

S R D ENGINEERS

(AN ENTERPRISES OF EX-CGL DY MANAGER SPARES & SERVICES)
(Since 1992)

P. No. 6 & 7, "Darshan Building", Beside Swaminarayan Temple, Rasoolpura, Secunderabad - 500 003.
Tel : 040 - 27903102, Cell : 9490746566, 9440547310, E-mail : srdengineers@gmail.com, Web : www.srdengineers.co.in

SUPPLY OF SPARES OVERHAULING OF MECHANISM FOR 132KV SF6 CIRCUIT BREAKER TYPE 120-SFM-32A

Sr.No	Item Description	Sr.No	Item Description
1	O ring P – 18	20	Chemistic
2	O ring P – 7	21	Emry Pads (Scotch Brite)
3	Control valve seat	22	Filter pads for louvers
4	Roller with Bearing for Holding latch	23	Blind caps for stop valve
5	muslin cloth	24	compressor tuneup kit (145kv)
6	3 bond compound (1 Pkt -10 Gms)	25	Trip Latch
7	Anabond 680 (100 Gm)	26	7No/2Nc 110/220VDC Contactor
8	Reservior "O" ring	27	5No/4Nc 110/220VDC Contactor
9	Al. pipe O ring IAP – 80	28	Nyloc nut of Control valve drive rod
10	Set of circlips, split pins,Grub screws, Allen Bolts	29	Bearings of the Barpin where holding latch getslatched
11	Darina Grease (1 pkt - 500 Gms)	30	Oring IAP44
12	Safety valve	31	Oring IAP90
13	trip latch spring	32	contral valve drive rod
14	Manual Trip cord assembly	33	NRV(Check Valve)
15	Antipumping spring	34	Drain valve
16	Bearing of holding latch barpin (Mechframe)	35	Shock absorber oil
17	C/D roller with bearing	36	Tripping Coil 110/220VDC
18	Capeal with O-ring	37	Closing Coil 110/220VDC
19	Shockproof rubber with hardwares		

OPTIONAL SPARES FOR MECHANISM OVERHAULING OF 145KV SF-6 BREAKER TYPE 120-SFM-32A

Sr.No	Item Description	Sr.No	Item Description
1	Shock Absorber Assembly	9	Auxiliary switch stacks 4NO/4NC
2	Control valve assembly	10	Closing trigger assy
3	Roller lever assly with C/D Rollers	11	Loctite (1 pkt - 50ML)
4	Aluminium bend pipes	12	Compressor belt (A50) (01 set-02 nos)
5	Hardware set	13	Gas Pressure Gauge
6	Gas density switch	14	Gas valve saginomiya/ dilo
7	Air switches with coupling	15	Air Pressure Gauge
8	Window glass with gasket & cord		

MANDATORY SPARES FOR POLE OVERHAULING OF 145KV SF-6 GAS CIRCUIT BREAKER TYPE 120SFM32A

Sr.No	Item Description	Sr.No	Item Description
1	O Ring P -195	6	Jointal Z (10gms)
2	O Ring G -185	7	Etna Seal set
3	O Ring P -170	8	Absorbent
4	O Ring P – 32	9	Micro Carbon Grease (1 pkt - 50Gms)
5	O Ring G -170	10	Anabond 680/silastic1080 (100 Gm)

OPTIONAL SPARES FOR POLE OVERHAULING OF 145KV SF-6 CIRCUIT BREAKER TYPE 120-SFM-32A

Sr.No	Item Description	Sr.No	Item Description
1	Intermediate Flange	5	Lower Terminal Flange
2	Moving arc contact with guide	6	Interrupter porcelain with SCH(St bore)
3	Stationary Arc Contact	7	Support porcelain
4	Nozzle	8	SF6 gas cylinder-25kg

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SUPPLY OF SPARES FOR OVERHAULING OF MECHANISM FOR 220KV SF6 CIRCUIT BREAKER TYPE 200-SFM-40A

Sr. No.	Item Description	Sr. No.	Item Description
1	Control valve seat	27	Air Pressure Gauge
2	Loctite (50 ML)	28	Compressor belt (A52) (01 Set-02 nos)
3	Muslin cloth	29	Compressor Tuneup Kit (245KV)For I/R makeCompressor
4	3 bond compound (20 Gms)	30	Resister (3.3K)
5	Set of circlips, split pins, Grub screws, allenbolts	31	Thermostat
6	Darina Grease (500 gms)	32	Trip Coil 220V
7	Anabond 680/silastic1080 (100 Gm)	33	Close Coil 220V
8	Set of Spring(TRIP LATCH & A/P LEVER)	34	7 NO/1 NC 220V DC Contactor
9	Holding Latch with Roller & bearing	35	4 NO/4 NC 220V DC Contactor
10	Bearing of the bar Pin where Holding LatchGets Latched	36	Motor Contactor 415V AC
11	Bearing of holding latch barpin (Mechframe)	37	L/R Switch 7 Pole
12	Aux switch shaft with lever	38	TNC Switch 4 pole
13	Manual Trip cord Assembly	39	MCB 4 Pole
14	IAP-44	40	MCB 2 Pole
15	IAP-90	41	Overload Relay 4 to 6A
16	Shock Absorber Oil	42	Space heater 250W
17	Reservior "O "ring	43	Gas Pressure Gauge
18	Al. pipe O ring IAP 80	44	O ring P7
19	Drain valve	45	BLIND CAP WITH ORING FOR DILO VALVE
20	Check valve (NRV)	46	Chemistic
21	Safety valve	47	Operation counter
22	C/D Roller	48	Shockproof rubber with hardwares
23	Capseal with O-ring	49	Emry Pads
24	Air switches with coupling	50	Filter pads for louvers
25	Trip Latch	51	Window Glass with Gasket
26	Nyloc nut of Control valve drive rod		

OPTIONAL SPARES FOR MECHANISM OVERHAULING OF 200KV SF-6 GAS CIRCUIT BREAKER (TYPE 200 SFM 40A)

Sr No.	Item Description	Sr No.	Item Description
1	Control Valve Assembly.	7	Gas Switch
2	Shock Absorber Assembly	8	Hardware Set
3	Isolating Valve(Gas Valve) SAGINOMIYA ORDILO VALVE	9	Antipumping Relay VAJS-13 OR ANTIPUMPINGCONTACTOR
4	Auxiliary Contact Assembly	10	Close Coil Assembly
5	Time Delay Relay	11	Trip Coil Assembly
6	MCCB 2 POLE 250 VDC OR MCB 2 POLE 250VDC		

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MANDATORY SPARES FOR POLE OVERHAULING OF 220KV SF6 CIRCUIT BREAKER TYPE 200 SFM-40A

Sr.No.	Item Description	Sr.No.	Item Description
	Spares For Pole Units.	5	Etna seal set
1	"O" ring P260	6	O ring P40
2	Absorbant	7	Microcarbon Grease (50 Gms)
3	"O" ring P170	8	Jointal Z (10 gms)
4	O ring P18	9	Anabond 680/SILASTIC 1080 (100 Gm)

OPTIONAL SPARES FOR POLE OVERHAULING OF 220KV SF-6 GAS CIRCUIT BREAKER TYPE 200SFM 40A

Sr No.	Item Description	Sr No.	Item Description
1	Moving Arc Contact with guide	7	Support Porcelain
2	Stationary Arc Contact	8	Puffer Cylinder assembly with Contacts& Nozzle
3	Nozzle	9	SF-6 Gas Cylinder 40 KG.
4	Barpin of Insulating rod(245KV)	10	Gas Switch
5	Isolating Valve(Gas Valve) SAGINOMIYA OR DILO VALVE	11	Insulating Pull Rod Assembly
6	Interrupter Porcelain	12	Hardware Set

MANDATORY SPARES FOR MECHANISM OVERHAULING OF 400KV SF-6 GAS CIRCUIT BREAKER TYPE 400-SFM-40A

Sr.No.	Item Description	Sr.No.	Item Description
1	O RING P-18	25	BLIND CAPS FOR GAS STOP VALVE/DILO VALVE CAP
2	O RING P-7	26	THERMOSTAT
3	CONTROL VALVE SEAT	27	GAS PRESSURE GAUGE
4	3 BOND COMPOUND (1 PKT = 10 Gms)	28	AIR PRESSURE GAUGE
5	AIR RESERVOIR O RING	29	AIR PRESSURE SWITCH WITH ADOPTER
6	AL. PIPE O RING IAP 100	30	SPACE HEATER 250W
7	SET OF CIRCLIPS,SPLIT PINS,DOWELPINS etc	31	L/R SWITCH 7 POLE
8	DARINA GREASE (1 PKT = 500 Gms)	32	TNC SWITCH 4 POLE
9	Anabond 680/silastic1080 (100 Gm)	33	WINDOW GLASS WITH GASKET & CORD
10	DRAIN VALVE	34	AUX. SWITCH SHAFT WITH LEVER
11	CHECK VALVE (NRV)	35	TRIP COIL 220V DC
12	SAFETY VALVE	36	CLOSE COIL 220V DC
13	RESISTOR 3.3 K OHM	37	3 NO + 2 NC DC CONTACTOR WITH ADD ON BLOCK 4 NO
14	TRIP LATCH SPRING	38	3 NO + 2 NC DC CONTACTOR WITH ADD ON BLOCK 2 NO + 2 NC
15	ANTIPUMPING SPRING	39	Motor Contactor 415V AC
16	HOLDING LATCH WITH ROLLER & BEARING	40	Overload Relay 4 to 6A
17	BEARING FOR BARPIN WHERE HOLDING LATCH GETS LATCHED	41	MCB 4 Pole 415V AC
18	BEARING FOR HOLDING LATCH BARPIN (MECHFRAME)	42	MCB 2 Pole 230V AC
19	OPERATION COUNTER	43	Compressor Belt (A63)
20	CAP SEAL WITH O RING	44	Compressor Tuneup Kit
21	SHOCKPROOF RUBBER WITH HARDWARES	45	O RING IAP40
22	CHEMISTIC	46	O RING IAP 90
23	BRONZE WASHER	47	Shock absorber Oil
24	FILTER PAD FOR LOUVERS	48	EMERY PAD

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OPTIONAL SPARES FOR MECHANISM OVERHAULING OF 400KV SF-6 GAS CIRCUIT BREAKER TYPE 400-SFM-40A

Sr No.	Item Description	Sr No.	Item Description
1	CONTROL VALVE ASSEMBLY	7	GAS FEED VALVE SAGINOMIYA OR DILO VALVE
2	SHOCK ABSORBER ASSEMBLY	8	GAS DENSITY SWITCH Q6
3	ANTIPUMPING RELAY VAJS-13 OR ANTIPUMPING CONTACTOR	9	PISTON RING
4	POLE DISCREPANCY RELAY (TIME DELAY RELAY)	10	CLOSE COIL ASSEMBLY 220VDC
5	AUXILIARY SWITCH ASSEMBLY (STD)	11	TRIP COIL ASSEMBLY 220VDC
6	MCCB 2 pole 250 VDC OR MCB 2 pole 250VDC	12	HARDWARE SET

MANDATORY OVERHAULING SPARES FOR POLE UNIT OF 400kv (Type: 400-SFM-40A) without PIR

Sr. No.	Item Description	Sr. No.	Item Description
1	O RING P-135	6	ABSORBENT
2	O RING P-260	7	MICROCARBON GREASE (1PKT = 50 Gms)
3	O RING P-170	8	JOINTAL - Z (1PKT = 10 Gms)
4	O RING P-40	9	ANABOND 681 (1 TUBE = 150 Gms)
5	ETNA SEAL SET	10	ANABOND 680 (1 TUBE = 100 Gms)

MANDATORY SPARES FOR POLE UNIT OF 400kv SF6 CIRCUIT BREAKER(Type: 400-SFM-40A) with PIR

Sr. No.	Item Description	Sr. No.	Item Description
1	O RING P-135	6	ABSORBENT
2	O RING P-260	7	MICROCARBON GREASE (1PKT = 50Gms)
3	O RING P-170	8	JOINTAL - Z (1PKT = 10 Gms)
4	O RING P-40	9	ANABOND 681 (1 TUBE = 150 Gms)
5	ETNA SEAL SET	10	ANABOND 680 (1 TUBE = 100 Gms)

OPTIONAL SPARES FOR POLE UNIT OF 400kv SF6 GAS CIRCUIT BREAKER (Type: 400-SFM-40A)

Sr No	Item Description	Sr No	Item Description
1	INTERRUPTER PORCELAIN	6	MOVING ARC CONTACT WITH GUIDE
2	TOP/MIDDLE SUPPORT PORCELAIN	7	STATIONARY ARC CONTACT
3	BOTTOM SUPPORT PORCELAIN	8	NOZZLE
4	PUFFER CYLINDER ASSEMBLY WITH CONTACTS & NOZZLE	9	INSULATING PULL ROD ASSEMBLY WITH SHAFT
5	SLIDE SEAL FLANGE (SSF) ASSEMBLY W/o VALVE	10	HARDWARE SET

MANDATORY SPARES FOR MECHANISM OVERHAULING OF 145kVSF-6 Gas Circuit Breaker TYPE 120 SFM 32B

Sr. No	Item Description	Sr. No	Item Description
1	MOTOR 230V AC/DC(TYPE C-22)	7	CLOSING TRIGGER WITH BEARING
2	LIMIT SWITCH (1 NO + 1 NC)	8	TRIPPING TRIGGER WITH BEARING
3	MOTOR CONTACTOR 110V /220DC (WITH ADD ON BLOCK)	9	SMALL PAWL WITH BEARING
4	CLOSE/TRIP COIL 110V/220V	10	LARGE PAWL WITH BEARING
5	CLOSING HOLDING LATCH	11	ECCENTRIC SHAFT BEARING (4906) FRONT
6	RATCHET WHEEL ASSLY WITH BLACK BOLT , STOP ROLLER, BEARING & BAR PIN	12	ECCENTRIC SHAFT BEARING (4904) REAR

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13	THRUST BEARING 4060 FOR BLACK BOLT	23	TORSION SPRING (RIGHT & LEFT)
14	THRUST WASHER FOR BLACK BOLT (THIN)	24	MUSLIN CLOTH
15	THRUST WASHER FOR BLACK BOLT(THICK)	25	3 BOND COMPOUN(1 Pkt -10 Gms)
16	BEARING FOR CLOSING SPRING ROD	26	SET OF CIRCLIP, GRUB SCREW, SPLIT PINS ETC
17	BUSH FOR CLOSING SPRING ROD	27	CHEMISTIC
18	BRASS WASHER FOR BLACK BOLT	28	EMERY PAD
19	O-RING P12	29	SPACE HEATER 240VAC/250W
20	BERUTOX GREASE (100gm)	30	GAS PRESSURE GAUGE
21	LOCTITE (01 PKT-20ML)	31	DOOR GASKET
22	CATCH SPRING		

OPTIONAL SPARES FOR MECHANISM OVERHAULING OF 145kv 3 pole Circuit Breaker Type 120-SFM-32B

Sr.No	Item Description	Sr.No	Item Description
1	SPRING CHARGING HANDLE	7	TRIP COIL ASSEMBLY 110V/220V
2	TRIP HOLDING LATCH	8	SP/SP CB MECHANISM W/O HRA
3	CLOSING SPRING	9	OPERATING CAM
4	ANTIPUMPING LEVER	10	SHAFT FOR OPERATING CAM
5	SHOCK ABSORBER ASSY WITH TRIP SPRING	11	ECCENTRIC SHAFT ASSEMBLY WITH PAWLS
6	CLOSING COIL ASSY. 110V/ 220V	12	HARDWARE SET

MANTDOTARY SPARES FOR POLE OF 145kv 3 pole (40KA)SF-6 Gas Circuit Breaker Type-120-SFM-32B

Sr.No	Item Description	Sr.No	Item Description
1	ETNA SEAL SET	5	Micro Carbon Grease (1 pkt -50Gms)
2	O-RING P-105	6	Anabond 680/silastic1080 (100 Gm)
3	O-RING G-240	7	JOINTAL - Z (1 Pkt = 10 Gms)
4	Absorbent		

OPTIONAL SPARES FOR POLE OVERHAULING OF 132kv 3 pole (40KA)SF-6 Gas Circuit Breaker, Type120-SFM-32B

Sr.No	Item Description	Sr.No	Item Description
1	POLE UNIT ASSEMBLY 145KV 40KA	8	SLIDE SEAL FLANGE ASSEMBLY WITHOUT GAS VALVE
2	I' ADOPTOR FOR POLE UNIT VALVE(DILO)	9	SF6 gas cylinder-11kg
3	FIXED FIGNER CONTACT	10	STATIONARY ARC CONTACT
4	SUPPORT PORCELAIN	11	DILO VALVE COMPLETE SET
5	MOVING ARC CONTACT WITH GUIDE	12	MOVING MAIN CONTACT
6	INTERRUPTER PORCELAIN	13	NOZZLE
7	INSULATING ROD ASSEMBLY		

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MANDATORY SPARES FOR MECHANISM OVERHAULING 245kV SF6 CIRCUIT BREAKER TYPE 200-SFM-50AA(Spring –Spring)

Sr.No.	DESCRIPTION	Sr.No	Item Description
1	BIG PAWL WITH BUSH 50KA SPSP	15	GAS PRESSURE GAUGE
2	SMALL PAWL WITH BUSH 50KA SPSP	16	GAS DENSITY SWITCH
3	TORSION SPRING FOR BIG PAWL 245KV LEM	17	Operation counter
4	TORSION SPRING FOR SMALL PAWL 245KV LEM	18	Limit Switch
5	SPRING TRPLH TORSION	19	HARDWARE SET+CIRCLIP SET FOR LEM MECHANISM
6	145 TRIGGER ASSEMBLY FOR 245 LEM	20	RATCHET WHEEL BEARING ASSY
7	MOTOR C62 220 VDC	21	CLOSING TRIGGER ASSY
8	TRIP COIL	22	CLOSING LATCH WITH TORSION SPRING
9	CLOSE COIL	23	ROLLER LEVER ASSY
10	SPRING TRIG TORSION	24	3 BOND COMPOUND (1 PKT = 10Gms)
11	DARINA GREASE (1 PKT = 250Gms)	25	O RING P-18
12	SET OF CONTACTORS	26	O RING P-12
13	DILO GAS VALVE	27	O RING P-7
14	SILASTIC1080 1 TUBE = 100GMS	28	EMERY PAD

OPTIONAL SPARES FOR OVERHAULING OF 220kV SF-6 Gas Circuit Breaker Type 200-SFM-50AA

Sr.No	Item Description	Sr.No	Item Description
1	POLE UNIT ASSEMBLY WITHOUT HOUSING,MECHANISM 245LEM	5	MOVING CONTACT ASSEMBLY WITH NOZZLE,THERMAL PUFFER,PUFFER 245KV LEM
2	MECHANISM ASSEMBLY 245LEM	6	LOWER TERMINAL ASSEMBLY 245LEM
3	Shock Absorber Assembly 245LEM	7	STATIONARY CONTACT ASSEMBLY 245LEM
4	INSULATING PULL ROD ASSEMBLY 245LEM		

MANDATORY SPARES FOR POLE OVERHAULING OF 245kV LEM SF-6 CIRCUIT BREAKER (TYPE: 200-SFM-50AA)

Sr.No	Item Description	Sr.No	Item Description
1	ETNA SEAL SET	7	O-RING P-12
2	O-RING P-260	8	O-RING 333.5
3	O-RING G-170	9	ABSORBENT
4	O-RING P-32	10	MICRO CARBON GREASE (1 Pkt = 50Gms)
5	O-RING P-18	11	Anabond 680/silastic1080 (100 Gm)
6	O-RING P-7	12	JOINTAL - Z (1 Pkt = 10 Gms)

PRICE LIST FOR 11KV OUTDOOR PCVCB, 6.6KV/11KV INDOOR VCB & 33KV PCVCB VACUUM CIRCUIT BREAKERS

11KV OUTDOOR PCVCB- MANDATORY SPARES LIST

Sr.No.	Description	Sr.No.	Description
1	CLOSE COIL ASLY. (Kindly Specify Voltage)	5	SMALL GEAR ASSLY WITH MOTOR SHAFT
2	TRIP COIL ASLY. (Kindly Specify Voltage)	6	BIG & SMALL GEAR ASLY WITH MOTOR SHAFT
3	DOUBLE TRIP COIL ASLY	7	TRIP SHAFT ASLY WITH SPRINGS & TRIP STRIPS-
4	BIG GEAR ASLY	8	CLOSE SHAFT ASLY WITH SPRINGS & CLOSING STRIPS-

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9	TRIP CATCH ASLY. WITH ALL LINKAGE	20	ANTI PUMPING DEVICE
10	TNC SWITCH - WITH 1NO IN EACH POSITION- Keycee make	21	BUTTERFLY SWITCH FOR MOTOR CUT OFF
11	AUXILIARY SWITCH 7NO + 7NC - 190232519	22	MOTOR CUT-OFF SWITCH
12	"ZZ" MICRO SWITCH – 450232095	23	TEST SERVICE LIMIT SWITCH –
13	TEST SERVICE LIMIT SWITCH – NEW	24	LOCAL/REMOTE SELECTOR SWITCH
14	TIMER FOR MOTOR	25	BIG CAM WITH MAIN SHAFT
15	HOLDING CATCH ASSEMBLY	26	DRIVE ROD
16	SPRING CHARGING HANDLE FOR HAND OPERATING	27	SEALANT
17	PORCELAIN INSULATOR (Square type for Leon VCB	28	'O' RING SET
18	DRIVE ROD WITH SLIDE SEAL SHAFT	29	Motor
19	BRIDGE RECTIFIER		

33KV OUTDOOR PCVCB MANDATORY SPARES LIST

Sr.No.	Description	Sr.No.	Description
1	CLOSE COIL ASLY. (Kindly Specify Voltage)	17	MOTOR CUT-OFF SWITCH
2	SINGLE TRIP COIL ASLY. (Specify Voltage)	18	TEST SERVICE LIMIT SWITCH –
3	DOUBLE TRIP COIL ASLY. (Specify Voltage)	19	PORCELAIN INSULATOR (Square type VCB)
4	33 kV Ratchet Wheel , Stopper Pawl (Big) with bar pin and spring, Driving Pawl (Small) with bar pin and spring	20	33 kV Ratchet Wheel Old, Stopper Pawl (Big) with bar pin and spring, Driving Pawl (Small) with bar pin and spring
5	TNC SWITCH	21	Complete Set of O Ring and Gasket for 1 Pole
6	33 kV Trip catch Assly.	22	Sealant (Dow-100 Gm)
7	33 kV Tripping shaft assembly	23	Sealant (Dow-300 ml)
8	33 kV Closing shaft assembly	24	33 kV Big Cam Assembly
9	AUXILIARY SWITCH 7NO + 7NC -	25	33 kV Holding catch Assly.
10	"ZZ" MICRO SWITCH	26	DRIVE ROD WITH SLIDE SEAL SHAFT
11	TIMER FOR MOTOR	27	LOCAL/REMOTE SELECTOR SWITCH
12	TEST SERVICE LIMIT SWITCH	28	Motor
13	BRIDGE RECTIFIER	29	Vacuum Interrupter
14	ANTI PUMPING DEVICE	30	Darina Grease
15	BUTTERFLY SWITCH FOR MOTOR CUT-OFF	31	Antirusting Spray
16	MOTOR CUT-OFF SWITCH (CHERRY) for AC		

COMPRESSOR OVERHAULING KIT FOR 145KV/245KV/400KV SF6 GAS CIRCUIT BREAKERS

1. TUNE UP KIT 2. COMPRESOR OIL 3. CONNECTING RODS 4. HP PISTON 5. LP PISTON 6. CRANK SHAFT
7. GLASS INDICATORS 8. OIL SWITCH 9. GASKET SET 10. SAFETY VALVE

TESTING AND COMMISSIONING OF BREAKERS (SCOPE OF WORK)

1. CHECKING OF IR VALUES 2. CHECKING OF CLOSING AND TRIPPING TIMINGS OF THE BREAKERS 3. CRM TEST FOR CHECKING OF CONTACT RESISTANCE 4. COIL RESISTANCE MEASUREMENTS 5. VACUUM CREATION USING VACUUM PUMP MACHINE 6. SF6 GAS FILLING USING FILLING DEVICE 7. GAS LEAKAGE CHECKING USING SF6 GAS LEAKAGE DETECTOR.