

Must Change Items during POH for UNIMAT-3S M/c REVISED BY RDSO (November)						
S. No.	Description	Part No	Qty.	1st POH	2nd POH	3rd or Major repair
I	Bearings					
1	Bearing	GE 25AX	2	√	√	√
2	Bearing	N2315	2	X	√	√
3	Bearing	31313	4	X	√	√
4	Bearing	67820/67883	4	X	√	√
5	Bearing	32009	16	√	√	√
6	Bearing	6209 2RSR	3	√	√	√
7	Bearing	7212	2	X	√	√
8	Bearing	NU 2212	1	X	√	√
9	Bearing	6210 2RS	1	X	√	√
10	Bearing	NJ 2224	8	X	√	√
11	Bearing	NJP 2224	8	X	√	√
12	Bearing	NA 6913	4	√	√	√
13	Bearing	NKI 70/35	4	√	√	√
14	Bearing	51211	4	X	√	√
15	Rocker Bearing	GE40FO	1	√	√	√
II	Engine					
1	New/Overhauled	MWM TBD-232-V 12/KTA-1150 L	1	√	√	√
2	Silencer (Muffler)		1	X	√	√
3	Set of Hoses with clamp for Radiator	set	1	√	√	√
4	Air cleaner Outer & Inner Element	set	1	√	√	√
5	Self-starter		1	X	X	√
6	alternator		2	X	√	√
7	batteries		2	√	√	√
III	ELECTRICAL					
1	Intercom mike	EL-T 631.11A	3	X	X	√
2	Intercom speaker	DR 4.29	3	√	√	√
3	Relay	ELT 7010	2	X	X	√
4	Digital Button	15.02.11	4	X	X	√
5	Depth transducer	ELT 750	4	X	X	√
6	Lining transducer	ELT 609	2	X	X	√
7	Microfuse	ELT 272/4A	25	√	√	√
8	Proximity switch	ELT 1422K	10	√	√	√
9	Derailment sensor	ELT 1151 Q	2	√	√	√
10	All limit switches	LL1/LL2	16	√	√	√

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11	All working lights		18	√	√	√
12	All Tail Lights		4	√	√	√
13	All head lights	24 VDC/70-75 W	6	√	√	√
14	Electric horn		3	√	√	√
15	Cabin fan		6	X	√	√
16	Cabin tube light		6	√	√	√
17	Electrical cable channel		6	X	√	√
18	NC/NO Cartridge		50	√	√	√
19	Indication bulbs		25	√	√	√
20	Engine hour meter	EL-T 1255.00B	1	X	X	√
21	Volt meter	EL-T 1261.00A	1	X	X	√
22	Amperemeter	EL-T 7013.00B	1	X	√	√
23	Transducer socket straight		2	X	X	√
24	Transducer socket 90°		4	X	X	√
25	Servo socket		3	X	X	√
26	Pendulum socket		2	X	X	√
27	Silicon oil	AK 5000(ltr)	1	√	√	√
28	Push button	ELT 1050 C4	10	√	√	√
29	2 Way Joy stick	ELT 1058.22	8	√	√	√
30	4 way joy stick	ELT 1058.24	4	√	√	√
31	Chord wire	2 mm(in mtr)	100	√	√	√
32	Flasher light		2	X	√	√
33	Hooter 24 Volts		1	√	√	√
34	All cables externaly exposed	mtr	1000	X	√	√
35	rpm meter	elt 1264	2	X	X	√
36	tacho meter	elt 1263	2	X	X	√
37	Solenoid coupler	ELT7078/7079	40	√	√	√
38	RPM sensor		1	√	√	√
39	Speedometer sensor		1	√	√	√
40	Temerature Sensor		2	√	√	√
41	Pressure gauge Sensor	0-10 Bar	1	√	√	√
42	Pressure gauge Sensor	0-25 Bar	1	√	√	√
43	Programmer Battary	75AH	2	√	√	√
IV	HYDRAULICS					
A	Pumps					
1	Pump	HY 831x38x17 LI	1	√	√	√
2	Pump	HY 831x20x14 LI	1	√	√	√
3	Pump	HY 830x25x25 RE	1	√	√	√
4	ZF Gear Pump	7047955123	1	√	√	√

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B	Motors					
1	Motor	HY 916N 630	1	X	√	√
2	Motor	HY 916N 500	2	X	√	√
3	Motor	HY 701N22 LI	1	X	√	√
4	Motor	HY 701N22 RE	1	X	√	√
5	Motor	HY 701N10 RE	2	√	√	√
6	Motor	HY 701N17 LI	1	√	√	√
7	Motor	HY 90N-42	1	√	√	√
C	Hydraulic Valves					
1	Proportional valve	HYN 25 RPE 325 TD	2	√	√	√
2	Servo valve	EL-T 76.00	3	√	√	√
3	Lagic valve	HY 151.171	2	√	√	√
4	4 Way Valve	HY 22. RSJET	2	√	√	√
5	4 Way Valve	HY 16 RSDDET	2	X	√	√
6	4 Way Valve	HYV 10 RSEET	2	X	√	√
7	4 Way Valve	HY 10 RSJ	2	√	√	√
8	4 Way Valve	HY 10 RSG	2	X	√	√
9	4 Way Valve	HY 10 RSX	1	X	√	√
10	4 Way Valve	HY 10 RSDA	5	X	√	√
11	4 Way Valve	HY 6 RSX	2	X	√	√
12	4 Way Valve	HY 6 RSD	4	X	√	√
13	4 Way Valve	HY 6 RSJ	14	√	√	√
14	4 Way Valve	HY 6 RSE	2	X	√	√
15	All unloader/ relief / safety/ check valves to be replaced	HY 511-11	1	√	√	√
16	All unloader/ relief / safety/ check valves to be replaced	HY 511-12	1	√	√	√
17	All unloader/ relief / safety/ check valves to be replaced	HY 511-06	2	X	√	√
18	All unloader/ relief / safety/ check valves to be replaced	HY 511-14	2	X	√	√
19	All unloader/ relief / safety/ check valves to be replaced	HY 511-15	1	X	√	√
20	All unloader/ relief / safety/ check valves to be replaced	HY 511.08	1	X	√	√
21	All unloader/ relief / safety/ check valves to be replaced	HY 151.06	2	X	√	√
22	All unloader/ relief / safety/ check valves to be replaced	HY 100.02	3	X	√	√

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23	All unloader/ relief / safety/ check valves to be replaced	HY 151-127	2	√	√	√
24	All unloader/ relief / safety/ check valves to be replaced	HY 151-19	1	√	√	√
25	All unloader/ relief / safety/ check valves to be replaced	HY 154-07	1	X	X	√
26	All unloader/ relief / safety/ check valves to be replaced	Hy 155-11	2	X	X	√
27	All unloader/ relief / safety/ check valves to be replaced	Hy 155-12	10	X	X	√
28	All unloader/ relief / safety/ check valves to be replaced	HY 152-07	6	X	X	√
29	All unloader/ relief / safety/ check valves to be replaced	HY 55 R	2	X	X	√
30	All unloader/ relief / safety/ check valves to be replaced	HY 56 R	3	X	X	√
D	Hyd. filters					
1	Hyd Filters	HYS 501.360.150 ES	3	√	√	√
2	Hyd Filters	HYR 501.330.10 ES	2	√	√	√
3	Hyd Filters	DL 40.60.3 ES	2	√	√	√
4	Hyd Filters	HYD 501.225.25 ES	1	√	√	√
5	Hyd Filters	HYD 501.32.10 ES	1	√	√	√
6	Hyd Filters	HYS 501.460.150 ES	1	√	√	√
7	Hyd Filters	HYS 501.5.10 ES	2	√	√	√
8	Hyd Filters	HYD 508.5.01 ES	2	√	√	√
9	Screw mesh filter	FSB 25. M	3	√	√	√
E	Hyd Cylinders					
1	T.unit up/dn cylinder	HZDGB.080.040.0760.1.001	2	√	√	√
2	Support cylinder	UD 50.550	2	√	√	√
3	Hook cylinder	UD 313.3305.LI,RE	2	√	√	√
4	Hook In out cylinder	HZGB 050.025.0580.1.001	2	√	√	√
5	Support cylinder	UD 50.2200	8	√	√	√
6	Rail clamp cylinder	HZGB 063.036.0100.1	4	√	√	√
7	Support cylinder	HZMB 080.036.0210.2.024	4	√	√	√
8	Brake cylinder	UD 216-450A	2	X	√	√
9	Lining cylinder	HZMB.100.045.540.2.001	2	X	√	√
10	Track lifting cylinder	HZGB.125.050.0435.1.001	2	X	√	√
11	All other hydraulic cylinders seals to be replaced	set	1	√	X	X
12	All pressure gauges to be replaced		14	X	X	√

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F	Hoses					
1	All Hydraulic hoses	Suction, return, medium pressure & high pressure.(set)	1	X	√	√
2	All Pneumatic hoses	6.3mm & 12.5mm(set)	1	√	√	√
V	General					
1	Bracket	UD 67.1802	2	X	√	√
2	Nut	UD 65.1177	2	√	√	√
3	Shim	90x75x1.6BIMS	6	√	√	√
4	V.Ring	V 40.CPD 510	2	√	√	√
5	Magiee Flexible Washer	741444	16	√	√	√
6	Magiee Flexible Washer	741401	10	√	√	√
7	Hook bush	CU 311.3019	8	√	√	√
8	Hook bush	CU 311.3020	4	√	√	√
9	Hook	UD 313.1304	2	√	√	√
10	Roller	UD 313.1000.III SP.1668/1676(set)	2	X	√	√
11	Roller	UD 313.2700.IV SP 1668/1676(set)	2	X	√	√
12	Lever	UD 313.1805	1	X	X	√
13	Lever	UD 313.1806	1	X	X	√
14	Rail clamp disc	UD 311.505	4	√	√	√
15	Brake block	WN 146.730.K3	8	√	√	√
16	Shock Absorber	WN 62.01ZD 5,7KN	8	X	√	√
17	Magiee springs	732073-MG 670-S6	16	√	√	√
18	Joint head	HZ 70.01-8	4	√	√	√
19	Pinion	U 64.1303	1	X	X	X
20	Flange	UD 64.76-(180 mm)	2	X	X	√
21	Cone bearing	571801313-50SH	12	√	√	√
22	Flange	WN 151-120.12/24-1	1	X	√	√
23	Spring	MSW 100.1101.31	12	√	√	√
24	Brake linkage rod assy	set	2	X	X	√
25	Roller	WN 121-18H7.35.33-1	8	√	√	√
26	Bolt	WN 106-16H 11.145-1	4	√	√	√
27	Slide plate	UD 67.2108	8	√	√	√
28	Knuckle joint	UD 311.1205ST KL-MINUS(set)	2	X	√	√
29	Spring	UD 313.3850.8	4	X	√	√
30	Torque arm plate	UD 63.1051	1	X	√	√

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31	Bush	PG 50 55 50	4	√	√	√
32	Bush	PG 50 55 30	4	√	√	√
33	Clives	HZ 60.01	2	√	√	√
34	Tamping Unit	New/Overhauled(1 set)	1	√	√	√
35	Lifting Unit	New/Overhauled(1 set)	2	√	√	√
36	Oil seal	85-105-13	2	√	√	√
37	Oil seal	7 ^{1/2} ZX8 ^{1/2} ZX 3/4Z	16	√	√	√
38	Oil seal	195-220-13	8	√	√	√
39	Oil seal	75-95-10	2	√	√	√
40	Isolator vibration	4020347	4	X	√	√
41	Operator seat		6	X	√	√
42	Wiper double arm assy.		2	√	√	√
43	Cabin flooring/matting		1	√	√	√
44	Cabin Interior		1	√	√	√
45	Wiper single arm assy		1	√	√	√
46	Slide plate	UD61.402.PAS LX	4	X	√	√
47	Disc spring	UD61.605-55 SHORE	24	X	√	√
48	Wheels	WN01-730.184.IND	8	X	√	√
49	Bearing	NU2213	1	X	√	√
50	Bearing	31313	2	X	√	√
51	Bearing	30311	1	X	√	√
52	Bearing	32213	1	X	√	√
53	Dmaping blocks	GE 1576	14	X	√	√
54	Emergency backup pump	GLR 30	1	√	√	√
VI	Pneumatics					
1	Pn Cylinder	PN 2ZK-F 50-18-70	2	√	√	√
2	Working Cylinder	90233	1	√	√	√
3	ACC Cylinder	WM 388	1	X	√	√
4	ACC Valve	WM 607	2	X	√	√
5	Brack Cylinder seal	12"	2	√	√	X
6	Brack Cylinder		2	X	X	√
7	Air unloader valve		1	√	√	√
8	Pn Regulator	90188	6	√	√	√
9	4 Way valve	90254	2	X	√	√
10	Air Oiler	90180	1	√	√	√
11	Air Drier	90187/09	1	X	√	√
12	Air Drier kit			√	X	X
13	Water seperator	90181	1	√	√	√
14	Pn horn		2	√	√	√

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15	Pn Valve	90204	1	√	√	√
16	Pn Valve	90362	1	X	√	√
17	Pn Valve	90342	2	X	√	√
18	Pn Valve	90343	2	X	√	√
19	Pn valve	G 53014	22	√	√	√
20	Pn valve	G53024 YTF	1	√	√	√
21	Pressure gauge	90283/90284	2	X	√	√
22	Over flow valve	90247	1	X	√	√
23	Cooling coil	DL 90-37	1	X	√	√
24	All Pn cylinder's seals to be replaced	set	20	√	X	X
25	Hose connection	90267	1	X	X	√
26	Driver Brake Valve	90366	2	X	√	√
27	Brake Valve	90370/90364	2	X	√	√
28	All Pn cylinder's to be replaced			X	√	√