REQUIRED
E-ORDER BY THE CENTIMETER
Y-SEPARATE ILLUSTRATION

F-594592 CP

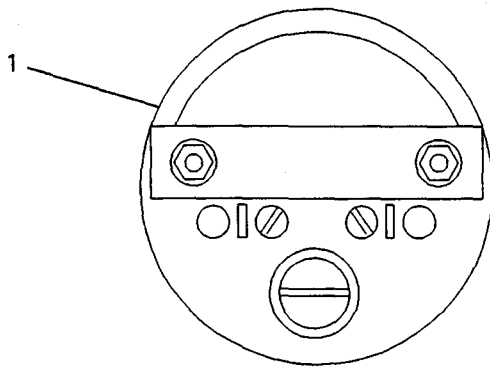
462

9Y1378 TACHOMETER GP-ELECTRIC

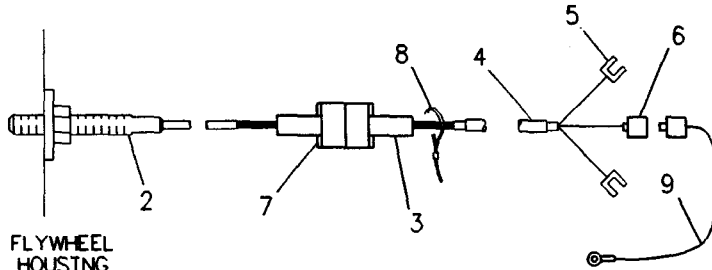
7W3355-Page 288

For Use With 126 Tooth Flywheel
An Attachment

OPERATOR STATION



REAR VIEW



NOTE	REF NO	PART NUMBER	QTY	PART NAME
Y	1	9X1117	1	TACHOMETER
	2	7W3355	1	MAGNETIC PICKUP GP
	3	9Y9849	1	WIRE AS-TACHOMETER
E		7N9737	1	HOUSING-PLUG
		7N7779	1	SOCKET
		7N7780	1	PIN-CONNECTOR
	4	6V2744	1	WIRE (18 GA)
	5	9G3186	2	TERMINAL-SPADE
	6	7N7221	1	TERMINAL
	7	9G9151	1	CLIP
	8	8L8413	1	STRAP-CABLE
	9	2W0619	1	WIRE AS
		2L8079	1	TERMINAL
		4S1988	1	TERMINAL

E-ORDER BY THE CENTIMETER
Y-SEPARATE ILLUSTRATION

F-594569 CP

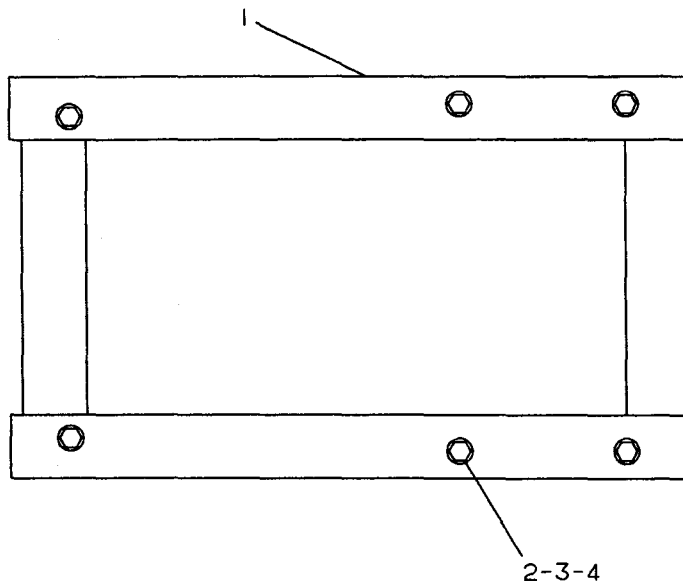
7462

9Y7333 TACHOMETER GP-ELECTRIC

7W3355-Page 288

For Use With 156 Tooth SAE #1 Flywheel
An Attachment

ENCLOSURES, GUARDS AND BASES

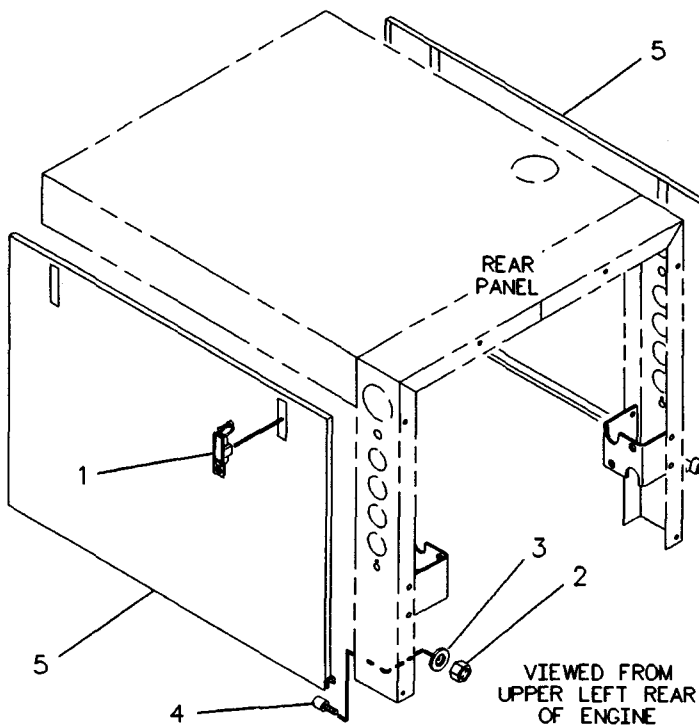


NOTE	REF NO	PART NUMBER	QTY	PART NAME
BM B BM	1	7E1488	1	BASE AS
	2	6V8197	4	BOLT
	3	5P8245	8	WASHER
	4	6V8149	4	NUT
B-USE AS REQUIRED M-METRIC PART				

C-473305 EP

060

7E1487 BASE GP-ENGINE
For Use With Front & Rear Support
An Attachment



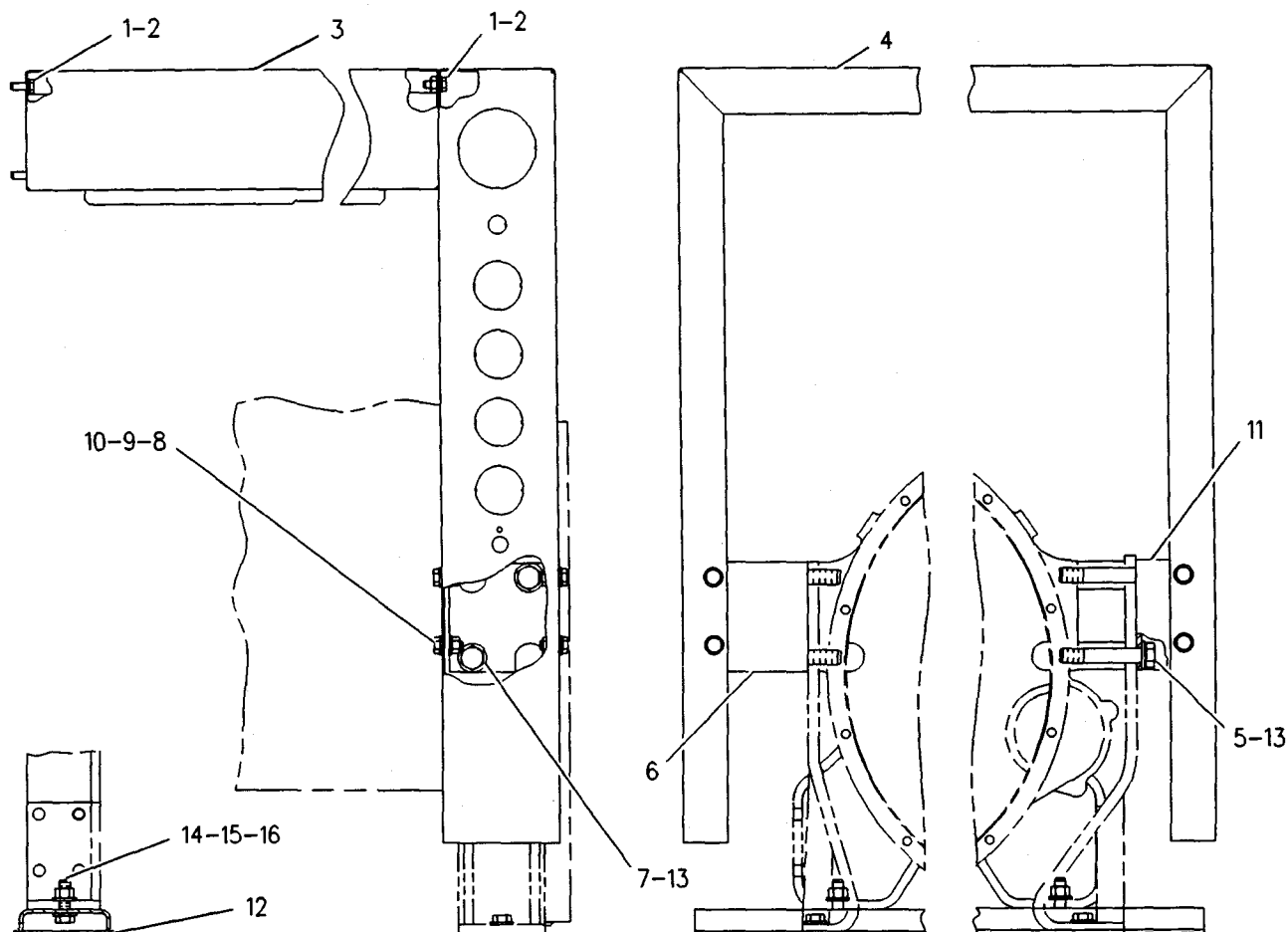
NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	9Y2656	4	LATCH
	2	6V9189	4	LOCKNUT
	3	8T4224	4	WASHER-HARD
	4	7E2621	4	STUD
	5	7E1490	2	PANEL AS-SIDE
M-METRIC PART				

F-476293 EP

263

7E1489 DOOR GP-SIDE
For Use With Enclosure & Radiator
9Y9642 Key Is Available
An Attachment

ENCLOSURES, GUARDS AND BASES



LEFT SIDE VIEW

REAR VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	8T4189	8	BOLT (M8X1.25X20MM)					
	2	8T4224	8	WASHER-HARD (2MM THK)					
	3	7E1484	1	PANEL AS-TOP					
M		8T3612	4	NUT-WELD (M8X1.25 THD)					
	4	7E1483	1	PANEL-REAR					
M	5	8T4175	2	BOLT (M16X2.0X90MM)					
	6	1113792	1	BRACKET					
M	7	8T7338	2	BOLT (M16X2.0X45MM)					
M	8	8T4136	8	BOLT (M10X1.50X25MM)					
	9	8T4121	16	WASHER (21MM OD)					
M	10	8T4133	8	NUT (M10X1.50 THD)					
	11	1113791	1	BRACKET					
	12	9Y2106	1	SUPPORT AS					
	13	9X8257	4	WASHER (3.5MM THK)					
M	14	8T4183	2	BOLT (M12X1.75X40MM)					
	15	8T4223	4	WASHER-HARD (3MM THK)					
	16	8T4244	2	NUT (M12X1.75 THD)					

M-METRIC PART

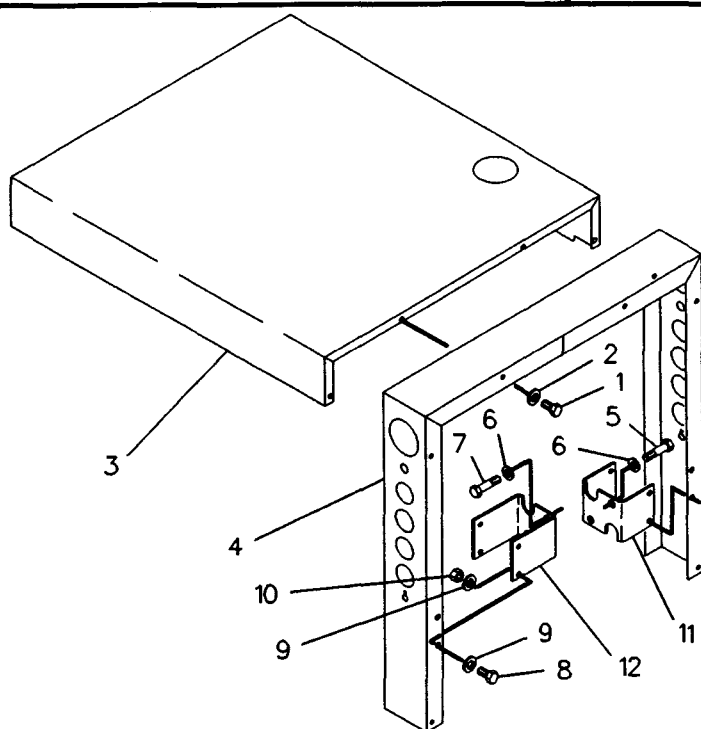
F-607352 CP

7263

1113793 ENCLOSURE GP-ENGINE

An Attachment

ENCLOSURES, GUARDS AND BASES

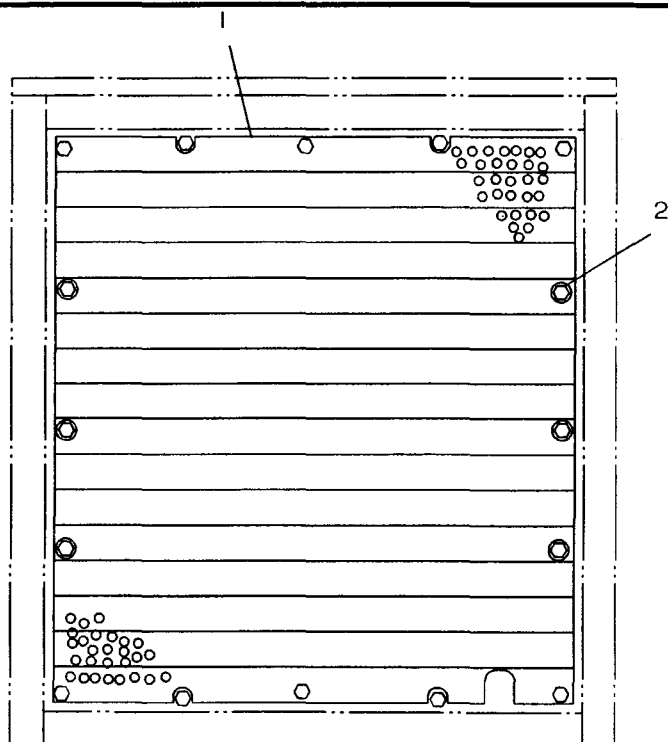


NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	8T4189	8	BOLT
	2	8T4224	8	WASHER-HARD
	3	7E1484	1	PANEL AS-TOP
	4	7E1483	1	PANEL-REAR
M	5	8T0358	2	BOLT
	6	5P8247	4	WASHER-HARD
M	7	8T0375	2	BOLT
	8	8T4136	8	BOLT
M	9	8T4121	16	WASHER
	10	8T4133	8	NUT
	11	7E2767	1	BRACKET
	12	7E2768	1	BRACKET
M-METRIC PART				

F-476265 EP

7263

7E1482 ENCLOSURE GP-ENGINE
For Use With Mounting & Radiator
An Attachment



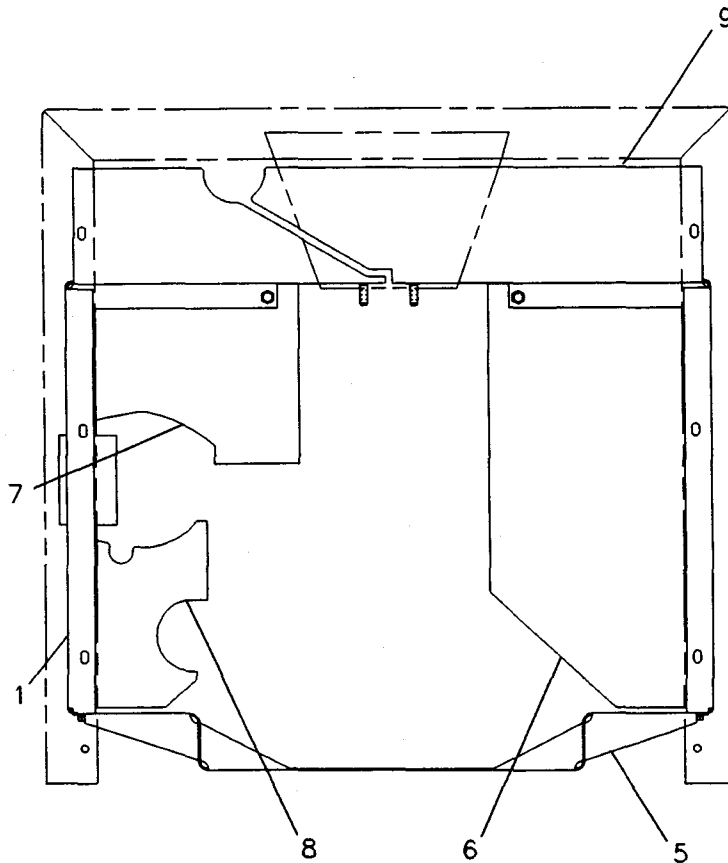
NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	9Y1159	1	GRILL
	2	8T4189	6	BOLT
		5P4116	6	WASHER
M-METRIC PART				

C-455378 EP

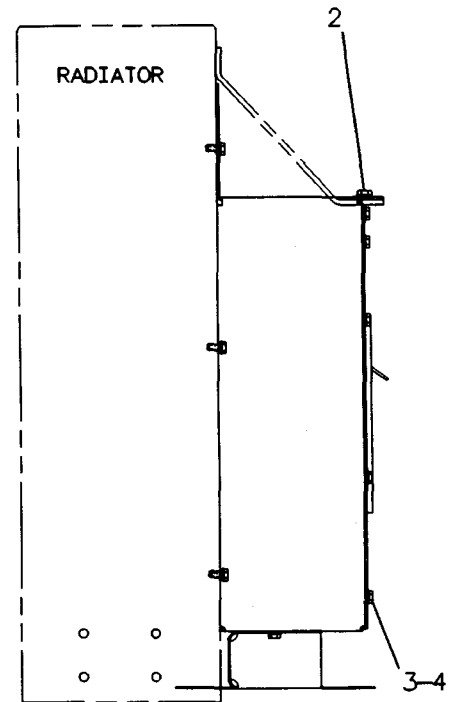
7170

9Y1331 GRILL GP
For Use With Radiator Support Gp Or Radiator Module Gp
An Attachment

ENCLOSURES, GUARDS AND BASES



FRONT VIEW



LEFT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M M	1	7E5126	1	GUARD AS-RH					
	2	8T4196	2	BOLT					
	3	8T4200	16	BOLT					
	4	8T4224	16	WASHER-HARD					
	5	7E5125	1	GUARD-BOTTOM					
	6	7E5124	1	GUARD-LH					
	7	7E5123	1	GUARD-RH					
	8	7E5122	1	GUARD-RH					
	9	7E5127	1	GUARD					

M-METRIC PART

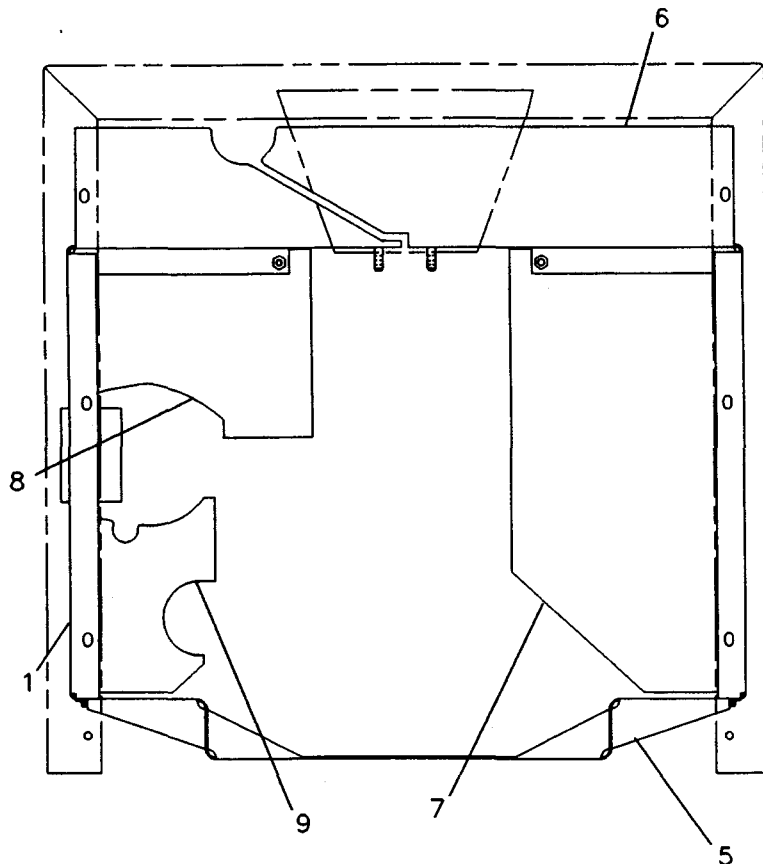
F-545377 EP

7174

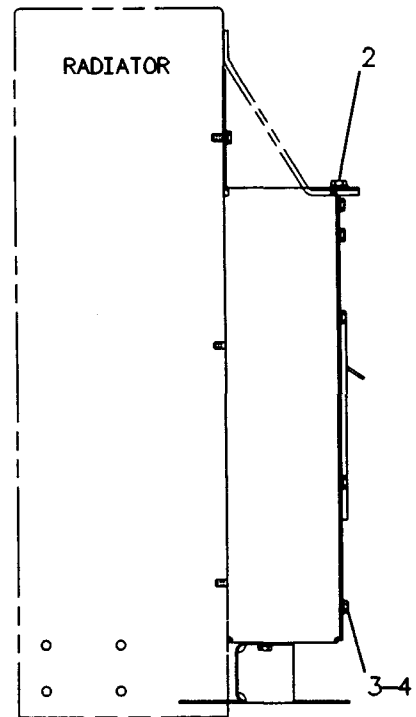
7E5128 GUARD GP-BELT

Extended
An Attachment

ENCLOSURES, GUARDS AND BASES



FRONT VIEW



LEFT SIDE VIEW

NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M M	1	7E5129	1	GUARD AS-RH					
	2	8T4196	2	BOLT					
	3	8T4200	16	BOLT					
	4	8T4224	16	WASHER-HARD					
	5	7E5131	1	GUARD-BOTTOM					
	6	7E5130	1	GUARD AS-LH					
	7	7E5124	1	GUARD-LH					
	8	7E5123	1	GUARD-RH					
	9	7E5122	1	GUARD-RH					

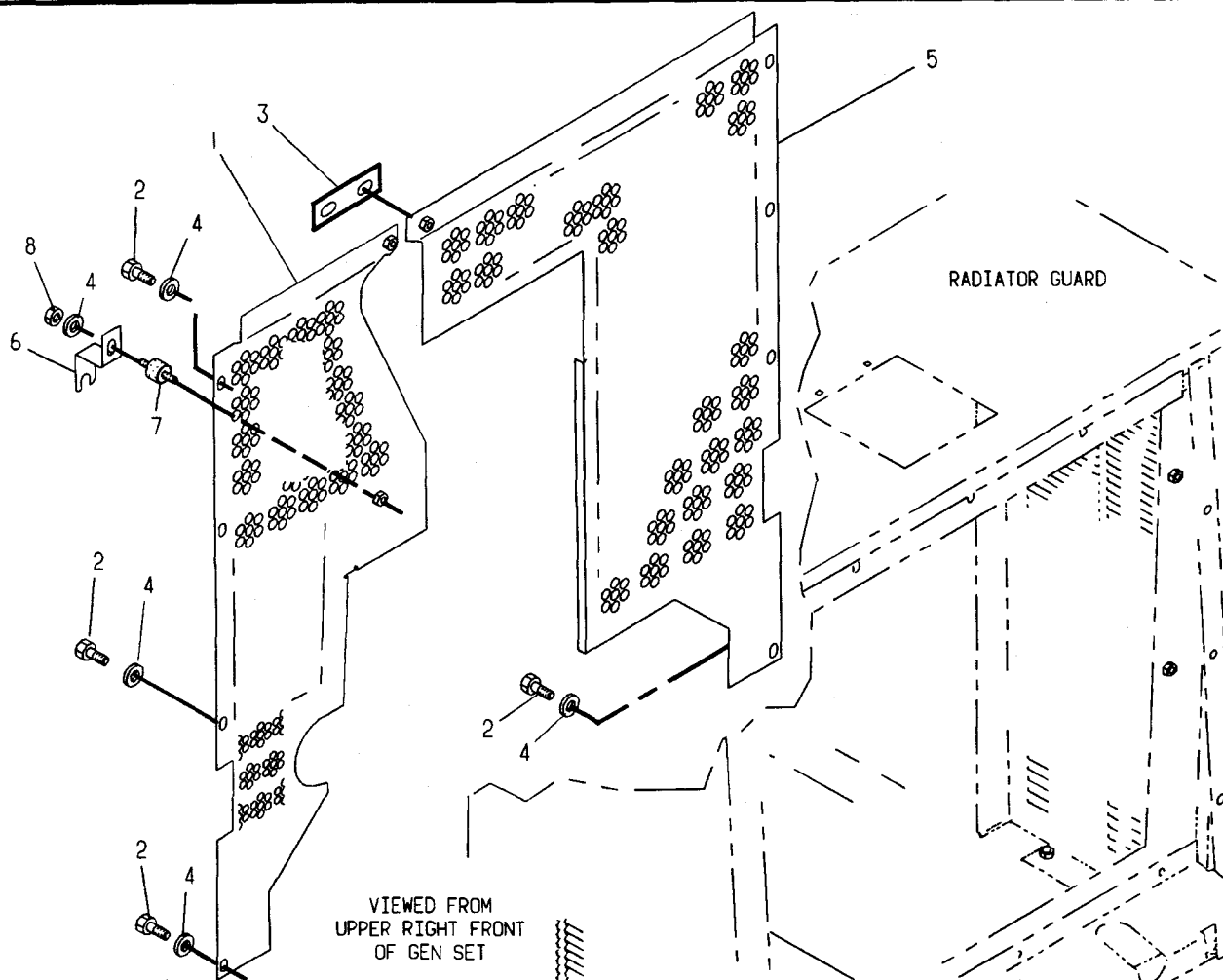
M-METRIC PART

F-545379 EP

7174

7E5132 GUARD GP-BELT
Non-Extended
An Attachment

ENCLOSURES, GUARDS AND BASES



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
	1	9Y5236	1	GUARD AS-ENGINE					
M		8T3612	2	NUT-WELD					
M	2	8T4200	10	BOLT					
B	3	9Y5279	1	CLIP					
	4	8T4224	11	WASHER-HARD					
	5	9Y5235	1	GUARD AS-ENGINE					
M		8T3612	1	NUT-WELD					
	6	9Y5280	1	CLIP					
	7	7C7241	1	MOUNT-SHOCK					
M	8	5P7970	1	NUT					

B-USE AS REQUIRED
M-METRIC PART

A-488704 EP

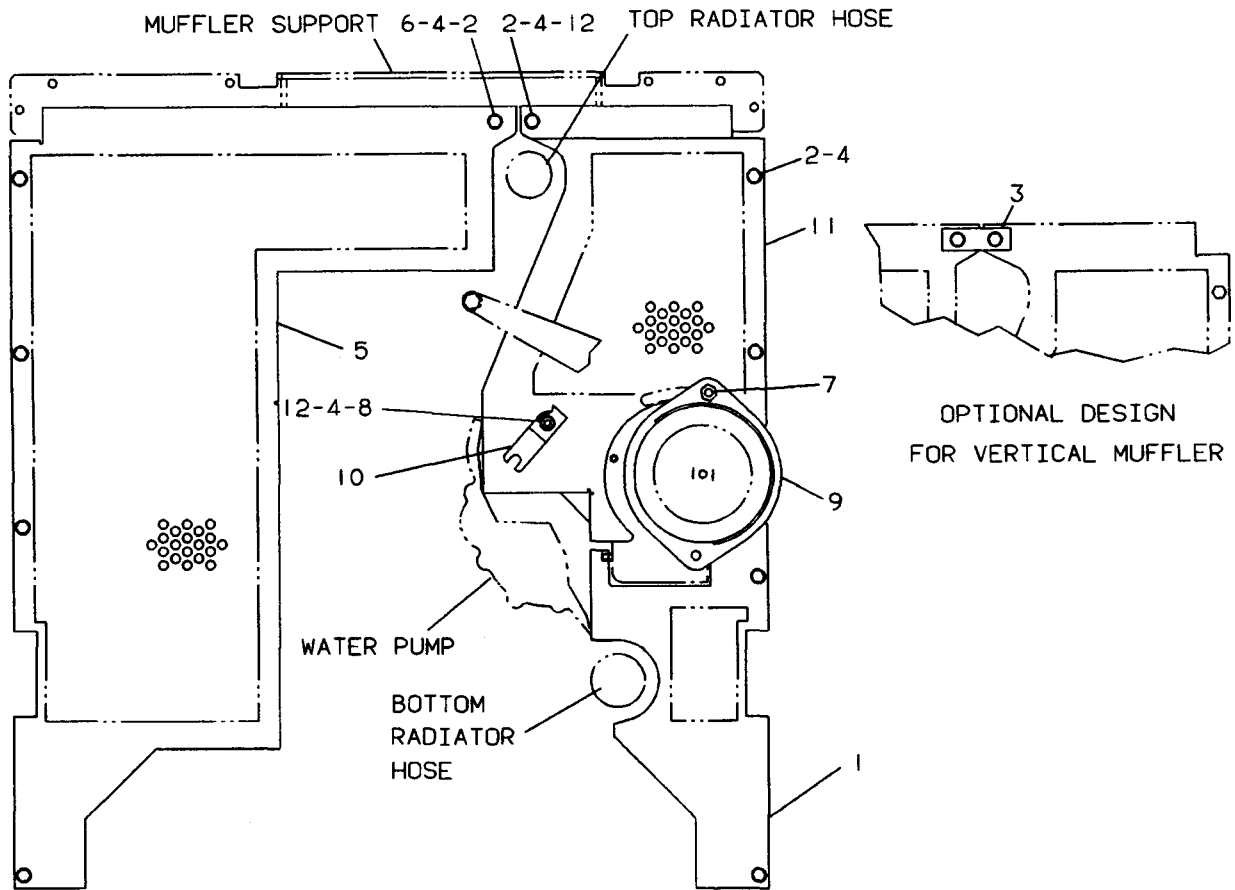
7174

9Y5234 GUARD GP-BELT

Not For Use With Alternator

For Use With Critical Silencer & Industrial Silencer
An Attachment

ENCLOSURES, GUARDS AND BASES



NOTE	REF NO	PART NUMBER	QTY	PART NAME	NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	9Y6798	1	GUARD-ENGINE					
B	2	8T4200	10	BOLT					
	3	9Y5279	1	CLIP					
	4	8T4224	11	WASHER-HARD					
	5	9Y5235	1	GUARD AS-ENGINE					
M	6	8T3612	1	NUT-WELD					
	7	7C7241	1	MOUNT-SHOCK					
M	8	5P7970	1	NUT					
	9	9Y6454	1	GUARD AS-ALTERNATOR					
	10	9Y5280	1	CLIP					
	11	9Y6452	1	GUARD AS-ENGINE					
M	12	8T3612	2	NUT-WELD					

B-USE AS REQUIRED
M-METRIC PART

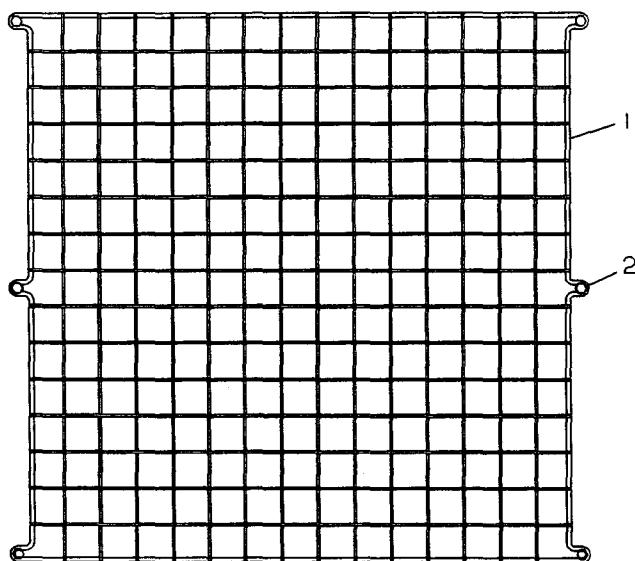
C-457356 EP

7174

9Y6453 GUARD GP-BELT

For Use With 9Y5323 Alternator; Radiator Support, And Base
An Attachment

ENCLOSURES, GUARDS AND BASES



NOTE	REF NO	PART NUMBER	QTY	PART NAME
M	1	9Y4746	1	GUARD-RADIATOR
	2	8T4908	6	BOLT
		8T4224	6	WASHER-HARD

M-METRIC PART

C-480919 EP

7155

7E5274 GUARD GP-RADIATOR
For Use With Engine Mounted Radiator
An Attachment

SERVICE EQUIPMENT AND SUPPLIES

- 1 4W1413 PLATE-ENGINE SERIAL NO.
ON UPPER LH SIDE OF CYLINDER BLOCK
TOWARDS THE REAR
- 1 7C5989 PLATE-INFORMATION
ON TOP OF REAR GOVERNOR HOUSING
- 1 7E2681 PLATE-CATERPILLAR
ON TOP OF VALVE COVER TOWARDS
REAR OF ENGINE
- 1 9L6531 PLATE-INFORMATION
ON TOP OF VALVE COVER TOWARDS
FRONT OF ENGINE
- 1 3N3469 TAG-PRESTART INSTRUCTION
ON RH OR LH SIDE OF ENGINE IN A
VISIBLE LOCATION. DO NOT INSTALL
ON FRONT OR REAR OF ENGINE OR COMPONENT
- 1 8L8413 STRAP
USE TO INSTALL PRESTART TAG
- 1 7E8070 FILM-ENGINE SERIAL NO.
ON LH SIDE OF VALVE COVER BASE-
JUST FORWARD OF THE BREATHER
- 1 4P8681 FILM-OIL FILTER IDENTIFICATION
INSTALL ON SPIN-ON OIL FILTER

NAME PLATES & FILMS

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7E3254	141	7E5196	113	7E9817	101		215.02
	153	7E5274	342		119		236
7E3255	140	7E5286	70	7E9898	208	7L4536	330
7E3256	141		71	7E9916	109	7L8255	169