

**Annexure to IOH Kit for Panto Graph Type AM-12**

PL No. 23991173

IOH KIT FOR AM 12/ IR 01 & PAN PANTOGRAPHS

38 items 224 nos.

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Sl. No	Description	Qty.	M/s SIL Part No	M/s GSEC Part No.	M/s Contransys Part No.
<b>1</b>	<b>BASE FRAME</b>				
i)	Rubberised Thrust Block	2	S0220110201	GSEC/PANTO/051	C0130
ii)	Nut M14	2	S0071811400	GSEC/PANTO/N-04	C0010002
iii)	Spring Washer	2	S0071511401	GSEC/PANTO/SW-05	C0010001
<b>2</b>	<b>PEDESTAL ASSEMBLY</b>				
i)	Joint Perfect	2	S0221136301	GSEC/PANTO/055	C0240
<b>3</b>	<b>LOWER ARM ASSEMBLY</b>				
i)	Shunt	4	S0220133204	GSEC/PANTO/058	C0320
ii)	Hex. Head Screw Size M8 x 25	6	S0070830816	GSEC/PANTO/B-03	C0030001
iii)	Plane Washer	10	S0071600901	GSEC/PANTO/PW-04	C0030002
iv)	Spring Washers	6	S0071510801	GSEC/PANTO/SW-02	C0030003
v)	Hex Head Bolt, Size M8x25	4	S0072820825	GSEC/PANTO/B-03	C0030004
vi)	Nut	4	S0071810800	GSEC/PANTO/N-01	C0030005
vii)	Spring Washer	4	S0071510801	GSEC/PANTO/SW-02	C0030006
viii)	Adjusting Screw	4	S0220131600	GSEC/PANTO/057	C0330
ix)	Nut	4	S0220133801	GSEC/PANTO/154	C0340
<b>4</b>	<b>MAIN SPRING ASSEMBLY</b>				
i)	Pin	6	S0221121201	GSEC/PANTO/077	C0360
ii)	Spring Washer M12	6	S0071511201	GSEC/PANTO/SW-04	C0060001
iii)	Nut M12	6	S0071811205	GSEC/PANTO/N-03	C0060002
iv)	Split Pin Size Ø 2.5x18L	6	S0072010225	GSEC/PANTO/SP-03	C0060001
v)	Screw	2	S0222137202	GSEC/PANTO/010	C0830
vi)	Nut	4	S007811400	GSEC/PANTO/N-04	C0060004
<b>5</b>	<b>CENTER PEDESTAL ASSEMBLY</b>				
i)	Sealing Felt Size 6x6x135L	2	S0082240605	GSEC/PANTO/F-03	C0040001
ii)	Shunt	1	S0220133204	GSEC/PANTO/078	C0450
iii)	Hex. Head Screw, Size M8x25	1	S0070830816	GSEC/PANTO/B-03	C0040002
iv)	Spring Washer	1	S0071510801	GSEC/PANTO/SW-02	C0040003
v)	Plane Washer	1	S0071600901	GSEC/PANTO/PW-04	C0040004
vi)	Pin	1	S0221121001	GSEC/PANTO/085	C0420
vii)	Circlip	1	S0082040584	GSEC/PANTO/007	C0430
viii)	Thrust Washer A	1	S0221120801	GSEC/PANTO/008	C0490
ix)	Thrust Washer B	1	S0221120901	GSEC/PANTO/009	C04100
x)	Grease Nipple	1	S0082205971	GSEC/PANTO/103	C0440
xi)	Pin	4	S00724400516	GSEC/PANTO/005	C0040005
xii)	Split Pin	1	S0072010336	GSEC/PANTO/SP-04	C0040006
xiii)	Roll Pin	1	S0072050430	GSEC/PANTO/RP-01	C0470
<b>6</b>	<b>MIDDLE ARTICULATION</b>				
i)	Shunt	1	S0220133204	GSEC/PANTO/106	C0450
ii)	Shunt	2	S0220133203	GSEC/PANTO/105	C0320
iii)	Bimetal Washer	2	S0220131503	GSEC/PANTO/070	C01240
iv)	Bimetal Plate	1	S0220025403	GSEC/PANTO/054	C01250

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v)	Stud,	1	S0221125300	GSEC/PANTO/018	C01280
vi)	Spring Washer	1	S0071510801	GSEC/PANTO/SW-02	C00120001
vii)	Nut Size M 8	1	S0071810800	GSEC/PANTO/N-01	C00120002
viii)	Square Head Bolt	2	S0070870830	GSEC/PANTO/B-03	C00120005
ix)	Plane Washer	2	S0071600901	GSEC/PANTO/PW-04	C00120006
x)	Spring Washer&	2	S0071510801	GSEC/PANTO/SW-02	C00120007
xi)	Hex Nut	2	S0071810800	GSEC/PANTO/N-01	C00120008
xii)	Hex Head Bolt Size M12x100L	4	S0072821290	GSEC/PANTO/B-08	C00120009
xiii)	Spring Washer	4	S0071511201	GSEC/PANTO/SW-04	C00120010
xiv)	Hex Nut	4	S0071811200	GSEC/PANTO/N-03	C00120011
xv)	Center Swing Ling	1	S0221124901	GSEC/PANTO/043	C01210
xvi)	Sheet Cover	1	S0221125000	GSEC/PANTO/146	C01220
xvii)	Self Tapping Screw	4	S0070318108	GSEC/PANTO/R-01	C00120004
xviii)	Cover	2	S0220130401	GSEC/PANTO/090	C0250
xix)	Cover Retaining Ring	2	S0220130800	GSEC/PANTO/053	C0260
xx)	Pin,	1	S0221121001	GSEC/PANTO/069	C0240
xxi)	Plane Washer,	1	S00716601601	GSEC/PANTO/PW-02	C00120012
xxii)	Spring Washer	1	S0071511401	GSEC/PANTO/SW-05	C00120013
xxiii)	Hex Nut	1	S0071511401	GSEC/PANTO/N-04	C00120014
xxiv)	Split Pin Size Ø3x 25 L	1	S0072010336	GSEC/PANTO/SP-04	C00120015
xxv)	Grease Nipple	1	S0082205971	GSEC/PANTO/103	C0440
xxvi)	Circlip	1	S0082040584	GSEC/PANTO/007	C01270
XXVI)	Screw	2	S0222137202	GSEC/PANTO/010	C0830
xxvi)	Circlip	2	S0082040590	GSEC/PANTO/038	C0480
<b>7</b>	<b>MIDDLE ARTICULATION ARM</b>				
i)	Lock Plate	1	S021125200	GSEC/PANTO/082	C01230
ii)	Lock Washer SKF-HM5	2	S0077510305	GSEC/PANTO/020	C01340
iii)	Lock Nut SKF-MB5	2	S0077510405	GSEC/PANTO/021	C01350
<b>8</b>	<b>LONGITUDINAL TUBE</b>				
i)	Rubber Bush	2	S0221138901	GSEC/PANTO/151	C01430
ii)	Plug	2	S0221120201	GSEC/PANTO/015	C01420
<b>9</b>	<b>UPPER ARTICULATION</b>				
i)	Shunt	2	S0220133203	GSEC/PANTO/104	C0320
ii)	Bi-Metal Washer	4	S0220131503	GSEC/PANTO/070	C01240
iii)	Top mounting Pt. 'A' Loco	1	S0221115401	GSEC/PANTO/022	C015210
iv)	Top mounting Pt. 'B' Loco	1	S0221117601	GSEC/PANTO/022	C015240
v)	Cylinder Support Loco	2	S0221126201	GSEC/PANTO/025	C01540
vi)	Special Washer	2	S0072820845	GSEC/PANTO/005	C01550
vii)	Hex. Head Bolt Size M8x25L	2	S0072820845	GSEC/PANTO/B-03	C00120003
viii)	Plain Washer	2	S0071600901	GSEC/PANTO/PW-04	C00150002
ix)	Spring washer	2	S0071510801	GSEC/PANTO/SW-02	C00150003
x)	Hex Nut M8	2	S0071810800	GSEC/PANTO/N-01	C00150004
xi)	Hex Head Bolt	2	S0072821270	GSEC/PANTO/B-04	C00150005
xii)	Spring washer	2	S0071511201	GSEC/PANTO/SW-02	C00150006
xiii)	Hex Nut	2	S0071811205	GSEC/PANTO/N-01	C00150007

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xiv)	Hex. Head Bolt	2	S0072821265	GSEC/PANTO/R-07	C00150009
xv)	Spring washer	2	S0071511201	GSEC/PANTO/SW-04	C00150009
xvi)	Hex. Nut	2	S0071811205	GSEC/PANTO/N-03	C00150010
<b>10 SUPPORT ROD CYLINDER ASSEMBLY</b>					
i)	Spring SKEL 4682	2	S221125801	GSEC/PANTO/061	C15660
ii)	Sealing Felt Size 6mm	2	S0082240605	GSEC/PANTO/F-01 & F-02	C00150011
iii)	Split Pin	2	S0072010322	GSEC/PANTO/SP-05	C00150012
iv)	Bush Big	2	S0220133001	GSEC/PANTO/060	C015630
v)	Bush Small	2	S0220133101	GSEC/PANTO/116	C015640
vi)	Bush End Cap	2	S0220131301	GSEC/PANTO/069	C01620
vii)	Pin	2	S0221125701	GSEC/PANTO/027	C015620
viii)	Plane Washer	2	S0071601101	GSEC/PANTO/PW-05	C00150013
ix)	Split Pin	2	S0072010440	GSEC/PANTO/SP-04	C00150014
<b>11 BOW ASSEMBLY WITH METALISED CARBON STRIPS</b>					
i)	Horn with Bush	2	S0221119601	GSEC/PANTO/138A	C01610
ii)	Metalised Carbon Strips complete with screws, washers & nuts	2	S0221138801	GSEC/PANTO/152	C01670
<b>12 MECHANISM ASSEMBLY</b>					
i)	Pin	2	S0221128200	GSEC/PANTO/087	C01760
ii)	Bush	2	S0221128301	GSEC/PANTO/088	C01770
iii)	Split Pin	2	S0072010440	GSEC/PANTO/SP-05	C0170001
<b>ITEMS NOT MENTIONED IN IOH KIT BUT THESE ARE REPLACED DURING IOH AT ELS/NKJ</b>					
<b>13 SET OF SPLIT PIN</b>					
i)	Split pin for push rod assly	1	S0072010100	GSEC/PANTO/Sp-07	C0090004
ii)	Split pin for upper distance piece assly	2	S0072010321		
iii)	Split pin for steady link assly	1	S0072010120		

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SE/STORE

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ADEE/TRS/NKJ

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Sr.DEE/TRS/NKJ