

## AMENDMENTS TO AIR BRAKE CATALOGUE IN MONTH OF SEPTEMBER 2016

SR NO	GROUP	SUBGROUP	DIAGRAM NO	PAGE NO IN CAT.	SR NO IN CAT.	DESCRIPTION	DATE OF UPDATE	REVISION
1	AIR BRAKE	AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS	1	2 , 4	A16 , A85	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
2	AIR BRAKE	AIR BRAKE SYSTEM 16 T 4 X 2 ABS	3	6	A16 , A85	PART NO CORRECTED	16.09.2016	01/11/16
3	AIR BRAKE	AIR BRAKE SYSTEM 25 T 6 X 2 NON ABS	5	9 , 10	A16 , A85	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
4	AIR BRAKE	AIR BRAKE SYSTEM 25 T 6 X 2 ABS	8	13	A16 , A85	PART NO CORRECTED	16.09.2016	01/11/16
5	AIR BRAKE	AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS	11	17	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
6	AIR BRAKE	AIR BRAKE SYSTEM 25 T 6 X 4 ABS	14	23	A16 , A85	PART NO CORRECTED	16.09.2016	01/11/16
7	AIR BRAKE	AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS	17	27	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
8	AIR BRAKE	AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS	23	34	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
9	AIR BRAKE	AIR BRAKE SYSTEM 40T 40.220 (4X2)	29	41	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
10	AIR BRAKE	AIR BRAKE SYSTEM 40T 40.280 (4X2)	32	45	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
11	AIR BRAKE	AIR BRAKE SYSTEM 49 T 49.220	35	51	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
12	AIR BRAKE	AIR BRAKE SYSTEM 49 T 49.280	38	56	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16
13	AIR BRAKE	AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP NON ABS	41	62	A16	SUPERCEDED PART NO (KIT) ADDED	16.09.2016	01/11/16

# AIR BRAKE

## CONTENTS

SR	DESCRIPTION	DIAGRAM NO.
1	AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS	01 TO 02
2	AIR BRAKE SYSTEM 16 T 4 X 2 ABS	03 TO 04
3	AIR BRAKE SYSTEM 25 T 6 X 2 NON ABS	05 TO 07
4	AIR BRAKE SYSTEM 25 T 6 X 2 ABS	08 TO 10
5	AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS	11 TO 13
6	AIR BRAKE SYSTEM 25 T 6 X 4 ABS	14 TO 16
7	AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS	17 TO 19
8	AIR BRAKE SYSTEM 31 T 8 X 2 ABS	20 TO 22
9	AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS	23 TO 25
10	AIR BRAKE SYSTEM 31 T 8 X 4 ABS	26 TO 28
11	AIR BRAKE SYSTEM 40 T 40.220 (4 X 2)	29 TO 31
12	AIR BRAKE SYSTEM 40 T 40.280 (4 X 2)	32 TO 34

# AIR BRAKE

## CONTENTS

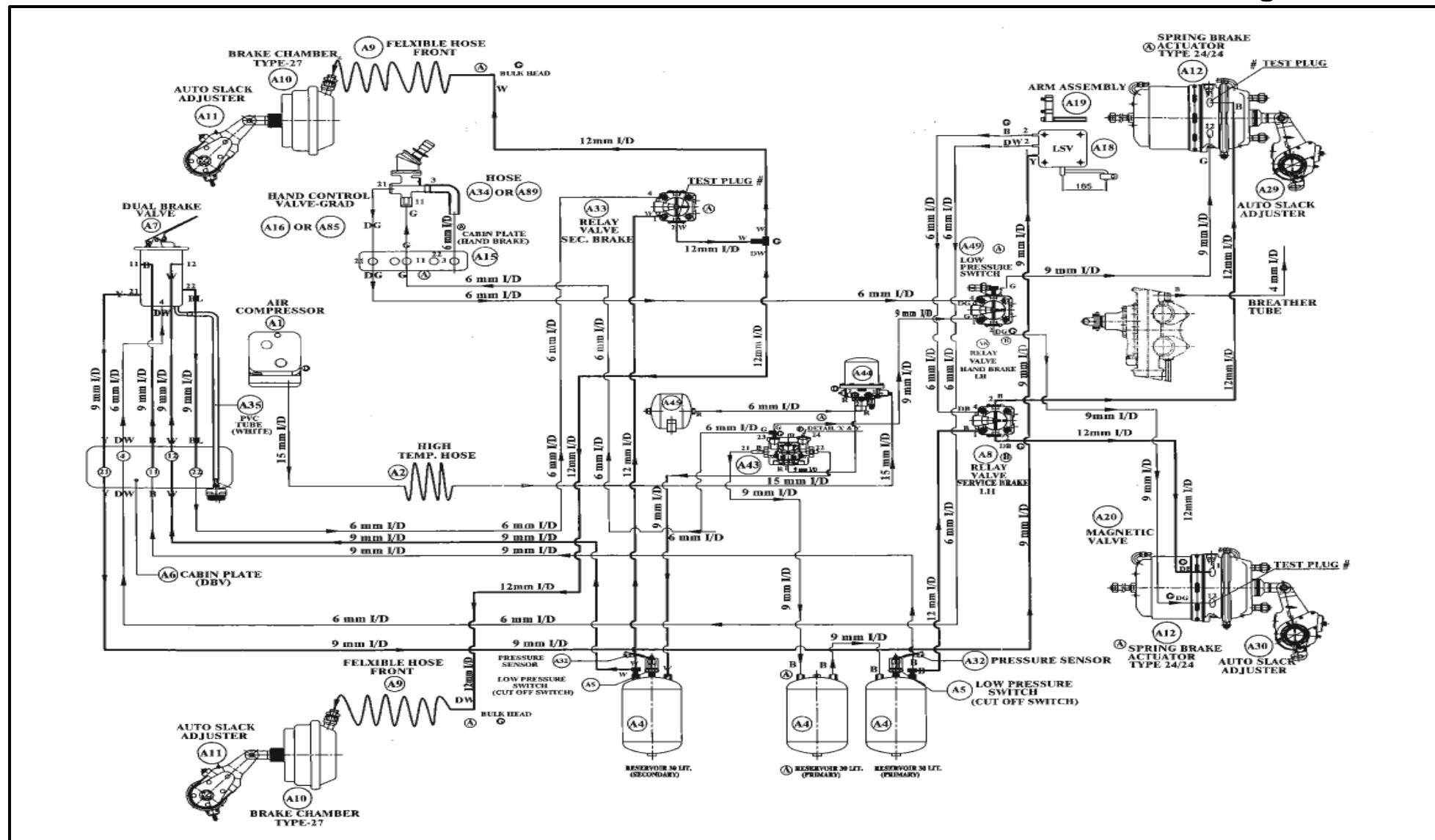
SR	DESCRIPTION	DIAGRAM NO.
13	AIR BRAKE SYSTEM 49 T 49.220	35 TO 37
14	AIR BRAKE SYSTEM 49 T 49.280	38 TO 40
15	AIR BRAKE SYSTEM 25 T 25.220 DS47 TP NON ABS	41 TO 42
16	AIR BRAKE SYSTEM 25 T 25.220 DS47 TP ABS	43 TO 44
17	AIR BRAKE SYSTEM 25 T 25.300 BS IV	45 TO 46
18	AIR BRAKE SYSTEM 16 T 16.300 BS IV	47 TO 48
19	AIR BRAKE SYSTEM BUS	49
20	AIR SUSPENSION PNEUMATIC CONNECTION BUS	50
21	AIR DRYER FOR 230 CC AIR COMPRESSOR	51
22	AIR DRYER FOR 318 CC AIR COMPRESSOR	52
23	AIR COMPRESSOR 318 CC	53
24	REPAIR KITS	54

# AIR BRAKE

## **CONTENTS**

# AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS

Diagram No. 01



**AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS**
**Diagram No. 01**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7003	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	HIGH TEMP HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITRES)	3		ALTERNATE 64.51401-0025
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	6		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	6		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	6		
-	64.97445-0003	CLAMP ASSY FOR AIR TANK MTG	6		
-	64.90020-0247	BOLT M8X80 DIN931-8.8, MAN183-B1	6		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	06.11240-0404	HEX. NUT BM8-8 MAN183-B1 M711260	6		
A5	64.25520-0001	LOW PRESSURE SWITCH	2		
A6	64.98181-0005	CABIN PLATE (DUAL BRAKE VALVE)	1		
A7	81.52130-6202	DUAL BRAKE VALVE	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	4		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS )	1		
Page No. 01		REVISION NO. 00			VERSION: 00

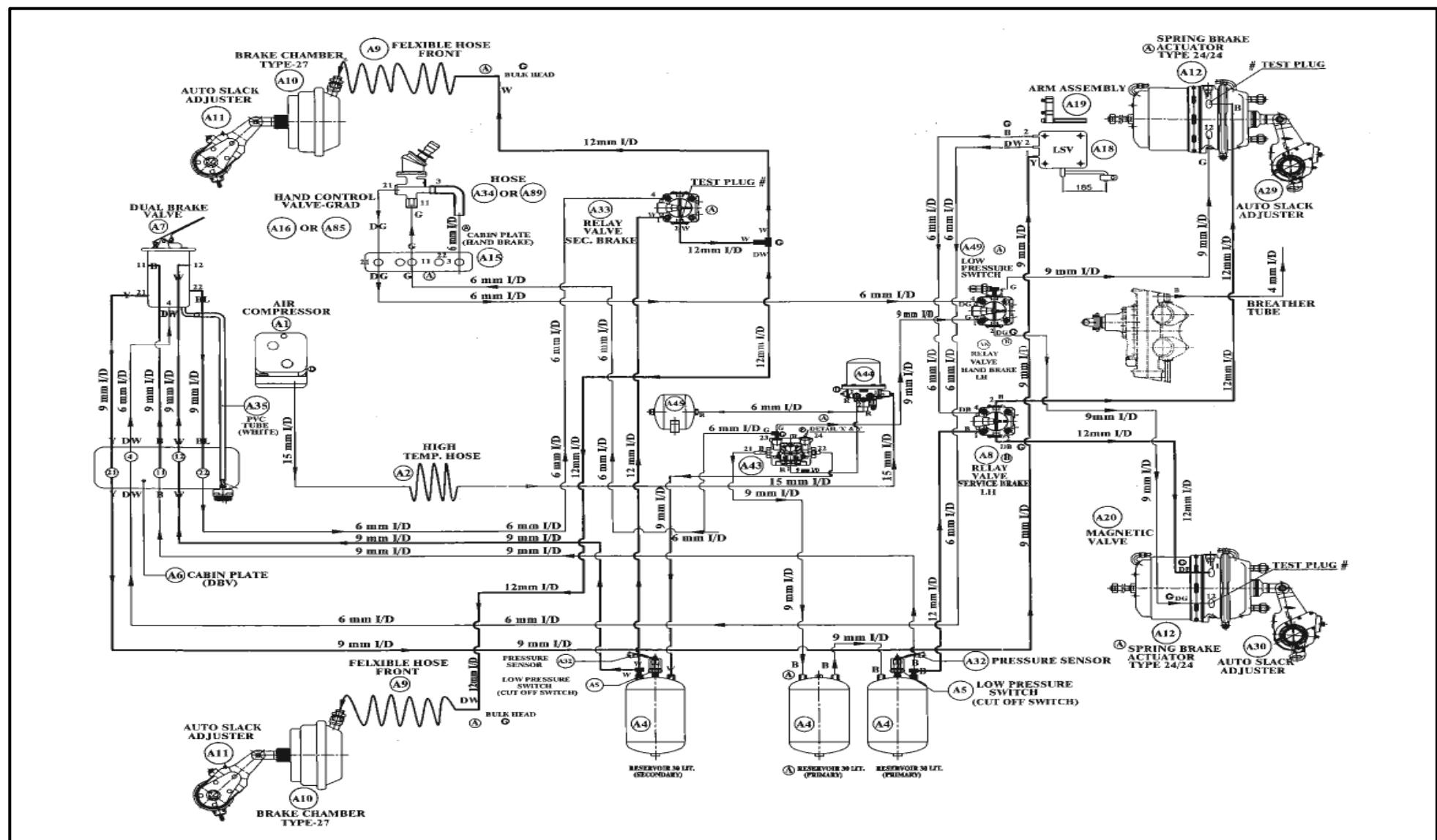
## AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS

**Diagram No. 01**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
-	64.98110-0039	ELBOW FOR FRONT BRAKE HOSE	2		
-	64.90501-0032	NUT M22X1.5 DIN936-8 BTS:170202-22	2		
A10	64.51101-6001	BRAKE CHAMBER TYPE 27	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER (L = 160MM)	2		
A12	64.50410-6006	SPRING BRAKE ACTUATOR	2		
A15	64.98181-0006	CABIN PLATE (HAND BRAKE VALVE)	1		
A16	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		VALID FOR VEHICLES FROM VIN : 13355
A18	64.52161-6001	AUTOMATIC LOAD SENSING VALVE (185MM)	1		
A19	64.43715-6003	ARM ASSEMBLY (105MM)	1		
A20	81.52160-6115	MAGNETIC VALVE	2		
-	64.90020-0086	HHS M6 X 15 DIN 933 - 8.8 BTS 170202.22	4		
Page No. 02		REVISION NO. 01/09/16			VERSION: 00

# AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS

## Diagram No. 01



## AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS

**Diagram No. 01**

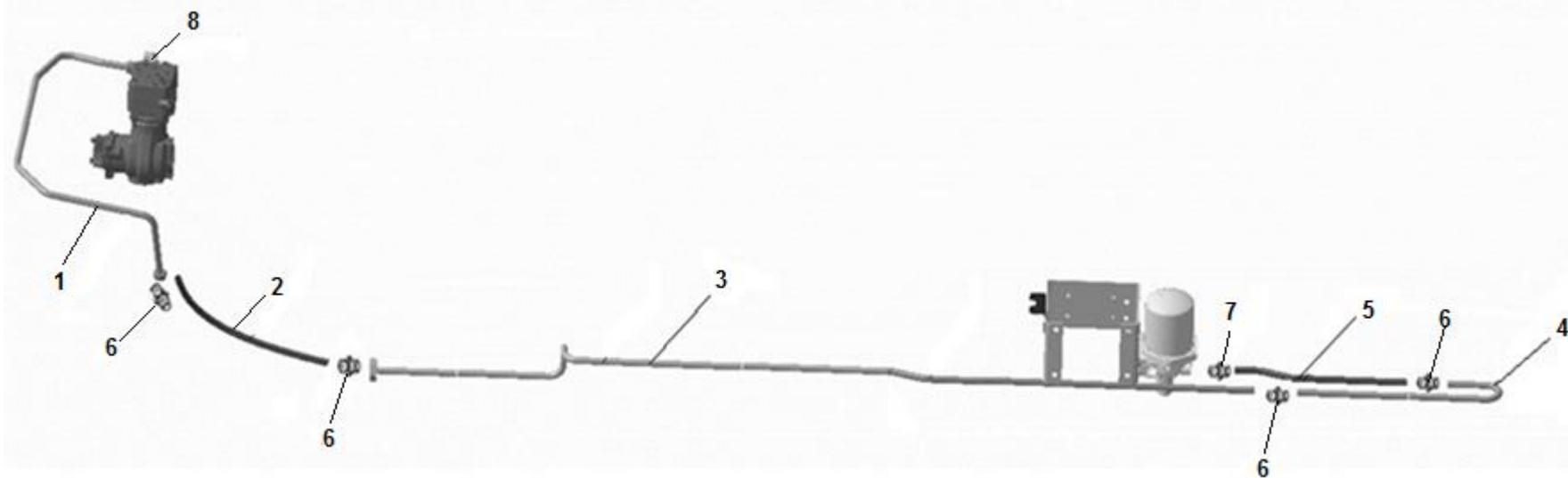
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
-	64.90801-0046	SPRING WASHER B6 DIN127 A3C	4		
-	64.90710-0025	PL WASHER A6.4 DIN125-ST BTS170202.12	4		
-	64.90501-0036	HEX NUT M6X1.00 DIN 934-8 BTS:170202.22	4		
A21	64.15600-6002	EXHAUST BRAKE VALVE (6 CYL)	1		
A29	81.50610-6210	AUTOMATIC SLACK ADJUSTER RH REAR	1		
A30	81.50610-6211	AUTOMATIC SLACK ADJUSTER LH REAR	1		SUPERCEDED BY 64.50610-6009
A32	64.27421-0015	PRESSURE SENSOR	2		
A33	64.52116-6005	ONE PORT CLOSED RELAY VALVE WITH CONTROL PORT NG8	1		
A34	64.94299-0026	HOS0045	1		
A35	64.94299-0027	PVC TUBE (WHITE)	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A43	64.52151-6002	QUADRUPLE SYSTEM PROTECTION VALVE	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
-	64.41710-0185	BKT FOR AIR DRYER + PURGE TANK + QSPV	1		
Page No. 03		REVISION NO. 01/04/16			VERSION: 00

**AIR BRAKE SYSTEM 16 T 4 X 2 NON ABS****Diagram No. 01**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A45	64.51401-0003	PURGE TANK 7.5 LITRES	1		SUPERCEDED BY 64.51401-6011
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A85	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		VALID FOR VEHICLES FROM VIN : 13355
-	64.94299-0035	POLYAMIDE TUBE (2 MM ID)	1		
-	64.94299-0036	POLYAMIDE TUBE (6 MM ID)	1		
-	64.94299-0037	POLYAMIDE TUBE (9 MM ID)	1		
-	64.94299-0038	POLYAMIDE TUBE (12 MM ID)	1		
-	64.94299-0039	POLYAMIDE TUBE (15 MM ID)	1		
-	64.99125-0150	PIPE PNEUMATIC CONNECTION HBV22-AUX.TANK	1		
Page No. 04		REVISION NO. 01/09/16			VERSION: 00

## AIR BRAKE SYSTEM 16 T 4 X 2 - NON ABS

Diagram No. 02

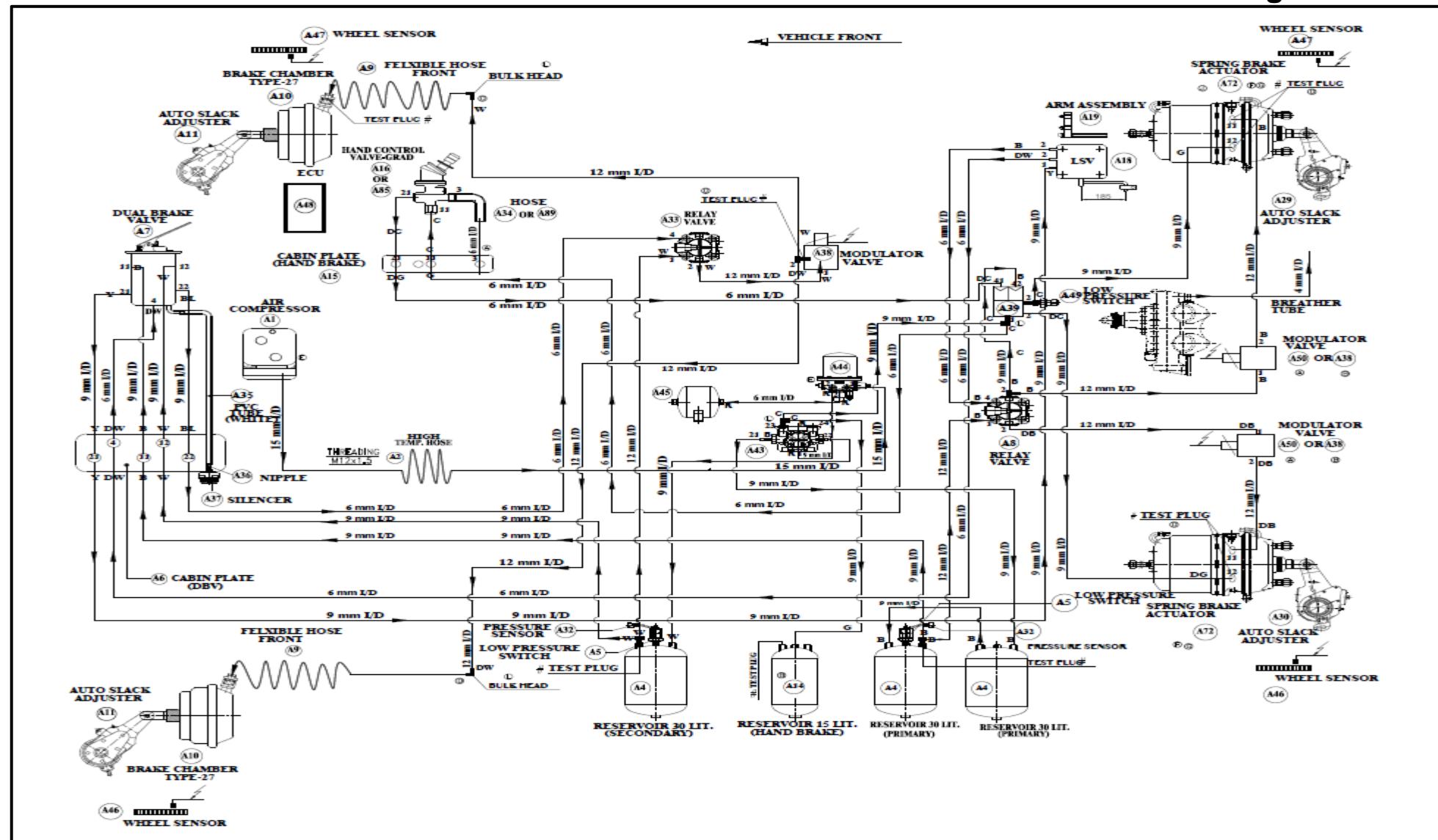


**AIR BRAKE SYSTEM 16 T 4 X 2 - NON ABS****Diagram No. 02**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5026	PIPE ASSY (FLEX.HOSE TO U BEND PIPE )	1		
4	64.96320-5024	PIPE ASSY (U BEND)	1		
5	64.96320-5038	PIPE ASSY (OIL SEPARATOR TO AIR DRIER)PI	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4		
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1		
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 05		REVISION NO. 01/08/16			VERSION: 00

# AIR BRAKE SYSTEM 16 T 4 X 2 ABS

Diagram No. 03



## AIR BRAKE SYSTEM 16 T 4 X 2 ABS

**Diagram No. 03**

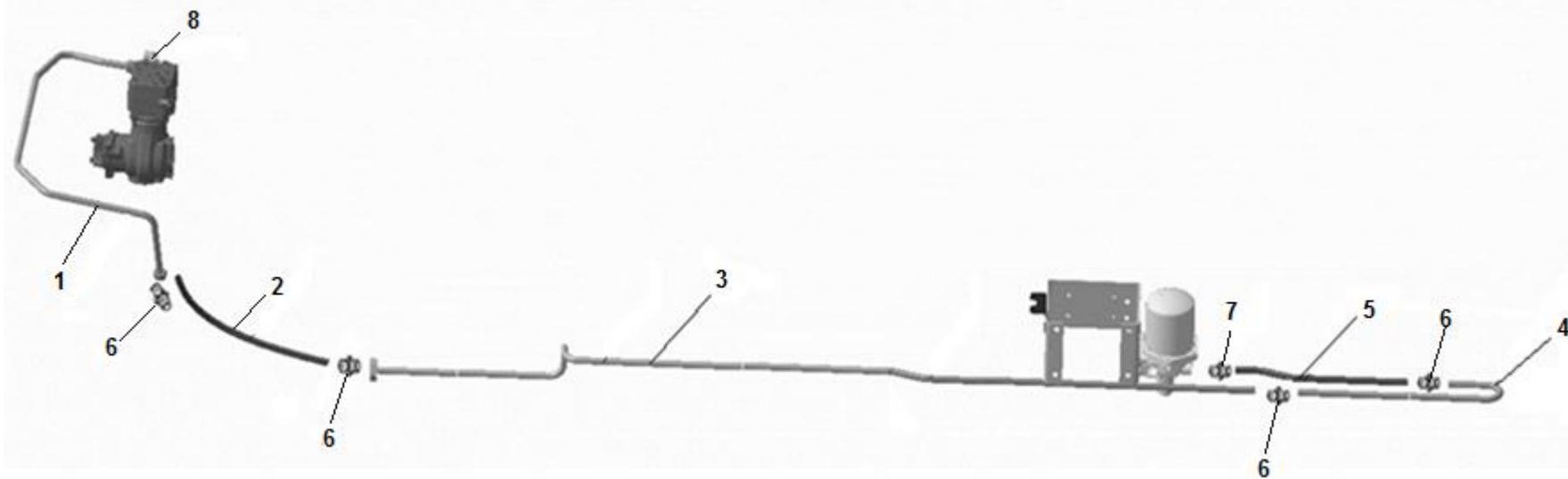
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	FOR VEHICLES AFTER VIN : 14071.ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	3		ALTERNATE 64.51401-6003
A5	64.25520-0001	LOW AIR PRESSURE SWITCH	2		
A6	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A6	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A7	64.52130-6049	ASSY DUAL BRAKE VALVE W CONNECTORS	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A10	64.51101-6001	FRONT BRAKE CHAMBER TYPE 27	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	2		
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HAND BRAKE CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		ALTERNATE 81.98181-0175
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A18	64.52161-6001	AUTOMATIC LOAD SENSING VALVE (185MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	1		
A21	64.15600-6002	ASSY EXHAUST BRAKE W CONNECTOR	1		ALTERNATE 81.15600-6089
A22	64.30725-6006	CLUTCH BOOSTER 3"	1		CONSISTS OF 64.30725-6006 & 64.98110-0026

A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A29	64.50610-6008	AUTO. SLACK ADJUSTER RH	1		
A30	64.50610-6009	AUTO. SLACK ADJUSTER LH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOLENOID MODULATOR VALVE FRONT W CONNECT	1		ALTERNATE 64.52452-6004 . FOR ABS VEHICLES FROM VIN : 15625
A39	64.52116-6002	MSP 3/94 REPAIR KIT	1		
A43	64.52151-6002	ASY QSP VALVE W BLEEDBACK W CONNECTIONS	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNECTORS	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6001	ABS CONTROL UNIT	1	COMMON FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	COMMON FOR 8X4 & 8X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625

A49	81.25520-0184	LOW PRESSURE SWITCH	1		ALTERNATE 64.25520-0011
A50	64.52452-6001	SOLENOID MODULATOR VALVE REAR W CONNECTOR	2	COMMON FOR 40.220, 40.280, 49.220, 49.280 MODELS. ALSO COMMON FOR ABS VEHICLES FROM VIN : 15625	
A53	81.38100-6831	PTO N 109/10 C	1		
A72	64.50410-6006	BRAKE CHAMBER (24/24) W ADAPTORS	2		
A73	81.38100-6771	PTO NH-1C DRIVE	1		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14mm	1		
A90	81.52160-6115	MAGNETIC VALVE	1		
<b>Page No. 06</b>	<b>REVISION NO. 01/09/16</b>			<b>VERSION: 00</b>	

## AIR BRAKE SYSTEM 16 T 4 X 2 - ABS

Diagram No. 04

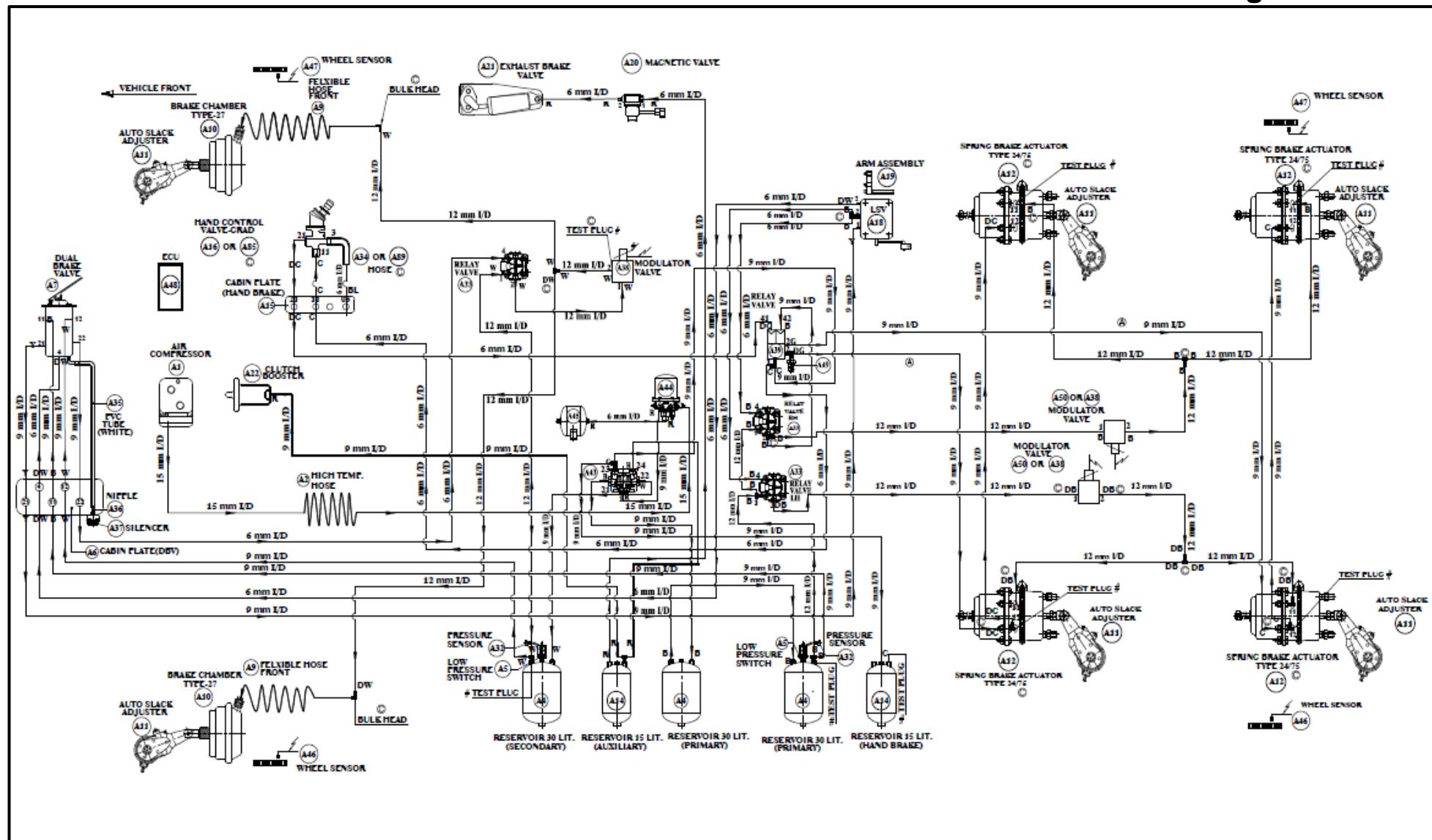


# **AIR BRAKE SYSTEM 16 T 4 X 2 - ABS**

## Diagram No. 04

# AIR BRAKE SYSTEM 25 T 6 X 2 NON ABS

## Diagram No. 05



**AIR BRAKE SYSTEM 25 T 6 X 2 NON ABS**
**Diagram No. 05**

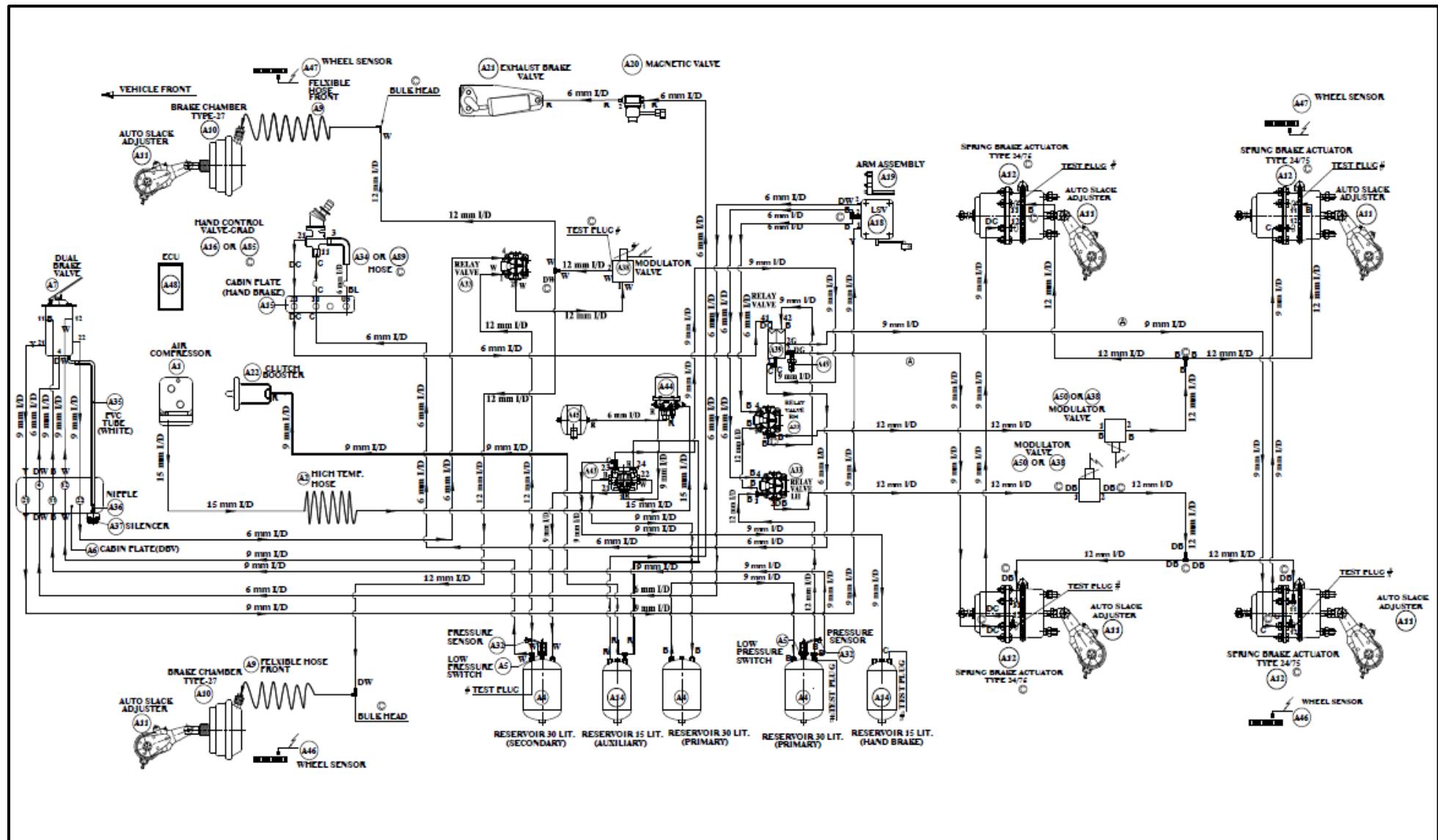
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITERS)	3		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	6		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	6		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	6		
-	64.97445-0003	CLAMP ASSY FOR AIR TANK MTG	6		
-	64.90020-0247	BOLT M8X80 DIN931-8.8, MAN183-B1	6		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	06.11240-0404	HEX. NUT BM8-8 MAN183-B1 M711260	6		
A5	64.25520-0001	LOW AIR PRESSURE SWITCH	2		
-	64.91710-0037	SEALING RING DIN 7603-A12X17-AL	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	DUAL BRAKE VALVE (KNORR BREMSE)	1		
A7	81.52130-6204	DUAL BRAKE VALVE (HALDEX)	1		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		
Page No. 08		REVISION NO. 00			VERSION: 00

**AIR BRAKE SYSTEM 25 T 6 X 2 NON ABS****Diagram No. 05**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		
-	64.98183-6014	HEX NUT M16X1.5 NG8 VOSS )	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A10	64.51101-6001	FRONT BRAKE CHAMBER TYPE 27	2		
-	64.98110-0039	ELBOW FOR FRONT BRAKE HOSE	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	6		
-	64.41710-0024	SLACK ADJUSTER FRONT MTG BKT	2		
A12	64.52130-6013	SPRING BRAKE ACTUATOR TYP 24/75	4		
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A14	64.51401-6009	AIR TANK (15L) W CONNECTORS	1	FOR AUXILIARY CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		
A16	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		VALID FOR VEHICLES FROM VIN : 13355
-	64.98183-6014	HEX NUT M16X1.5 NG8 VOSS )	2		
Page No. 09		REVISION NO. 01/09/16			VERSION: 00

# AIR BRAKE SYSTEM 25 T 6 X 2 NON ABS

## Diagram No. 05



## AIR BRAKE SYSTEM 25 T 6 X 2 NON ABS

**Diagram No. 05**

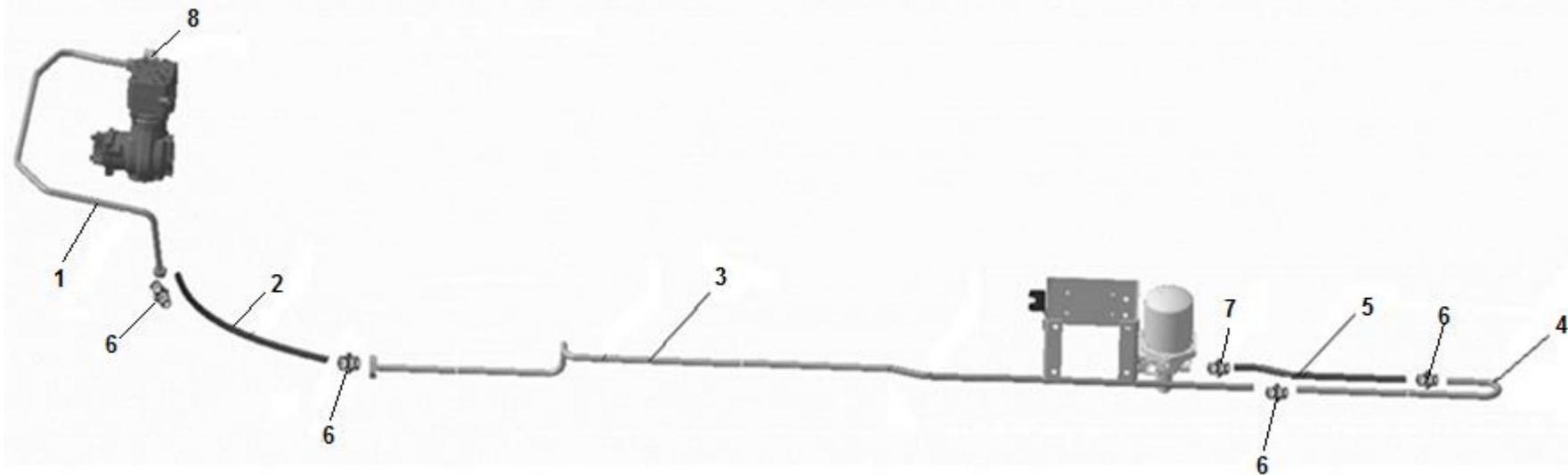
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	2		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	2		
A18	64.52161-6007	AUTOMATIC LOAD SENSING VALVE	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	3		
-	64.90020-0088	HHS M6X20 DIN 933-8.8 BTS:170202.22	6		
-	64.90801-0046	SPRING WASHER B6 DIN127 A3C	6		
-	64.90710-0025	PL WASHER A6.4 DIN125-ST BTS170202.12	12		
-	64.90501-0036	HEX NUT M6X1.00 DIN 934-8 BTS:170202.22	6		
A21	64.15600-6002	EXHAUST BRAKE COMPLETE W CONNECTORS (6 CYL)	1		
-	81.15600-6089	EXHAUST BRAKE COMPLETE (6 CYL) W/O CONNECTORS	1		
A21	85.15600-6005	EXHAUST BRAKE COMPLETE (4 CYL)	1	COMMON FOR 25.180 HL ONLY	
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
-	06.01019-0220	HEX BOLT M10X95-17709 DIN 931	3		
-	64.90650-0003	CLEVELOC NUT M10X1.5 N13004-8 BTS170202.	3		

A22	81.30725-6069	CLUTCH BOOSTER	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	3		
-	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	1		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	1		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		
A39	81.52116-6079	RELAY VALVE HAND BRAKE	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	PURGE TANK 7.5 LITRES	1		
-	64.98183-6014	HEX NUT M16X1.5 NG8 VOSS )	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		

A47	64.27120-6003	ABS WHEEL SENSOR RH	2		
A50	64.52452-6001	SOL. MODULATOR VALVE	2		
A85	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		VALID FOR VEHICLES FROM VIN : 13355
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14mm	1		
-	64.94299-0035	POLYAMIDE TUBE (2 MM ID)	1		
-	64.94299-0036	POLYAMIDE TUBE (6 MM ID)	1		
-	64.94299-0037	POLYAMIDE TUBE (9 MM ID)	1		
-	64.94299-0038	POLYAMIDE TUBE (12 MM ID)	1		
-	64.94299-0039	POLYAMIDE TUBE (15 MM ID)	1		
-	64.99125-0150	PIPE PNEUMATIC CONNECTION HBV22-AUX.TANK	1		
Page No. 10		REVISION NO. 01/09/16			VERSION: 00

## AIR BRAKE SYSTEM 25 T 6 X 2 - NON ABS

Diagram No. 06

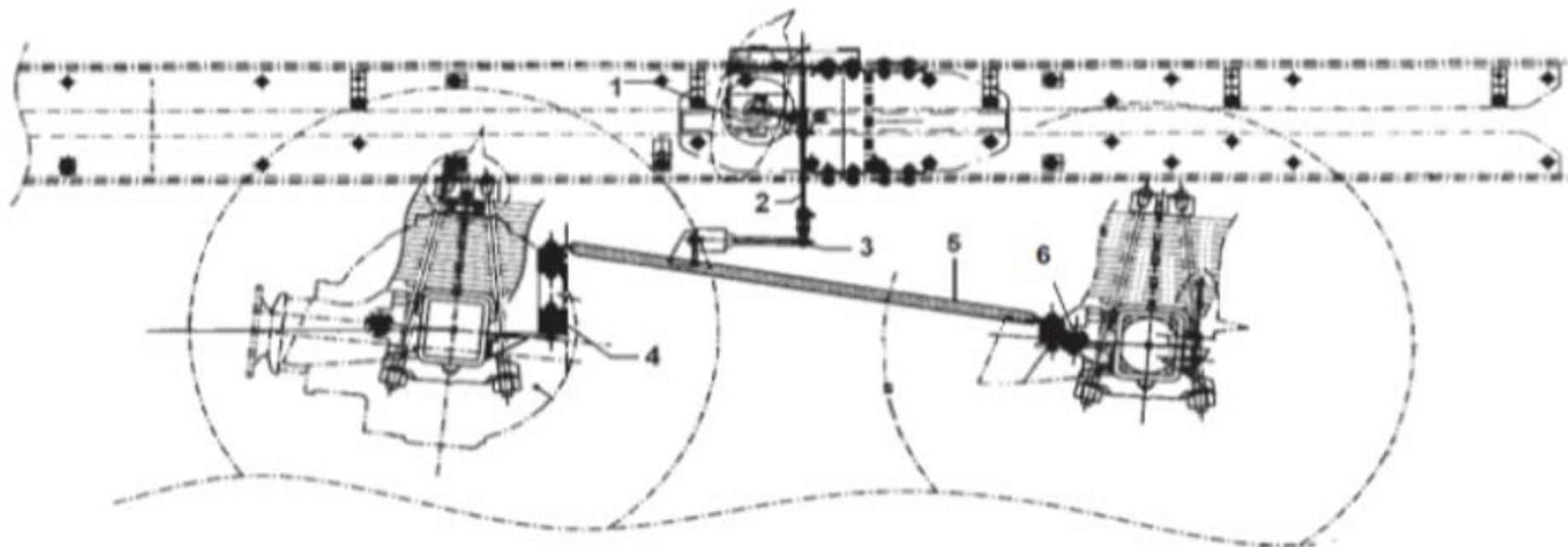


**AIR BRAKE SYSTEM 25 T 6 X 2 - NON ABS****Diagram No. 06**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR ALL MODELS	
3	64.96320-5014	PIPE ASSY (FLEX HOSE TO BEND PIPE ASSY)	1		
4	64.96320-5003	PIPE ASSY (U BEND)	1		
5	64.96320-5028	PIPE ASY(U BEND PIPE ASSY TO AIR DRIER)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 11		REVISION NO. 01/08/16			VERSION: 00

## AIR BRAKE SYSTEM 25 T 6 X 2 - NON ABS

Diagram No. 07

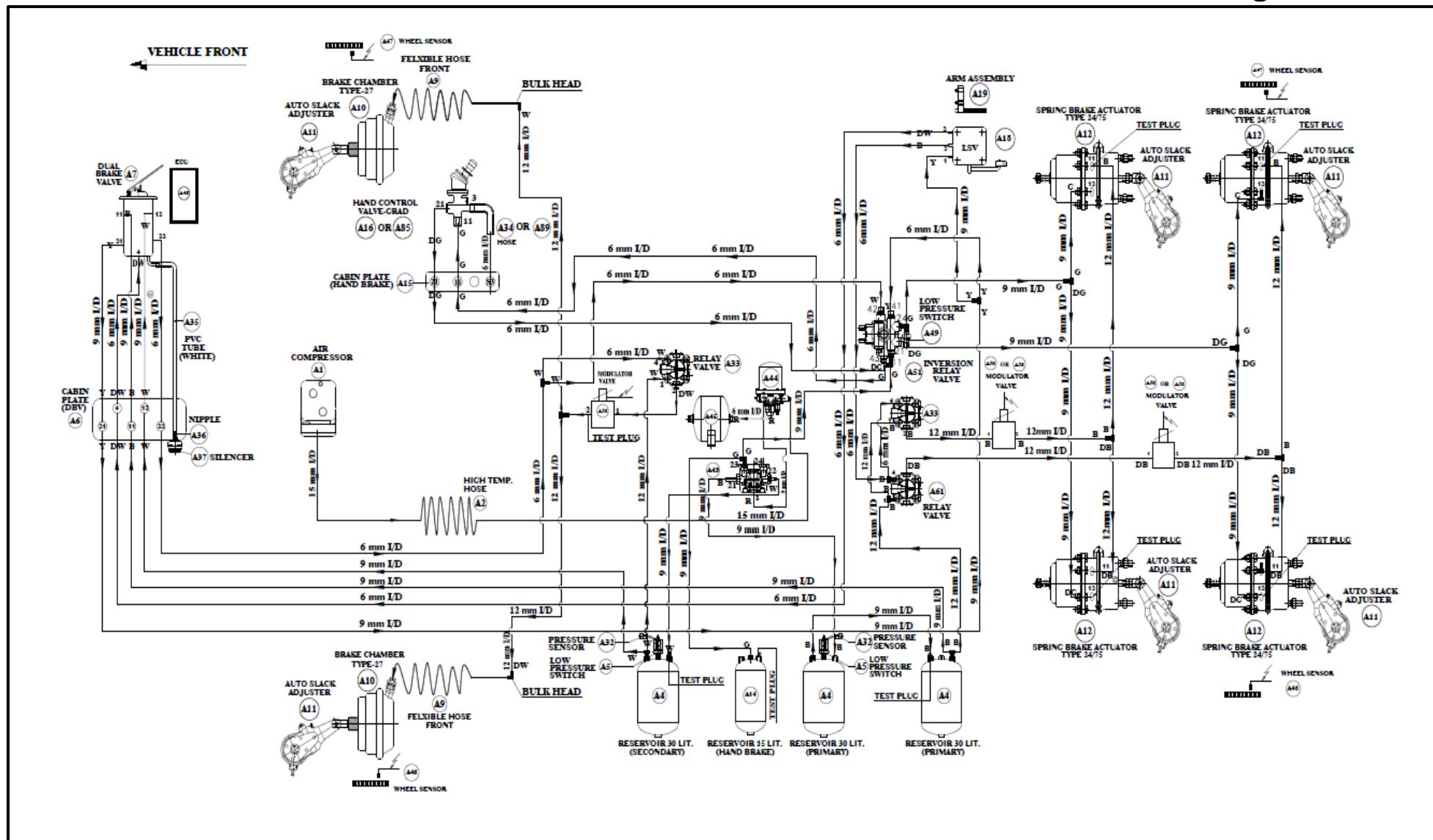


**AIR BRAKE SYSTEM 25 T 6 X 2 - NON ABS****Diagram No. 07**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75	1		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	4		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0003	LINK ROD (LSV) 350MM LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6004	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0010	THRUST RUBBER PIECE	1		
5	64.51225-5003	BRACE TUBE ASSLY (LSV MTG)	1		
-	64.52190-0001	'C' SECTION (LSV MTG)	1		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
6	64.96210-0012	P TYPE THRUST RUBBER PIECE	1		
Page No. 12		REVISION NO. 00			VERSION: 00

## AIR BRAKE SYSTEM 25 T 6 X 2 ABS

## **Diagram No. 08**



**AIR BRAKE SYSTEM 25 T 6 X 2 ABS****Diagram No. 08**

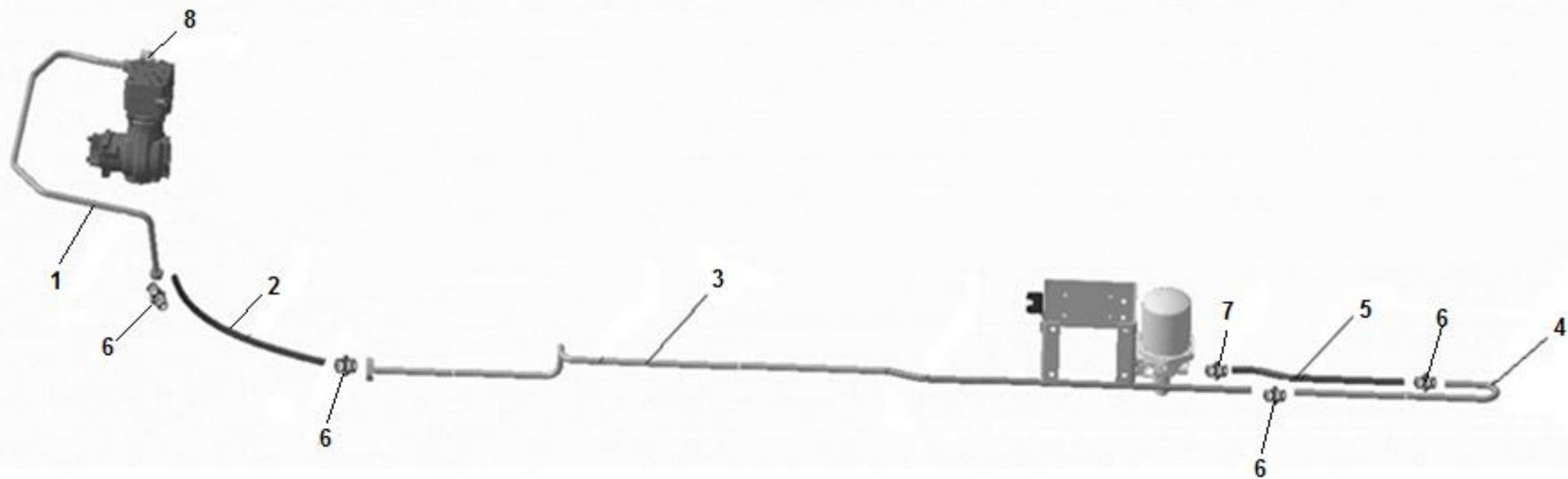
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	3		ALTERNATE 64.51401-0025
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	ASSY DUAL BRAKE VALVE W CONNECTORS	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A10	64.51101-6001	FRONT BRAKE CHAMBER TYPE 27	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	6		
A12	64.52130-6013	SPRNG BRAKE ACTUATOR TYP 24/75 WITH VOSS	4		
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		ALTERNATE 81.98181-0175
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A18	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75MM	1		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	2		
A21	64.15600-6002	ASSY EXHAUST BRAKE W CONNECTOR	1		
A22	81.30725-6069	CLUTCH BOOSTER 3"	1		

A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		ALTERNATE 81.27421-0151
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		FOR ABS VEHICLES FROM VIN : 15625
A40	64.50410-6006	BRAKE CHAMBER (24/75) W ADAPTORS	2		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNE	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6001	ABS CONTROL UNIT	1	COMMON FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	COMMON FOR 8X4 & 8X2 MODELS WITH	FOR ABS VEHICLES FROM VIN : 15625

				ABS ONLY	
A49	81.25520-0184	LOW PRESSURE SWITCH	1		ALTERNATE 64.25520-0011
A50	64.52452-6001	SOL. MODULATOR VALVE	2		FOR ABS VEHICLES FROM VIN : 15625
A51	64.52315-6015	INVERSION RELAY VALVE WITH VOSS	1		
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED) LH /NG8	2		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		
A90	81.52160-6115	MAGNETIC VALVE WITH VOSS ( 10 BAR )	1		
<b>Page No. 13</b>	<b>REVISION NO. 01/09/16</b>			<b>VERSION: 00</b>	

# AIR BRAKE SYSTEM 25 T 6 X 2 - ABS

Diagram No. 09

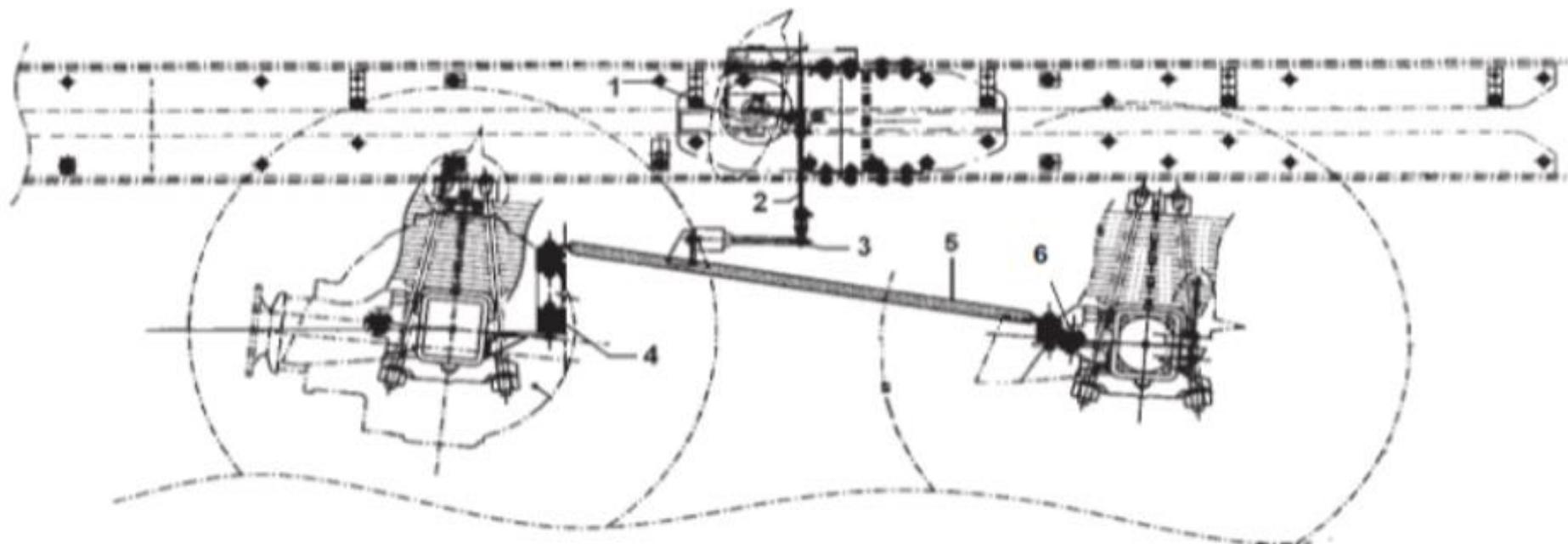


**AIR BRAKE SYSTEM 25 T 6 X 2 - ABS****Diagram No. 09**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5014	PIPE ASSY (FLEX HOSE TO BEND PIPE ASSY)	1		
4	64.96320-5003	PIPE ASSY (U BEND)	1		
5	64.96320-5028	PIPE ASY(U BEND PIPE ASSY TO AIR DRIER)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4		
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1		
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 14		REVISION NO. 01/08/16			VERSION: 00

## AIR BRAKE SYSTEM 25 T 6 X 2 - ABS

Diagram No. 10

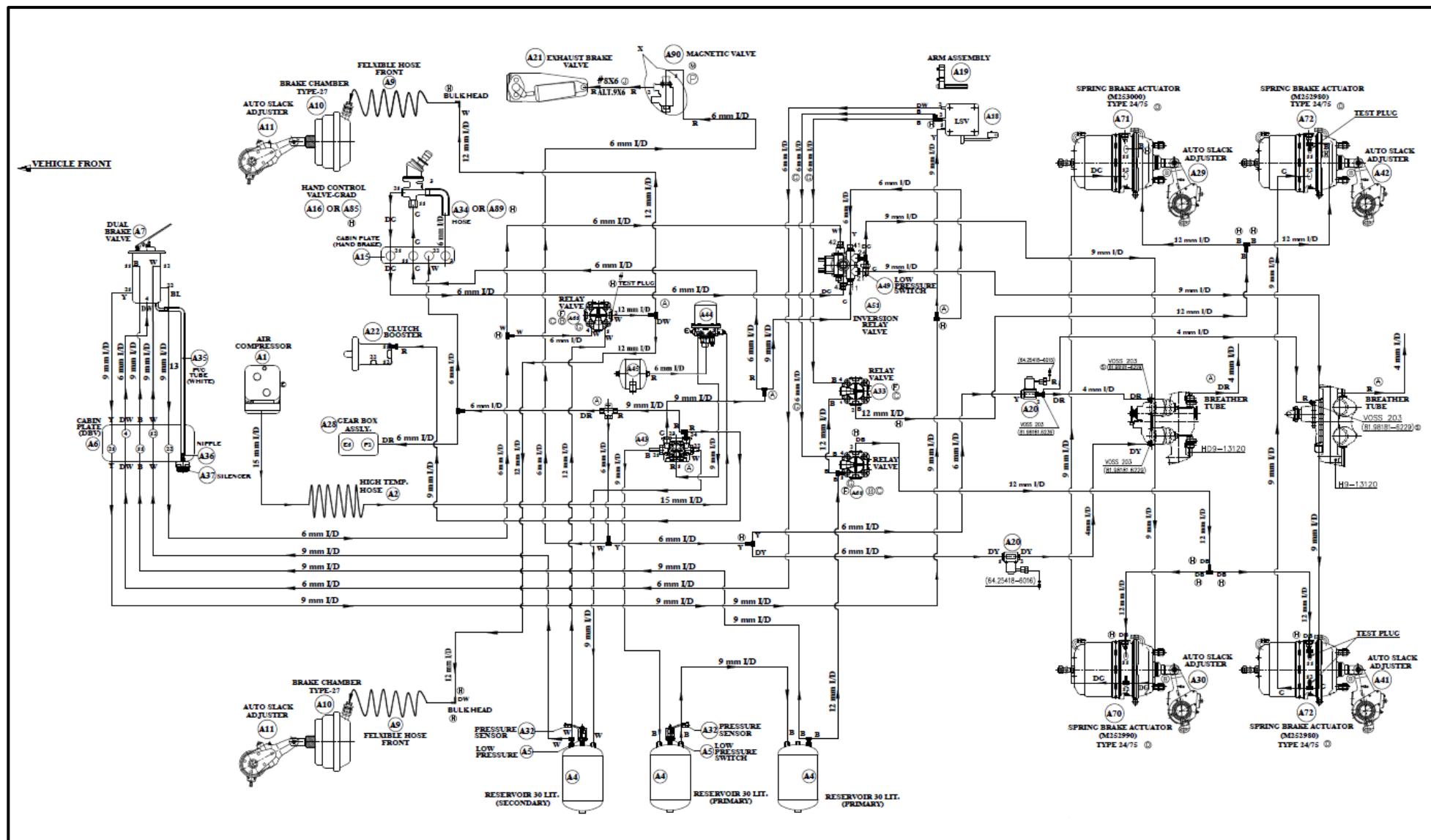


**AIR BRAKE SYSTEM 25 T 6 X 2 - ABS****Diagram No. 10**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75	1		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	4		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0003	LINK ROD (LSV) 350MM LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6004	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0010	THRUST RUBBER PIECE	1		
5	64.51225-5003	BRACE TUBE ASSLY (LSV MTG)	1		
-	64.52190-0001	'C' SECTION (LSV MTG)	1		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
6	64.96210-0012	P TYPE THRUST RUBBER PIECE	1		
Page No. 15		REVISION NO. 00			VERSION: 00

# AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS

## **Diagram No. 11**



## AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS

## Diagram No. 11

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	51.54100-7071	AIR COMPRESSOR 238 CC	1	COMMON FOR MODELS WITH 2VCR ENGINES ONLY	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITRES)	3		ALTERNATE 64.51401-0025
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	6		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	6		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	6		
-	64.97445-0003	CLAMP ASSY FOR AIR TANK MTG	6		
-	64.90020-0247	BOLT M8X80 DIN931-8.8, MAN183-B1	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	12		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	06.11240-0404	HEX. NUT BM8-8 MAN183-B1 M711260	6		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
-	64.91710-0037	SEALING RING DIN 7603-A12X17-AL	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6202	DUAL BRAKE VALVE	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	4		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		

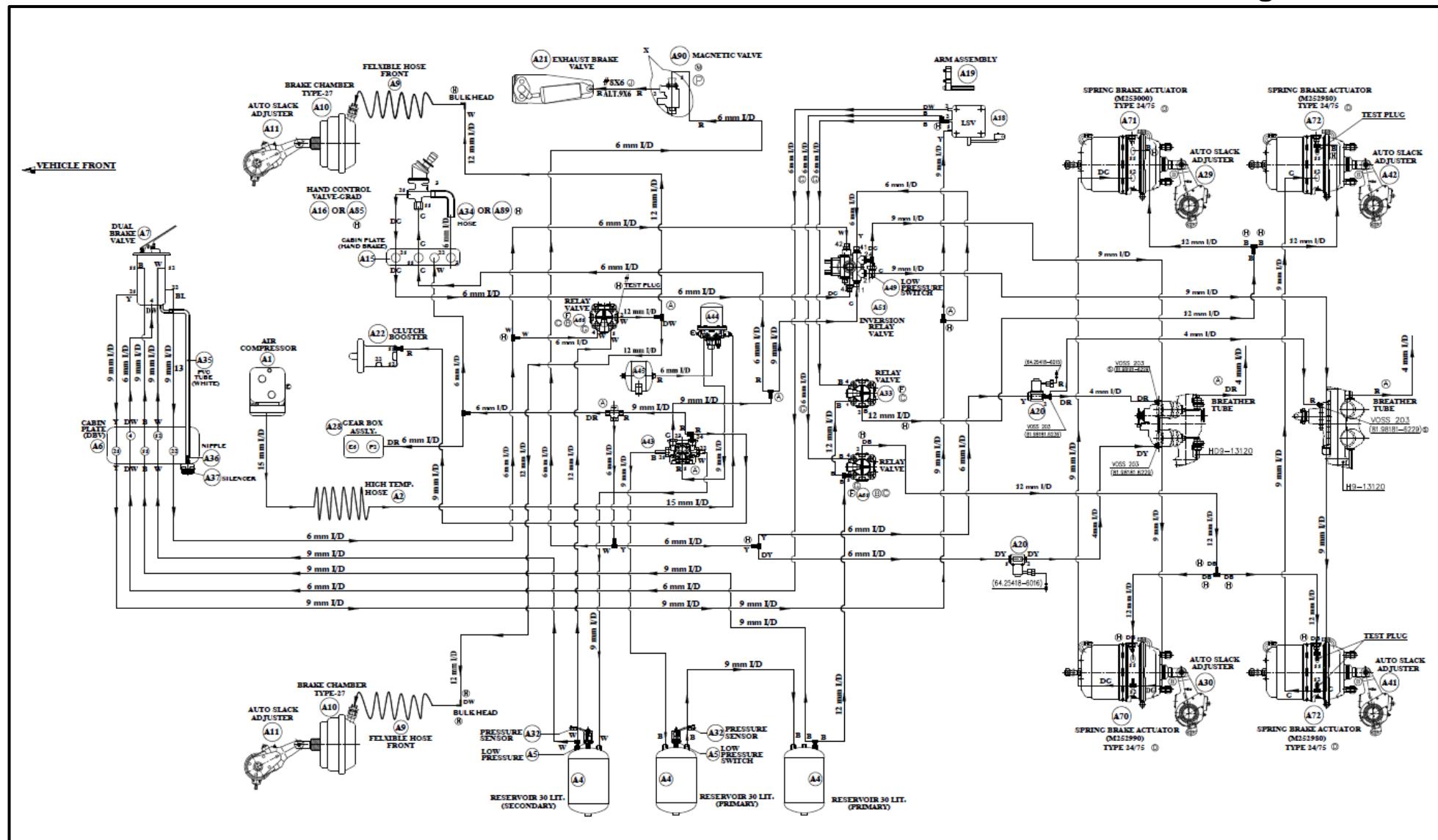
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
-	64.90020-0096	HHS M8 X 25 DIN 933 - 8.8 BTS 170202.22	6		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	6		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A10	64.51101-6001	FRONT BRAKE CHAMBER TYPE 27	2		
-	64.41710-0056	L-BKT (FOR BRAKE HOSE)	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	2		
-	64.41710-0024	SLACK ADJUSTER FRONT MTG BKT	2		
-	64.90501-0028	NUT AM 8-10 MAN-183-B1	2		
-	64.90710-0058	PL WASHER A8.4 DIN9021 ST BTS170202.12	2		
-	64.96210-0011	RUBBER STOPPER	2		
A14	64.51401-6007	AIR TANK (15L) W CONNECTORS (AUXL)	1	FOR AUXILIARY CIRCUIT	FIG. NOT SHOWN
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		
Page No. 16		REVISION NO. 00			VERSION: 00

**AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS****Diagram No. 11**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A16	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		VALID FOR VEHICLES FROM VIN : 13355
-	64.98183-6014	HEX NUT M16X1.5 NG8 VOSS )	2		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	2		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	2		
A18	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	3		
-	64.90020-0088	HHS M6X20 DIN 933-8.8 BTS:170202.22	6		
-	64.90801-0046	SPRING WASHER B6 DIN127 A3C	6		
-	64.90710-0025	PL WASHER A6.4 DIN125-ST BTS170202.12	12		
-	64.90501-0036	HEX NUT M6X1.00 DIN 934-8 BTS:170202.22	6		
Page No. 17		REVISION NO. 01/09/16			VERSION: 00

# AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS

Diagram No. 11

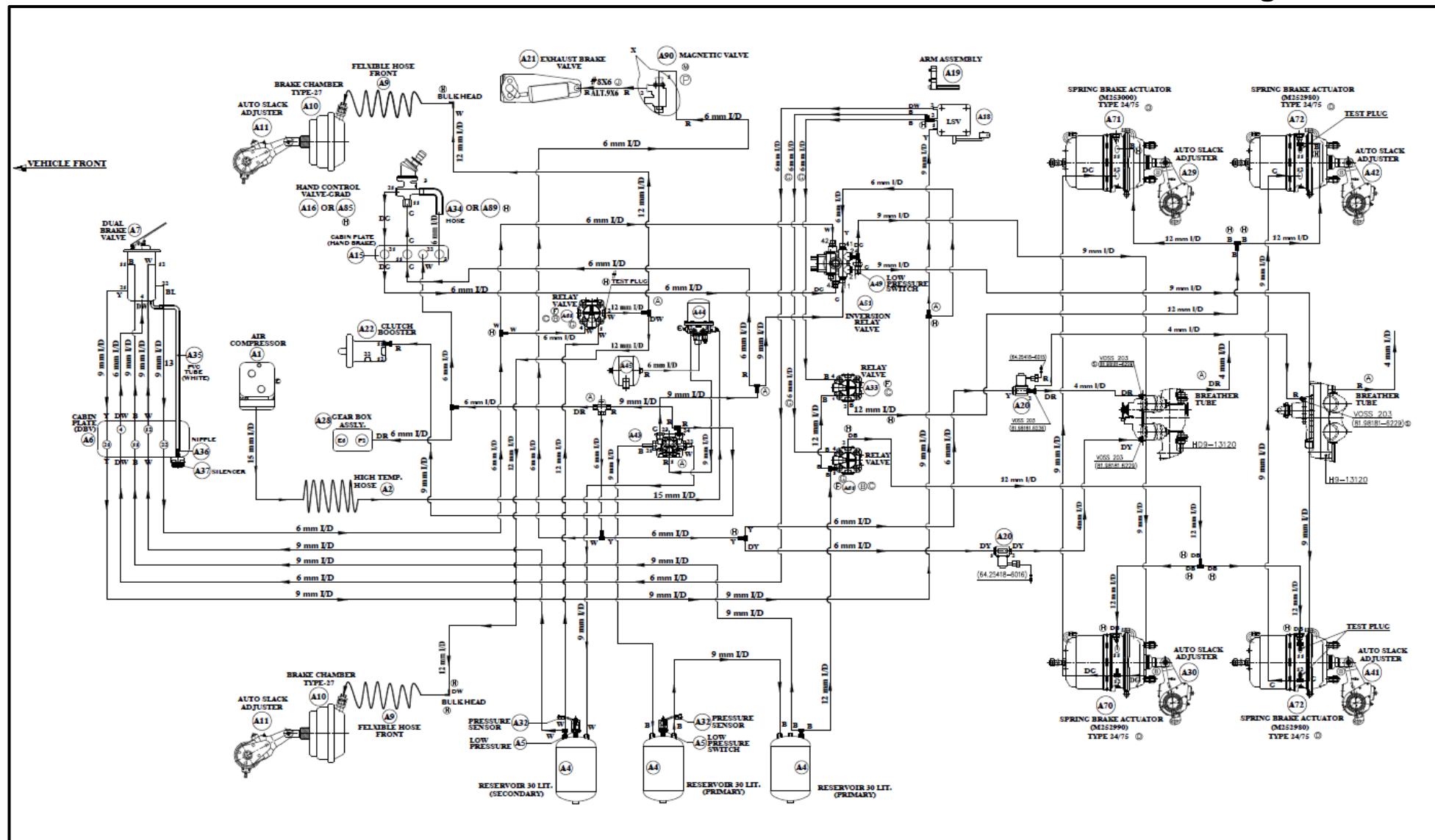


**AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS**
**Diagram No. 11**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A21	64.15600-6002	ASSY EXHAUST BRAKE COMPLETE W CONNECTORS	1		
-	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
-	06.01019-0220	HEX BOLT M10X95-17709 DIN 931	3		
-	64.90650-0003	CLEVLOC NUT M10X1.5 N13004-8 BTS170202.	3		
A22	64.30725-6001	CLUTCH CYLINDER	1		SUPERCEDED BY 64.30725-6007
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A29	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A30	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
-	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	1		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	1		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
Page No. 18		REVISION NO. 00			VERSION: 00

# **AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS**

## **Diagram No. 11**



## AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS

## Diagram No. 11

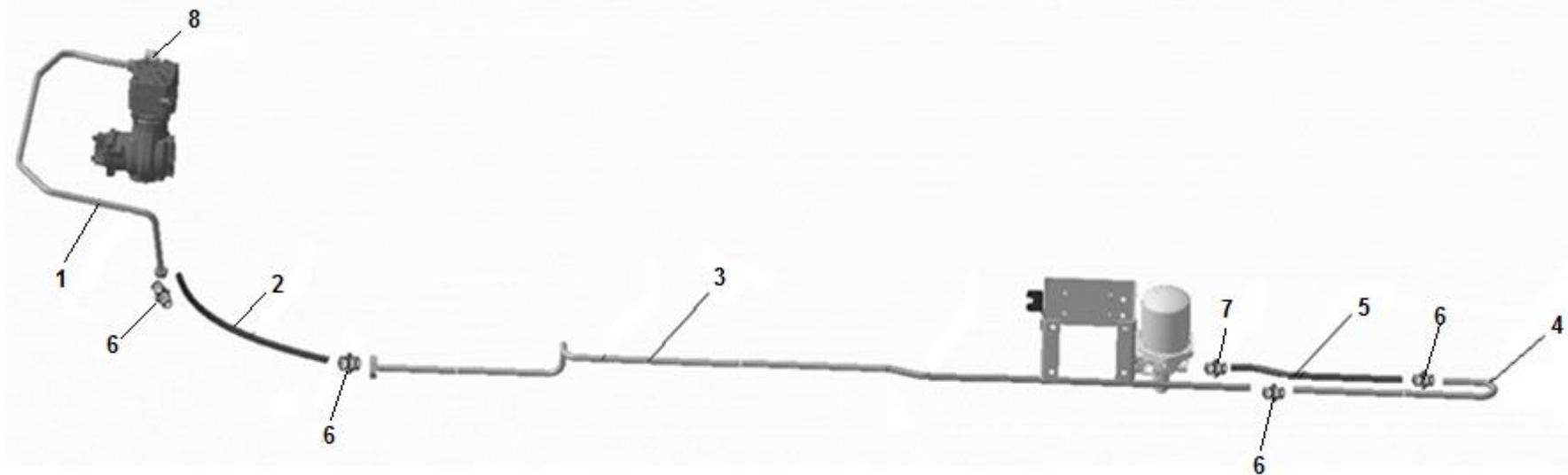
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A41	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A42	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-0003	PURGE TANK 7.5 LITRES	1		SUPERCEDED BY 64.51401-6011
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A51	64.52315-6015	INVERSION RELAY VALVE WITH VOSS	1		
-	64.90501-0023	NUT AM12X1.5-10, M7.112.60 , A3C	2		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	2		
-	64.90710-0028	PL WASHER A 12 DIN125 ST BTS 170202.12	2		
Page No. 19		REVISION NO. 01/04/16			VERSION: 00

**AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS****Diagram No. 11**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A70	64.50410-6007	BRAKE CHAMBER (24/75)W ADAPTORS (HD9) LH	1		
A71	64.50410-6008	BRAKE CHAMBER (24/75)W ADAPTORS (HD9) RH	1		
A72	64.50410-6006	BRAKE CHAMBER (24/75) W ADAPTORS (H9)	2		
-	64.91020-0106	PIN B14 F8 X40X32.5 - CQ - 15 K DIN 1444	2		
-	64.91029-0005	SPLIT PIN 4X25 DIN 94 ST BTS170202.12	2		
-	64.96002-0099	T – PLUG	1		
-	64.96002-0085	T – PLUG	1		
-	64.94299-0035	POLYMIDE TUBE (2 MM ID)	1		
-	64.94299-0036	POLYMIDE TUBE (6 MM ID)	1		
-	64.94299-0037	POLYMIDE TUBE (9 MM ID)	1		
-	64.94299-0038	POLYMIDE TUBE (12 MM ID)	1		
-	64.94299-0039	POLYMIDE TUBE (15 MM ID)	1		
-	64.99125-0150	PIPE PNEUMATIC CONNECTION HBV22-AUX.TANK	1		
Page No. 20		REVISION NO. 00			VERSION: 00

## AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS

Diagram No. 12

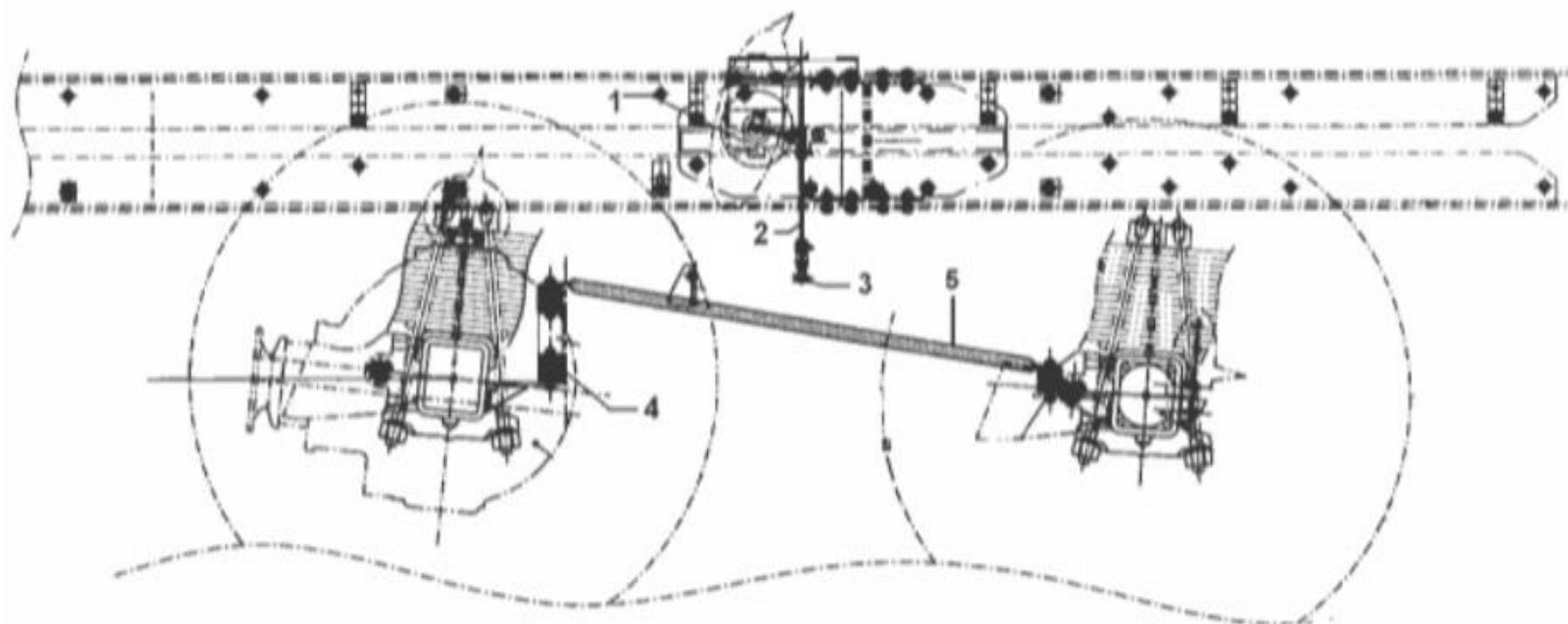


**AIR BRAKE SYSTEM 25 T 6 X 4 NON ABS****Diagram No. 12**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR ALL MODELS	
3	64.96320-5004	PIPE ASSY(FLX. HOSE TO U BEND PIPE ASSY)	1		
4	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
5	64.96320-5027	STRAIGHT PIPE ASSY (CS02)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 21		REVISION NO. 01/08/16			VERSION: 00

## LSV LINKAGES 25 T 6 x 4 - NON ABS

Diagram No. 13

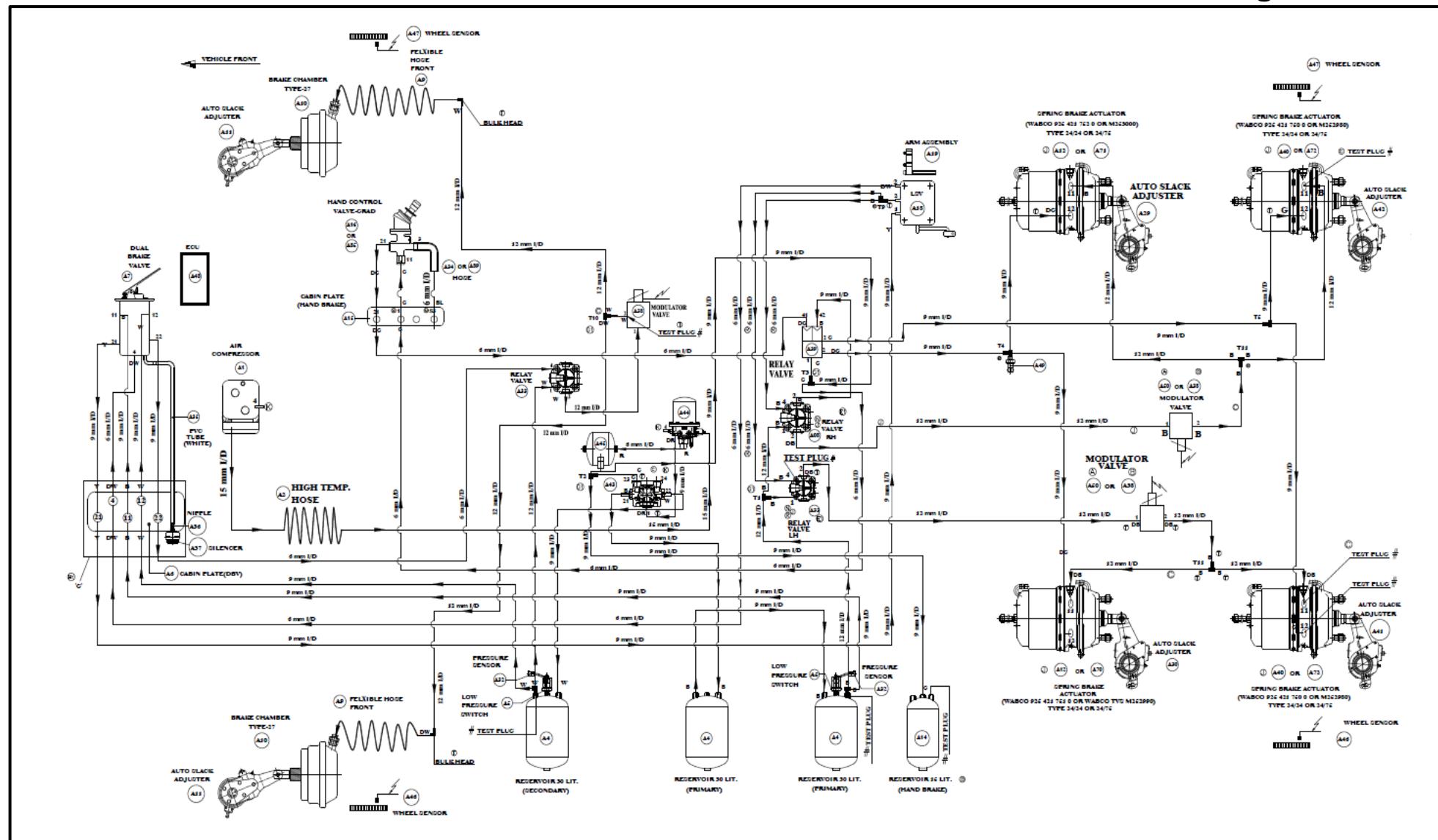


**LSV LINKAGES 25 T 6 x 4 - NON ABS**
**Diagram No. 13**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.41710-0067	MTG BKT FOR BALL JOINT	1		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0001	LINK ROD 450 LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6003	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0010	THRUST RUBBER PIECE	1		
5	64.52731-0006	LINK ROD (LSV) 675MM LONG	1		
-	64.97401-0035	PIPE CLAMP 8MM DIA	2		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.96210-0012	P TYPE THRUST RUBBER PIECE	1		
Page No. 22		REVISION NO. 00			VERSION: 00

# AIR BRAKE SYSTEM 25 T 6 X 4 ABS

Diagram No. 14



## AIR BRAKE SYSTEM 25 T 6 X 4 ABS

## Diagram No. 14

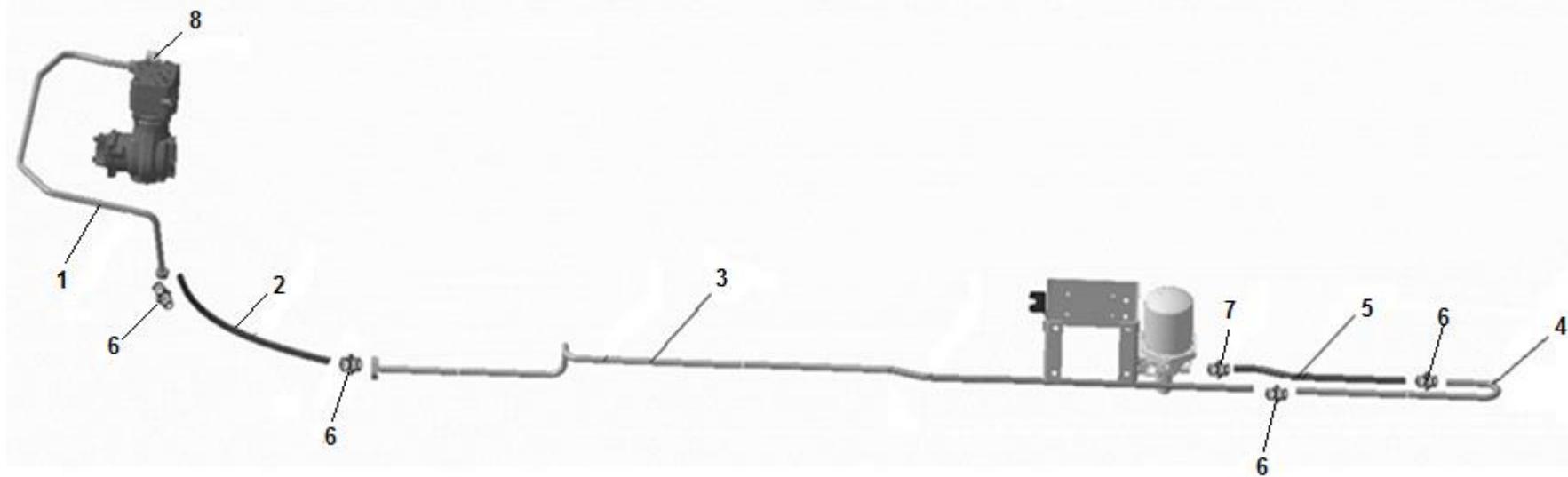
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	3		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	ASSY DUAL BRAKE VALVE W CONNECTORS	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A10	64.51101-6001	FRONT BRAKE CHAMBER TYPE 27	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	2		
A12	64.50410-6007	BRAKE CHAMBER (24/75)W ADAPTORS (HD9) LH	1		
A12	64.50410-6012	BRAKE CHAMBER (24/75)W ADAPTORS (HD9) RH	1		
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		ALTERNATE 81.98181-0175
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A18	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	2		

A21	64.15600-6002	ASSY EXHAUST BRAKE W CONNECTOR	1		ALTERNATE 81.15600-6089
A22	64.30725-6006	CLUTCH BOOSTER 3"	1		CONSISTS OF 64.30725-6006 & 64.98110-0026
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A29	64.50610-6008	AUTO SLACK ADJUSTER RH	1		ALTERNATE 81.50610-6210
A30	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		ALTERNATE 81.98131-0101
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		FOR ABS VEHICLES FROM VIN : 15625
A39	81.52116-6079	ASY RELAY VALVE (HAND BRAKE) W CONNECTOR	1		ALTERNATE 64.52116-6012
A40	64.50410-6006	BRAKE CHAMBER (24/75) W ADAPTORS (H9)	2		
A41	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		ALTERNATE 81.50610-6215
A42	64.50610-6009	AUTO SLACK ADJUSTER RH	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	

A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNE	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6001	ABS CONTROL UNIT	1	COMMON FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	COMMON FOR 8X4 & 8X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A50	64.52452-6001	SOL. MODULATOR VALVE	2		FOR ABS VEHICLES FROM VIN : 15625
A70	64.50410-6007	BRAKE CHAMBER (24/24)W ADAPTORS (HD9) LH	1		
A71	64.50410-6008	BRAKE CHAMBER (24/24)W ADAPTORS (HD9) RH	1		
A72	64.50410-6006	BRAKE CHAMBER (24/24) W ADAPTORS (H9)	2		
A73	81.38100-6771	PTO NH-1C DRIVE	1		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14mm	1		
A90	81.52160-6115	MAGNETIC VALVE	1		
<b>Page No. 23</b>		<b>REVISION NO. 01/09/16</b>			<b>VERSION: 00</b>

## AIR BRAKE SYSTEM 25 T 6 X 4 ABS

Diagram No. 15

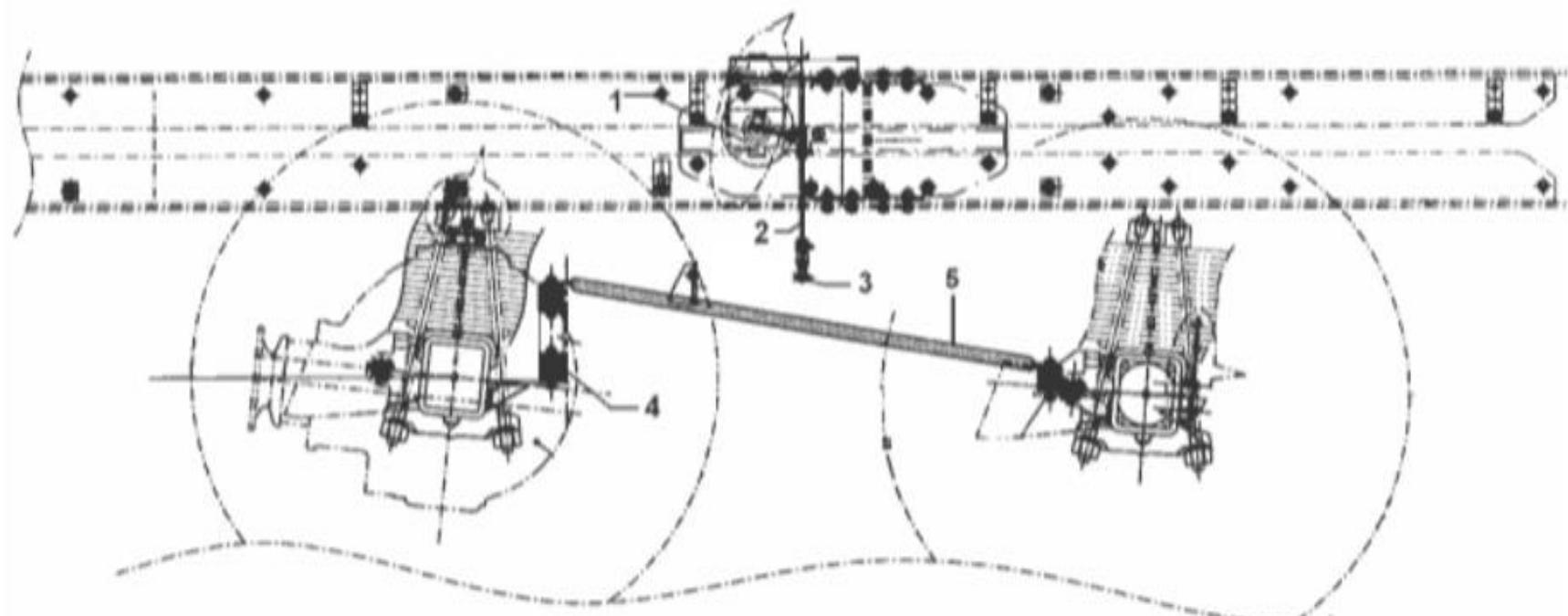


# AIR BRAKE SYSTEM 25 T 6 X 4 ABS

## Diagram No. 15

# LSV LINKAGES 25 T 6 x 4 - ABS

Diagram No. 16

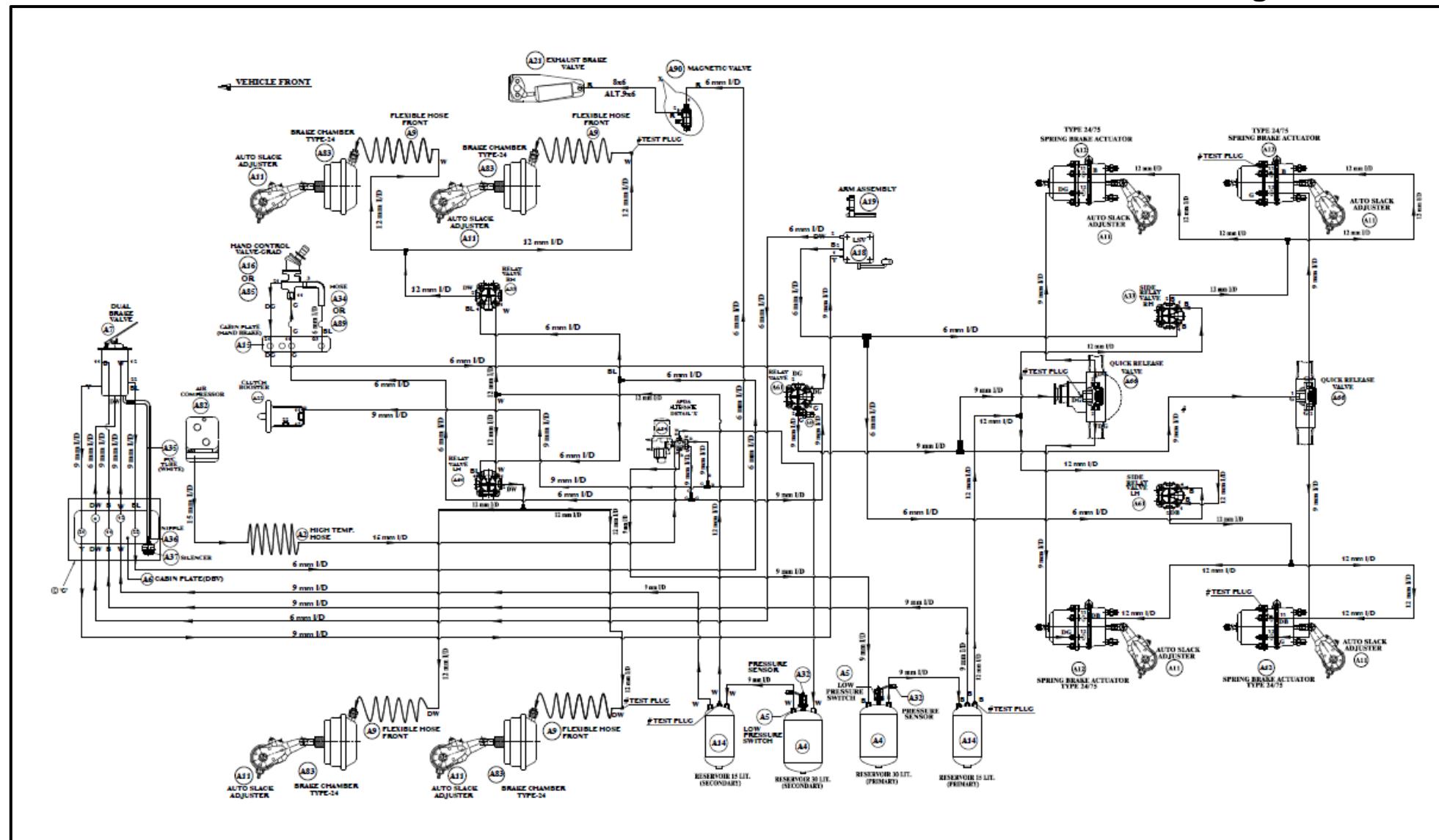


**LSV LINKAGES 25 T 6 x 4 - ABS**
**Diagram No. 16**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.41710-0067	MTG BKT FOR BALL JOINT	1		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0001	LINK ROD 450 LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6003	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0010	THRUST RUBBER PIECE	1		
5	64.52731-0006	LINK ROD (LSV) 675MM LONG	1		
-	64.97401-0035	PIPE CLAMP 8MM DIA	2		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.96210-0012	P TYPE THRUST RUBBER PIECE	1		
Page No. 25		REVISION NO. 00			VERSION: 00

# AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS

Diagram No. 17



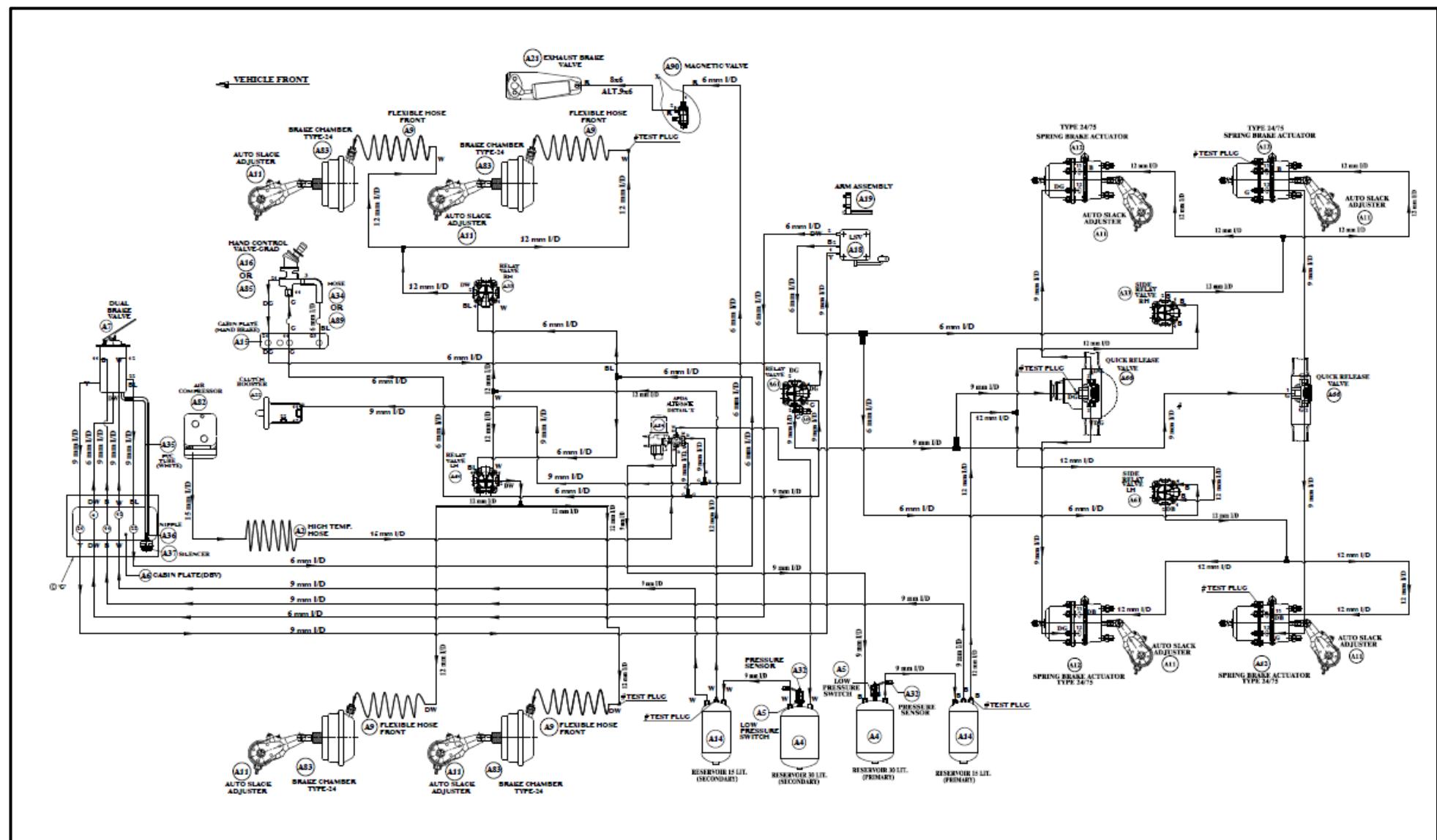
**AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS**
**Diagram No. 17**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITERS)	3		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	6		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	6		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	6		
-	64.97445-0003	CLAMP ASSY FOR AIR TANK MTG	6		
-	64.90020-0247	BOLT M8X80 DIN931-8.8, MAN183-B1	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	12		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	06.11240-0404	HEX. NUT BM8-8 MAN183-B1 M711260	6		
A5	64.25520-0001	LOW AIR PRESSURE SWITCH	2		
-	64.91710-0037	SEALING RING DIN 7603-A12X17-AL	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6202	DUAL BRAKE VALVE	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	4		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		

-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
-	64.90020-0096	HHS M8 X 25 DIN 933 - 8.8 BTS 170202.22	6		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	6		
A9	64.51225-6003	BRAKE PIPE ASSY	4		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	8		
-	64.41710-0024	SLACK ADJUSTER FRONT MTG BKT	4		
-	64.90501-0028	NUT AM 8-10 MAN-183-B1	4		
-	64.90710-0058	PL WASHER A8.4 DIN9021 ST BTS170202.12	4		
-	64.96210-0011	RUBBER STOPPER	4		
A12	64.52130-6013	SPRING BRAKE ACTUATOR TYP 24/75 WITH VOSS	4		
A14	64.51401-6007	AIR TANK (15L) W CONNECTORS	2		
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		
<b>Page No. 26</b>		<b>REVISION NO. 00</b>			<b>VERSION: 00</b>

# AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS

Diagram No. 17



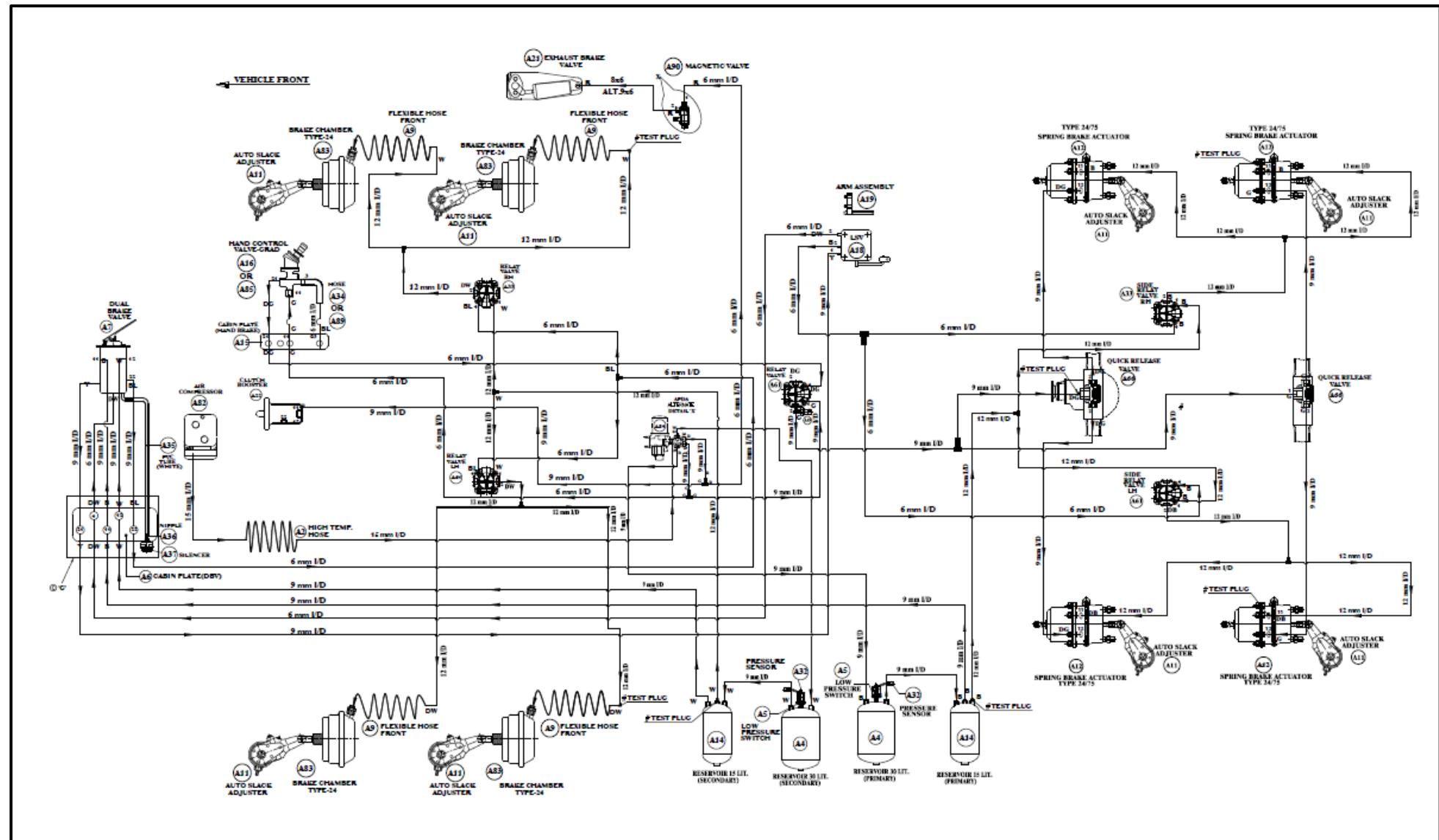
**AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS**
**Diagram No. 17**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A16	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A16	64.52315-6013	HAND BRAKE VALVE	1		VALID FOR VEHICLES FROM VIN : 13355
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	2		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	2		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	2		
A85	64.52315-6013	HAND BRAKE VALVE	1		VALID FOR VEHICLES FROM VIN : 13355
A18	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
A19	64.43715-6004	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	3		
-	64.90020-0088	HHS M6X20 DIN 933-8.8 BTS:170202.22	6		
-	64.90801-0046	SPRING WASHER B6 DIN127 A3C	6		
-	64.90710-0025	PL WASHER A6.4 DIN125-ST BTS170202.12	12		
-	64.90501-0036	HEX NUT M6X1.00 DIN 934-8 BTS:170202.22	6		
A21	64.15600-6002	ASSY EXHAUST BRAKE COMPLETE W CONNECTORS	1		
-	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		

-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
-	06.01019-0220	HEX BOLT M10X95-17709 DIN 931	3		
-	64.90650-0003	CLEVLOC NUT M10X1.5 N13004-8 BTS170202	3		
A22	64.30725-6006	CLUTCH CYLINDER	1		
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A29	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A30	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	2		
-	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	1		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	1		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) (ALT TO A34)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1	VALID FOR VEHICLES BEFORE VIN : 15625	VERSION: 00
Page No. 27		REVISION NO. 01/09/16			VERSION: 00

# AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS

Diagram No. 17



## AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS

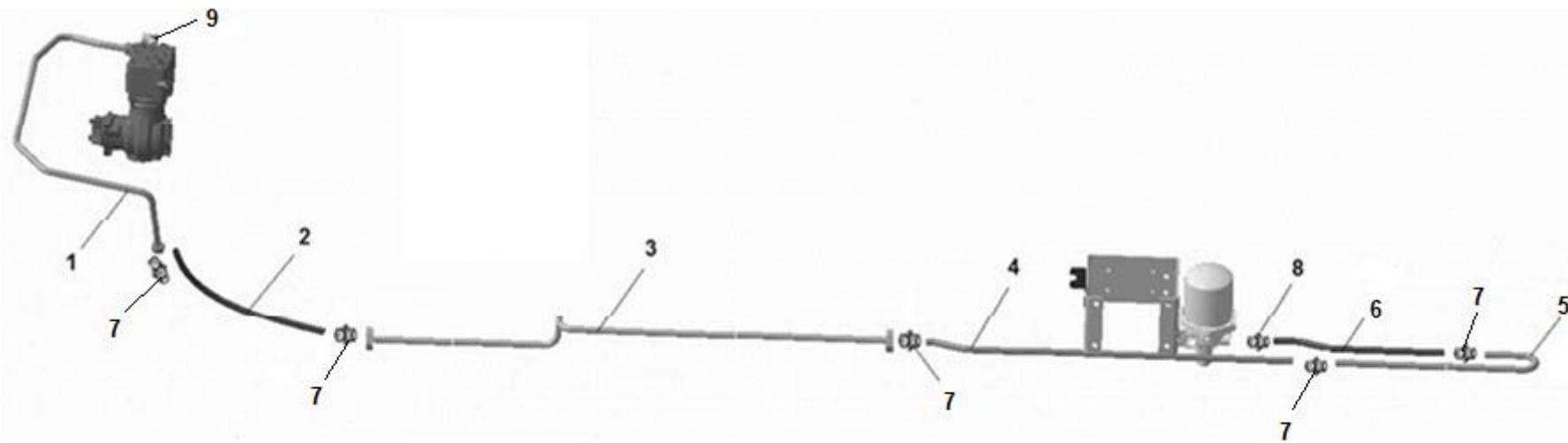
**Diagram No. 17**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A41	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A42	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	PURGE TANK 7.5 LITRES	1		
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A83	64.50410-6009	BRAKE CHAMBER FRONT TYPE 24	4		
-	64.91020-0106	PIN B14 F8 X40X32.5 - CQ - 15 K DIN 1444	2		
-	64.91029-0005	SPLIT PIN 4X25 DIN 94 ST BTS170202.12	2		
-	64.96002-0099	T – PLUG	1		
-	64.96002-0085	T – PLUG	1		
-	64.94299-0035	POLYAMIDE TUBE (2 MM ID)	1		
-	64.94299-0036	POLYAMIDE TUBE (6 MM ID)	1		
-	64.94299-0037	POLYAMIDE TUBE (9 MM ID)	1		
-	64.94299-0038	POLYAMIDE TUBE (12 MM ID)	1		



## AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS

Diagram No. 18

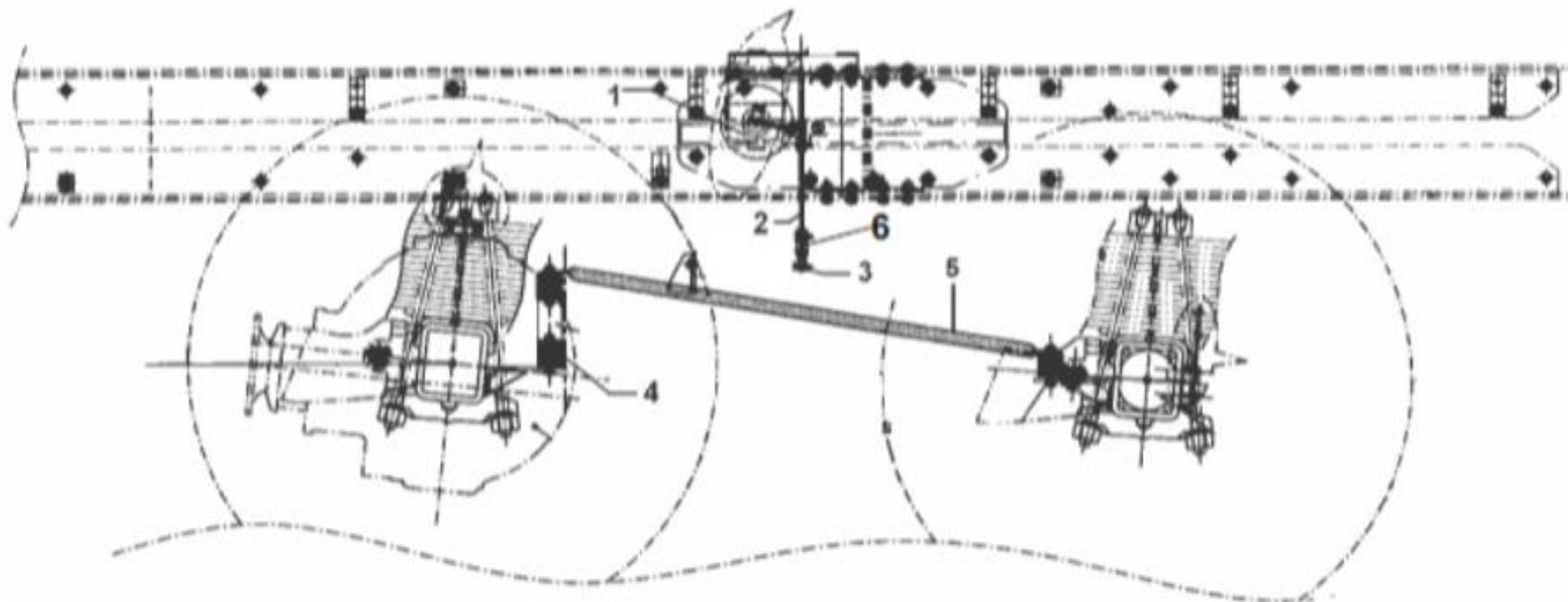


**AIR BRAKE SYSTEM 31 T 8 X 2 NON ABS****Diagram No. 18**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR ALL MODELS	
3	64.96320-5036	PIPE ASSY (FRONT HOSE TO REAR HOSE )	1		
4	64.96320-5042	PIPE ASSY (COMPRESSOR TO U BEND)	1		
5	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
6	64.96320-5047	PIPE ASSY (U BEND PIPE ASSY L=456MM)	1	FOR VEHICLES WITH ZF 9S GB	LENGTH OF PIPE : 451 MM
6	64.96320-5030	PIPE ASSY	1	FOR VEHICLES WITH EATON GB	LENGTH OF PIPE : 551 MM
7	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	5	COMMON FOR ALL MODELS	
8	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1	COMMON FOR ALL MODELS	
9	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 29		REVISION NO. 01/08/16			VERSION: 00

# LSV LINKAGES 31 T 8 x 2 - NON ABS

Diagram No. 19

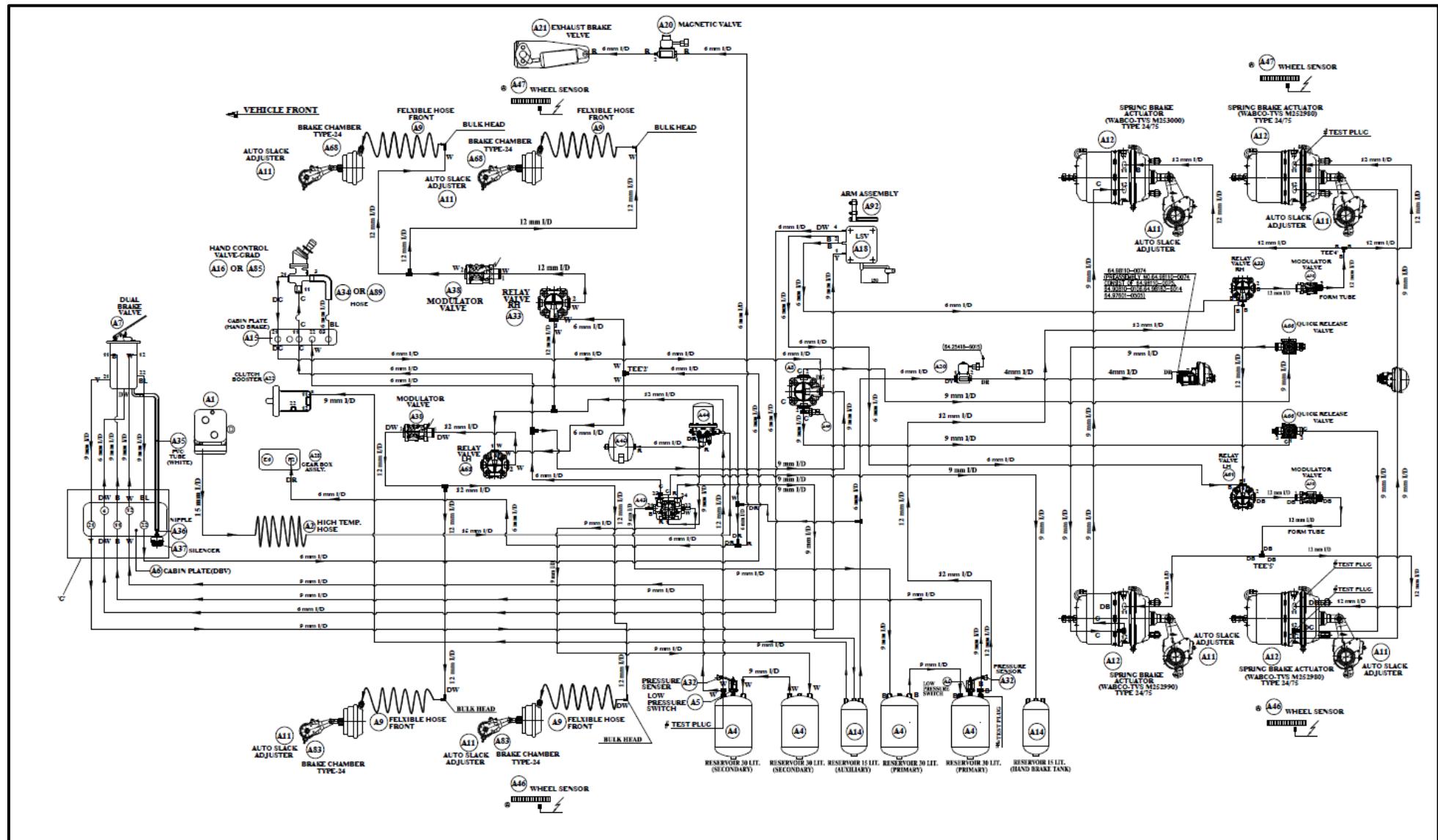


**LSV LINKAGES 31 T 8 x 2 - NON ABS**
**Diagram No. 19**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.41710-0067	MTG BKT FOR BALL JOINT	1		
-	64.90710-0029	PL WASHER A13 DIN125-ST BTS170202.12	2		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0003	LINK ROD (LSV) 350MM LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6003	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0009	BONDED RUBBER PAD (LSV MTG)	4		
5	64.51225-5003	BRACE TUBE ASSLY (LSV MTG)	1		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
6	64.96210-0010	THRUST RUBBER PIECE	1		
Page No. 30		REVISION NO. 00			VERSION: 00

## AIR BRAKE SYSTEM 31 T 8 X 2 ABS

## **Diagram No. 20**



## AIR BRAKE SYSTEM 31 T 8 X 2 ABS

## Diagram No. 20

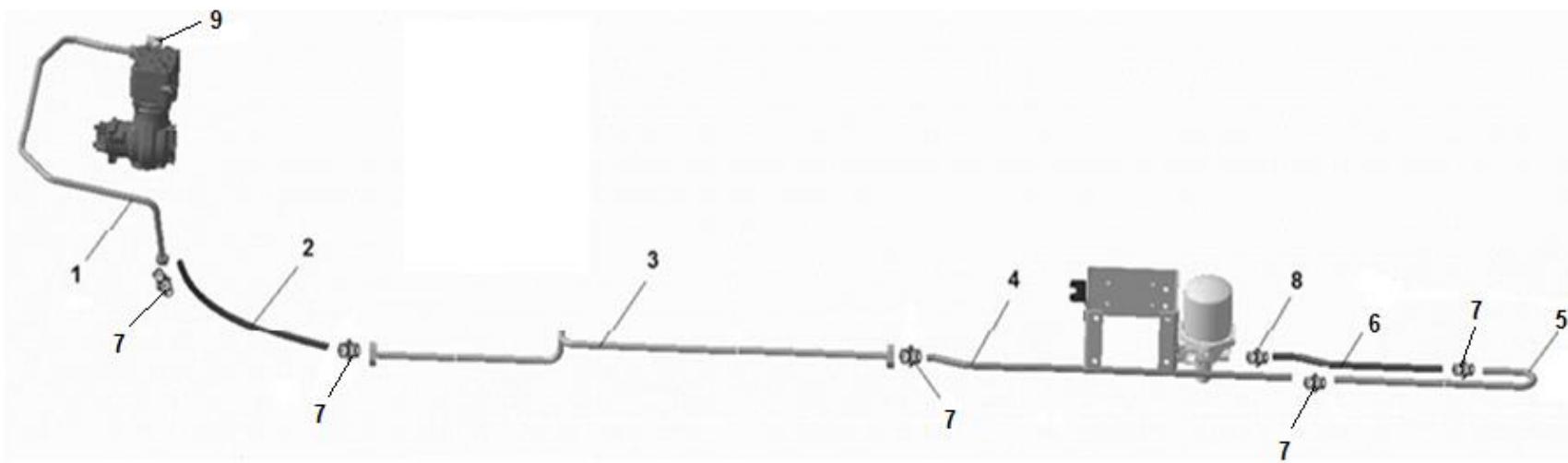
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	FOR VEHICLES FROM VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	4		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		ALTERNATE 64.98181-0028
A7	64.52130-6056	D B VALVE WITH CONNECTORS	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	1		
A9	64.51225-6003	BRAKE PIPE ASSY	4		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	6		
A12	64.52130-6013	SPRNG BRAKE ACTUATOR TYP 24/75 WITH VOSS	4		
A14	64.51401-6007	ASSY AIR TANK (15L) W CONNECTORS (AUXL)	1	FOR AUXILIARY CIRCUIT	
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		ALTERNATE 81.98181-0175
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A18	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	3		
A21	64.15600-6002	ASSY EXHAUST BRAKE W CONNECTOR	1		ALTERNATE 81.15600-6089

A22	64.30725-6006	CLUTCH BOOSTER 3"	1		CONSISTS OF 64.30725-6006 & 64.98110-0026
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		ALTERNATE 81.27421-0151
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6001	SOL. MODULATOR VALVE	2		FOR ABS VEHICLES FROM VIN : 15625
A43	64.52151-6002	QUADRUPLE SYS. PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNE	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		ALTERNATE 64.25520-0011
A50	64.52452-6002	SOL. MODULATOR VALVE	2		FOR ABS VEHICLES FROM VIN : 15625
A56	64.52130-6057	QUICK RELEASE VALVE (PRE ASSY)	2		ALTERNATE 64.52130-6033
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED) LH /NG8	1		

A83	64.50410-6009	BRAKE CHAMBER FRONT TYPE 24	2		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		
A92	64.43715-6004	ARM ASSY	1		
<b>Page No. 31</b>		<b>REVISION NO. 01/04/16</b>			<b>VERSION: 00</b>

## AIR BRAKE SYSTEM 31 T 8 X 2 ABS

Diagram No. 21

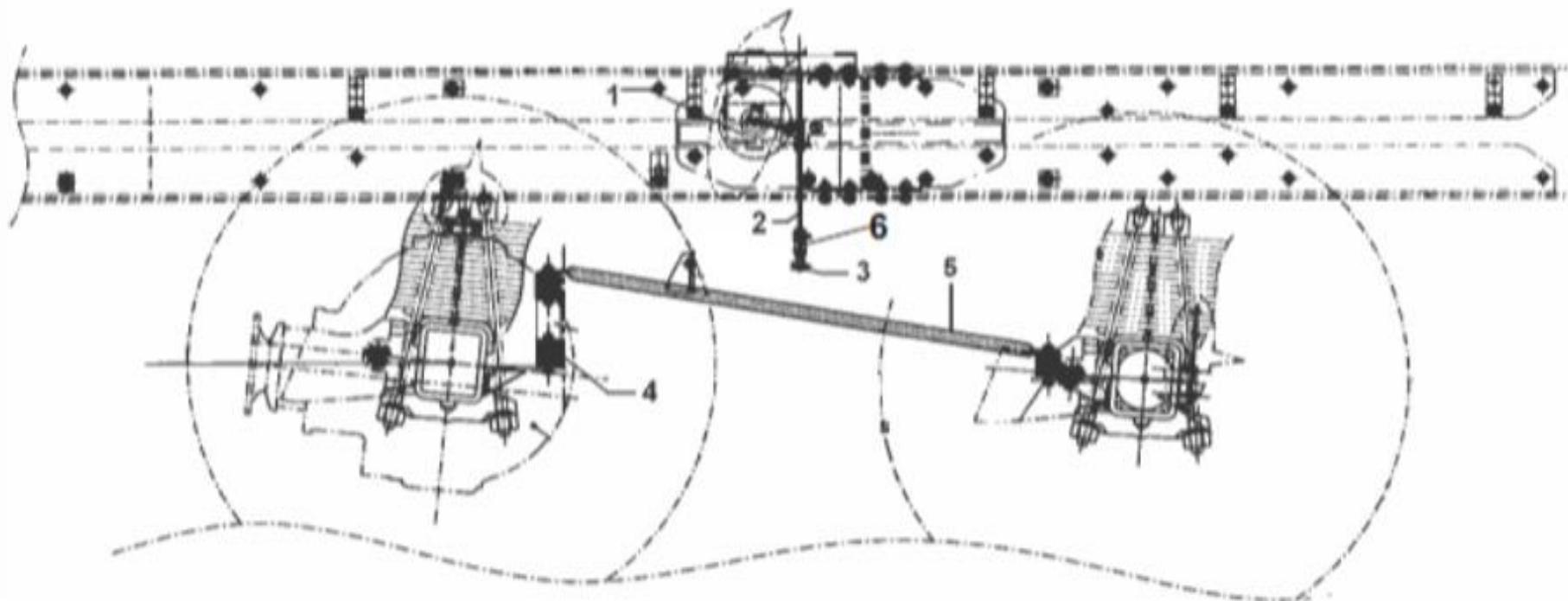


**AIR BRAKE SYSTEM 31 T 8 X 2 ABS**
**Diagram No. 21**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR ALL MODELS	
3	64.96320-5036	PIPE ASSY (FRONT HOSE TO REAR HOSE )	1		
4	64.96320-5042	PIPE ASSY (COMPRESSOR TO U BEND)	1		
5	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
6	64.96320-5047	PIPE ASSY (U BEND PIPE ASSY L=456MM)	1	FOR VEHICLES WITH ZF 9S GB	LENGTH OF PIPE : 451 MM
6	64.96320-5030	PIPE ASSY	1	FOR VEHICLES WITH EATON GB	LENGTH OF PIPE : 551 MM
7	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	5	COMMON FOR ALL MODELS	
8	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1	COMMON FOR ALL MODELS	
9	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 32		REVISION NO. 01/08/16			VERSION: 00

# LSV LINKAGES 31 T 8 x 2 - ABS

Diagram No. 22



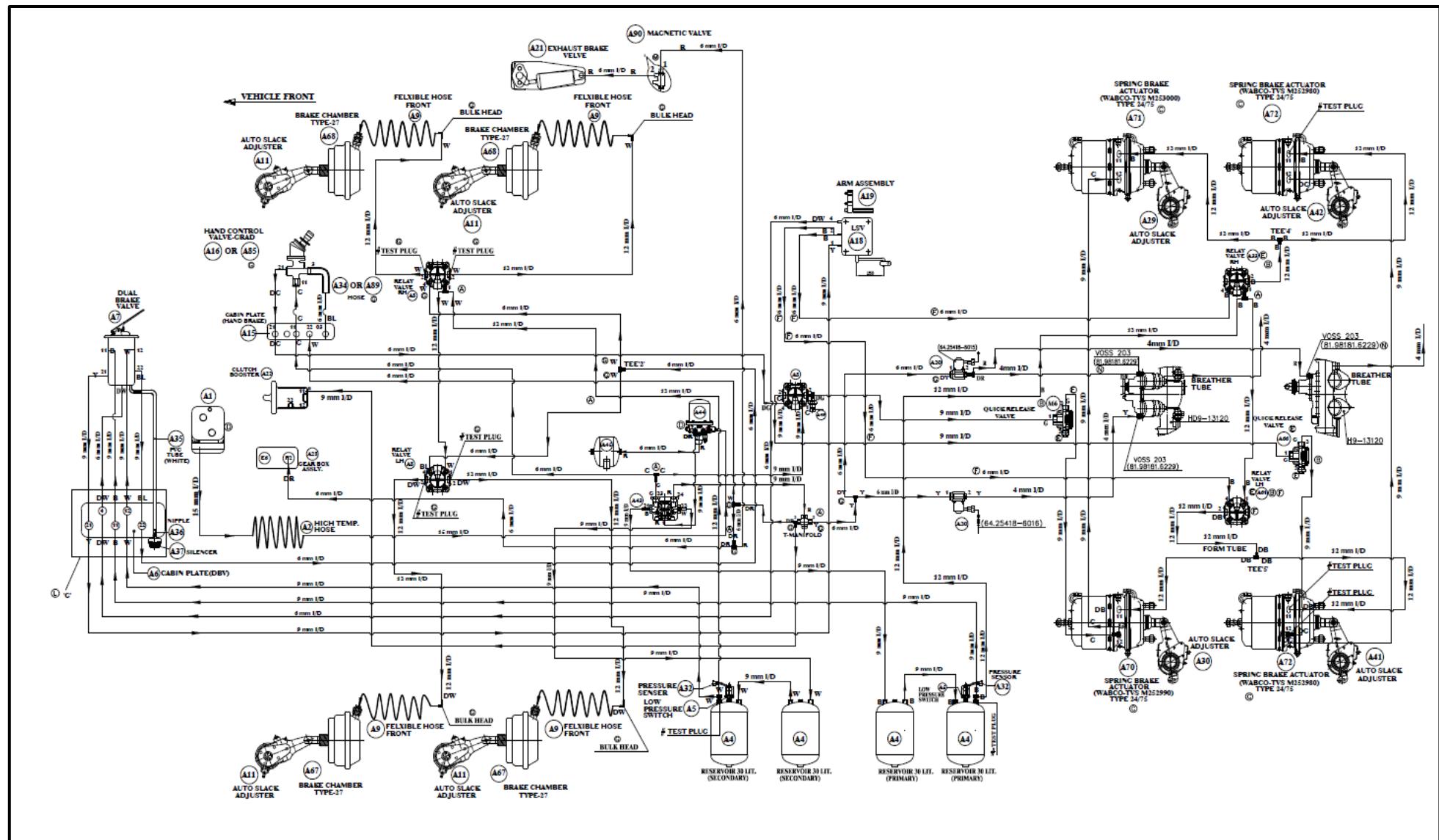
## LSV LINKAGES 31 T 8 x 2 - ABS

## Diagram No. 22

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.41710-0067	MTG BKT FOR BALL JOINT	1		
-	64.90710-0029	PL WASHER A13 DIN125-ST BTS170202.12	2		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0003	LINK ROD (LSV) 350MM LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6003	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0009	BONDED RUBBER PAD (LSV MTG)	4		
5	64.51225-5003	BRACE TUBE ASSLY (LSV MTG)	1		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
6	64.96210-0010	THRUST RUBBER PIECE	1		
Page No. 33		REVISION NO. 00			VERSION: 00

# **AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS**

## **Diagram No. 23**



## AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS

**Diagram No. 23**

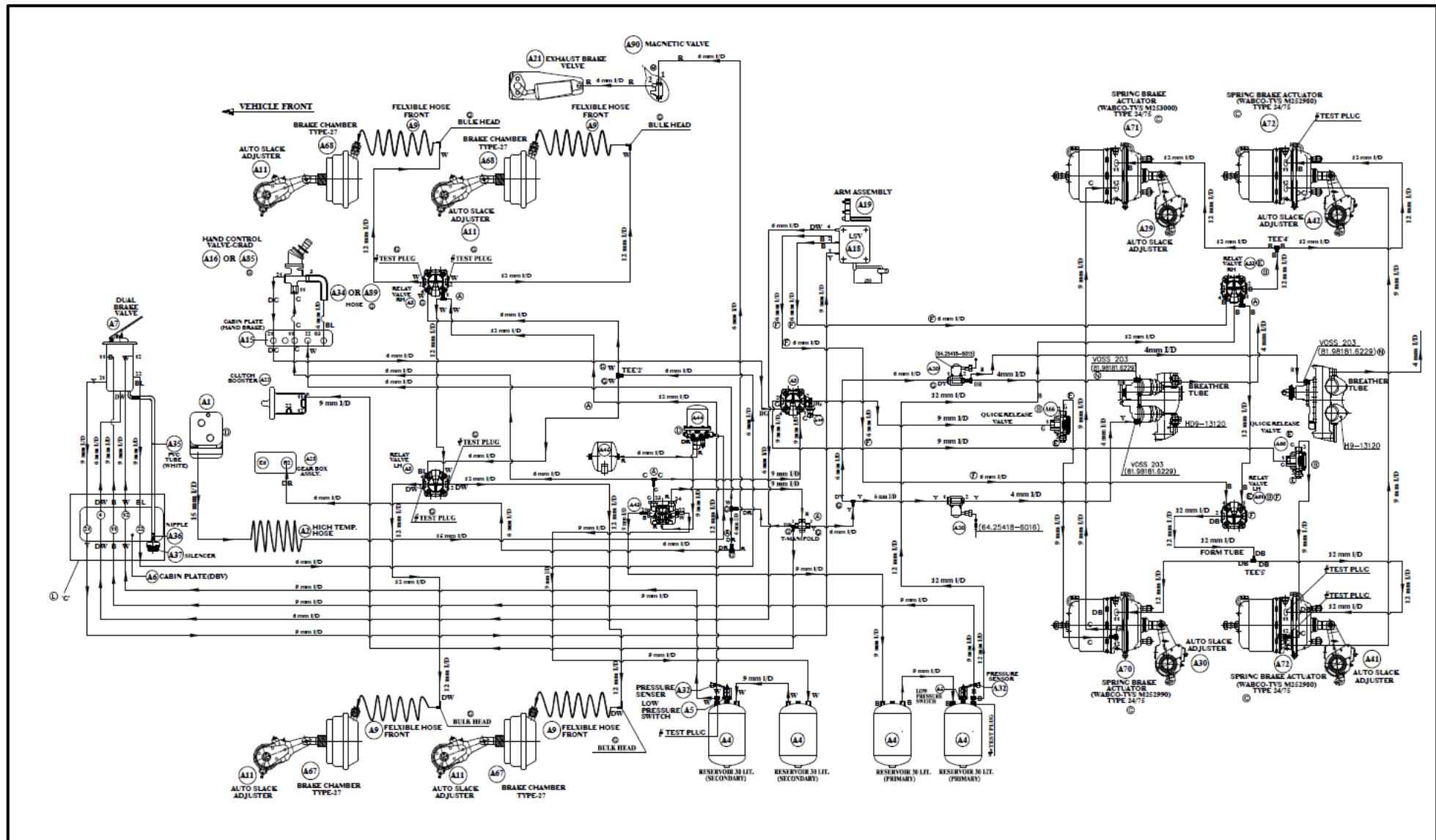
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	51.54100-7071	AIR COMPRESSOR 238 CC	1	COMMON FOR MODELS WITH 2VCR ENGINES ONLY	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITERS)	3		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	6		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	6		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	6		
-	64.97445-0003	CLAMP ASSY FOR AIR TANK MTG	6		
-	64.90020-0247	BOLT M8X80 DIN931-8.8, MAN183-B1	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	12		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	06.11240-0404	HEX. NUT BM8-8 MAN183-B1 M711260	6		
A5	64.25520-0001	LOW AIR PRESSURE SWITCH	2		
-	64.91710-0037	SEALING RING DIN 7603-A12X17-AL	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6202	DUAL BRAKE VALVE	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	4		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		

-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		
-	64.98183-6014	HEX NUT M16X1.5 NG8 VOSS )	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
-	64.90020-0096	HHS M8 X 25 DIN 933 - 8.8 BTS 170202.22	6		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	6		
A9	64.51225-6003	BRAKE PIPE ASSY	4		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	4		
-	64.41710-0024	SLACK ADJUSTER FRONT MTG BKT	4		
-	64.90501-0028	NUT AM 8-10 MAN-183-B1	4		
-	64.90710-0058	PL WASHER A8.4 DIN9021 ST BTS170202.12	4		
-	64.96210-0011	RUBBER STOPPER	4		
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		
A16	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		VALID FOR VEHICLES FROM VIN : 13355
-	64.98183-6014	HEX NUT M16X1.5 NG8 VOSS )	2		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	2		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	2		
A18	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		

-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	3		
-	64.90020-0088	HHS M6X20 DIN 933-8.8 BTS:170202.22	6		
-	64.90801-0046	SPRING WASHER B6 DIN127 A3C	6		
-	64.90710-0025	PL WASHER A6.4 DIN125-ST BTS170202.12	12		
-	64.90501-0036	HEX NUT M6X1.00 DIN 934-8 BTS:170202.22	6		
A21	64.15600-6002	ASSY EXHAUST BRAKE COMPLETE W CONNECTORS	1		
-	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
-	06.01019-0220	HEX BOLT M10X95-17709 DIN 931	3		
-	64.90650-0003	CLEVLOC NUT M10X1.5 N13004-8 BTS170202.	3		
A22	64.30725-6006	CLUTCH CYLINDER	1		
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A29	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
Page No. 34		REVISION NO. 01/09/16			VERSION: 00

# AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS

## Diagram No. 23



## AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS

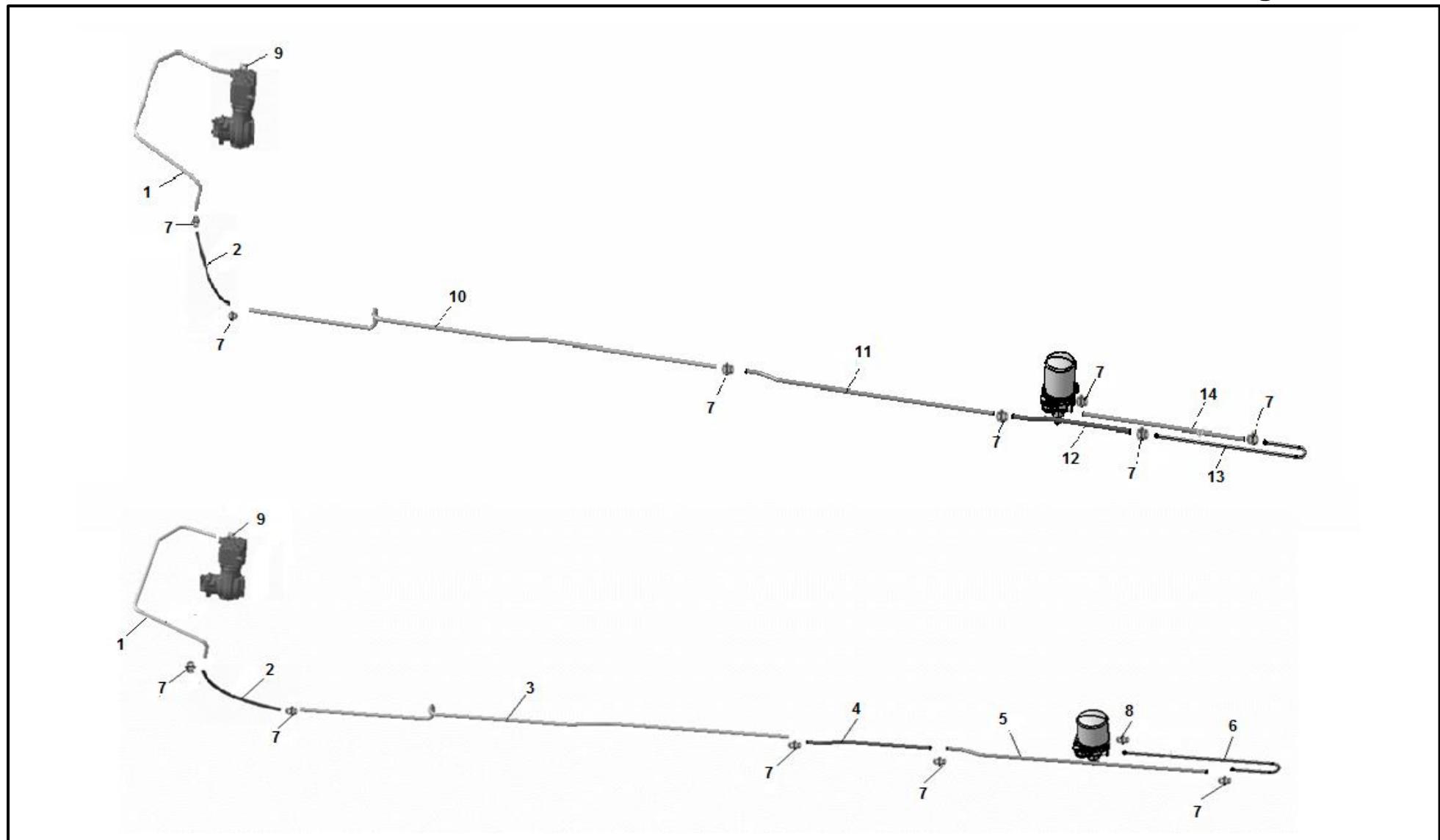
**Diagram No. 23**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A30	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
-	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	1		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	1		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A41	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A42	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	PURGE TANK 7.5 LITRES	1		
-	64.98183-6014	HEX NUT M16X1.5 NG8 VOSS )	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		

-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A66	64.52130-6033	QUICK RELEASE VALVE WITH VOSS	2		
A67	64.50410-6013	BRAKE CHAMBER TYP 27 LH	2		
A68	64.50410-6014	BRAKE CHAMBER TYP 27 RH	2		
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED)	1		
A70	64.50410-6007	BRAKE CHAMBER (24/24)W ADAPTORS (HD9) LH	1		
A71	64.50410-6008	BRAKE CHAMBER (24/75)W ADAPTORS (HD9) RH	1		
A72	64.50410-6006	BRAKE CHAMBER (24/75) W ADAPTORS (H9)	2		
-	64.91020-0106	PIN B14 F8 X40X32.5 - CQ - 15 K DIN 1444	2		
-	64.91029-0005	SPLIT PIN 4X25 DIN 94 ST BTS170202.12	2		
-	64.96002-0099	T – PLUG	1		
-	64.96002-0085	T – PLUG	1		
-	64.94299-0035	POLYAMIDE TUBE (2 MM ID)	1		
-	64.94299-0036	POLYAMIDE TUBE (6 MM ID)	1		
-	64.94299-0037	POLYAMIDE TUBE (9 MM ID)	1		
-	64.94299-0038	POLYAMIDE TUBE (12 MM ID)	1		
-	64.94299-0039	POLYAMIDE TUBE (15 MM ID)	1		
-	64.99125-0150	PIPE PNEUMATIC CONNECTION HBV22-AUX.TANK	1		
<b>Page No. 35</b>		<b>REVISION NO. 01/04/16</b>			<b>VERSION: 00</b>

# AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS

Diagram No. 24

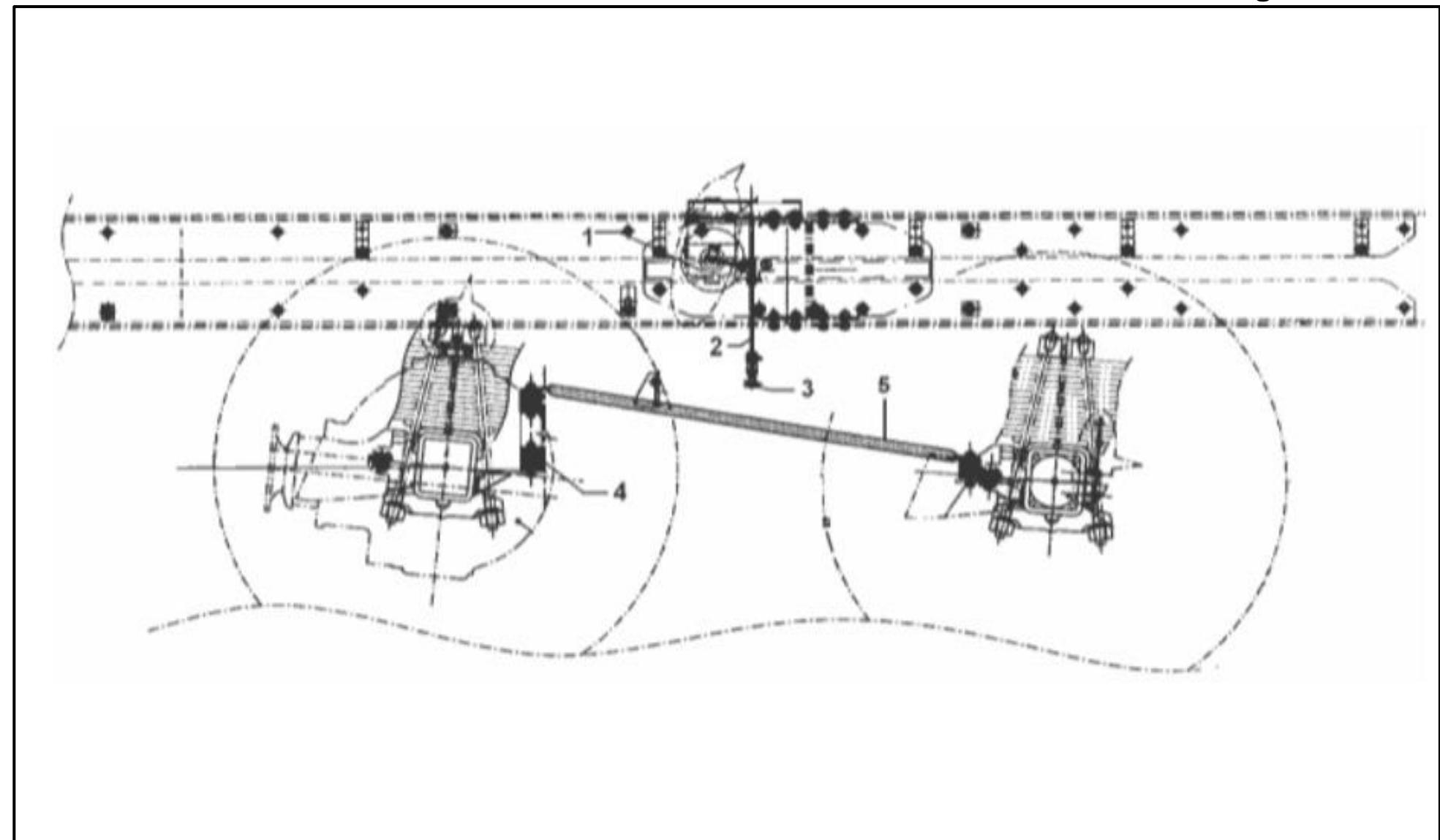


**AIR BRAKE SYSTEM 31 T 8 X 4 NON ABS****Diagram No. 24**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086
1	64.96301-0112	COMPRESSOR PIPE	1	COMMON FOR 31T TP & RMC	
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR 31T TP & RMC	
3	64.96320-5036	PIPE ASSY (FRONT HOSE TO REAR HOSE )	1	COMMON FOR 31T TP & RMC	
4	64.96320-5030	PIPE ASSY	1	COMMON FOR 31T TP & RMC	
5	64.96320-5040	PIPE ASSY (REAR HOSE TO U BEND PIPE ASSY	1	FOR 31 T TP	
6	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1	COMMON FOR 31T TP & RMC	
7	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	5	COMMON FOR 31T TP & RMC	
8	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1	COMMON FOR 31T TP & RMC	
9	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1	COMMON FOR 31T TP & RMC	
10	64.96320-5036	PIPE ASSY (FRONT HOSE TO REAR HOSE )	1	COMMON FOR 31T TP & RMC	
11	64.96320-5030	PIPE ASSY	1	COMMON FOR 31T TP & RMC	
12	64.96320-5037	PIPE ASSY (REAR HOSE TO U BEND PIPE ASSY	1	31.280 RMC ONLY	
13	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1	COMMON FOR 31T TP & RMC	
14	64.96320-5027	STRAIGHT PIPE ASSY (CS02)	1	31.280 RMC ONLY	
Page No. 36		REVISION NO. 01/08/16			VERSION: 00

# LSV LINKAGES 31 T 8 x 4 - NON ABS

Diagram No. 25

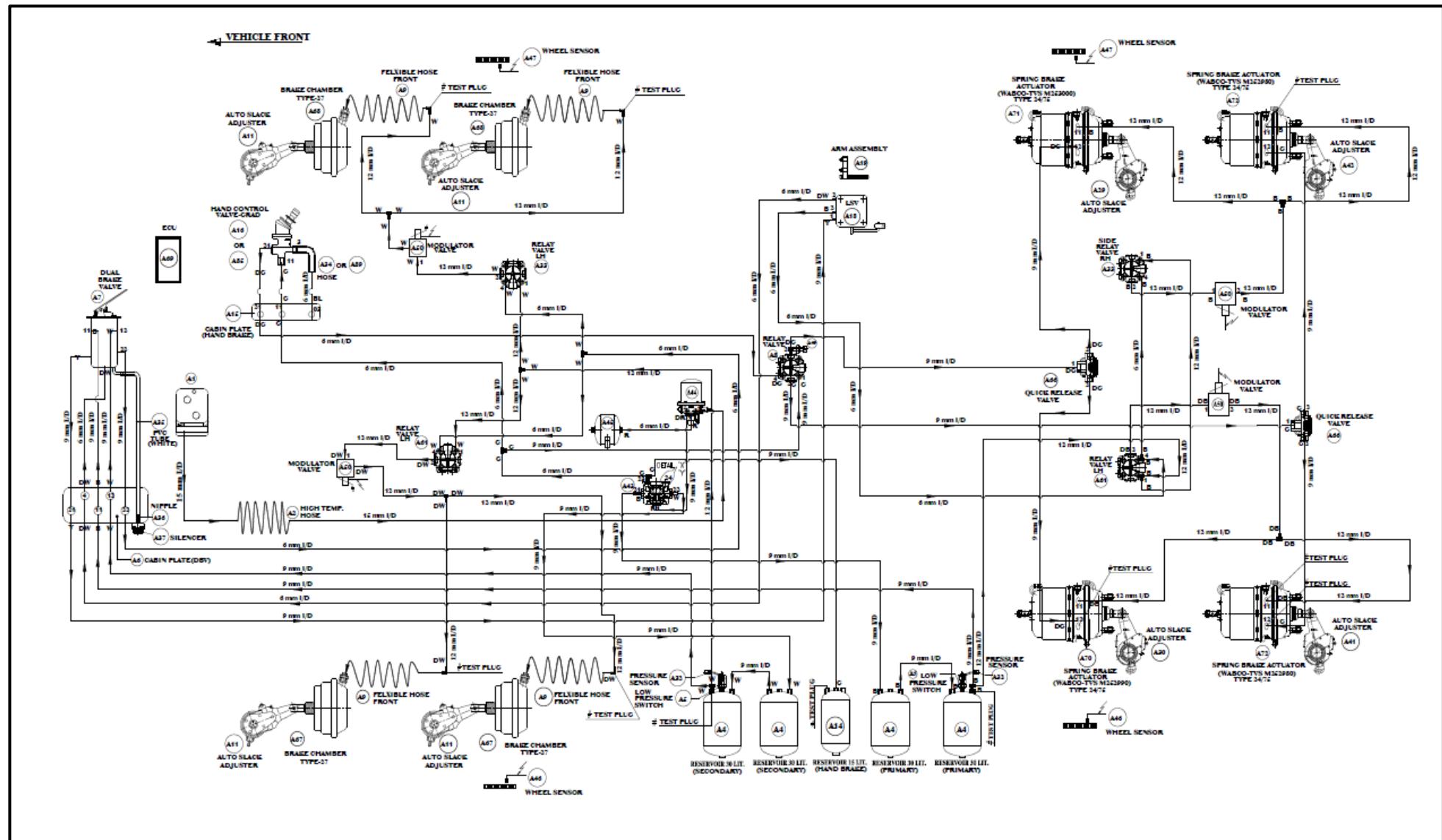


**LSV LINKAGES 31 T 8 x 4 - NON ABS**
**Diagram No. 25**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.41710-0067	MTG BKT FOR BALL JOINT	1		
-	64.90710-0029	PL WASHER A13 DIN125-ST BTS170202.12	2		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0004	LINK ROD (LSV) 530MM LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6003	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0010	THRUST RUBBER PIECE	1		
5	64.52731-0006	LINK ROD (LSV) 675MM LONG	1		
-	64.97401-0035	PIPE CLAMP 8MM DIA	2		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
6	64.96210-0012	P TYPE THRUST RUBBER PIECE	1		
Page No. 37		REVISION NO. 00			VERSION: 00

# AIR BRAKE SYSTEM 31 T 8 X 4 ABS

Diagram No. 26



## AIR BRAKE SYSTEM 31 T 8 X 4 ABS

**Diagram No. 26**

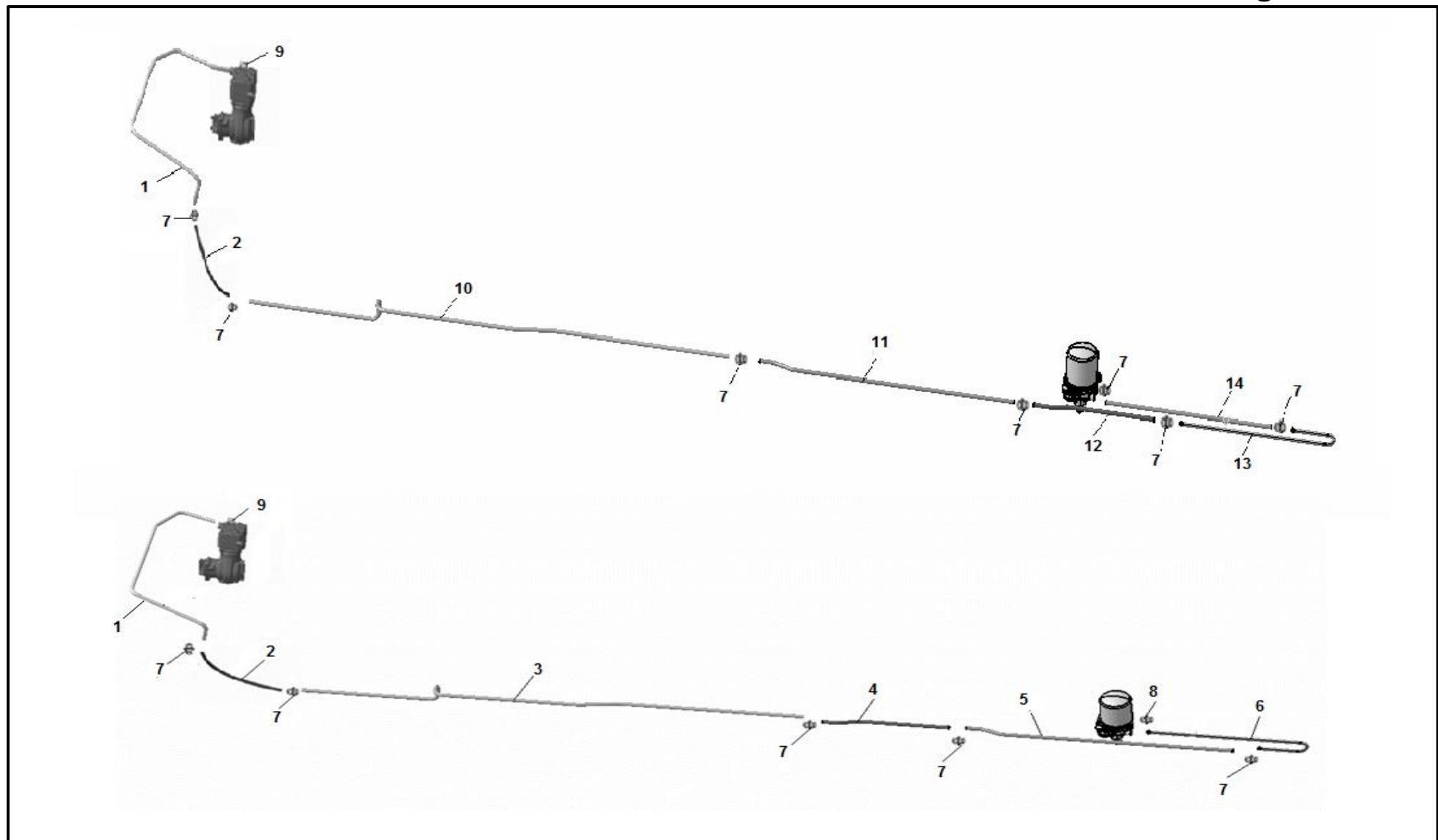
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	4		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	DUAL BRAKE VALVE	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	1		
A9	64.51225-6003	BRAKE PIPE ASSY	4		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	4		
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		ALTERNATE 81.98181-0175
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A18	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	2		
A21	81.15600-6089	ASSY EXHAUST BRAKE W CONNECTOR	1		ALTERNATE 64.15600-6002
A22	64.30725-6007	CLUTCH BOOSTER 4" W/O 3/2 VALVE	1		CONSISTS OF 64.30725-6007 & 64.98181-6017
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		

A29	64.50610-6008	AUTO SLACK ADJUSTER RH	1		ALTERNATE 81.50610-6210
A30	64.50610-6009	AUTO. SLACK ADJUSTER LH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		ALTERNATE 81.27421-0151
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	2		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A41	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		ALTERNATE 81.50610-6215
A42	64.50610-6009	AUTO SLACK ADJUSTER RH	1		
A43	64.52151-6002	QSP VALVE WITH BLEEDBACK FEATURE	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNE	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A50	64.52452-6001	SOL. MODULATOR VALVE	4		FOR ABS VEHICLES FROM VIN : 15625
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED) LH /NG8	2		

A66	64.52130-6033	QUICK RELEASE VALVE WITH VOSS	2		
A67	64.50410-6013	BRAKE CHAMBER TYP 27 LH	2		
A68	64.50410-6014	BRAKE CHAMBER TYP 27 RH	2		
A69	64.25808-6002	ABS CONTROL UNIT 4S4M	1		
A70	64.50410-6007	BRAKE CHAMBER (24/24)W ADAPTORS (HD9) LH	1		
A71	64.50410-6008	BRAKE CHAMBER (24/24)W ADAPTORS (HD9) RH	1		
A72	64.50410-6006	BRAKE CHAMBER (24/24) W ADAPTORS (H9)	2		
A73	81.38100-6771	PTO NH-1C DRIVE	1		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		
<b>Page No. 38</b>		<b>REVISION NO. 01/04/16</b>			<b>VERSION: 00</b>

## AIR BRAKE SYSTEM 31 T 8 X 4 ABS

Diagram No. 27



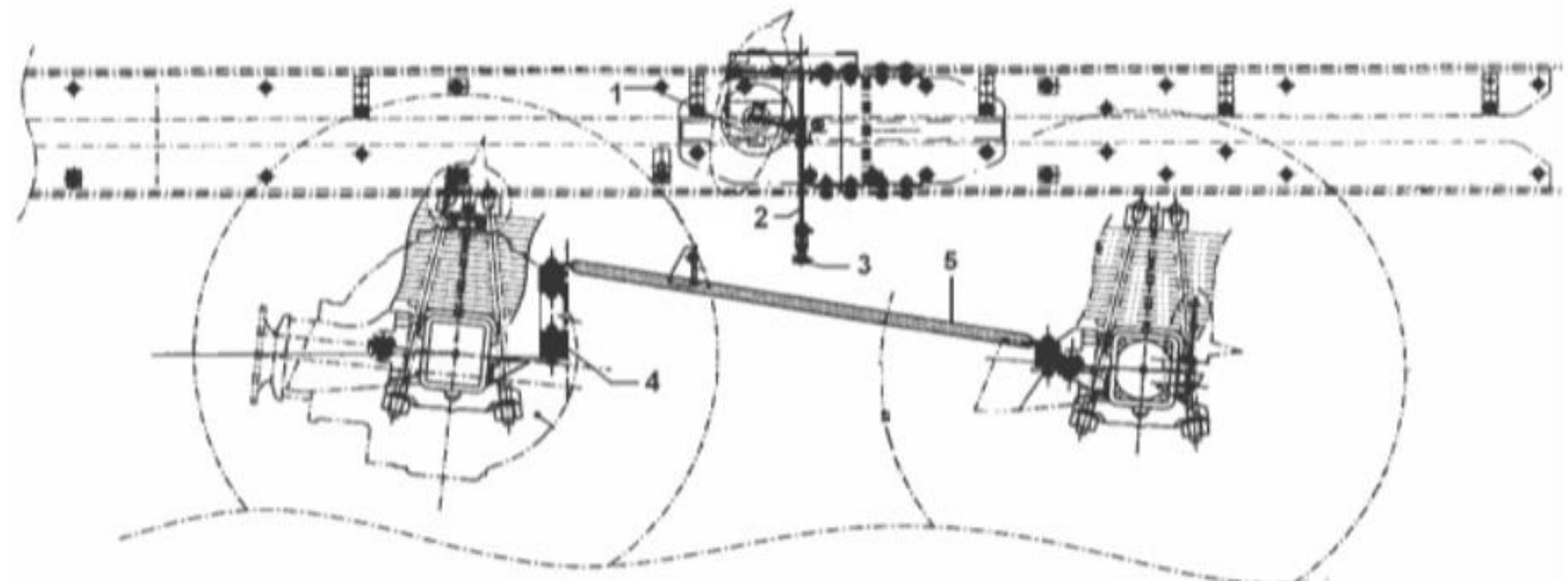
## AIR BRAKE SYSTEM 31 T 8 X 4 ABS

**Diagram No. 27**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086
1	64.96301-0112	COMPRESSOR PIPE	1	COMMON FOR 31T TP & RMC	
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR 31T TP & RMC	
3	64.96320-5036	PIPE ASSY (FRONT HOSE TO REAR HOSE )	1	COMMON FOR 31T TP	
4	64.96320-5030	PIPE ASSY	1	COMMON FOR 31T TP & RMC	
5	64.96320-5040	PIPE ASSY (REAR HOSE TO U BEND PIPE ASSY	1	COMMON FOR 31T TP & RMC	
6	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1	COMMON FOR 31T TP & RMC	
7	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	5	COMMON FOR 31T TP & RMC	
8	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1	COMMON FOR 31T TP & RMC	
9	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1	COMMON FOR 31T TP & RMC	
10	64.96320-5039	PIPE ASSY -FRONT HOSE TO REAR PIPE ASSY	1	COMMON FOR 31T RMC	
11	64.96320-5030	PIPE ASSY	1	COMMON FOR 31T TP & RMC	
12				NOT USED IN 31 T TP & RMC	
13				NOT USED IN 31 T TP & RMC	
14				NOT USED IN 31 T TP & RMC	
Page No. 39		REVISION NO. 01/08/16			VERSION: 00

# LSV LINKAGES 31 T 8 x 4 - ABS

Diagram No. 28

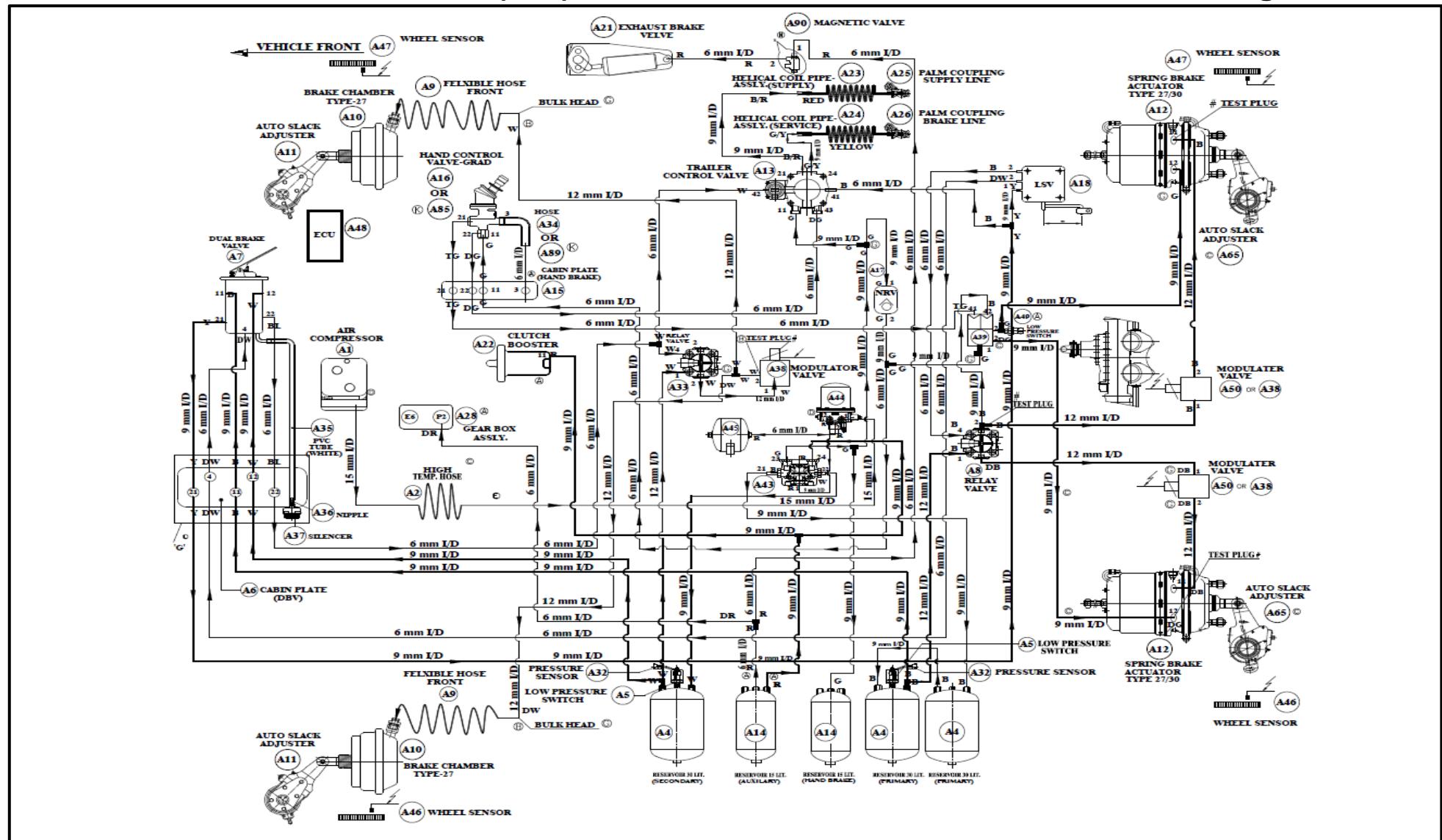


**LSV LINKAGES 31 T 8 x 4 - ABS**
**Diagram No. 28**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.41710-0067	MTG BKT FOR BALL JOINT	1		
-	64.90710-0029	PL WASHER A13 DIN125-ST BTS170202.12	2		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0004	LINK ROD (LSV) 530MM LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6003	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0010	THRUST RUBBER PIECE	1		
5	64.52731-0006	LINK ROD (LSV) 675MM LONG	1		
-	64.97401-0035	PIPE CLAMP 8MM DIA	2		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
6	64.96210-0012	P TYPE THRUST RUBBER PIECE	1		
Page No. 40		REVISION NO. 00			VERSION: 00

## AIR BRAKE SYSTEM 40T 40.220 (4X2)

## Diagram No. 29



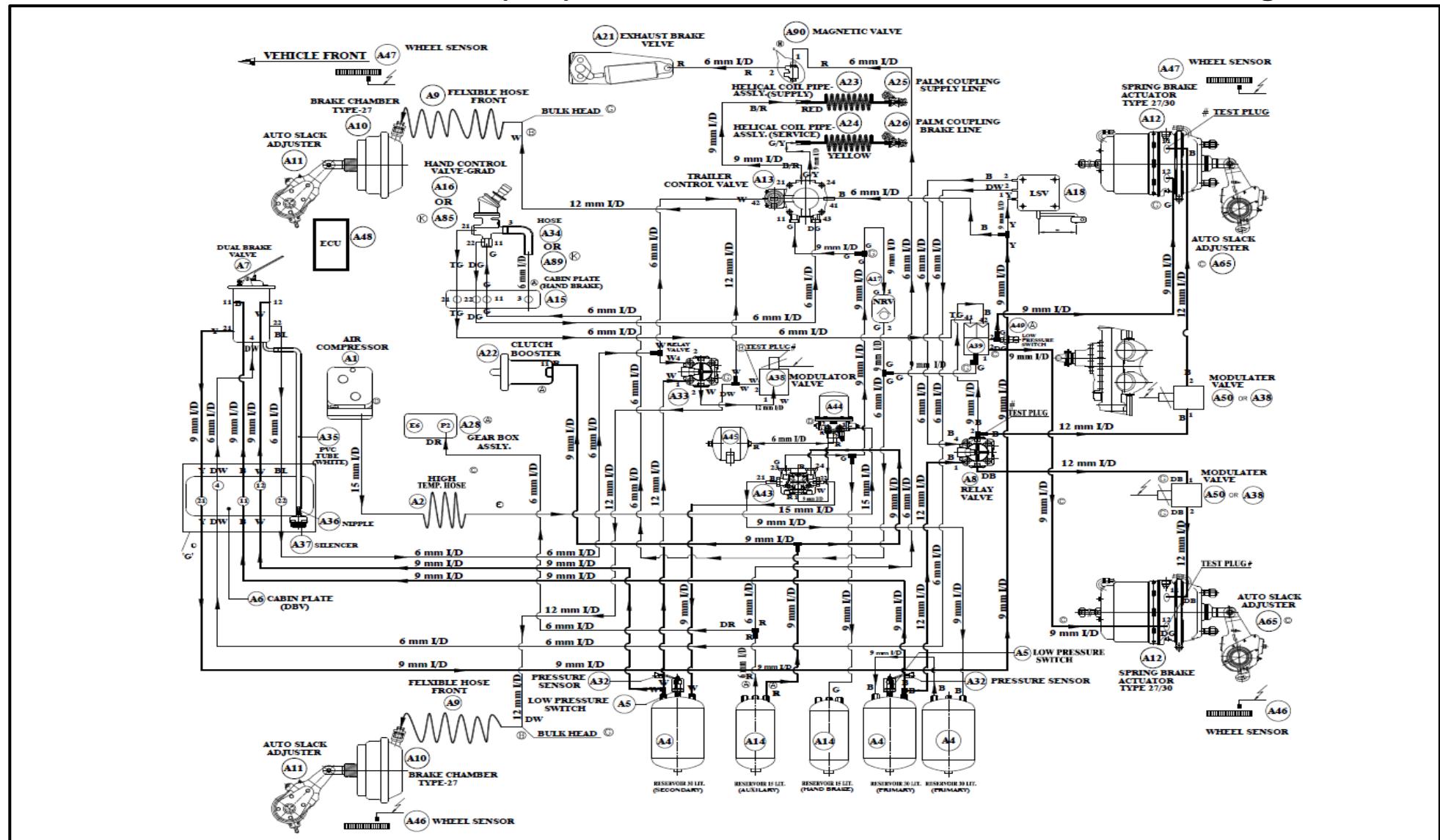
**AIR BRAKE SYSTEM 40T 40.220 (4X2)**
**Diagram No. 29**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	51.54100-7071	AIR COMPRESSOR 238 CC	1	COMMON FOR MODELS WITH 2VCR ENGINES ONLY	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	HIGH TEMP HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITRES)	3		
A5	64.25520-0001	LOW PRESSURE SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	DUAL BRAKE VALVE	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
A9	64.51225-6001	FRONT BRAKE PIPE ASSY	2		
A10	64.51101-6001	BRAKE CHAMBER TYPE 27	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER (L = 160MM)	2		
A12	64.52130-6002	SPRING BRAKE ACTUATOR TY 27/30	2		
A13	64.52130-6047	TRAILER CONTROL VALVE	1	COMMON FOR 49.220 TR, 40.220 TR, 40.300 TR & 49.300 TR ONLY	
A13	64.52130-6039	TRAILER CONTROL VALVE	1	COMMON FOR 49.280TR & 40.280 TR ONLY	
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A14	64.51401-6007	AIR TANK (15L) W CONNECTORS (AUXL)	1	FOR AUXILIARY CIRCUIT	
A15	64.98181-0006	CABIN PLATE (HAND BRAKE VALVE)	1		ALTERNATE 81.98181-0175
A16	64.52315-7001	HAND BRAKE VALVE KIT (TRACTOR)	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS BEFORE VIN : 13671

A16	64.52315-6014	HAND BRAKE VALVE	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS FROM VIN : 13671
A17	64.52130-6030	NON RETURN VALVE WITH VOSS	1		SUPERCEDED BY 64.52130-6031
A18	64.52161-6001	AUTOMATIC LOAD SENSING VALVE (185MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A21	64.15600-6002	EXHAUST BRAKE VALVE (6 CYL)	1		ALTERNATE 81.15600-6089
A22	64.30725-6006	CLUTCH BOOSTER 3"	1		CONSISTS OF 64.30725-6006 & 64.98110-0026
A23	64.25402-6001	POLYAMIDE TUBE SUPPLY (RED)	1		SUPERCEDED BY 64.25402-6114
A24	64.25402-6002	POLYAMIDE TUBE BRAKE ( YELLOW)	1		SUPERCEDED BY 64.25402-6115
A25	64.51220-6001	PALM COUPLING- SUPPLY LINE	1		
A26	64.52299-6002	PALM COUPLING – SERVICE	1		
A27	64.97010-6001	GEAR SHIFT KNOB	1		
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A29	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A30	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
Page No. 41		REVISION NO. 01/09/16			VERSION: 00

## AIR BRAKE SYSTEM 40T 40.220 (4X2)

## Diagram No. 29

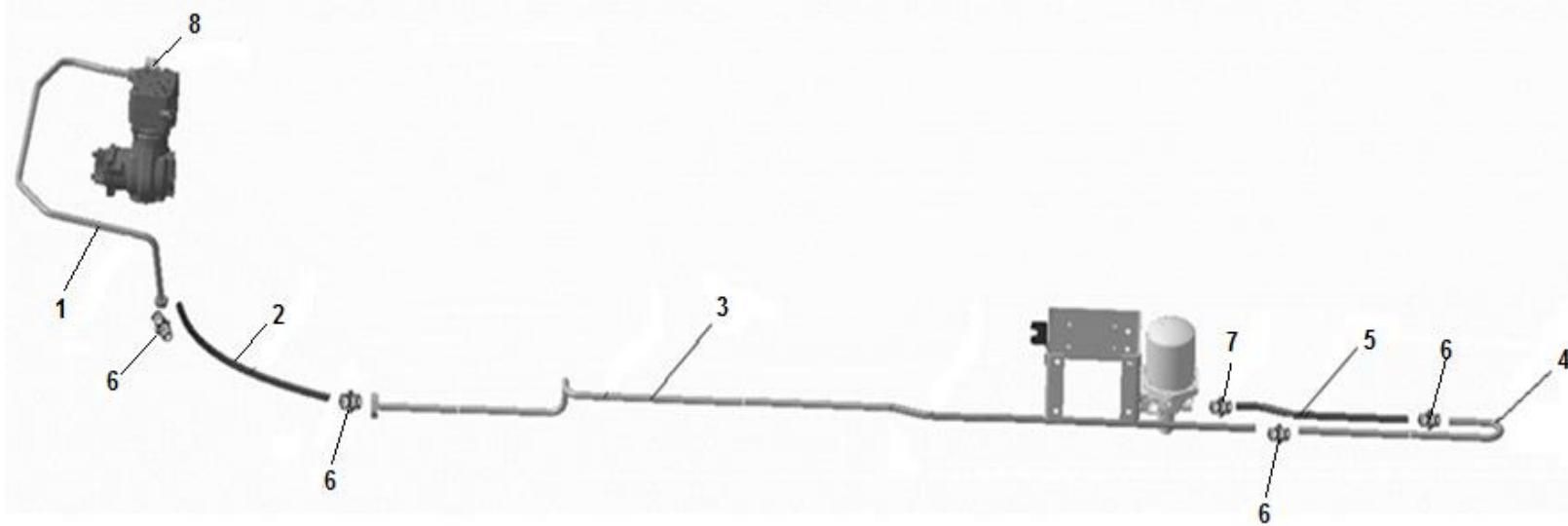


**AIR BRAKE SYSTEM 40T 40.220 (4X2)**
**Diagram No. 29**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		
A39	81.52116-6079	RELAY VALVE HAND BRAKE	1		
A43	64.52151-6002	QUADRUPLE SYSTEM PROTECTION VALVE	1		ALTERNATE 81.52151-6098
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-0003	PURGE TANK 7.5 LITRES	1		SUPERCEDED BY 64.51401-6011
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		
A48	64.25808-6001	ABS CONTROL UNIT	1	COMMON FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	COMMON FOR 8X4 & 8X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A50	64.52452-6001	SOL. MODULATOR VALVE(ALT TO A38)	2		
A85	64.52315-6014	HAND BRAKE VALVE	1		REF SR : A16
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		
A90	81.52160-6115	MAGNETIC VALVE	1		
Page No. 42		REVISION NO. 01/05/16			VERSION: 00

## AIR BRAKE SYSTEM 40 T 40.220 (4 X 2)

Diagram No. 30

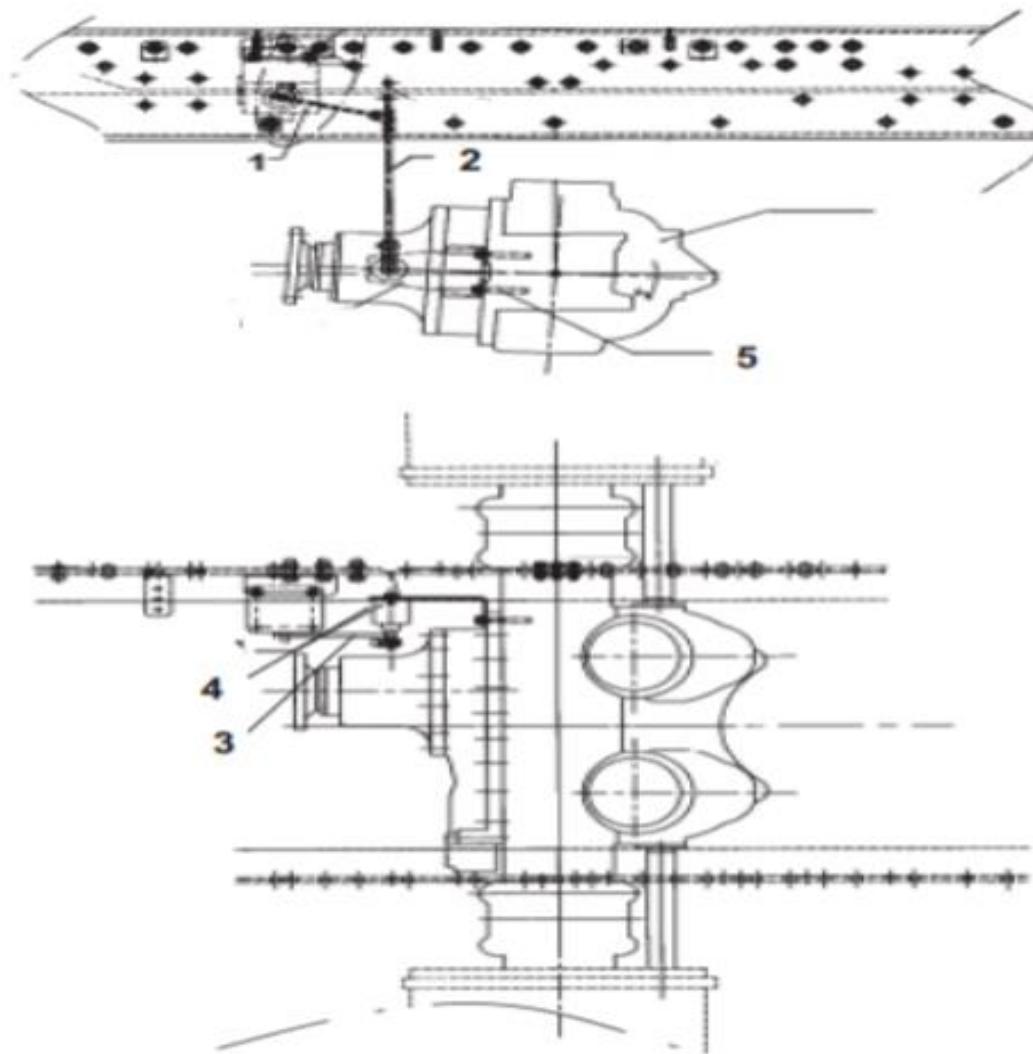


**AIR BRAKE SYSTEM 40 T 40.220 (4 X 2)****Diagram No. 30**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5033	PIPE ASSY-FLEX HOSE TO U BEND PIPE ASSY	1		
4	64.96320-5024	PIPE ASSY (U BEND)	1		
5	64.96320-5031	PIPE ASSY	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4		
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1		
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 43		REVISION NO. 01/08/16			VERSION: 00

# LSV LINKAGES 40 T 40.220

Diagram No. 31

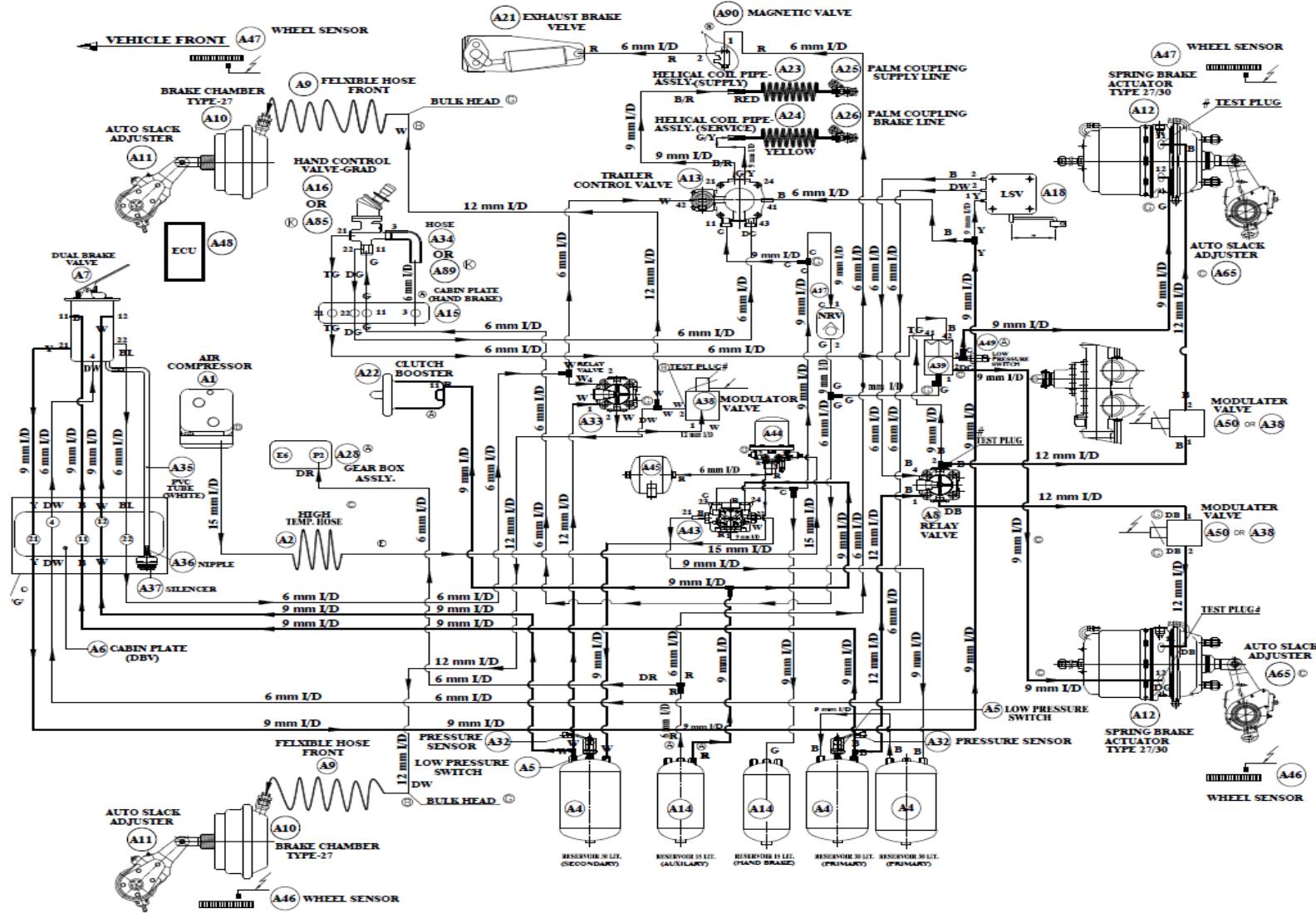


## **LSV LINKAGES 40 T 40.220**

## **Diagram No. 31**

# AIR BRAKE SYSTEM 40T 40.280 (4X2)

Diagram No. 32



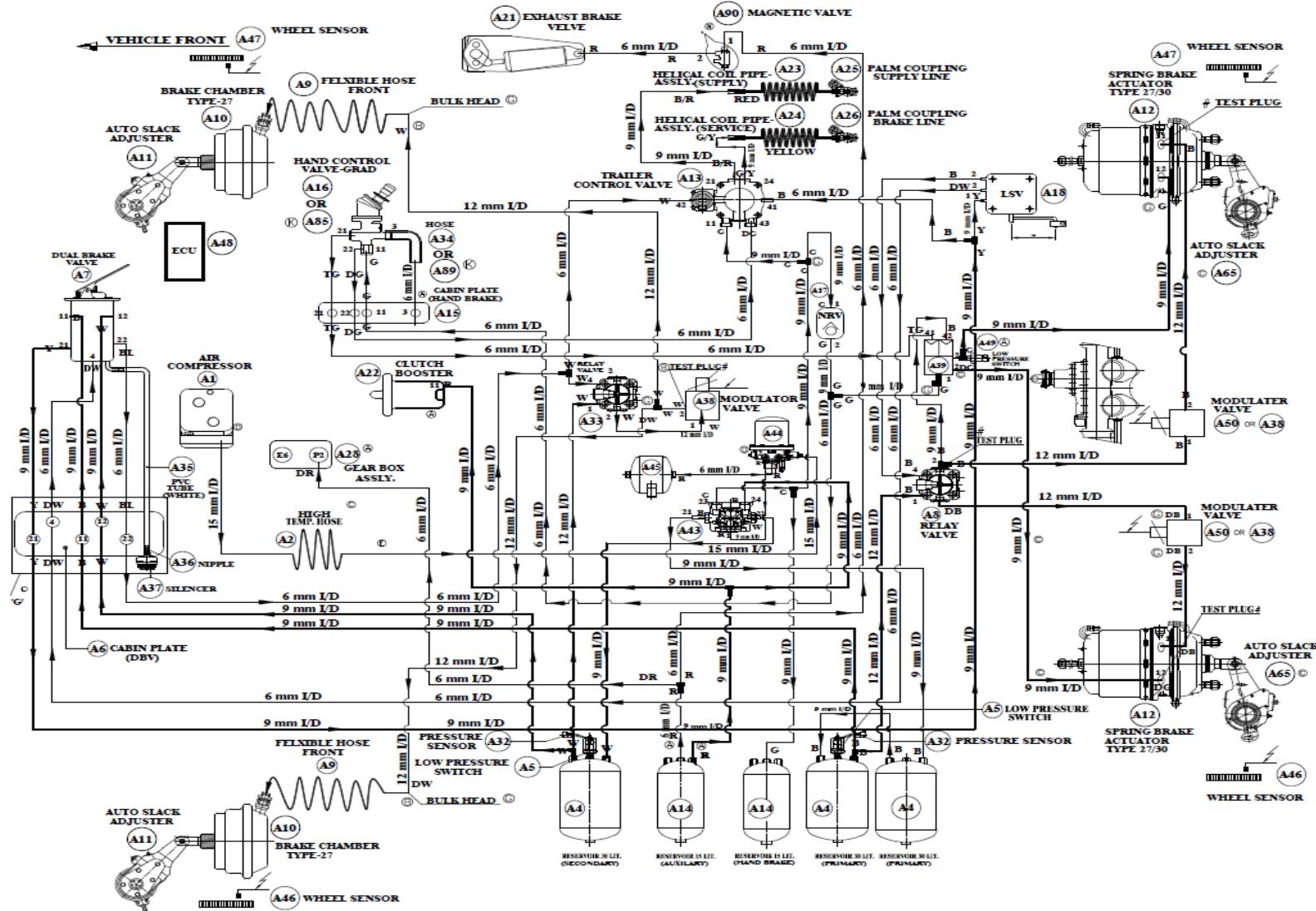
**AIR BRAKE SYSTEM 40T 40.280 (4X2)**
**Diagram No. 32**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	51.54100-7071	AIR COMPRESSOR 238 CC	1	COMMON FOR MODELS WITH 2VCR ENGINES ONLY	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITRES)	3		
A5	64.25520-0001	LOW PRESSURE SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	DUAL BRAKE VALVE	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A10	64.51101-6001	BRAKE CHAMBER TYPE 27	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER (L = 160MM)	2		
A12	64.52130-6002	SPRING BRAKE ACTUATOR TY 27/30	2		
A13	64.52130-6047	TRAILER CONTROL VALVE	1	COMMON FOR 49.220 TR, 40.220 TR, 40.300 TR & 49.300 TR ONLY	
A13	64.52130-6039	TRAILER CONTROL VALVE	1	COMMON FOR 49.280TR & 40.280 TR ONLY	
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A14	64.51401-6007	AIR TANK (15L) W CONNECTORS (AUXL)	1	FOR AUXILIARY CIRCUIT	
A15	64.98181-0006	CABIN PLATE (HAND BRAKE VALVE)	1		ALTERNATE 81.98181-0175

A16	64.52315-7001	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13671
A16	64.52315-6014	HAND BRAKE VALVE	1		VALID FOR VEHICLES FROM VIN : 13671
A17	64.52130-6030	NON RETURN VALVE WITH VOSS	1		SUPERCEDED BY 64.52130-6031
A18	64.52161-6001	AUTOMATIC LOAD SENSING VALVE (185MM)	1		
A20	81.52160-6115	MAGNETIC VALVE	1		
<b>Page No. 45</b>	<b>REVISION NO. 01/09/16</b>				<b>VERSION: 00</b>

# AIR BRAKE SYSTEM 40T 40.280 (4X2)

Diagram No. 32



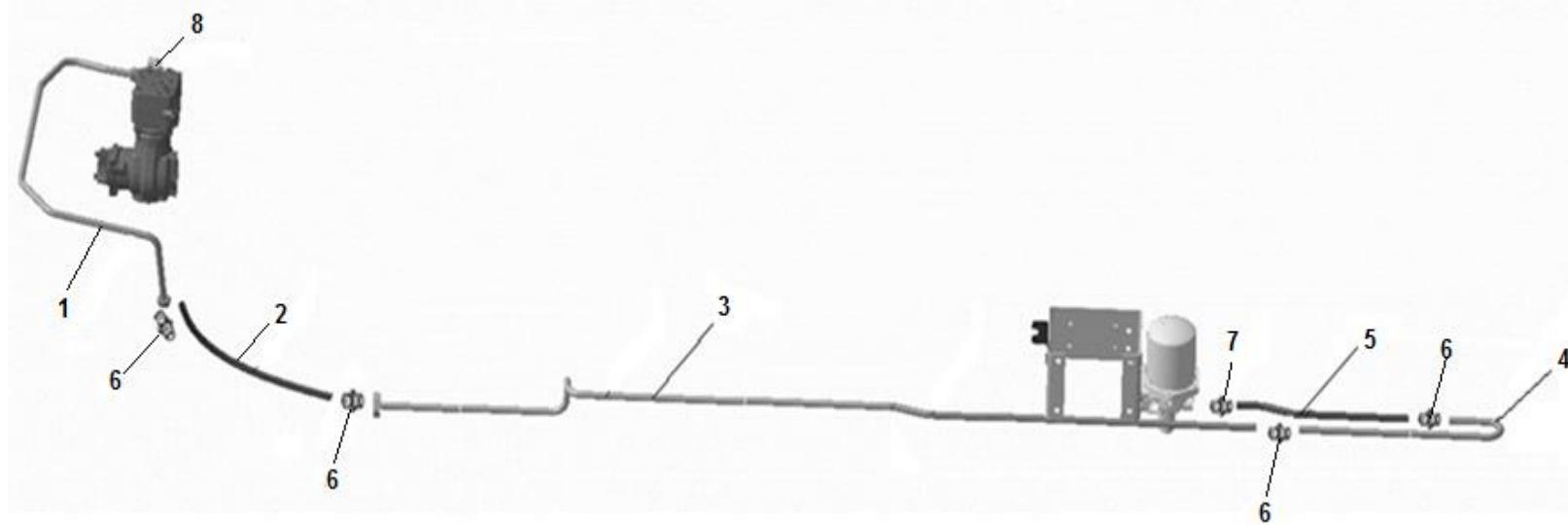
**AIR BRAKE SYSTEM 40T 40.280 (4X2)****Diagram No. 32**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A21	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
A22	64.30725-6006	CLUTCH BOOSTER 3"	1		CONSISTS OF 64.30725-6006 & 64.98110-0026
A23	64.25402-6001	POLYMIDE TUBE SUPPLY (RED)	1		SUPERCEDED BY 64.25402-6114
A24	64.25402-6002	POLYAMIDE TUBE BRAKE ( YELLOW)	1		SUPERCEDED BY 64.25402-6115
A25	64.51220-6001	PALM COUPLING- SUPPLY LINE	1		
A26	64.52299-6002	PALM COUPLING - SERVICE	1		
A28	64.32518-4002	GEAR SHIFT RAIL (H/L)	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A35	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		
A39	81.52116-6079	RELAY VALVE HAND BRAKE	1		
A43	64.52151-6002	QUADRUPLE SYSTEM PROTECTION VALVE	1		ALTERNATE 81.52151-6098
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071

A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-0003	PURGE TANK 7.5 LITRES	1		SUPERCEDED BY 64.51401-6011
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		
A49	81.25520-0184	LOW PRESSURE SWITCH	1		ALTERNATE 64.25520-0011
A50	64.52452-6001	SOL. MODULATOR VALVE(ALT TO A38)	2		
A65	64.50610-6010	SLACK ADJUSTER REAR 160MM (DIA. 14 C12)	1		
A85	64.52315-6014	HAND BRAKE VALVE	1		REF SR : A16
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		
A90	81.52160-6115	MAGNETIC VALVE	1		
<b>Page No. 46</b>		<b>REVISION NO. 01/04/16</b>			<b>VERSION: 00</b>

## AIR BRAKE SYSTEM 40 T 40.280 (4 X 2)

Diagram No. 33

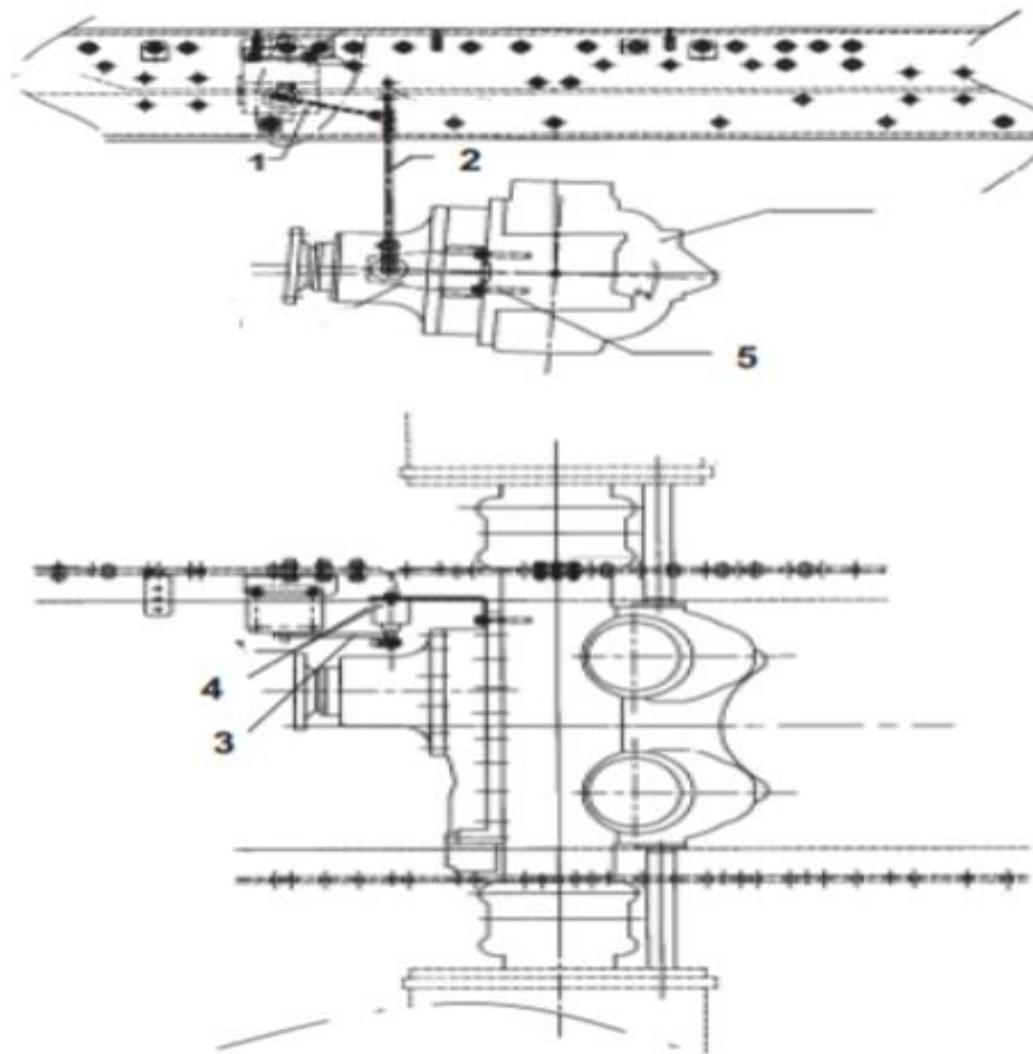


**AIR BRAKE SYSTEM 40 T 40.280 (4 X 2)****Diagram No. 33**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1	NOT USED	CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5026	PIPE ASSY (FLEX.HOSE TO U BEND PIPE )	1		
4	64.96320-5024	PIPE ASSY (U BEND)	1		
5	64.96320-5038	PIPE ASSY (OIL SEPARATOR TO AIR DRIER)PI	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4		
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1		
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 47		REVISION NO. 01/08/16			VERSION: 00

# LSV LINKAGES 40 T 40.280

Diagram No. 34

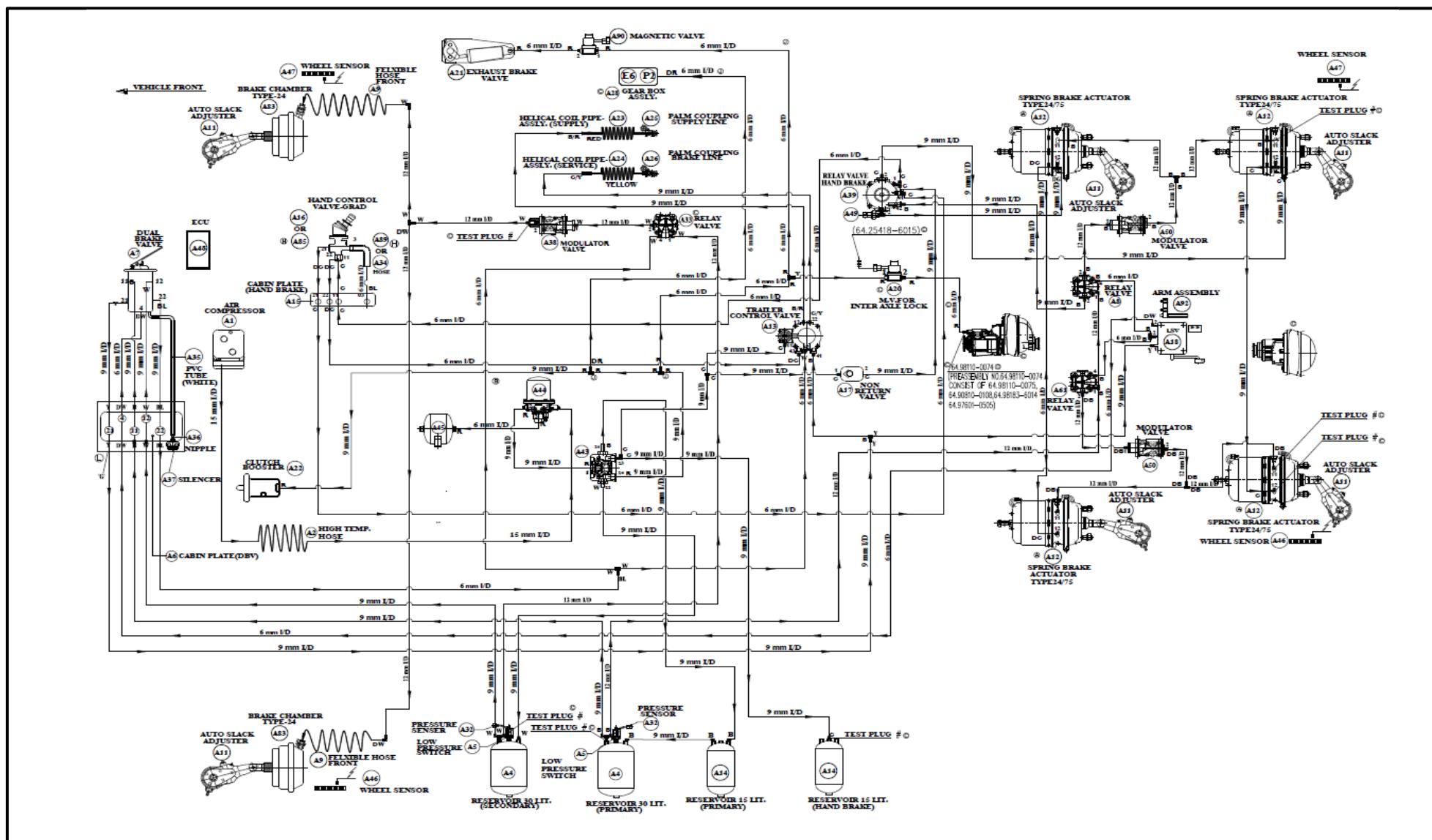


## **LSV LINKAGES 40 T 40.280**

## **Diagram No. 34**

# AIR BRAKE SYSTEM 49 T 49.220

Diagram No. 35



## AIR BRAKE SYSTEM 49 T 49.220

## Diagram No. 35

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITRES)	2		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	4		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		
-	64.97445-0003	CLAMP ASSY FOR AIR TANK MTG	4		
-	64.90020-0247	BOLT M8X80 DIN931-8.8, MAN183-B1	4		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	8		
-	06.11240-0404	HEX. NUT BM8-8 MAN183-B1 M711260	4		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
-	64.91710-0037	SEALING RING DIN 7603-A12X17-AL	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	DUAL BRAKE VALVE(KNORR)	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	4		
Page No. 49		REVISION NO. 00			VERSION: 00

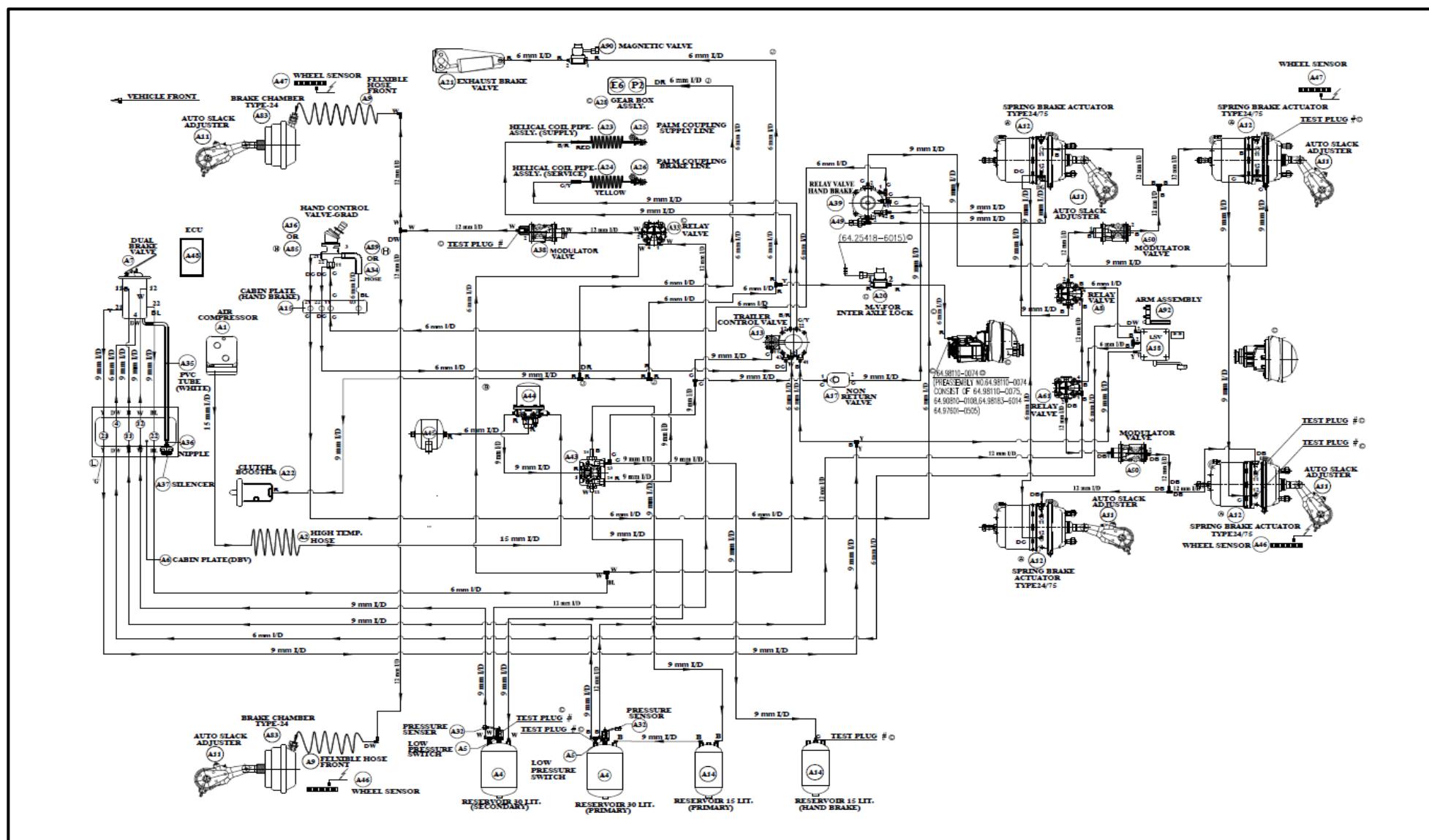
## AIR BRAKE SYSTEM 49 T 49.220

## Diagram No. 35

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		
-	64.98183-6014	HEX NUT M16X1.5 NG8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
-	64.90020-0096	HHS M8 X 25 DIN 933 - 8.8 BTS 170202.22	6		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	6		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	6		
-	64.41710-0024	SLACK ADJUSTER FRONT MTG BKT	2		
-	64.90501-0028	NUT AM 8-10 MAN-183-B1	2		
-	64.90710-0058	PL WASHER A8.4 DIN9021 ST BTS170202.12	2		
-	64.96210-0011	RUBBER STOPPER	2		
A12	64.52130-6013	SPRING BRAKE ACTUATOR TYP 24/75 WITH VOSS	4		
A13	64.52130-6047	TRAILER CONTROL VALVE	1	COMMON FOR 49.220 TR, 40.220 TR, 40.300 TR & 49.300 TR ONLY	
A13	64.52130-6039	TRAILER CONTROL VALVE	1	COMMON FOR 49.280TR & 40.280 TR ONLY	
A14	64.51401-6009	AIR TANK (15L) W CONNECTORS	1	FOR AUXILIARY CIRCUIT	
Page No. 50		REVISION NO. 01/05/16			VERSION: 00

## AIR BRAKE SYSTEM 49 T 49.220

## **Diagram No. 35**



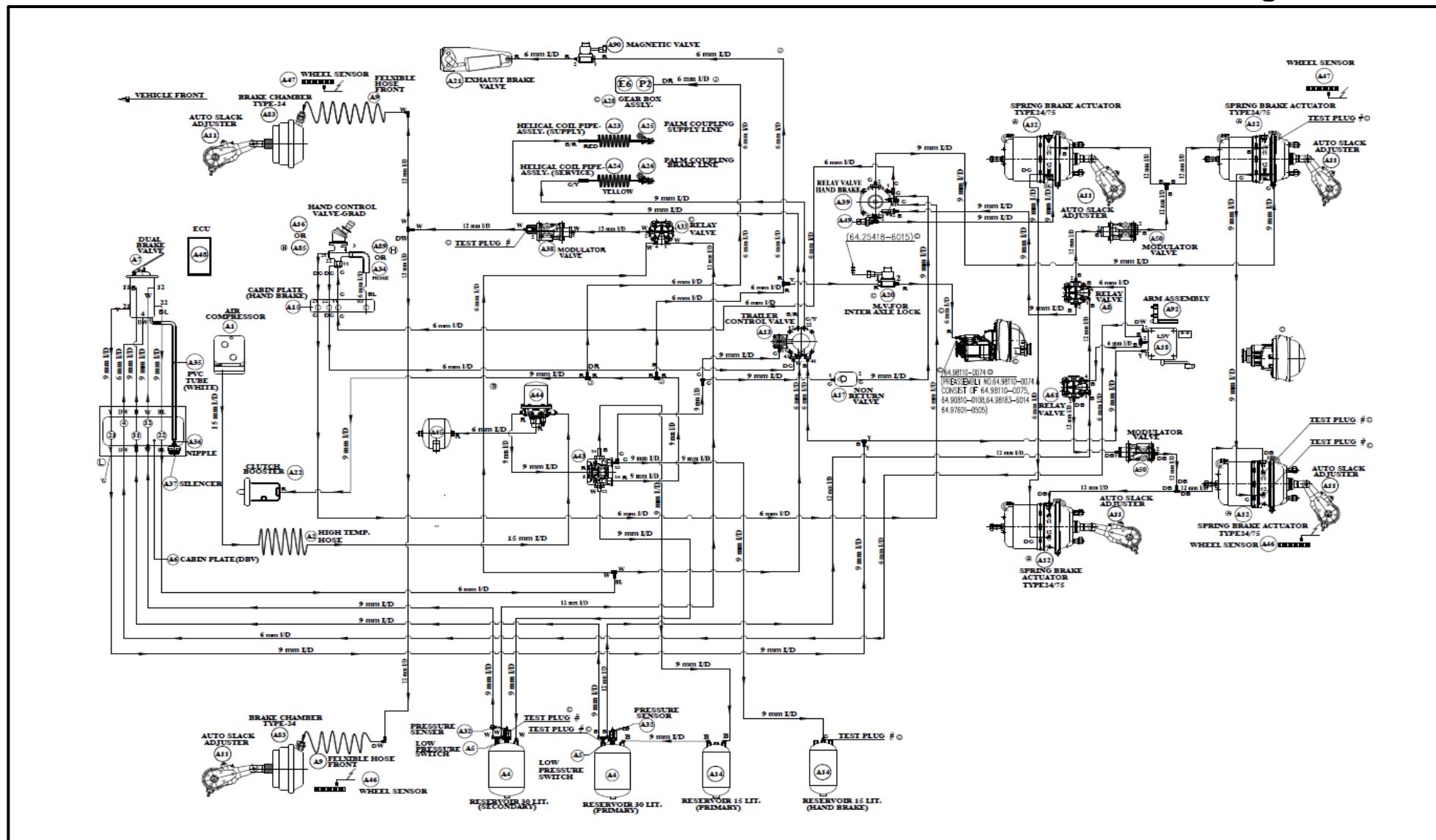
**AIR BRAKE SYSTEM 49 T 49.220**
**Diagram No. 35**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION (HAND BRAKE VALVE)	1		
A16	64.52315-7001	HAND BRAKE VALVE KIT	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS BEFORE VIN : 13671
A16	64.52315-6014	HAND BRAKE VALVE	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS FROM VIN : 13671
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	3		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	3		
-	64.98183-6014	HEX NUT M16x1.5 NG8 (VOSS)	3		
A17	64.52130-6030	NON RETURN VALVE	1		SUPERCEDED BY 64.52130-6031
A18	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
A19	64.43715-6003	ARM ASSY	1		VALID FOR VEHICLES BEFORE VIN: 13838
A19	64.43715-6004	ARM ASSY	1		VALID FOR VEHICLES FROM VIN: 13838
A21	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
-	64.98110-0025	ADAPTOR NG8XM12X1.5 (0229575068 VOSS)	1		
A22	64.30725-6001	CLUTCH BOOSTER 4"	1		SUPERCEDED BY 64.30725-6007
A22	64.30725-6006	CLUTCH BOOSTER 3"	1		
-	64.98110-0026	ADAPTOR NG12XM16X1.5	1	COMMON FOR 3' & 4' CLUTCH BOOSTER	
A23	64.25402-6114	POLYAMIDE TUBE SUPPLY (RED)	1		
A24	64.25402-6115	POLYAMIDE TUBE BRAKE ( YELLOW)	1		
A25	64.51220-6001	PALM COUPLING- SUPPLY LINE	1		

A26	64.52299-6002	PALM COUPLING – SERVICE	1		
-	81.51220-6091	PALM COUPLER	2		
A28	64.32518-4002	GEAR BOX ASSY	NA		
A32	64.27421-0015	AIR PRESSURE SENSOR (NEW)	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1.3 M		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		
A39	81.52116-6079	RELAY VALVE HAND BRAKE	1		
-	64.98110-0026	ADAPTOR NG12XM16X1.5	1		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	3		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	3		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	3		
<b>Page No. 51</b>		<b>REVISION NO. 01/09/16</b>			<b>VERSION: 00</b>

## **AIR BRAKE SYSTEM 49 T 49.220**

## Diagram No. 35

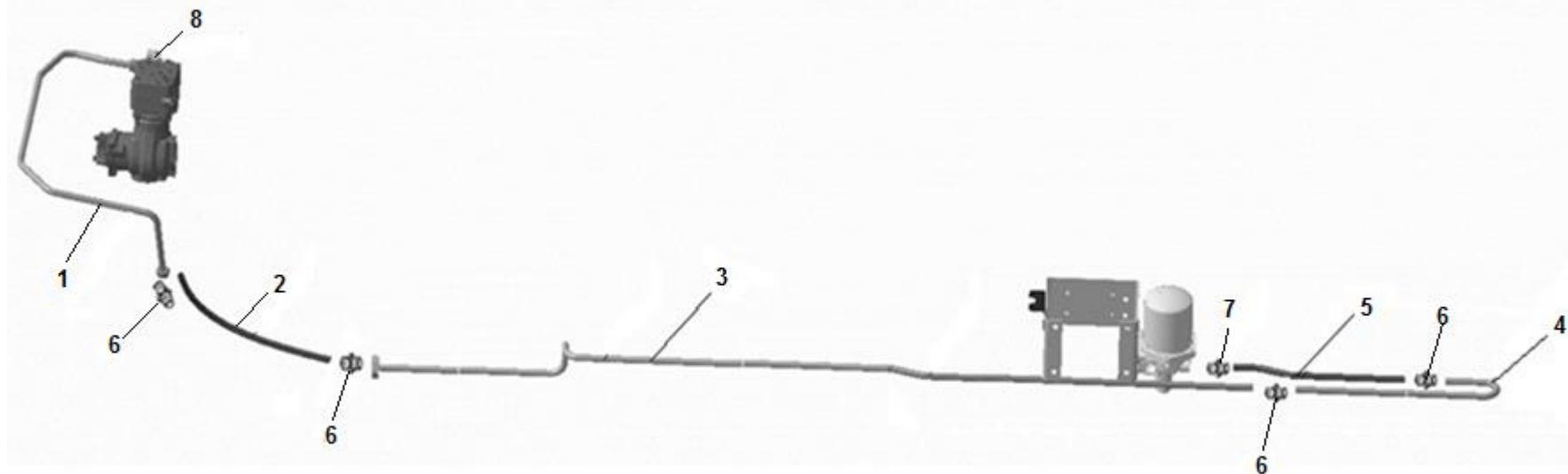


**AIR BRAKE SYSTEM 49 T 49.220**
**Diagram No. 35**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNECTOR	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	1		
A47	64.27120-6003	ABS WHEEL SENSOR RH	1		
A48	64.25808-6001	ABS CONTROL UNIT	1	COMMON FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	COMMON FOR 8X4 & 8X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A50	64.52452-6001	SOL. MODULATOR VALVE	1		
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED)	1		
A83	64.50410-6009	BRAKE CHAMBER FRONT TYPE 24	2		
-	64.94299-0035	POLYMIDE TUBE (2 MM ID)	1		
-	64.94299-0036	POLYMIDE TUBE (6 MM ID)	1		
-	64.94299-0037	POLYMIDE TUBE (9 MM ID)	1		
-	64.94299-0038	POLYMIDE TUBE (12 MM ID)	1		
-	64.94299-0039	POLYMIDE TUBE (15 MM ID)	1		
-	64.99125-0150	PIPE PNEUMATIC CONNECTION HBV22-AUX.TANK	1		
Page No. 52		REVISION NO. 01/05/16			VERSION: 00

# AIR BRAKE SYSTEM 49 T 49.220

Diagram No. 36

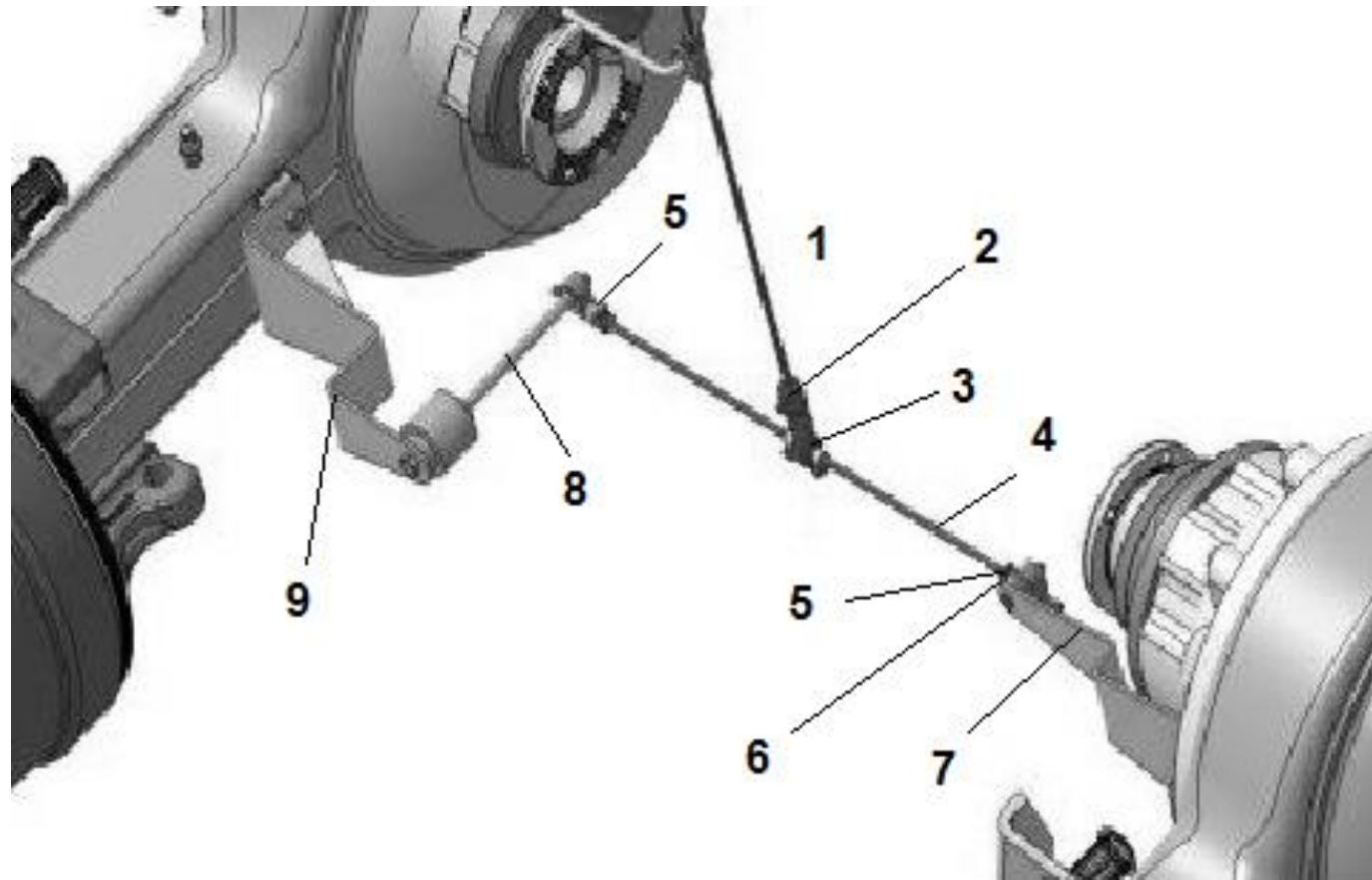


**AIR BRAKE SYSTEM 49 T 49.220****Diagram No. 36**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0097	COMPRESSOR PIPE (VE ENGINE)	1	NOT VALID	CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5033	PIPE ASSY-FLEX HOSE TO U BEND PIPE ASSY	1		
4	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
5	64.96320-5047	PIPE ASSY (U BEND PIPE ASSY L=456MM)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-ST	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1	COMMON FOR ALL MODELS	
<b>Page No. 53</b>	<b>REVISION NO. 00</b>			<b>VERSION: 00</b>	

## AIR BRAKE SYSTEM 49 T 49.220

Diagram No. 37

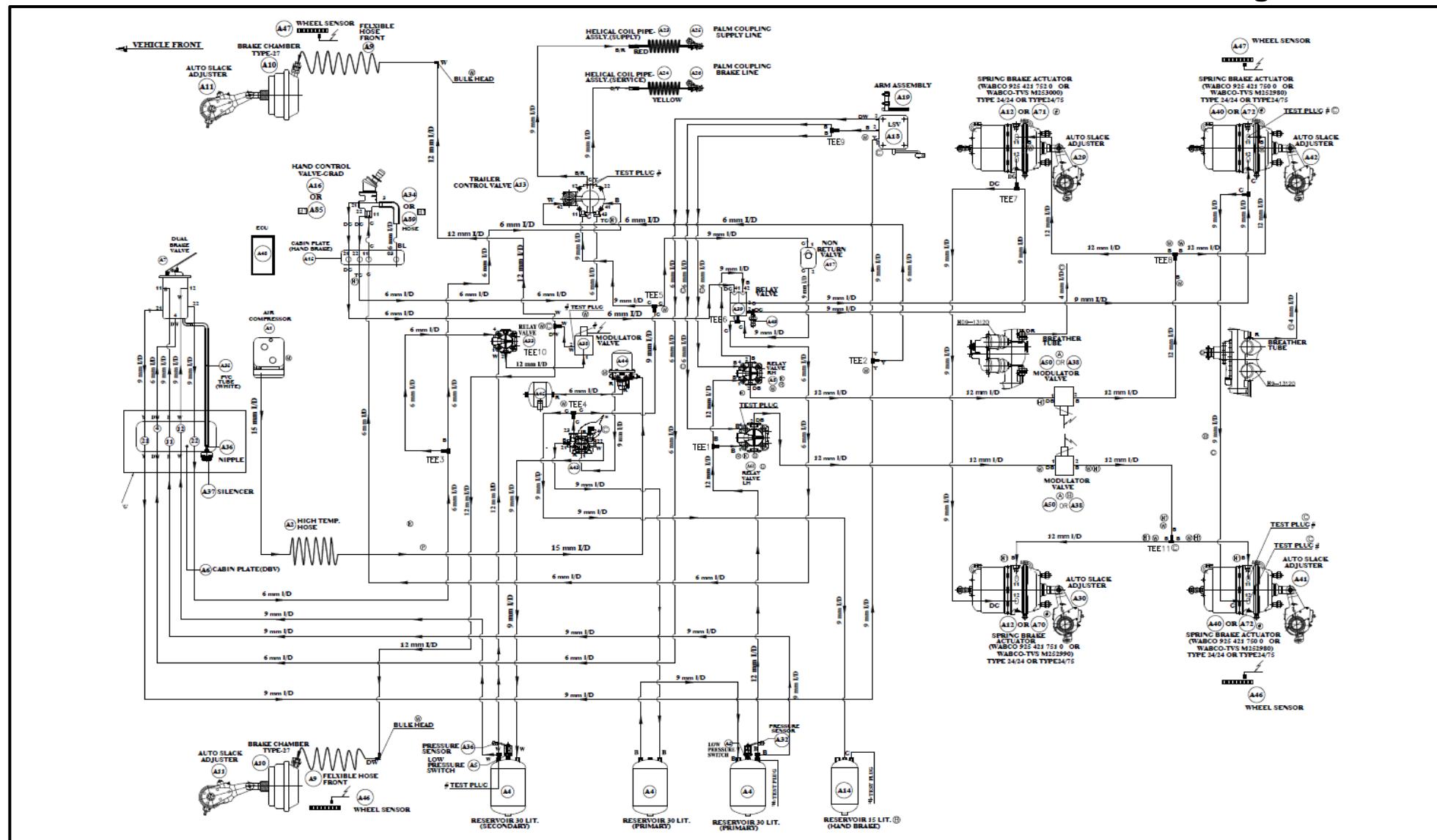


**AIR BRAKE SYSTEM 49 T 49.220****Diagram No. 37**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52731-0004	LINK ROD (LSV) 530MM LONG	1		
2	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.96210-0010	THRUST RUBBER PIECE	1		
4	64.52731-0006	LINK ROD (LSV) 675MM LONG	1		
5	64.96210-0012	P TYPE THRUST RUBBER PIECE	2		
6	64.97640-0007	WORM DRIVE HOSE CLIP 00 (13-20)	1		
7	64.41710-0390	LSV LINK ROD MTG BRACKET	1		
8	64.43715-6003	ARM ASSY	1	PART NOT TO BE USED.	REF TECHNICAL BULLETIN 128.
8	64.43715-6004	ARM ASSY	1		
9	64.41710-0391	LSV LINK ROD MTG BKT	1	PART NOT TO BE USED.	REF TECHNICAL BULLETIN 128.
9	64.41710-5151	LSV LINK ROD MTG BKT	1		
Page No. 54		REVISION NO. 01/04/16			VERSION: 00

# AIR BRAKE SYSTEM 49 T 49.280

Diagram No. 38



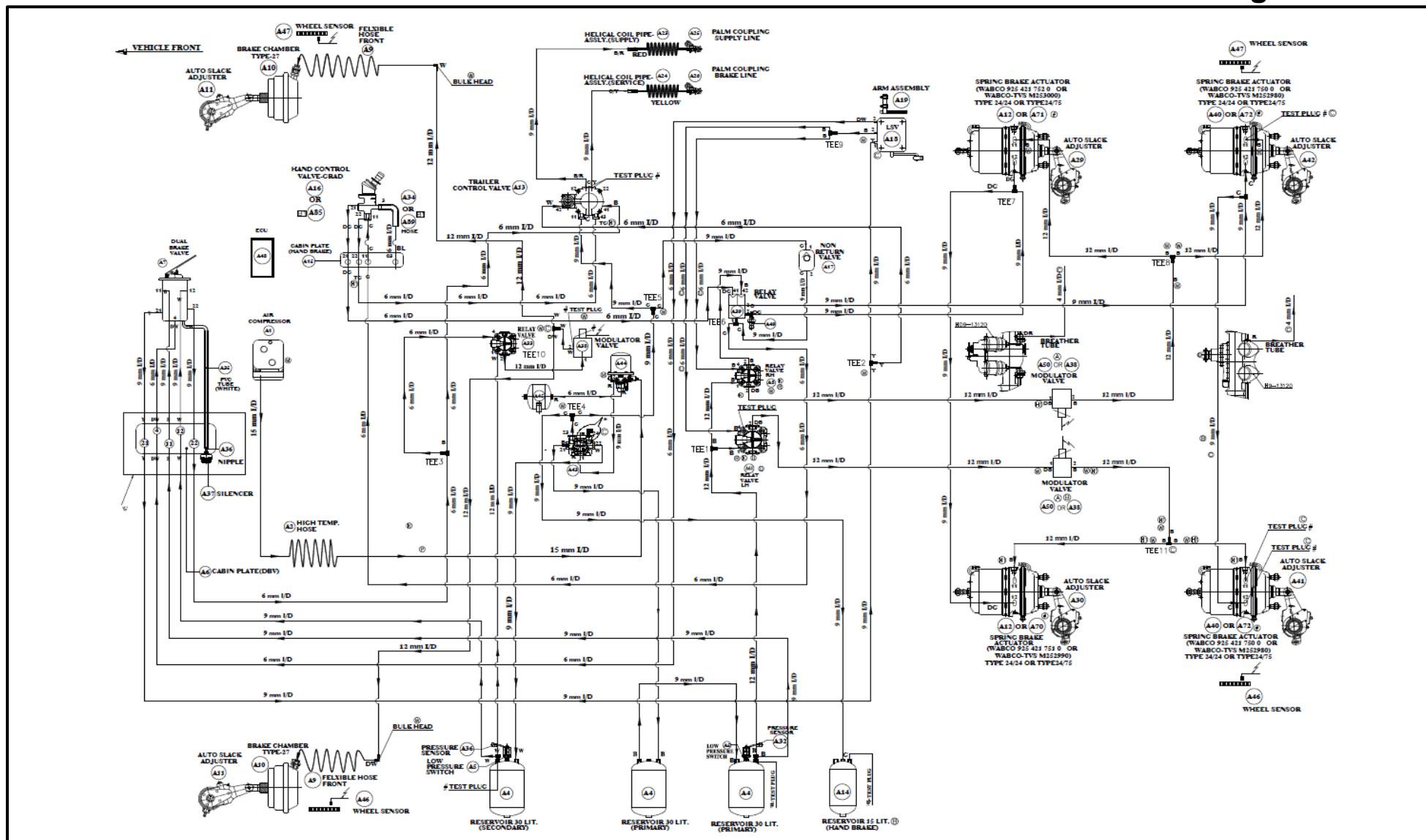
**AIR BRAKE SYSTEM 49 T 49.280**
**Diagram No. 38**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	51.54100-7071	AIR COMPRESSOR 238 CC	1	COMMON FOR MODELS WITH 2VCR ENGINES ONLY	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	AIR COMPRESSOR 318 CC W/O GEAR	1	COMMON FOR ALL MODELS	VALID FOR VEHICLES AFTER VIN : 14071. ALTERNATE 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITRES)	3		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	6		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	6		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	6		
-	64.97445-0003	CLAMP ASSY FOR AIR TANK MTG	6		
-	64.90020-0247	BOLT M8X80 DIN931-8.8, MAN183-B1	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	12		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	06.11240-0404	HEX. NUT BM8-8 MAN183-B1 M711260	6		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
-	64.91710-0037	SEALING RING DIN 7603-A12X17-AL	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6204	DUAL BRAKE VALVE(KNORR)	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	4		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	4		

-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	4		
-	64.98183-6014	HEX NUT M16X1.5 NG 8 (VOSS)	1		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	1		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	2		
-	64.90020-0096	HHS M8 X 25 DIN 933 - 8.8 BTS 170202.22	6		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	6		
-	64.90710-0026	PL WASHER A8.4 DIN125-ST BTS170202.12	6		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
<b>Page No. 55</b>		<b>REVISION NO. 00</b>			<b>VERSION: 00</b>

## AIR BRAKE SYSTEM 49 T 49.280

## **Diagram No. 38**



## AIR BRAKE SYSTEM 49 T 49.280

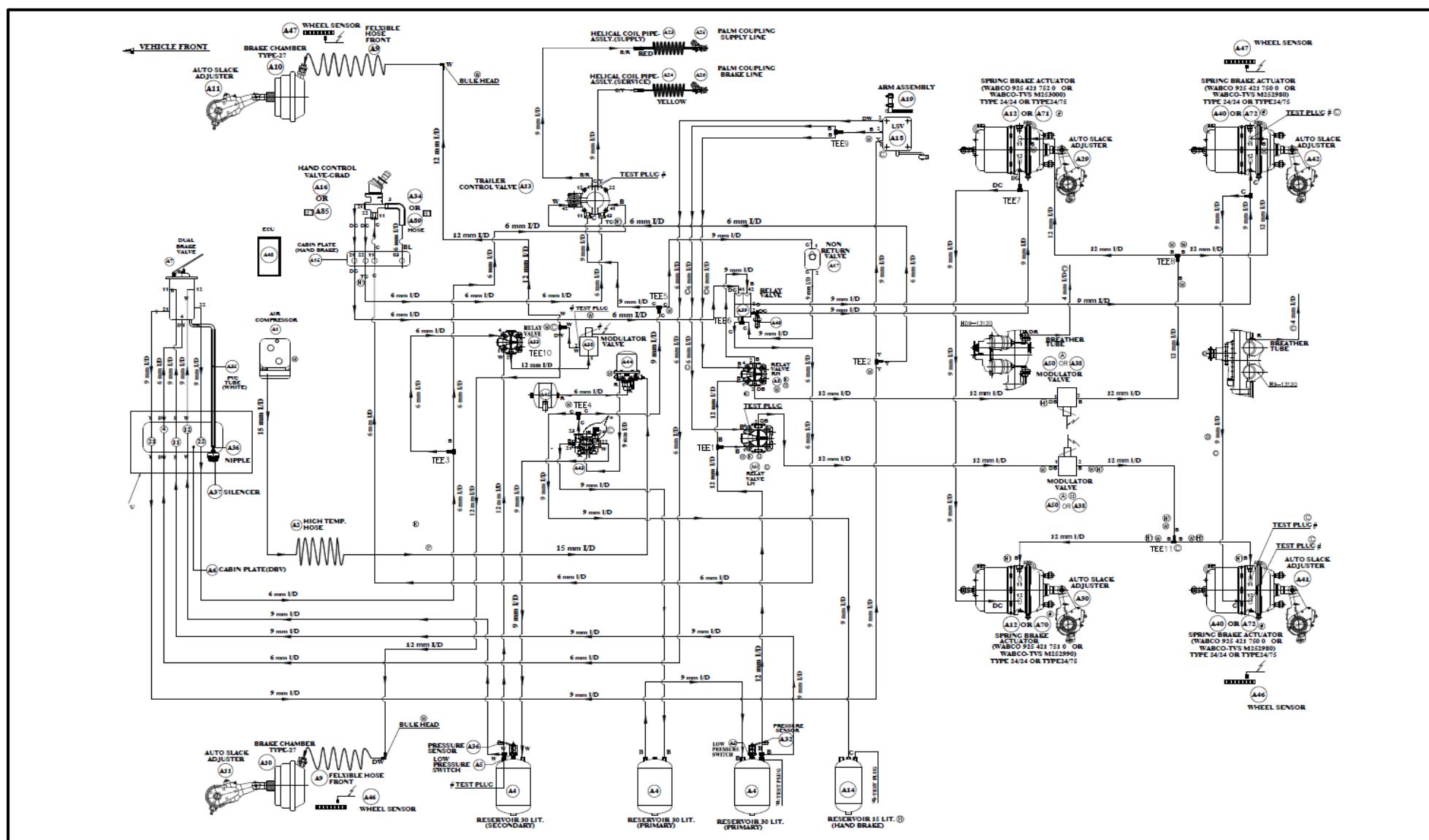
## Diagram No. 38

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A10	64.51101-6001	FRONT BRAKE CHAMBER TYPE 27	2		
-	64.41710-0056	L-BKT (FOR BRAKE HOSE)	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	2		
-	64.41710-0024	SLACK ADJUSTER FRONT MTG BKT	2		
-	64.90501-0028	NUT AM 8-10 MAN-183-B1	2		
-	64.90710-0058	PL WASHER A8.4 DIN9021 ST BTS170202.12	2		
-	64.96210-0011	RUBBER STOPPER	2		
A12	64.50410-6007	BRAKE CHAMBER (24/24)W ADAPTORS (HD9) LH	1		
-	64.50410-6008	BRAKE CHAMBER (24/24)W ADAPTORS (HD9) RH	1		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	3		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	3		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	3		
A13	64.52130-6047	TRAILER CONTROL VALVE	1	COMMON FOR 49.220 TR, 40.220 TR, 40.300 TR & 49.300 TR ONLY	
A13	64.52130-6039	TRAILER CONTROL VALVE	1	COMMON FOR 49.280TR & 40.280 TR ONLY	
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A14	64.51401-6007	AIR TANK (15L) W CONNECTORS (AUXL)	1	FOR AUXILIARY CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION (HAND BRAKE VALVE)	1		
A16	64.52315-7001	HAND BRAKE VALVE KIT	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS BEFORE VIN : 13671
A16	64.52315-6014	HAND BRAKE VALVE	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS FROM VIN : 13671

-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	3		
A15	64.98181-0006	PLUG AND SOCKET CONNECTION (HAND BRAKE VALVE)	1		
A16	81.52315-6156	HAND BRAKE VALVE	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS BEFORE VIN : 13671
A16	64.52315-6014	HAND BRAKE VALVE	1	COMMON FOR 4X2 & 6X4 TRACTOR MODELS ONLY.	VALID FOR TRACTOR MODELS FROM VIN : 13671
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	3		
-	64.90810-0108	RETAINING CLIP M16 (VOSS)	3		
-	64.98183-6014	HEX NUT M16x1.5 NG8 (VOSS)	3		
A17	64.52130-6031	NON RETURN VALVE	1		
A18	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A20	81.52160-6115	MAGNETIC VALVE	2		
A21	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
-	64.98110-0025	ADAPTOR NG8XM12X1.5 (0229575068 VOSS)	1		
A22	64.30725-6001	CLUTCH BOOSTER 4"	1		SUPERCEDED BY 64.30725-6007
-	64.30725-6006	CLUTCH BOOSTER 3"	1		
-	64.98110-0026	ADAPTOR NG12XM16X1.5 (COMMON FOR BOTH BOOSTER)	1		
A23	64.25402-6114	POLYAMIDE TUBE SUPPLY (RED)	1		
Page No. 56		REVISION NO. 01/09/16			VERSION: 00

# AIR BRAKE SYSTEM 49 T 49.280

Diagram No. 38



**AIR BRAKE SYSTEM 49 T 49.280****Diagram No. 38**

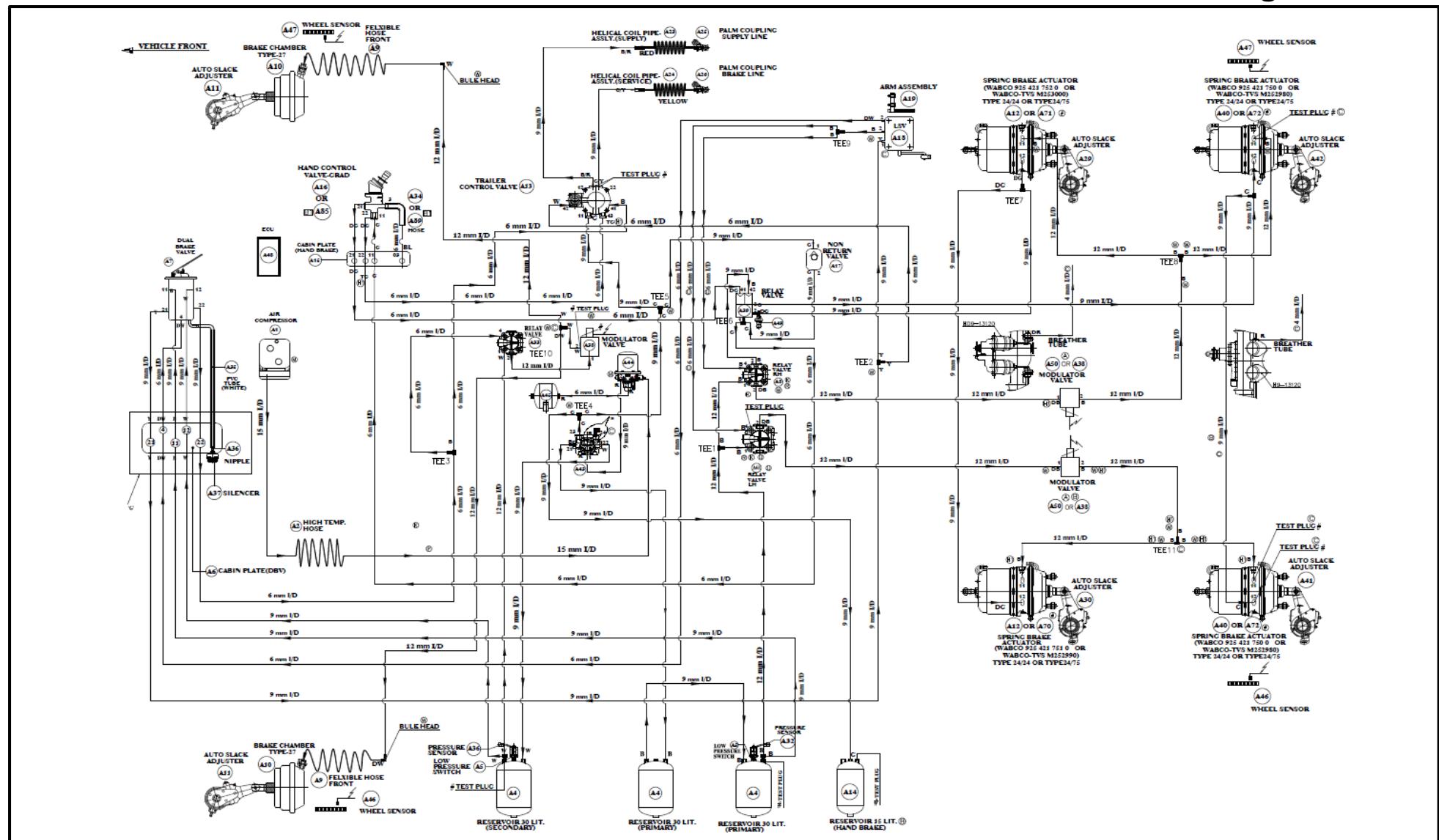
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A24	64.25402-6115	POLYAMIDE TUBE BRAKE ( YELLOW)	1		
A25	64.51220-6001	PALM COUPLING- SUPPLY LINE	1		
A26	64.52299-6002	PALM COUPLING – SERVICE	1		
-	81.51220-6091	PALM COUPLER	2		
A27	64.97010-6001	GEAR SHIFT KNOB	NA		
A28	64.32518-4002	GEAR BOX ASSY	NA		
A29	64.50610-6008	AUTOMATIC SLACK ADJUSTER RH	1		
A30	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A31	64.32000-8001	SERVO	NA		
A32	64.27421-0015	AIR PRESSURE SENSOR (NEW)	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1.3M		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		
A39	81.52116-6079	RELAY VALVE HAND BRAKE	1		
Page No. 57		REVISION NO. 01/04/16			VERSION: 00

**AIR BRAKE SYSTEM 49 T 49.280**
**Diagram No. 38**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
-	64.98110-0026	ADAPTOR NG12XM16X1.5	1		
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	3		
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	3		
-	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	3		
-	64.97601-0505	SPRING ELEMENT M16 (VOSS)	1		
-	64.98183-6014	HEX NUT M16x1.5 NG8 VOSS )	1		
A40	64.50410-6006	BRAKE CHAMBER (24/24) W ADAPTORS (H9)	2		
A41	64.50610-6009	AUTOMATIC SLACK ADJUSTER LH	1		
A42	64.50610-6008	AUTOMATIC SLACK ADJUSTER RH	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNECTOR	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		
A48	64.25808-6001	ABS CONTROL UNIT	1	COMMON FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	COMMON FOR 8X4 & 8X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
Page No. 58		REVISION NO. 01/05/16			VERSION: 00

# AIR BRAKE SYSTEM 49 T 49.280

Diagram No. 38

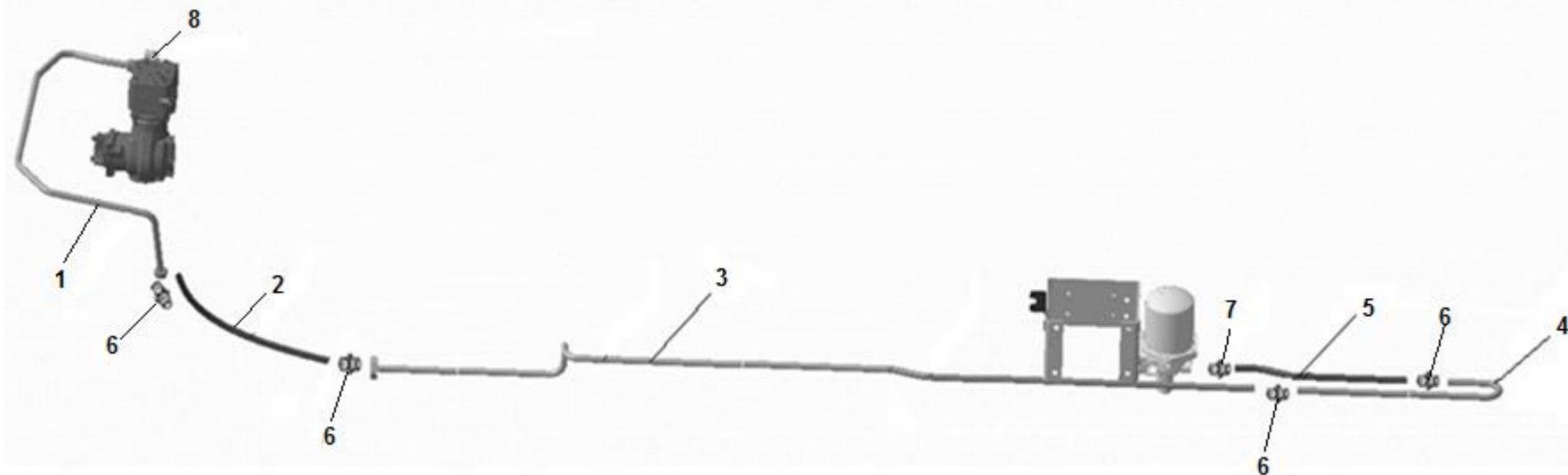


**AIR BRAKE SYSTEM 49 T 49.280****Diagram No. 38**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A50	64.52452-6001	SOL. MODULATOR VALVE	2		
A61	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A70	64.50410-6007	BRAKE CHAMBER (24/75)W ADAPTORS (HD9) LH	1		
A71	64.50410-6008	BRAKE CHAMBER (24/75)W ADAPTORS (HD9) RH	1		
A72	64.50410-6006	BRAKE CHAMBER (24/75) W ADAPTORS (H9)	2		
-	64.91020-0106	PIN B14 F8 X40X32.5 - CQ - 15 K DIN 1444	2		
-	64.91029-0005	SPLIT PIN 4X25 DIN 94 ST BTS170202.12	2		
-	64.94299-0035	POLYMIDE TUBE (2 MM ID)	1		
-	64.94299-0036	POLYMIDE TUBE (6 MM ID)	1		
-	64.94299-0037	POLYMIDE TUBE (9 MM ID)	1		
-	64.94299-0038	POLYMIDE TUBE (12 MM ID)	1		
-	64.94299-0039	POLYMIDE TUBE (15 MM ID)	1		
-	64.99125-0150	PIPE PNEUMATIC CONNECTION HBV22-AUX.TANK	1		
Page No. 59		REVISION NO. 00			VERSION: 00

# AIR BRAKE SYSTEM 49 T 49.280

Diagram No. 39



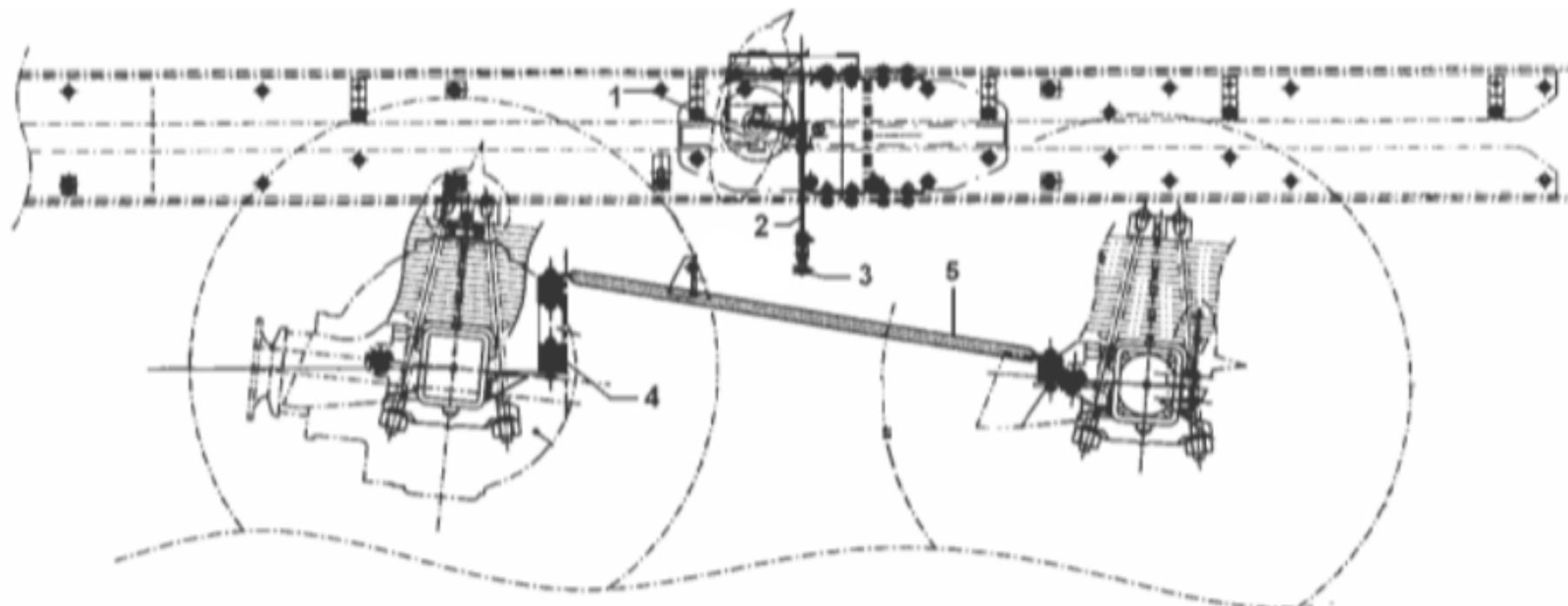
## AIR BRAKE SYSTEM 49 T 49.280

## Diagram No. 39

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0044	COMPRESSOR LINE ELBOW	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0045	BEND PIPE ON ENGINEON 6 CYL.	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5004	PIPE ASSY(FLX. HOSE TO U BEND PIPE ASSY)	1		
4	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
5	64.96320-5027	STRAIGHT PIPE ASSY (CS02)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-S	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 60		REVISION NO. 01/08/16			VERSION: 00

## AIR BRAKE SYSTEM 49 T 49.280

Diagram No. 40

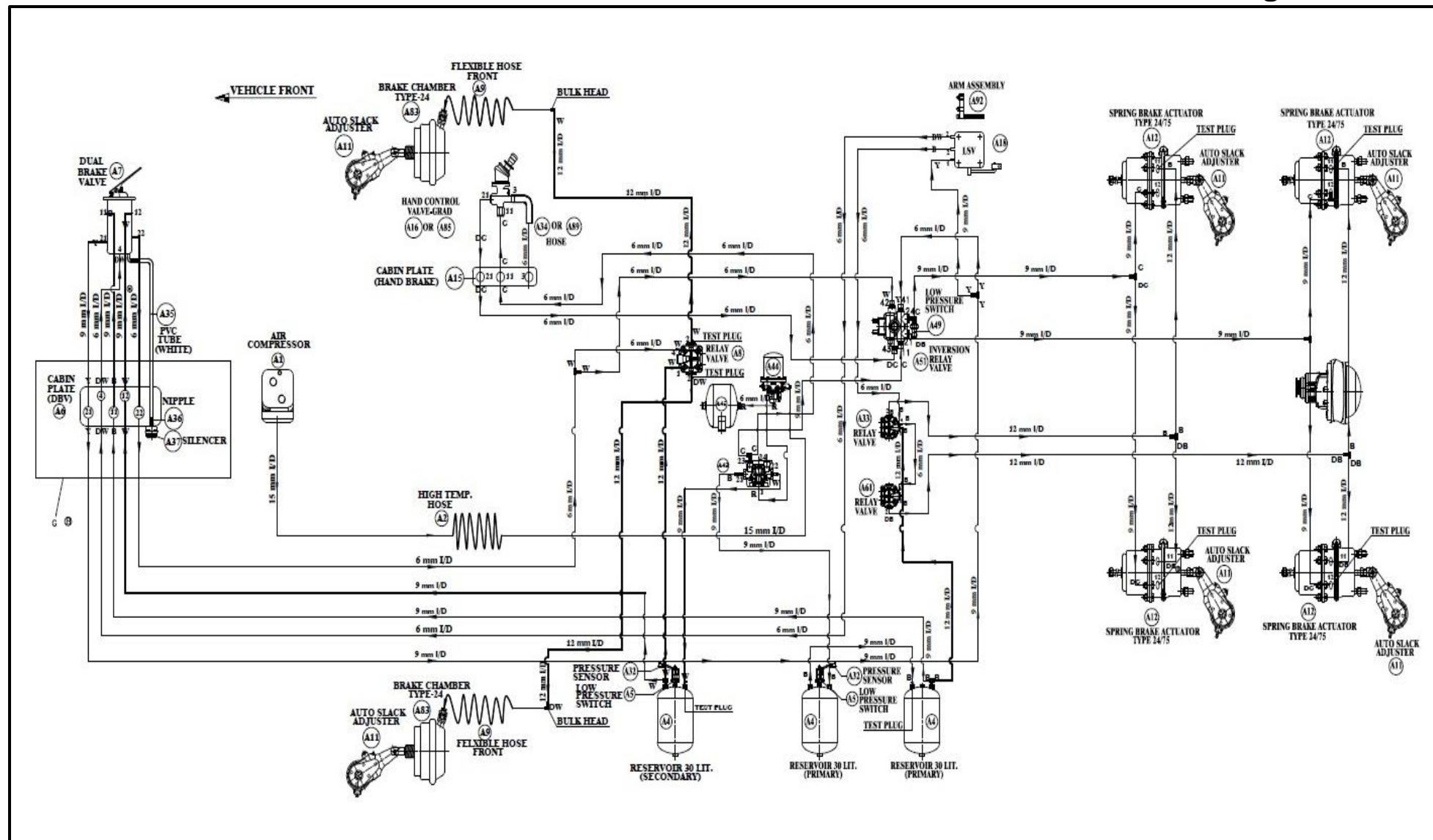


**AIR BRAKE SYSTEM 49 T 49.280****Diagram No. 40**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52161-6003	AUTOMATIC LOAD SENSING VALVE (150MM)	1		
-	64.90710-0046	WASHER A8.4X24X2 140HV DIN9021 M183B1	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
-	64.41710-0067	MTG BKT FOR BALL JOINT	1		
-	64.90710-0029	PL WASHER A13 DIN125-ST BTS170202.12	2		
-	64.41710-0180	LSV LINK ROD MTG BKT	1		
2	64.52731-0001	LINK ROD 450 LONG	1		
-	64.97201-0006	CLIP KLIPCO /(18-25)	1		
3	64.43715-6003	ARM ASSY	1		
-	64.90020-0046	BOLT M12X1.5X20 DIN 961-8.8 A3C	1		
-	64.90801-0049	SPRING WASHER B 12 DIN127 A3C	1		
4	64.96210-0010	THRUST RUBBER PIECE	1		
5	64.52731-0006	LINK ROD (LSV) 675MM LONG	1		
-	64.97401-0035	PIPE CLAMP 8MM DIA	2		
-	64.90020-0090	HHS M8 X 16 DIN 933 - 8.8 BTS 170202.22	2		
-	64.90801-0047	SPRING WASHER B 8 DIN127 A3C	2		
-	64.90501-0037	HEX NUT M8X1.25 DIN 934-8 BTS170202.22	2		
6	64.96210-0012	P TYPE THRUST RUBBER PIECE	1		
Page No. 61		REVISION NO. 00			VERSION: 00

# **AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP NON ABS**

## **Diagram No. 41**



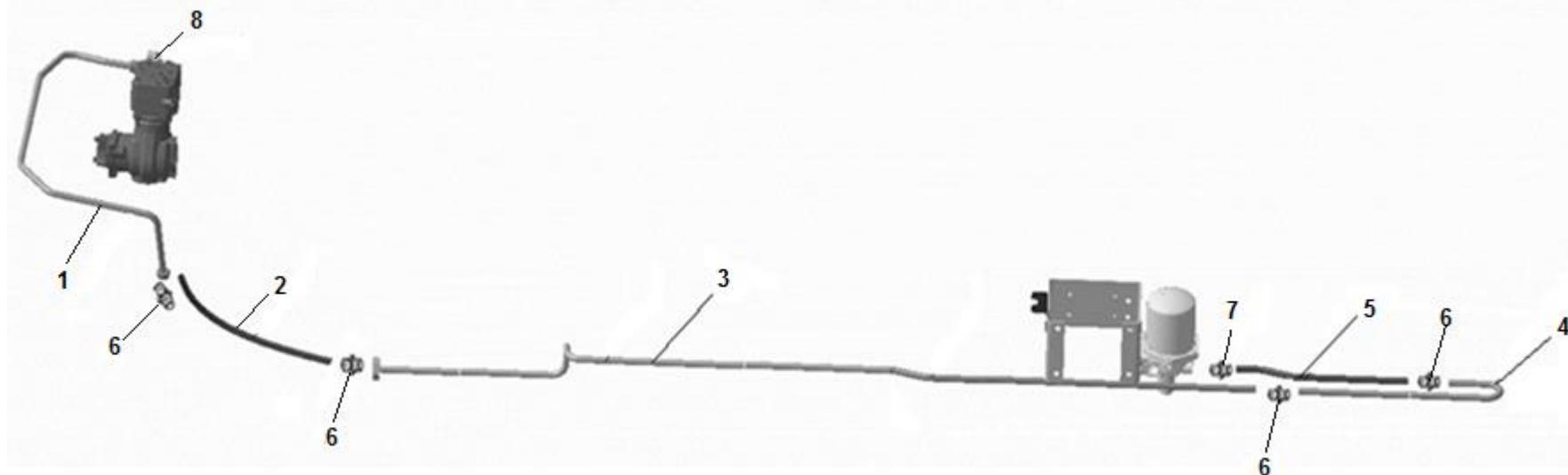
**AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP NON ABS**
**Diagram No. 41**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	SINGLE CYL AIR COMPRESSOR 318CC	1		ALTERNATE 64.54100-7238
A2	64.96301-0006	HIGH TEMPERATURE HOSE	1		
A4	64.51401-6010	AIR TANK (30 LITRES)	3		ALTERNATE 64.51401-0025
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		
A7	81.52130-6252	DUAL BRAKE VALVE	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	6		
A12	64.52130-6013	SPRNG BRAKE ACTUATOR TYP 24/75 WITH VOSS	4		
A14	64.51401-6007	AIR TANK (15L) W CONNECTORS (AUXL)	1	FOR AUXILIARY CIRCUIT	FIG. NOT SHOWN
A14	64.51401-6009	AIR TANK (15L) W CONNECTORS	1	FOR AUXILIARY CIRCUIT	FIG. NOT SHOWN
A15	64.98181-0027	HAND BRAKE VALVE CONNECTION PLATE	1		
A16	64.52315-7002	HAND BRAKE VALVE KIT	1		VALID FOR VEHICLES BEFORE VIN : 13355
A16	64.52315-6013	HAND BRAKE VALVE	1		VALID FOR VEHICLES FROM VIN : 13355
A18	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75	1		
A20	81.52160-6115	MAGNETIC VALVE	1		
A21	64.15600-6001	EXHAUST VALVE BRAKE ASSLY (6CYL ENGINE)	1		SUPERCEDED BY 81.15600-6089
A22	64.30725-6011	CLUTCH BOOSTER 4"	1	REFER CLUTCH	CONSISTS OF (64.98110-0026) ADAPTOR

A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		
A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-0003	PURGE TANK 7.5 LITRES	1		SUPERCEDED BY 64.51401-6011
A49	81.25520-0184	LOW PRESSURE SWITCH	1		ALTERNATE 64.25520-0011
A51	64.52315-6015	INVERSION RELAY VALVE WITH VOSS	1		
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED) LH /NG8	1		
A83	64.50410-6009	BRAKE CHAMBER FRONT TYPE 24 FOR 25.200	2		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		VALID FOR VEHICLES AFTER VIN : 13355
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14mm	1		
A90	81.52160-6115	MAGNETIC VALVE W/O VOSS ( 10 BAR	1		
A92	64.43715-6004	ARM ASSY	1		
Page No. 62		REVISION NO. 01/09/16			VERSION: 00

# AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP NON ABS

Diagram No. 42

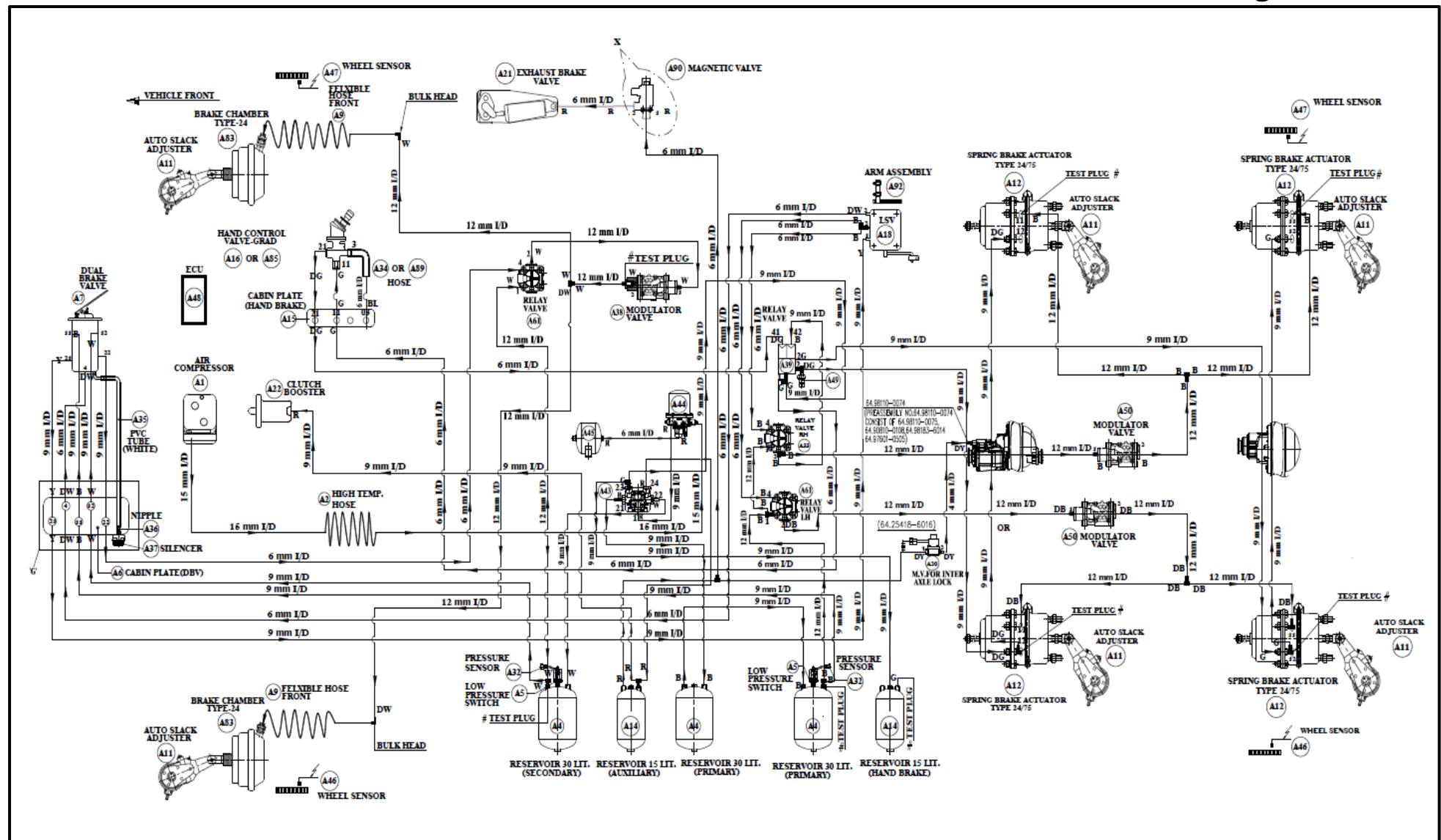


**AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP NON ABS****Diagram No. 42**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0097	COMPRESSOR PIPE (VE ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5033	PIPE ASSY-FLEX HOSE TO U BEND PIPE ASSY	1		
4	64.96320-5024	PIPE ASSY (U BEND)	1		
5	64.96320-5031	PIPE ASSY	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-S	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 63		REVISION NO. 01/08/16			VERSION: 00

# AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP ABS

## Diagram No. 43



**AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP ABS**
**Diagram No. 43**

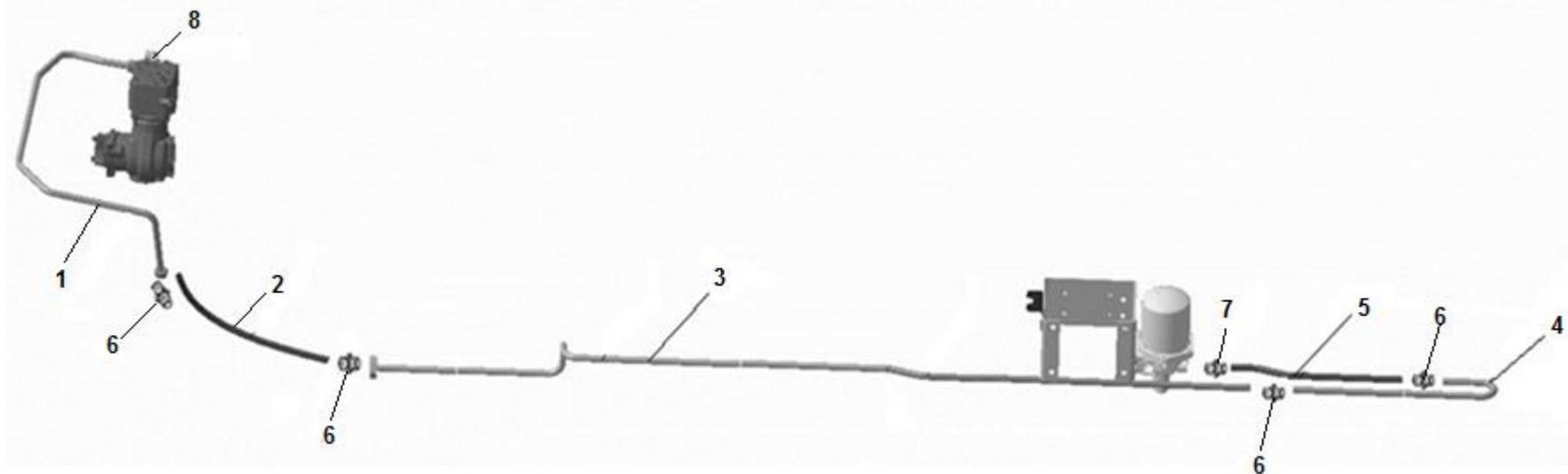
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7001	AIR COMPRESSOR 230 CC	1	COMMON FOR ALL MODELS EXCEPT 2VCR & 4VCR ENGINES	VALID FOR VEHICLES BEFORE VIN : 14071
A1	64.54101-7004	SINGLE CYL AIR COMPRESSOR 318CC	1		
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	3		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0005	PLUG & SOCKET CONNECTION (PARTITION PLATE)	1		ALTERNATE 64.98181-0028
A7	64.52130-6056	D B VALVE WITH CONNECTORS	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	6		
A12	64.52130-6013	SPRNG BRAKE ACTUATOR TYP 24/75 WITH VOSS	4		
A14	64.51401-6008	AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A14	64.51401-6009	AIR TANK (15L) W CONNECTORS	1	FOR AUXILIARY CIRCUIT	
A15	64.98181-0006	PLUG AND SOCKET CONNECTION 230	1		
A16	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A18	64.52161-6007	AUTOMATIC LOAD SENSING VALVE (8 BAR)- 75MM	1		
A20	81.52160-6115	MAGNETIC VALVE	2		
A21	64.15600-6002	ASSY EXHAUST BRAKE W CONNECTOR	1		ALTERNATE 81.15600-6089
A22	81.30725-6069	CLUTCH BOOSTER 3"	1		
A32	64.27421-0015	AIR PRESSURE SENSOR	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		

A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98183-6017	NIPPLE	1		
A37	81.52101-6275	SILENCER	1		VALID FOR VEHICLES BEFORE VIN : 15625
A37	81.52101-6264	SILENCER	1	FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES FROM VIN : 14071
A38	64.52452-6002	SOL. MODULATOR VALVE	1		FOR ABS VEHICLES FROM VIN : 15625
A39	81.52116-6079	ASY RELAY VALVE (HAND BRAKE) W CONNECTOR	1		ALTERNATE 64.52116-6012
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6008	AIR DRYER	1	COMMON FOR MODELS WITH 230 & 238 CC AIR COMPRESSOR	VALID FOR VEHICLES BEFORE VIN : 14071
A44	64.52102-6012	AIR DRYER	1	COMMON FOR MODELS WITH 318 CC AIR COMPRESSOR	VALID FOR VEHICLES AFTER VIN : 14071
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNECTORS	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		ALTERNATE 64.25520-0011
A50	64.52452-6001	SOL. MODULATOR VALVE	2		FOR ABS VEHICLES FROM VIN : 15625
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED) LH /NG8	2		
A83	64.50410-6009	BRAKE CHAMBER FRONT TYPE 24	2		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		
A90	81.52160-6115	MAGNETIC VALVE	1		

A92	64.43715-6004	ARM ASSY	1		
<b>Page No. 64</b>		<b>REVISION NO. 01/04/16</b>			<b>VERSION: 00</b>

# AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP ABS

Diagram No. 44

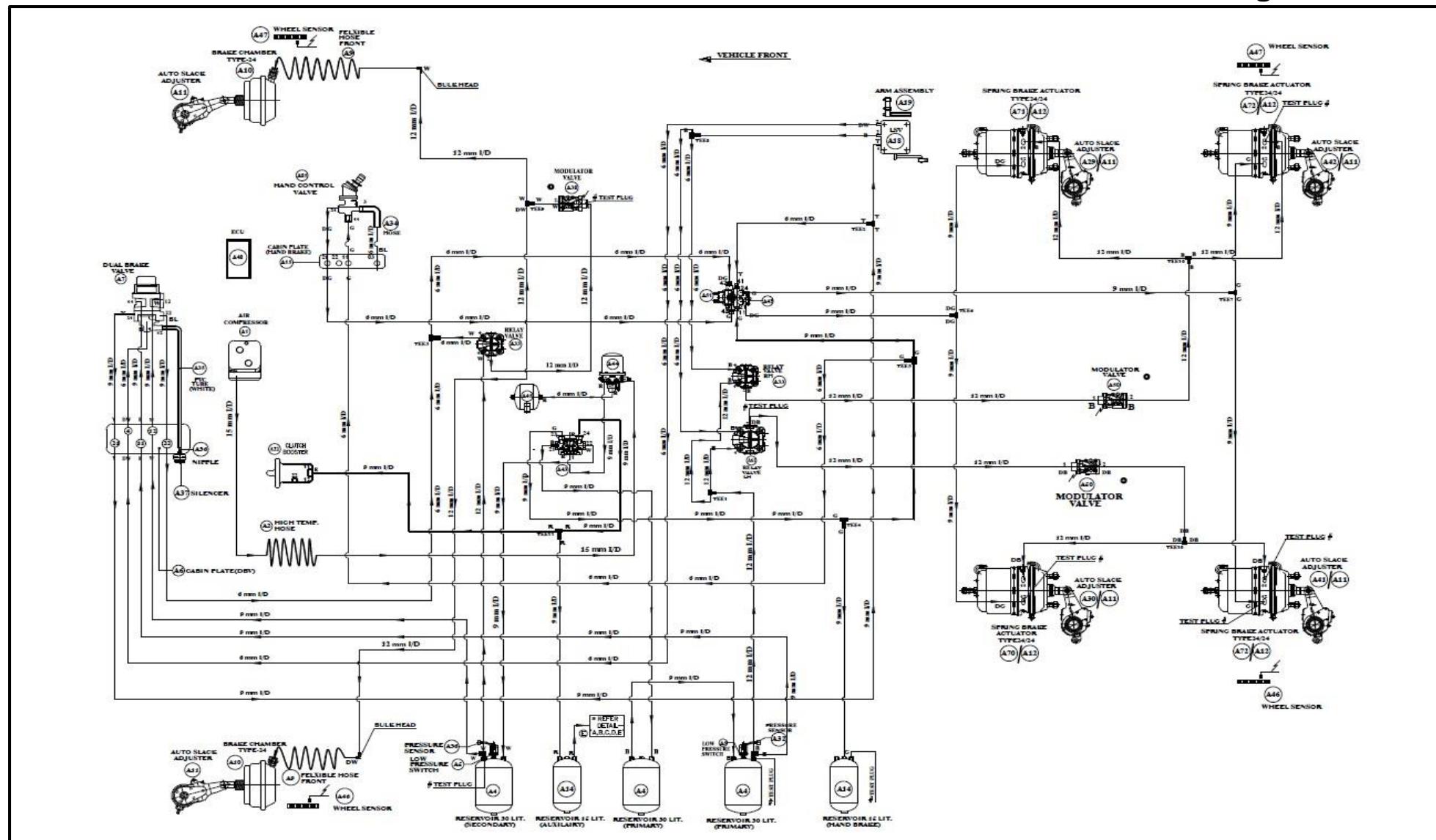


**AIR BRAKE SYSTEM 25 T 25.220 DS 47 TP ABS****Diagram No. 44**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0073	COMPRESSOR PIPE (2 VCR ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0097	COMPRESSOR PIPE (VE ENGINE)	1		CAN USE 64.96301-0112 + 64.98110-0086 AS ALTERNATE
1	64.96301-0112	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1		
3	64.96320-5004	PIPE ASSY(FLX. HOSE TO U BEND PIPE ASSY)	1		
4	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
5	64.96320-5027	STRAIGHT PIPE ASSY (CS02)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-S	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 65		REVISION NO. 01/08/16			VERSION: 00

# AIR BRAKE SYSTEM 25 T 25.300 BS IV

Diagram No. 45



**AIR BRAKE SYSTEM 25 T 25.300 BS IV****Diagram No. 45**

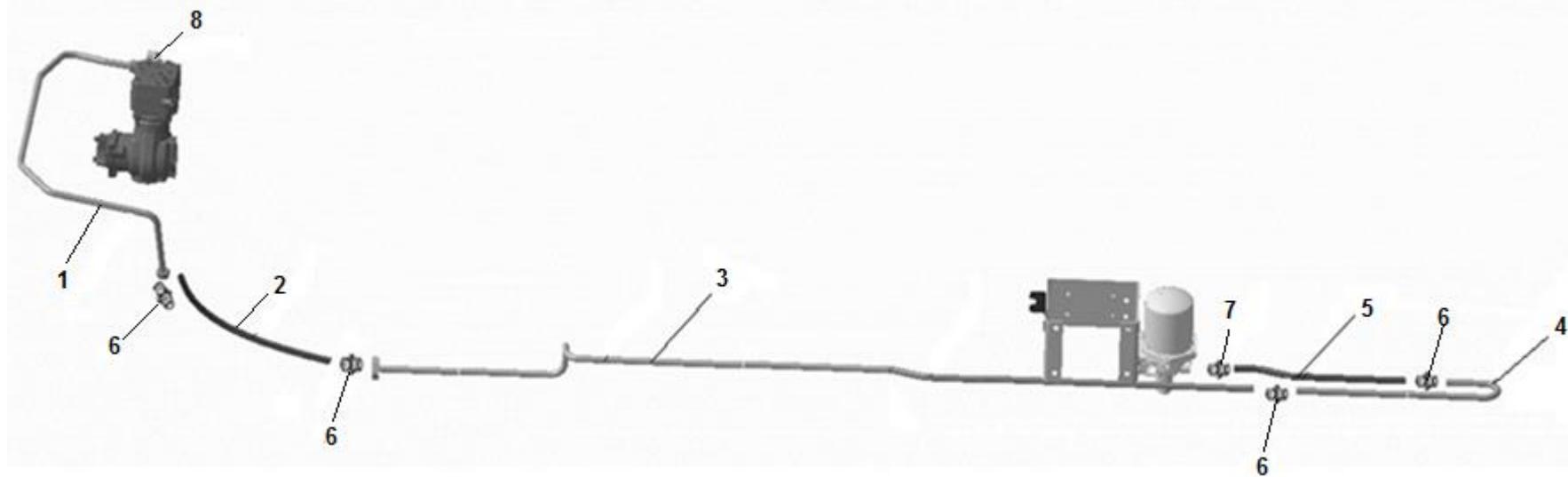
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7004	SINGLE CYL AIR COMPRESSOR 318CC	1	COMMON FOR ALL MODELS	VALID FROM VIN: 14071. SUPERCEDED BY 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	3		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0028	DUAL BRAKE VALVE CONNECTION PLATE	1		
A7	81.52130-6204	DUAL BRAKE VALVE	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A10	64.51101-6021	BRAKE CHAMBER FRONT TYPE 24 (10BAR)	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	4		
A14	64.51401-6009	ASSY AIR TANK (15L) W CONNECTORS	1	FOR AUXILIARY CIRCUIT	
A14	64.51401-6008	ASSY AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A15	81.98181-0175	PLUG AND SOCKET CONNECTION 230	1		
A18	64.52161-6020	AUTOMATIC LOAD SENSING VALVE (75MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A21	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
A22	64.30725-6006	CLUTCH BOOSTER 3"	1		CONSISTS OF 64.30725-6069 & 64.98181-6018
A29	64.50610-6009	AUTO SLACK ADJUSTER LH	1		
A30	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A32	64.27421-0015	AIR PRESSURE SENSOR (NEW)	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	2		

A34	64.94299-0026	TUBE 10-5 M334 (LENGTH - 300MM)	1		
A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	64.98131-0005	NIPPLE	1		
A37	64.52101-6001	SILENCER	1		
A38	64.52452-6002	SOL. MODULATOR VALVE	1		FOR ABS VEHICLES FROM VIN : 15625
A41	64.50610-6009	AUTO SLACK ADJUSTER LH	1		
A42	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNE.	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6001	ABS CONTROL UNIT	1	FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	FOR 8X4 & 8X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A50	64.52452-6001	SOL. MODULATOR VALVE	2		
A51	64.52315-6015	INVERSION RELAY VALVE WITH INBUILD VOSS	1		
A61	64.52116-6013	RELAY VALVE (ONE PORT CLOSED) LH /NG8	1		
A70	64.50410-6017	BRAKE CHAMBER (24/24)W ADAPT LH (10 BAR)	1		
A71	64.50410-6018	BRAKE CHAMBER (24/24)W ADAPT RH (10 BAR)	1		
A72	64.50410-6019	BRAKE CHAMBER (24/24) W ADPT (H9) 10 BAR	2		
A82	81.15403-6117	EMITECH PUMP	1		

A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK (WABCO)	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		
<b>Page No. 66</b>		<b>REVISION NO. 01/11/16</b>			<b>VERSION: 00</b>

# AIR BRAKE SYSTEM 25 T 25.300 BS IV

Diagram No. 46

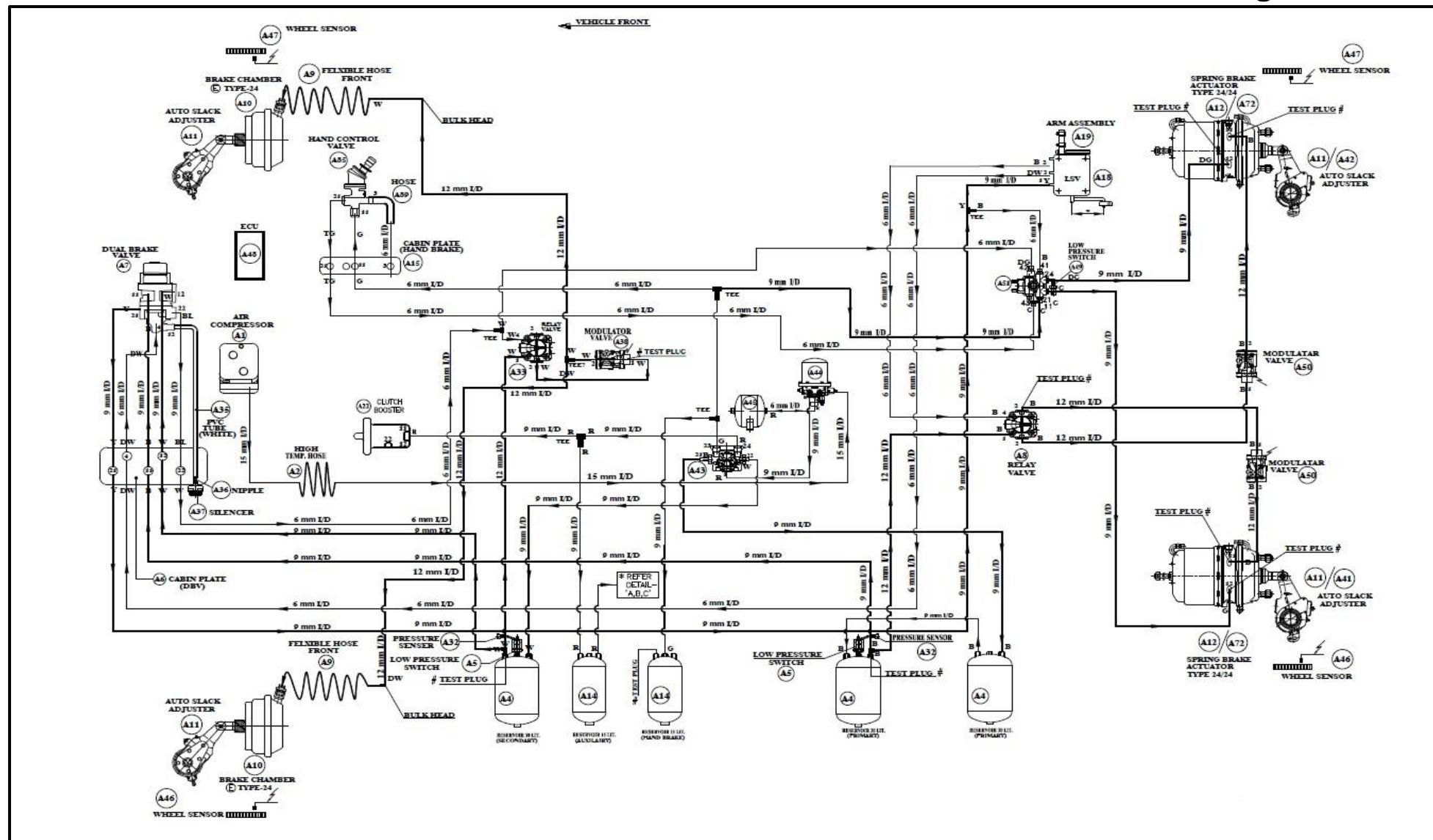


**AIR BRAKE SYSTEM 25 T 25.300 BS IV****Diagram No. 46**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0116	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR ALL MODELS	
3	64.96320-5004	PIPE ASSY(FLX. HOSE TO U BEND PIPE ASSY)	1		
4	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
5	64.96320-5027	STRAIGHT PIPE ASSY (CS02)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-S	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 67		REVISION NO. 01/08/16			VERSION: 00

## AIR BRAKE SYSTEM 16 T 16.300 BS IV

## **Diagram No. 47**



**AIR BRAKE SYSTEM 16 T 16.300 BS IV****Diagram No. 47**

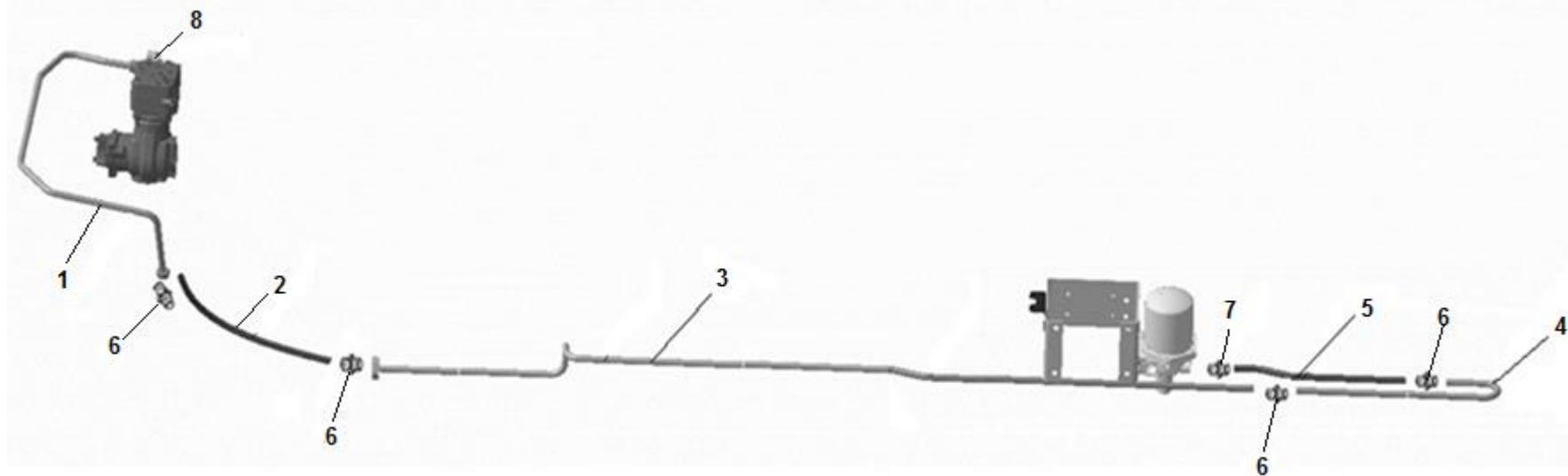
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	64.54101-7004	SINGLE CYL AIR COMPRESSOR 318CC	1	COMMON FOR ALL MODELS	FROM VIN: 14071. SUPERCEDED BY 64.54100-7238
A2	64.96301-0006	COMPRESSOR HOSE	1		
A4	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	3		
A5	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A6	64.98181-0028	DUAL BRAKE VALVE CONNECTION PLATE	1		
A7	81.52130-6204	DUAL BRAKE VALVE	1		
A8	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	1		
A9	64.51225-6003	BRAKE PIPE ASSY	2		
A11	64.50610-6003	AUTO SLACK ADJUSTER 160MM-REAR	2		
A10	64.51101-6021	BRAKE CHAMBER FRONT TYPE 24 (10BAR)	2		
A14	64.51401-6007	ASSY AIR TANK (15L) W CONNECTORS	1	FOR AUXILIARY CIRCUIT	
A14	64.51401-6008	ASSY AIR TANK (15L) W CONNECTORS (H.B)	1	FOR HANDBRAKE CIRCUIT	
A15	81.98181-0175	PLUG AND SOCKET CONNECTION 230	1		
A17	64.52130-6030	NON RETURN VALVE WITH VOSS	1		
A18	64.52161-6001	AUTOMATIC LOAD SENSING VALVE (185MM)	1		
A19	64.43715-6003	ARM ASSY	1		
A21	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
A22	64.30725-6007	CLUTCH BOOSTER 4" W/O 3/2 VALVE	1		CONSISTS OF 64.30725-6007 & 64.98181-6017
A32	64.27421-0015	AIR PRESSURE SENSOR (NEW)	2		
A33	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		

A35	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A36	81.98181-0101	NIPPLE	1		
A37	64.52101-6001	SILENCER	1		
A38	64.52452-6002	SOL. MODULATOR VALVE	1		FOR ABS VEHICLES FROM VIN : 15625
A41	64.50610-6009	AUTO SLACK ADJUSTER LH	1		
A42	64.50610-6008	AUTO SLACK ADJUSTER RH	1		
A43	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE ( SCL )	1		
A44	64.52102-6014	AIR DRYER	1	VALID FOR BS IV MODELS ONLY	
A45	64.51401-0011	ASSY PURGE TANK (7.5L) WITH CONNE.	1		
A46	64.27120-6002	ABS WHEEL SENSOR LH	2		FOR ABS VEHICLES FROM VIN : 15625
A47	64.27120-6003	ABS WHEEL SENSOR RH	2		FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6001	ABS CONTROL UNIT	1	COMMON FOR 6X4, 4X2 & 6X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A48	64.25808-6002	ABS CONTROL UNIT	1	COMMON FOR 8X4 & 8X2 MODELS WITH ABS ONLY	FOR ABS VEHICLES FROM VIN : 15625
A49	81.25520-0184	LOW PRESSURE SWITCH	1		
A50	64.52452-6001	SOL. MODULATOR VALVE	2		
A51	64.52315-6015	INVERSION RELAY VALVE WITH INBUILD VOSS	1		
A72	64.50410-6019	BRAKE CHAMBER (24/24) W ADPT (H9) 10 BAR	2		
A73	64.32082-6001	PTO NH-1C DRIVE	1		
A82	81.15403-6117	EMITECH PUMP	1		
A85	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A89	64.94299-0057	TUBE 5-5 MAN 334 (LENGTH 300MM) OD-14MM	1		

<b>Page No. 68</b>		<b>REVISION NO. 01/11/16</b>			<b>VERSION: 00</b>

# AIR BRAKE SYSTEM 16 T 16.300 BS IV

Diagram No. 48

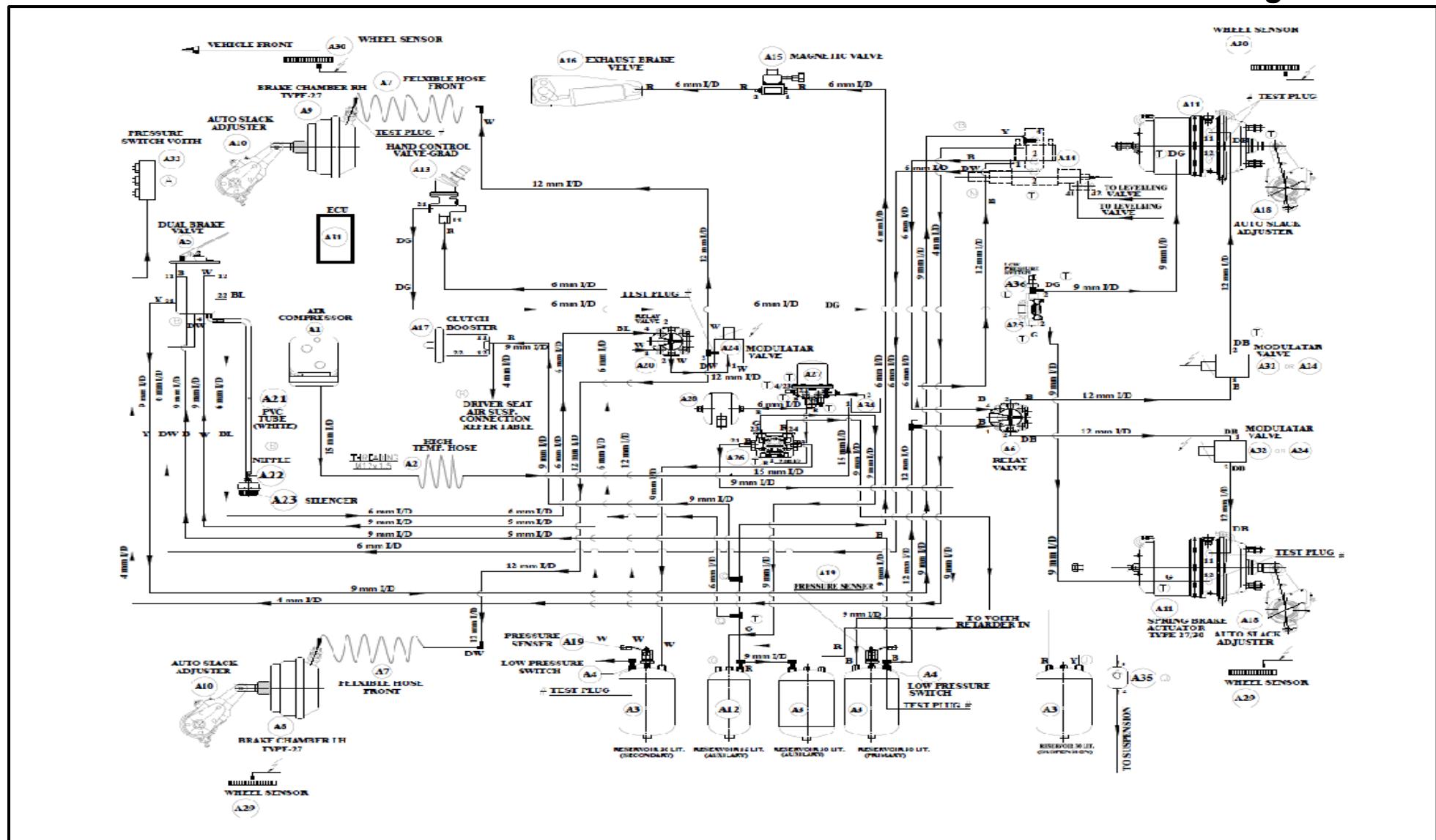


**AIR BRAKE SYSTEM 16 T 16.300 BS IV****Diagram No. 48**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.96301-0116	COMPRESSOR PIPE	1		
2	64.96301-0006	COMPRESSOR HOSE	1	COMMON FOR ALL MODELS	
3	64.96320-5004	PIPE ASSY(FLX. HOSE TO U BEND PIPE ASSY)	1		
4	64.96320-5022	U BEND PIPE END(AIR DRIER SYSTEM)	1		
5	64.96320-5027	STRAIGHT PIPE ASSY (CS02)	1		
6	64.98110-0002	ADOPTOR (M26X1.5-M26X1.5) N15026 - 181	4	COMMON FOR ALL MODELS	
7	64.98110-0003	ADPTR(M26X1.5-M22X1.5) DIN3901 L18A-M-S	1	COMMON FOR ALL MODELS	
8	64.98110-0086	ELBOW ADAPTER (M26XM26X1.5)	1		
Page No. 69		REVISION NO. 01/08/16			VERSION: 00

## **AIR BRAKE SYSTEM 16.220 BUS**

## Diagram No. 49



**AIR BRAKE SYSTEM 16.220 BUS****Diagram No. 49**

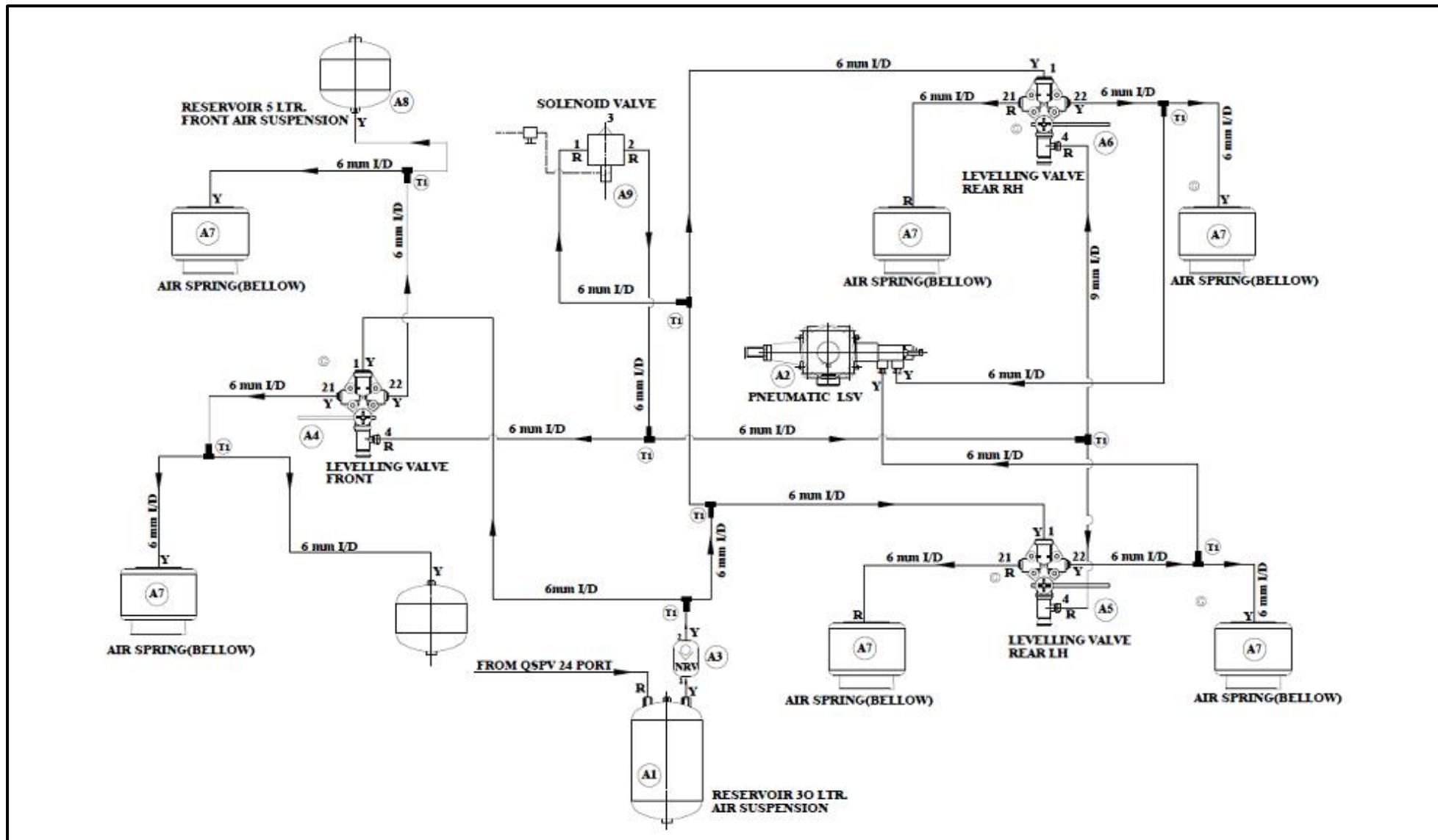
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A1	51.54100-7005	AIR COMPRESSOR 352 CC	1		
A2	64.96301-0006	COMPRESSOR HOS	1		
A3	64.51401-6010	ASSY AIR TANK (30L) W CONNECTORS	4		
A4	64.25520-0001	LOW AIR PRESSUR SWITCH	2		
A5	81.52130-6204	DUAL BRAKE VALVE	1		
A6	64.52116-6004	RELAY VALVE (ALL PORT OPEN)	1		
A7	64.51225-6003	BRAKE PIPE ASSY	2		
A8	64.50410-6014	BRAKE CHAMBER TYP 27 RH (BUS)	1		
A9	64.50410-6013	BRAKE CHAMBER TYP 27 LH (BUS)	1		
A10	64.50610-6003	AUTO SLACK ADJUSTER 160MM	2		
A11	64.52130-6002	SPRING BRAKE ACTUATOR TY 27/30	2		
A12	64.51401-6007	ASSY AIR TANK (15L) W CONNECTORS (AUXL)	1		
A13	64.52315-6013	HAND BRAKE VALVE W/O TRAILER CHK	1		
A14	64.52161-6011	LOAD SENSING VALVE	1		
A15	64.52160-6006	MAGNETIC VALVE	1		
A16	81.15600-6089	EXHAUST BRAKE COMPLETE	1		
A17	81.30725-6069	CLUTCH BOOSTER	1	FOR BUS WITH 6SZF GB	
A17	64.30725-6011	CLUTCH BOOSTER 4"	1	FOR BUS WITH 6S EATON GB	
Page No. 70		REVISION NO. 01/08/16			VERSION: 00

**AIR BRAKE SYSTEM 16.220 BUS****Diagram No. 49**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
A18	64.50610-6010	SLACK ADJUSTER REAR 160MM	2		
A19	81.27421-0151	AIR PRESSURE SENSOR	2		
A20	64.52116-6005	RELAY VALVE (ONE PORT CLOSED) W/O CONNECTORS	1		64.52116-6011 ALTERNATE ASSEMBLY WITH CONNECTORS
A21	64.94299-0027	PVC TUBE 14X2 MAN 301-1-60 WHITE	1		
A22	81.98131-0101	NIPPLE	1		
A23	81.52101-6275	SILENCER	1		
A24	64.52452-6002	SOL. MODULATOR VALVE(	1		
A25	64.52130-6033	QUICK RELEASE VALVE WITH VOSS	1		
A26	64.52151-6002	QUADRUPLE SYS PROTECTION VALVE	1		
A27	64.52102-6008	AIR DRYER	1		
A28	64.51401-6011	ASSY PURGE TANK (7.5L) WITH CONNECTOR	1		
A29	64.27120-6002	ABS WHEEL SENSOR LH	1		
A30	64.27120-6003	ABS WHEEL SENSOR RH	1		
A31	64.25808-6001	ABS CONTROL UNIT	1		
A32	64.52452-6001	SOL. MODULATOR VALVE	2		
A33	64.25520-0014	PRESSURE SWITCH	1		
A34	64.52130-6059	CONSEP PNEUMATIC	1		
A35	64.52130-6030	NON RETURN VALVE WITH VOSS	1		
A36	81.25520-0184	LOW PRESSURE SWITCH	1		
Page No. 70		REVISION NO. 01/08/16			VERSION: 00

# AIR SUSPENSION PNEUMATIC CONNECTION 16.220 BUS

Diagram No. 50

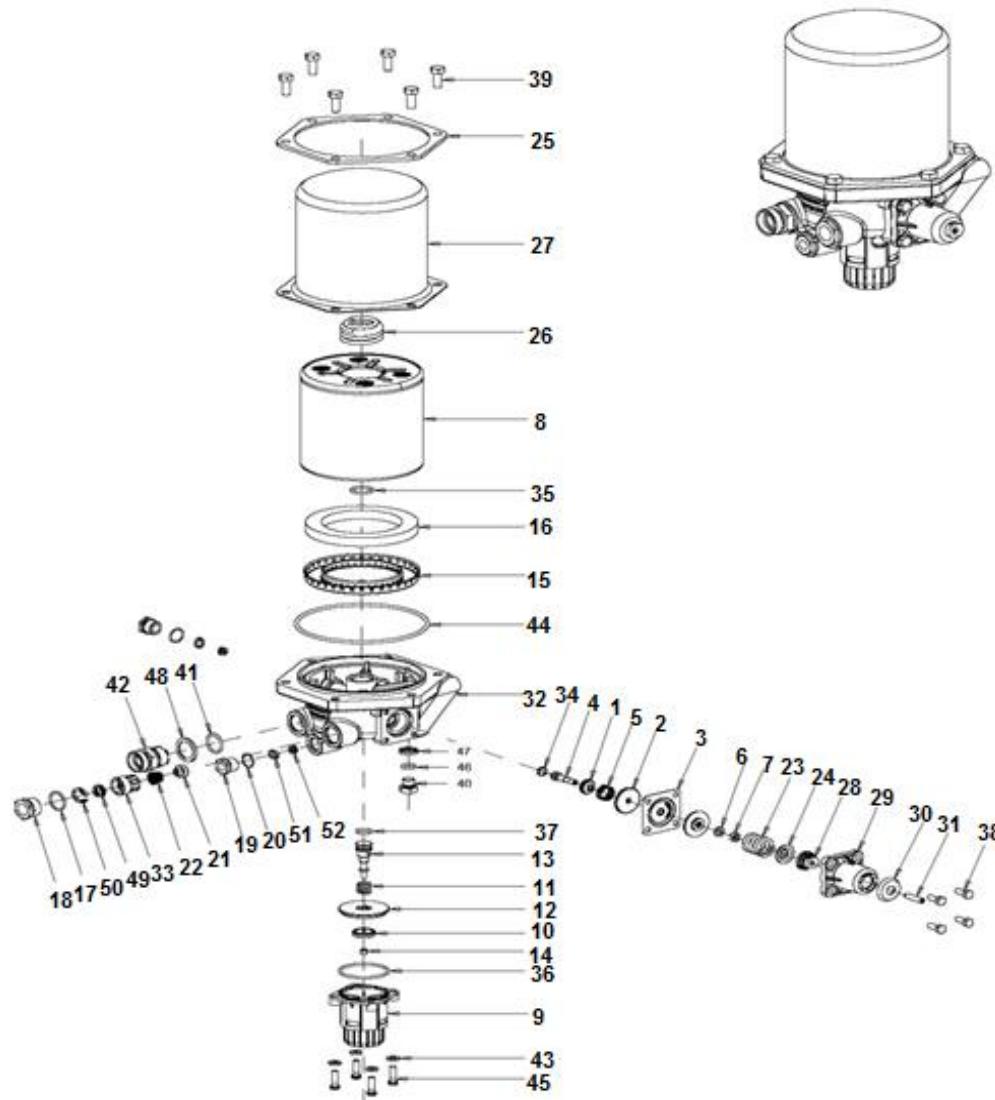


**AIR SUSPENSION PNEUMATIC CONNECTION 16.220 BUS**

## **Diagram No. 50**

## AIR DRYER FOR 230 CC AIR COMPRESSOR

Diagram No. 51



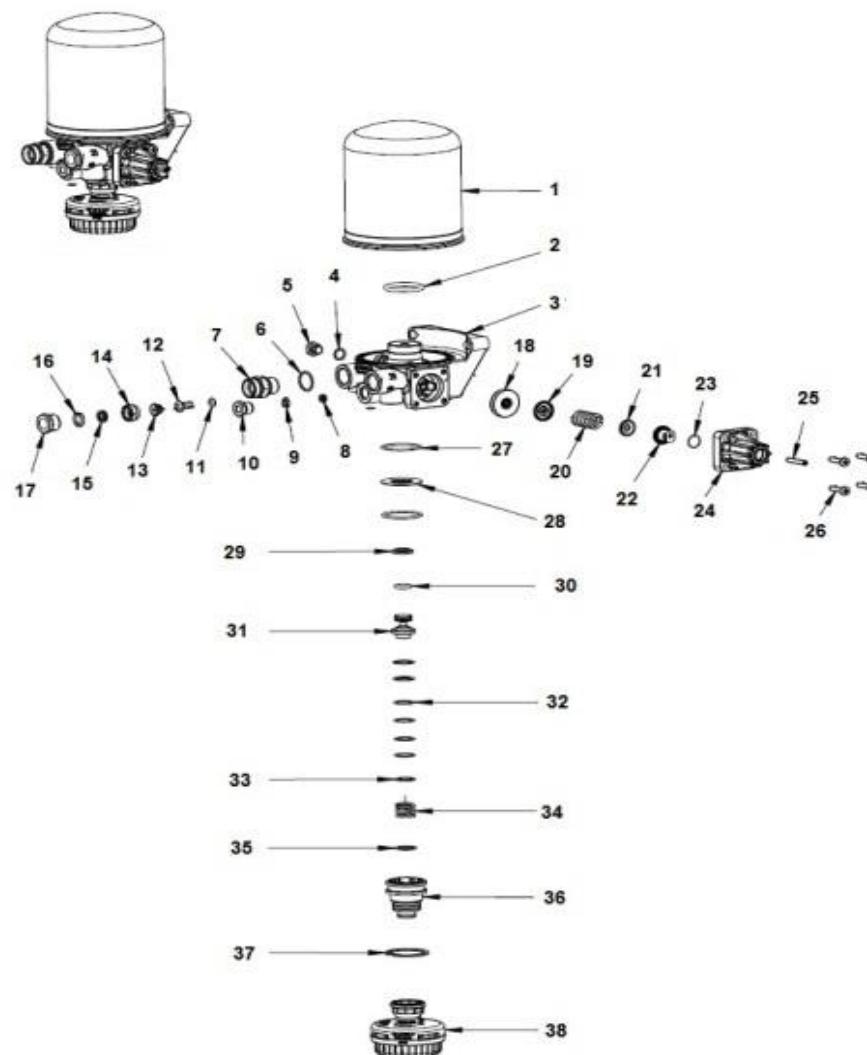
## AIR DRYER FOR 230 CC AIR COMPRESSOR

**Diagram No. 51**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
-	NSSP	AIR DRYER REPAIR KIT	1		CONSISTS OF SR NO 5,6,7,8,9,13,20,23,28,29,30,31,35,36,38 ,40,41,43,47,48,49,55
-	64.98110-7002	NG12 FITTING KIT MAJOR	1		
-	64.98110-7003	NG12 FITTING KIT MINOR	1		
-	64.98110-7004	NG8 FITTING KIT MAJOR	2		
-	64.98110-7005	NG8 FITTING KIT MINOR	2		
-	64.52106-6001	DIAPHRAGM ASSEMBLY	1		CONSISTS OF SR NO 18,19,20,21,22,23,24
-	64.52105-6001	UNLOADER PLUNGER ASSY	1		CONSISTS OF SR NO 30,31,32,33,34,35
-	NSSP	TYRE INFLATOR ASSEMBLY	1		CONSISTS OF SR NO 36,37,38,39,40,41,42
3	64.52102-0002	AIR DRYER HOUSING	1		NSSP
8	64.52104-0001	DESICCANT CARTRIDGE	1		
10	NSSP	BODY	1		
28	64.52101-0001	SILENCER	1		
-	64.98110-0077	DOUBLE SOCKET	1		
-	64.90710-0112	SPECIAL WASHER	1		
-	NSSP	SEALING RING	1		
Page No. 72		REVISION NO. 01/08/16			VERSION: 00

## AIR DRYER FOR 318 CC AIR COMPRESSOR

Diagram No. 52

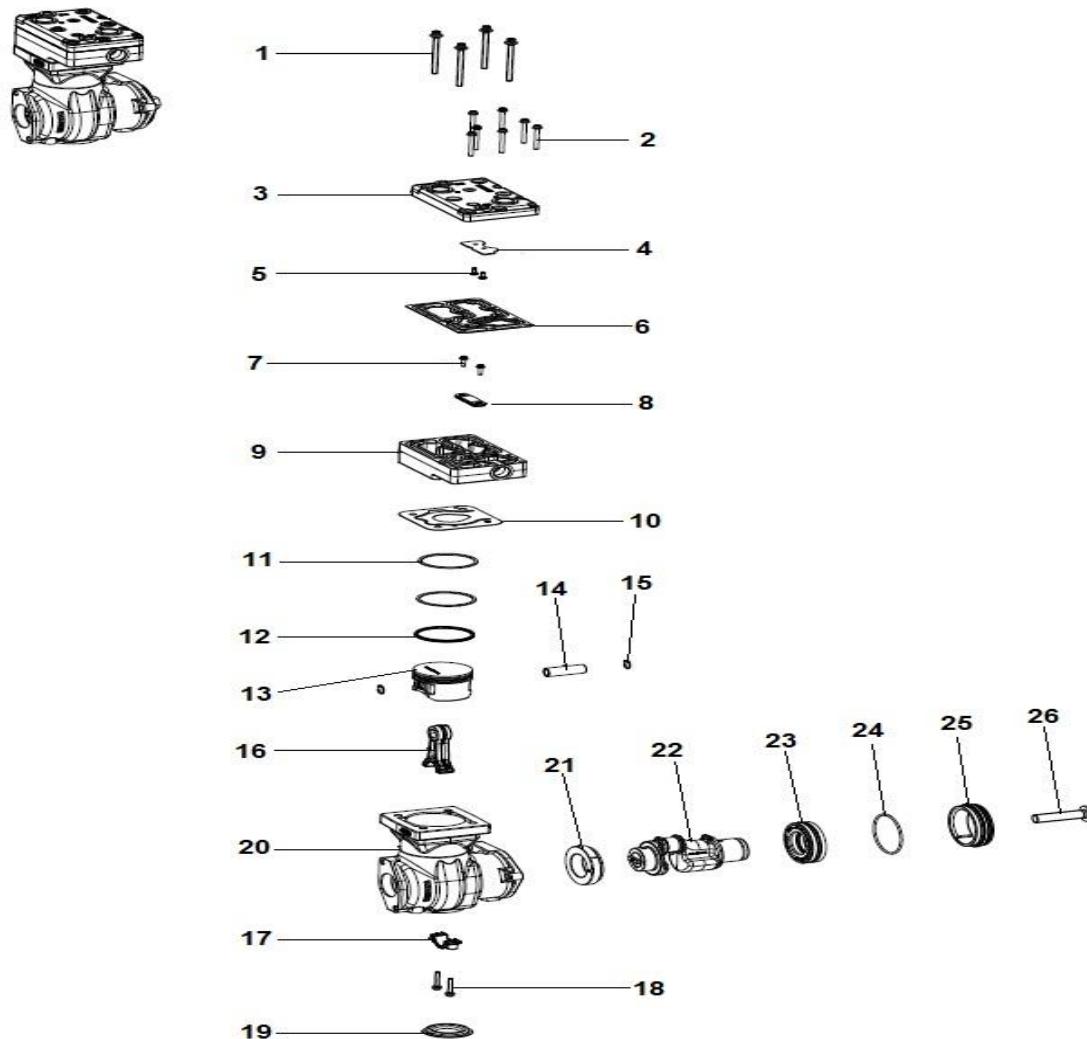


**AIR DRYER FOR 318 CC AIR COMPRESSOR****Diagram No. 52**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	NSSP	AIR SYSTEM PROTECTOR	1		
2	64.52102-7004	AIR DRYER REPAIR KIT	1		CONSISTS OF SR NO 2,4,6,11,12,13,14,18,21,22,23,27,28,29, 30,32,33,35
3	64.52103-0002	BODY	1		
5	64.90490-0537	SCREW PLUG	1		
7	64.98181-0029	ADAPTOR	1		
8	64.98110-7005	NG8 FITTING KIT MINOR	1		CONSISTS OF SR NO 8,9
8	64.98110-7004	NG8 FITTING KIT MAJOR	1		CONSISTS OF SR NO 8,9,10
15	64.98110-7003	NG12 FITTING KIT MINOR	1		CONSISTS OF SR NO 15,16
15	64.98110-7002	NG12 FITTING KIT MAJOR	1		CONSISTS OF SR NO 15,16,17
24	64.52103-0003	COVER	1		
31	64.52103-0004	PISTON	1		
34	64.97602-0005	COMPRESSION SPRING	1		
36	64.52103-0005	BOTTOM	1		
38	64.52101-0002	SILENCER	1		
Page No. 73		REVISION NO. 01/08/16			VERSION: 00

## AIR COMPRESSOR 318 CC

Diagram No. 53



**AIR COMPRESSOR 318 CC****Diagram No. 53**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	NSSP	SCREW,SPECIAL TYPE	4		
2	NSSP	SCREW	7		
3	NSSP	COVER	1		CONSISTS OF SR NO 3,4,5
6	64.52116-7008	COMPRESSOR 318CC HEAD REPAIR KIT	1		CONSISTS OF SR NO 5,6,7,8,10
9	64.54120-6005	MANIFOLD	1		
11	64.52116-7011	COMPRESSOR 318CC PISTON ASSEMBLY KIT	1		CONSISTS OF SR NO 10,11,12,13,14,15,19
11	NSSP	COMPRESSOR 318CC CRANK CASE & PISTON ASSY KIT	1		CONSISTS OF SR NO 10,11,12,13,14,15,19,20,21
16	64.54106-6002	CONNECTING ROD	1		CONSISTS OF SR NO 16,17,18
22	NSSP	CRANK SHAFT	1		
23	NSSP	COMPRESSOR 318CC MAJOR OVERHAUL KIT	1		CONSISTS OF SR NO 5,6,7,8,10,19,21,23,24
24	64.52116-7009	COMPRESSOR 318CC GASKET & SEALING RING KIT	1		CONSISTS OF SR NO 6,10,24
25	NSSP	SLEEVE	1		
26	NSSP	HEX HEAD SCREW	1		
Page No. 74		REVISION NO. 00			VERSION: 00

**REPAIR KITS**

**Diagram No. 54**

**NO DIAGRAM**

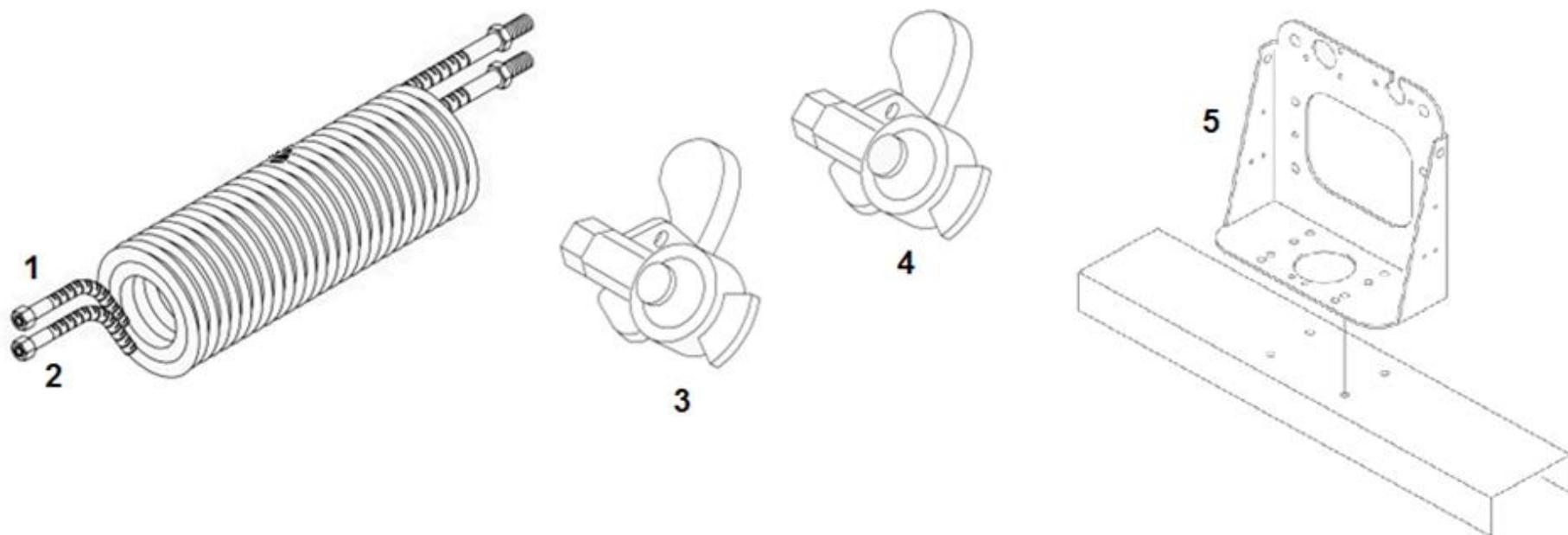
## REPAIR KITS

## Diagram No. 54

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.50410-6001	MSP 25/33 REPAIR KIT	1		FOR SPRING BRAKE ACTUATOR (24/75)
2	64.51101-6002	MSP 8/75 REPAIR KIT (F B C 27)	1		FOR FRONT BRAKE CHAMBER
3	64.52102-6001	MSP 3/98 REPAIR KIT	1		FOR DDU
4	64.52104-0001	DESICCANT CARTRIDGE	1		FOR AIR DRIER (8 BAR)
5	64.52116-6002	MSP 3/94 REPAIR KIT	1		FOR RG2 RELAY VALVE
6	64.52116-6003	MSP 3/106 REPAIR KIT	1		FOR INVERSION RELAY VALVE
7	64.52116-7001	AIR COMPRESSOR MINOR REPAIR KIT MSP1/309	1		FOR AIR COMPRESSOR 230 CC
8	64.52116-7002	AIR COMPRESSOR MAJOR REPAIR KIT (MSP-1/310)	1		FOR AIR COMPRESSOR 230 CC
9	NSSP	PISTON REPAIR KIT MIK 24/99	1	MODIFIED REPAIR KIT	FOR AIR COMPRESSOR 230 CC
10	NSSP	CRANK CASE & PISTON REPAIR KIT (MIK 23/24)	1	MODIFIED REPAIR KIT	FOR AIR COMPRESSOR 230 CC
11	64.52130-6037	MSP 3/92 REPAIR KIT (Q R V)	1		FOR QUICK RELEASE VALVE
12	64.52130-6038	REPAIR KIT	1		FOR SPRING BRAKE ACTUATOR 27/30
13	64.52299-6005	MSP 8/53 REPAIR KIT	1		FOR PALM COUPLING
14	64.52301-6001	MSP 6/26 REPAIR KIT	1		FOR TRAILER CONTROL VALVE
15	64.54100-6001	CYLINDER HEAD ASSY	1		FOR AIR COMPRESSOR 230 CC
16	64.54122-6001	REED VALVE ASSY	1		FOR AIR COMPRESSOR 230 CC
17	64.52130-6036	MSP 3/99 REPAIR KIT	1		FOR AUTOMATIC LOAD SENSING VALVE
Page No. 75		REVISION NO. 01/08/16			VERSION: 00

## PALM COUPLING AND SUPPLY LINES

Diagram No. 55

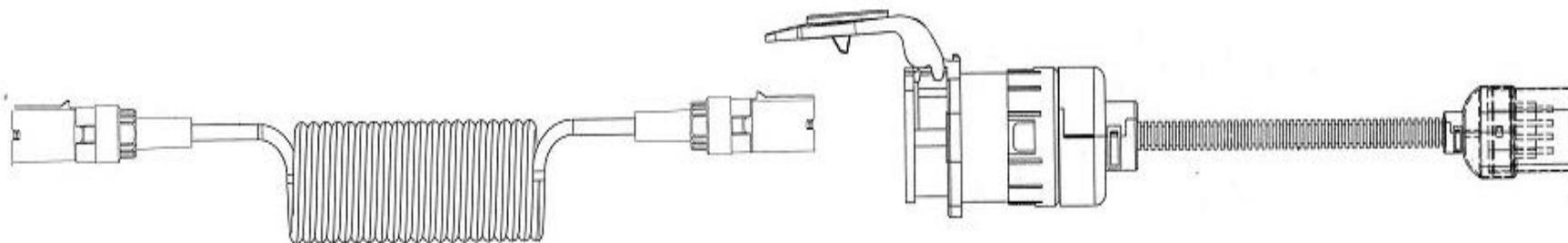


# PALM COUPLING AND SUPPLY LINES

## **Diagram No. 55**

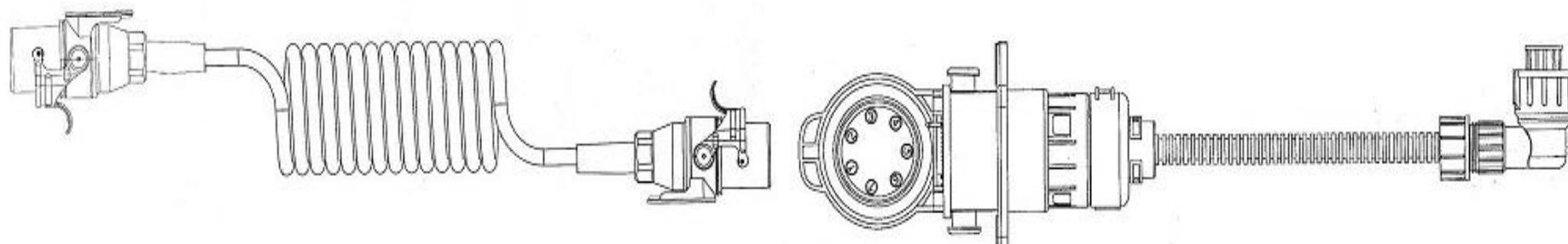
## 7 CORE ELECTRICAL COIL & SOCKET

Diagram No. 56



1

2



3

4

## **7 CORE ELECTRICAL COIL & SOCKET**

## Diagram No. 56

## BRAKE VALVES

Diagram No. 57

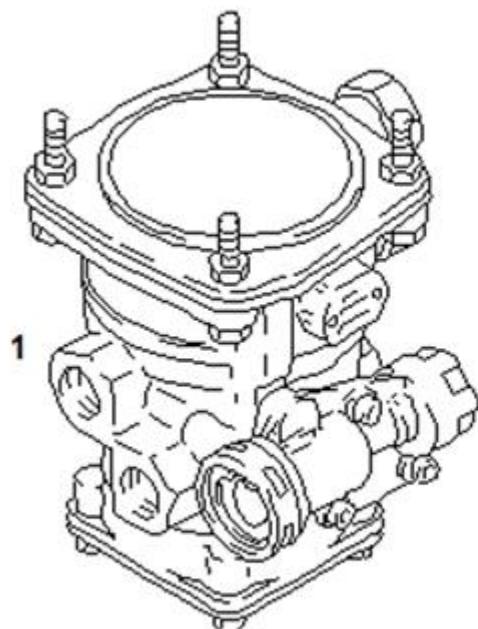


FIG 1

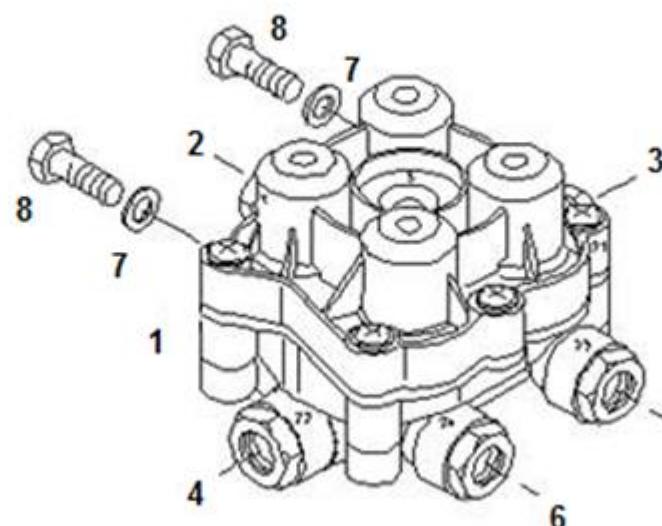


FIG 2

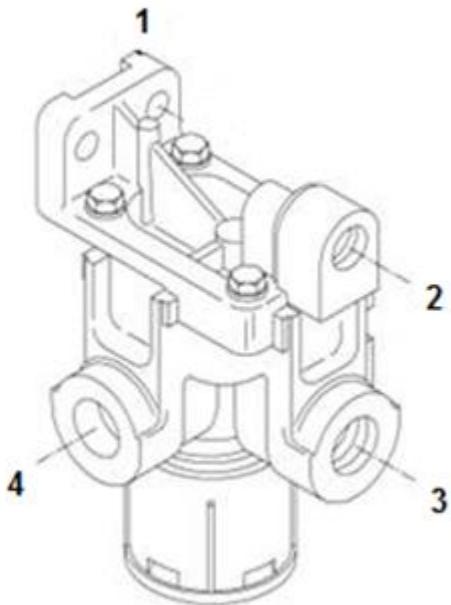


FIG 3

**BRAKE VALVES****Diagram No. 57**

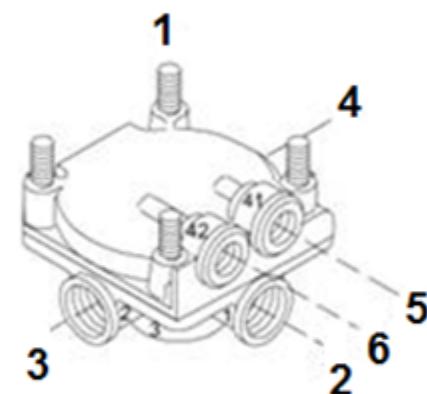
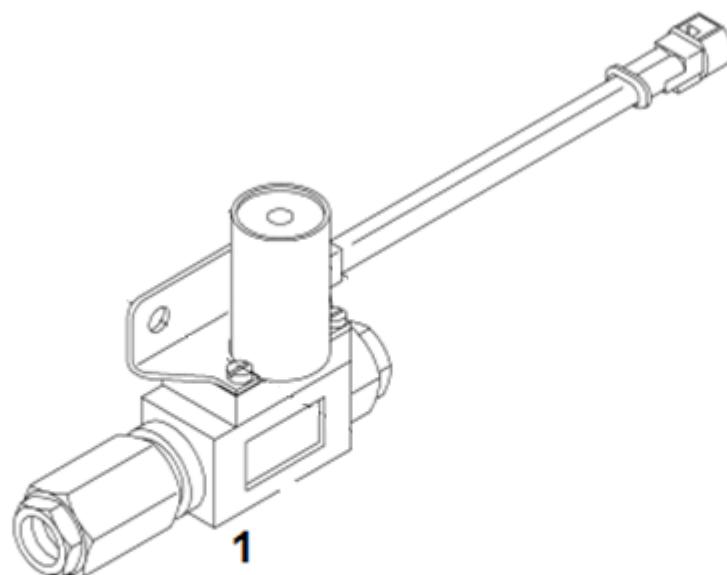
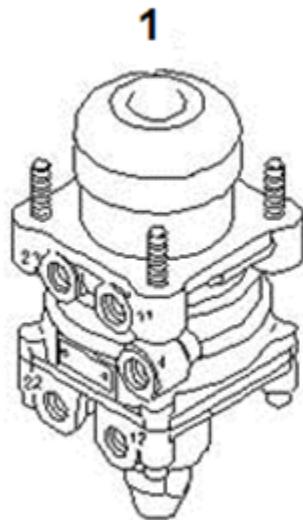
S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	64.52130-6047	TRAILER CONTROL VALVE	1	COMMON FOR 49.220 TR, 40.220 TR, 40.300 TR & 49.300 TR ONLY	REFER FIG 1
1	64.52130-6039	TRAILER CONTROL VALVE	1	COMMON FOR 49.280TR & 40.280 TR ONLY	REFER FIG 1
1	81.52151-6098	QSP VALVE WITH BLEEDBACK FEATURE	1		REFER FIG 2
1	64.52116-6005	RELAY VALVE (ONE PORT CLOSED)	1		REFER FIG 3. ALTERNATE 64.52116-6013
2	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	1		REFER FIG 2
2	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	2		REFER FIG 3
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	1		REFER FIG 3
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	1		REFER FIG 3
3	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	1		REFER FIG 2
3	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	2		REFER FIG 3
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	1		REFER FIG 3
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	1		REFER FIG 3
4	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	1		REFER FIG 2
4	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	2		REFER FIG 3
-	64.90810-0107	RETAINING CLIP M22 (VOSS)	1		REFER FIG 3
-	64.97601-0504	SPRING ELEMENT M22 (VOSS)	1		REFER FIG 3
5	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	1		REFER FIG 2
Page No. 78		REVISION NO. 01/05/16			VERSION: 00

# **BRAKE VALVES**

## Diagram No. 57

## BRAKE VALVES

Diagram No. 58



**BRAKE VALVES****Diagram No. 58**

S R	PART NO.	DESCRIPTION	QTY	APPLICABLE MODEL	REMARKS
1	81.52130-6204	DUAL BRAKE VALVE	1		REFER FIG 1
1	64.52160-6006	MAGNETIC VALVE	1		REFER FIG 2
1	81.52116-6079	RELAY VALVE HAND BRAKE	1		REFER FIG 3
2	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	1		REFER FIG 3
3	64.90713-0543	M22 THRUST RING	1		REFER FIG 3
4	64.98183-6013	HEX NUT M22X1.5 NG12 (VOSS)	1		REFER FIG 3
5	64.98110-0026	ADAPTOR NG12XM16X1.5 (VOSS)	1		REFER FIG 3
6	64.98183-6014	HEX NUT M16x1.5 NG8 (VOSS)	1		REFER FIG 3
Page No. 80		REVISION NO. 00			VERSION: 00