PREVOST

Pneumatic diagram

PNEUMATIC DIAGRAMS H3-45 COACHES WITH FRONT BEAM AXLE

NO:	**D140354 P0**	REVISION :	**I**

EFF. OC#	2006038	PRIOR TO OC#	**2007032**
EFF. VEH#	#8-1045	PRIOR TO VEH#	**# 9-1470**

DR.	R.Bouillon	date	2009-05-15
CHK	Marc-Jose Handfield	appr	Marc-José Handfield

REV.	DATE	DESCRIPTION	PAGE	BY	CHK.	APPR.
A	2006-10-18	#7-0749 H3-45 PRELIMINARY VEHICLE #1,WITH ZF TRANSMISSION AND ESP ADVANCED				
	2007-01-15	#7-0855 H3-45 PRELIMINARY VEHICLE #2,WITH WORLD TRANSMISSION AND ESP ADVANCED				
	2007-05-02	#8-0948 H3-45 PRELIMINARY VEHICLE #3,WITH WORLD TRANSMISSION AND ABS 6 BASIC , ENGINE VOLVO MD-13				
	2007-09-04	PRODUCTION VEHICLE #8-1045…				
B	2008-02-01	ENGINE VOLVO MD-13		Rob.	Rob.	M.J.H.
		Preliminary vehicles : No.1 #8-0948 , No.2 #8-0995 , No.3 #8-1096				
		PRODUCTION VEHICLE H3-45 : #8-1202 …				
		New page #D140354P11	P.11	Rob.	Rob.	M.J.H.
		New page #D140354PSP10	SP.10	Rob.	Rob.	M.J.H.
C	2008-03-10	TPMS (TIRE PRESSURE MONITORING SYSTEM)	SP5 &5.1	Rob.	Rob.	M.J.H.
		Production vehicle H3-45 #8-1170…	P3 & 3.1	Rob.	Rob.	M.J.H.
		Update on pages ; 3 , 8 , 10 , SP1 , SP7	P8 & 8.1	Rob.	Rob.	M.J.H.
			P10 & 10.1	Rob.	Rob.	M.J.H.
			SP1 & 1.1	Rob.	Rob.	M.J.H.
			SP7 & 7.1	Rob.	Rob.	M.J.H.
D	2008-04-18	#D140354SP1 & SP7, Update, Rev C	SP1 & 1.1	Y.L.	Y.L.	M.J.H.
		#D140354SP3, Update, Rev B	SP3 & 3.1	Y.L.	Y.L.	M.J.H.
			SP7 & 7.1	Y.L.	Y.L.	M.J.H.
		NEW #D140354SP11, REAR AIR FILL VALVE SPECIAL	SP11 & 11.1	Y.L.	Y.L.	M.J.H.
E	2008-04-28	NEW #D140354SP12 , SPECIAL AIR DRYER WABCO INTO LUGGAGE COMPT.	SP12 & 12.1	Rob.	Rob.	M.J.H.

Pneumatic diagram

PNEUMATIC DIAGRAMS H3-45 COACHES WITH FRONT BEAM AXLE

REV.	DATE	DESCRIPTION	PAGE	BY	CHK.	APPR.
F	2008-06-27	D13 VOLVO ENGINE, ADD AIR CLEANER INJECTOR	P12.0&P12.1	Y.L.	M.J.H.	M.J.H.
		D140354 P12 & P13 NEW PAGE, RETROFIT PRIOR TO #8-1202	P13.0&13.1	Y.L.	M.J.H.	M.J.H.
G	2008-11-27	NEW FRONT FACE LIFT , UPDATE PAGES 1,2,3,4,5,9 O.C.#2007032	P1.1 TO 1.4 2.1,3.1,4.1,5.1 and 9.1	Rob.	M.J.H.	M.J.H.
		ADD NEW PAGE 14 WITH OPTION RETARDER ALLISON TRANSMISSION O.C. #2005086	P14.1	Rob.	M.J.H.	M.J.H.
H	2009-01-15	#D140354SP1, #D140354SP7 : OC#2008107	SP1.1,SP7.1	Rob.	M.J.H.	M.J.H.
		#D140354P1 Revision C , OC#2007032	P1.1	Rob.	M.J.H.	M.J.H.
I	2009-05-15	#D140354P.1,2,8,9,10,12,SP4,SP9,SP10,SP12, UPDATE OC#2007032		Rob.	M.J.H.	M.J.H.

PREVOST

Pneumatic diagram

PNEUMATIC DIAGRAMS H3-45 COACHES WITH FRONT BEAM AXLE

PRODUCTION NUMBER	REV	EFF. VEH.	ECN	S.A.V. NUMBER	REV	DESCRIPTION
D140354P1.0	A B C **D**	# 8-1045 # 9-1470 #9-1470 **#9-1470**	2006038 2007032 2007032 **2007032**	D140354P1.1	**D**	FULL PNEUMATIC SYSTEM (STANDARD DIAGRAM) ABS 6
				D140354P1.2	**D**	ACCESSORIES
				D140354P1.3	**D**	BRAKES SYSTEM
				D140354P1.4	**D**	SUSPENSION
D140354P2.0	A B **C**	# 8-1045 #9-1470 **#9-1470**	2006038 2007032 **2007032**	D140354P2.1	A B **C**	KNEELING OPTION
D140354P3.0	A B **C**	# 8-1045 # 9-1470	2006038 2007032	D140354P3.1	A B **C**	KNEELING & LOW-BUOY OPTION
D140354P4.0	A **B**	# 8-1045 # 9-1470	2006038 2007032	D140354P4.1	A **B**	KNEELING & HIGH-BUOY OPTION
D140354P5.0	**A** **B**	# 8-1045 # 9-1470	2006038 2007032	D140354P5.1	A **B**	KNEELING, LOW-BUOY & HIGH-BUOY OPTION
D140354P6.0	**A**	# 8-1045	2006038	D140354P6.1	**A**	PARKING BRAKE WITH WCL WITHOUT KNEELING OPTION
D140354P7.0	**A**	# 8-1045	2006038	D140354P7.1	**A**	WITH ZF TRANSMISSION OPTION
D140354P8.0	A B **C**	# 8-1045	2006038	D140354P8.1	A B **C**	ESP ELECTRONIC STABILITY PROGRAM OPTION
D140354P9.0	A B **C**	# 8-1045 # 9-1470	2006038 2007032	D140354P9.1	A B **C**	WITH DOOR AIR LOCK , LUGGAGE COMPARTMENT OPTION
D140354P10.0	A B **C**	# 8-1045	2006038	D140354P10.1	A B **C**	WITH ZF TRANSMISSION AND ESP OPTION
D140354P11.0	**A**	# 8-1202	2005086	D140354P11.1	**A**	D13 VOLVO ENGINE WITH HALDEX AIR DRYER
D140354P12.0	**A** **B**	# 8-1202	2008048	D140354P12.1	A **B**	D13 VOLVO ENGINE WITH RETARDER ALLISON TRANSM.
D140354P13.0	**A**	# 8-1202	2008048	D140354P13.1	**A**	D13 VOLVO ENGINE WITHOUT RETARDER ALLISON TRANSM.

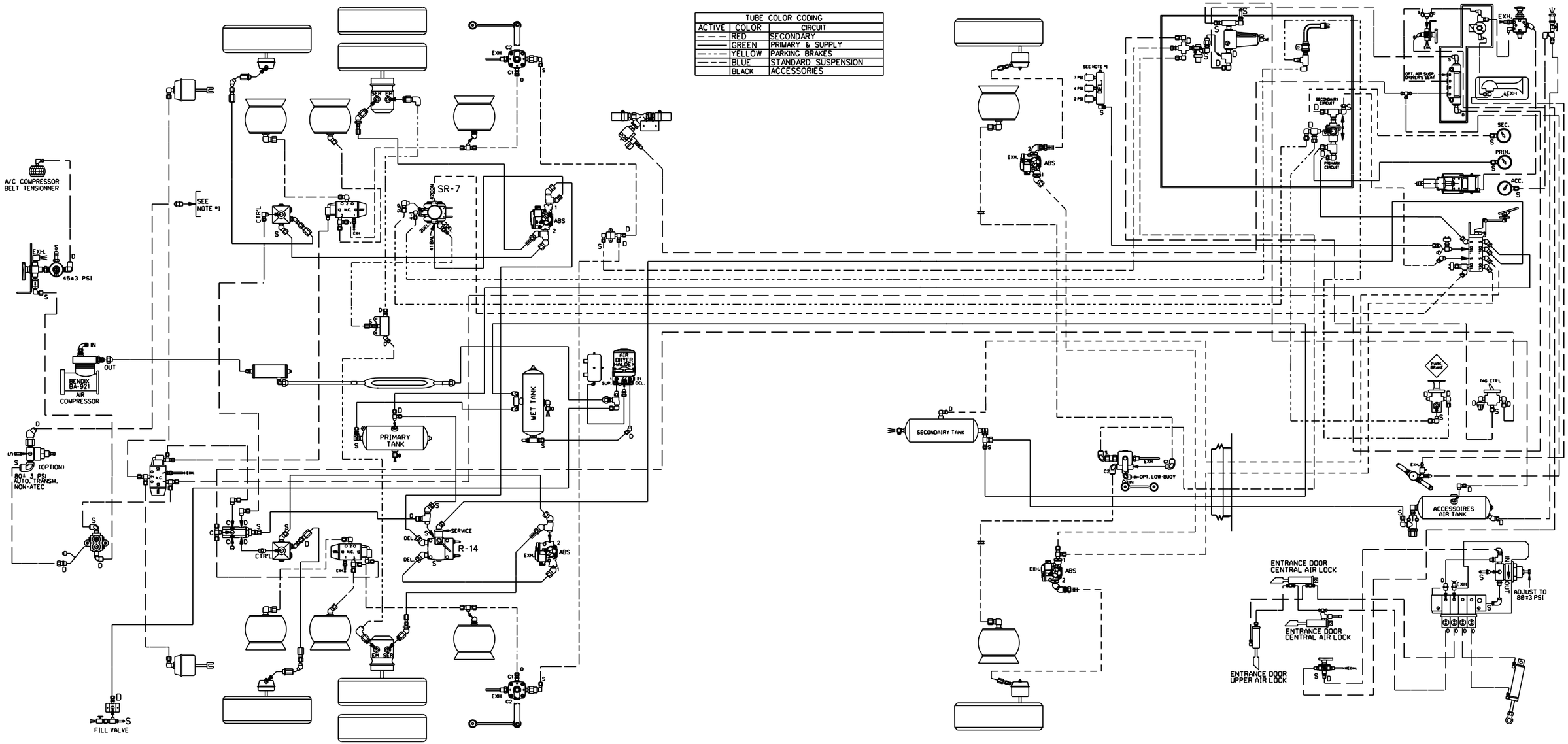
PREVOST

Pneumatic diagram

PNEUMATIC DIAGRAMS H3-45 COACHES WITH FRONT BEAM AXLE

D140354P14.0	**A**	# 8-1202	2005086	D140354P14.1	**A**	DETROIT ENGINE WITH RETARDER ALLISON TRANSMISSION
D140354SP1.0	A B C **D**	# 8-1045 #A-1497	2006038 2008107	D140354SP1.1	A B C **D**	“SPECIAL” WITH ZF TRANSMISSION + ESP AND TRAILER HITCH AIR BRAKE OPTION
D140354SP2.0	**A**	# 8-1045	2006038	D140354SP2.1	**A**	“SPECIAL” WITH WABCO AIR DRYER OPTION ORLEANS
D140354SP3.0	A **B**	# 8-1045	2006038	D140354SP3.1	A **B**	“SPECIAL” PARKING BRAKE RELEASE WITH SUPPLEMENTARY SWITCH & CUT-OFF AIR SUPPLY TO ENGINE COMPARTIMENT ACCESSORIES OPTIONS
D140354SP4.0	A **B**	# 8-1045	2006038	D140354SP4.1	A **B**	“SPECIAL” WITH UNLOAD TAG SYSTEM (PITMAN ARM ACTUATED) OPTION
D140354SP5.0	A **B**	# 8-1170	2007047	D140354SP5.1	A **B**	“SPECIAL” WITH UNLOAD TAG SYSTEM (PITMAN ARM ACTUATED) OPTION AND ESP OPTION
D140354SP6.0	**A**	# 8-1045	2006038	D140354SP6.1	**A**	“SPECIAL” PARKING BRAKE OVERRULE OPTION
D140354SP7.0	A B C **D**	# 8-1045 #A-1497	2006038 2008107	D140354SP7.1	A B C **D**	“SPECIAL” WITH ALLISON TRANSMISSION + ESP AND TRAILER HITCH AIR BRAKE OPTION
D140354SP8.0	A B **C**	# 8-1045	2006038	D140354SP8.1	A B **C**	“SPECIAL” FAST KNEELING WITH FRONT SUPPLEMENTARY AIR TANK & HIGH-BUOY OPTION
D140354SP9.0	A **B**	# 8-1045	2006038	D140354SP9.1	A **B**	“SPECIAL” WITH INDEPENDENT DOOR AIR LOCK , LUGGAGE COMPARTMENT OPTION
D140354SP10.0	A **B**	# 8-1202	2005086	D140354SP10.1	A **B**	“SPECIAL” WITH WABCO AIR DRYER AND VOLVO D13 ENGINE
D140354SP11.0	**A**	# -	2006038	D140354SP11.1	**A**	REAR AIR FILL VALVE SPECIAL
D140354SP12.0	A **B**	# 8-1329	----	D140354SP12.1	A **B**	“SPECIAL” WITH WABCO AIR DRYER INTO LUGGAGE COMPARTMENT OPTION AND VOLVO D13 ENGINE ORLEANS

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
— — —	RED	SECONDARY
———	GREEN	PRIMARY & SUPPLY
— · —	YELLOW	PARKING BRAKES
— — —	BLUE	STANDARD SUSPENSION
———	BLACK	ACCESSORIES



PREVOST®	DESCRIPTION: H3-41 & H3-45 COACHES, ENGINE 2007, WITH FRONT BEAM AXLE FULL PNEUMATIC SYSTEM	EFF. W/ VEH : #8-1045	PAGE: D140354 P1.1
		DATE: 2007/05 REV.: A	

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
	BLACK	ACCESSORIES

A/C COMPRESSOR BELT TENSIONNER

EXH. 45±3 PSI

SEE NOTE #1

CTRL

SR-7

ABS

BENDIX BA-921 AIR COMPRESSOR

(OPTION) 80± 3 PSI AUTO. TRANSM. NON-ATEC

PRIMARY TANK

WET TANK

AIR DRYER HALDEX

R-14

SECONDARY TANK

OPT. LOW-BUOY

FILL VALVE

SEE NOTE #1

7 PSI
4 PSI
2 PSI

SECONDARY CIRCUIT

PRIMARY CIRCUIT

OPT. AIR SUSP. DRIVER'S SEAT

SEC.

PRIM.

ACC.

PARK BRAKE

TAG CTRL

ACCESSOIRES AIR TANK

ENTRANCE DOOR CENTRAL AIR LOCK

ENTRANCE DOOR CENTRAL AIR LOCK

ENTRANCE DOOR UPPER AIR LOCK

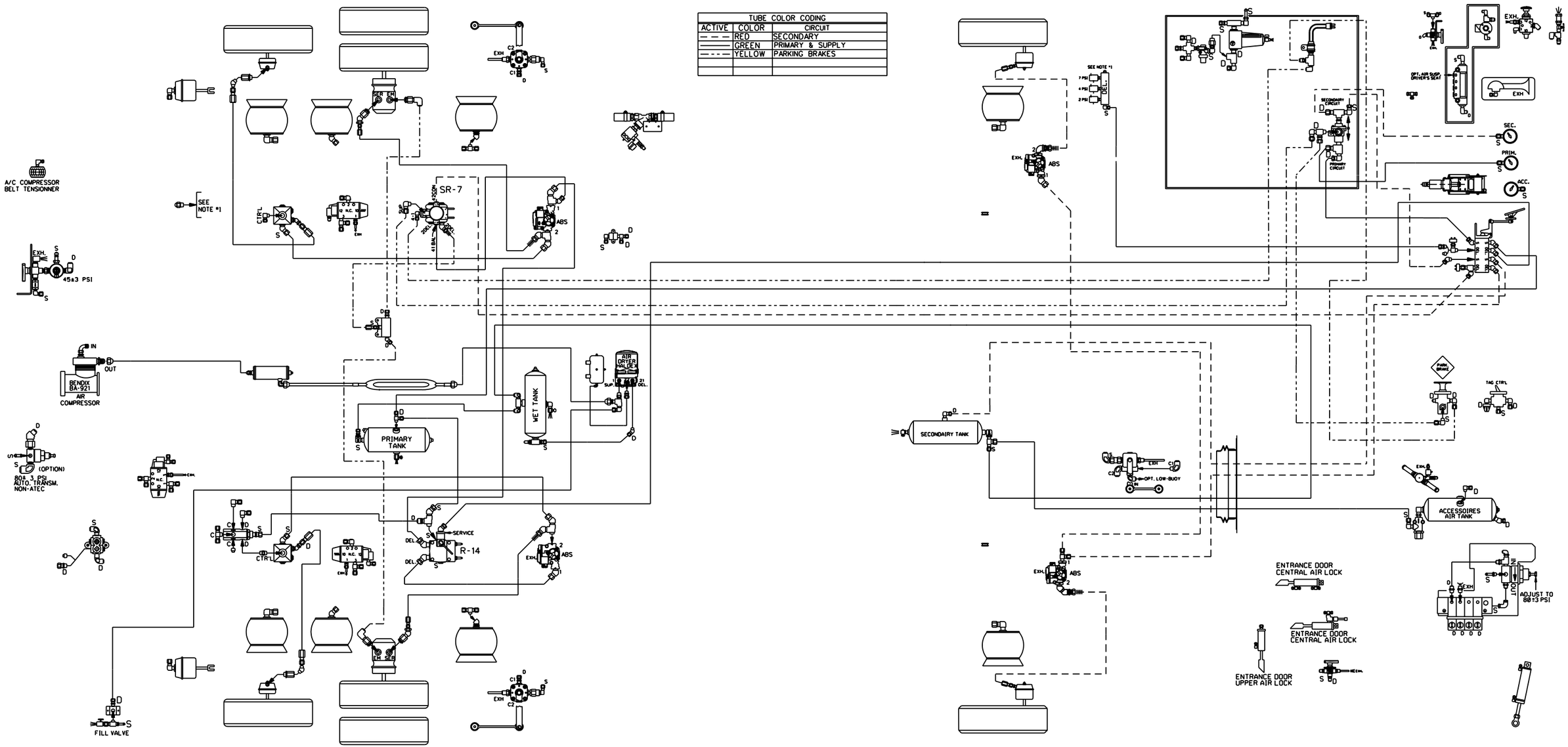
IN

OUT

ADJUST TO 80±3 PSI

PREVOST®	DESCRIPTION: H3-41 & H3-45 COACHES, ENGINE 2007, WITH FRONT BEAM AXLE ACCESSORIES	EFF. W/ VEH : #8-1045	PAGE: D140354P1.2
		DATE: 2007/05	REV.: A

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
— — —	RED	SECONDARY
———	GREEN	PRIMARY & SUPPLY
- - - -	YELLOW	PARKING BRAKES



PREVOST®	DESCRIPTION: H3-41 & H3-45 COACHES, ENGINE 2007, WITH FRONT BEAM AXLE BRAKES SYSTEM	EFF. W/ VEH : #8-1045	DATE: 2007/05	REV.: A
				PAGE: D140354 P1.3

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
———	BLUE	STANDARD SUSPENSION

A/C COMPRESSOR BELT TENSIONNER

SEE NOTE #1

SR-7

ABS

EXH.

45±3 PSI

IN

OUT

BENDIX BA-921 AIR COMPRESSOR

(OPTION) 80± 3 PSI AUTO. TRANSM. NON-ATEC

PRIMARY TANK

WET TANK

AIR DRYER HALDEX

SECONDAIRY TANK

R-14

SERVICE

FILL VALVE

OPT. LOW-BUOY

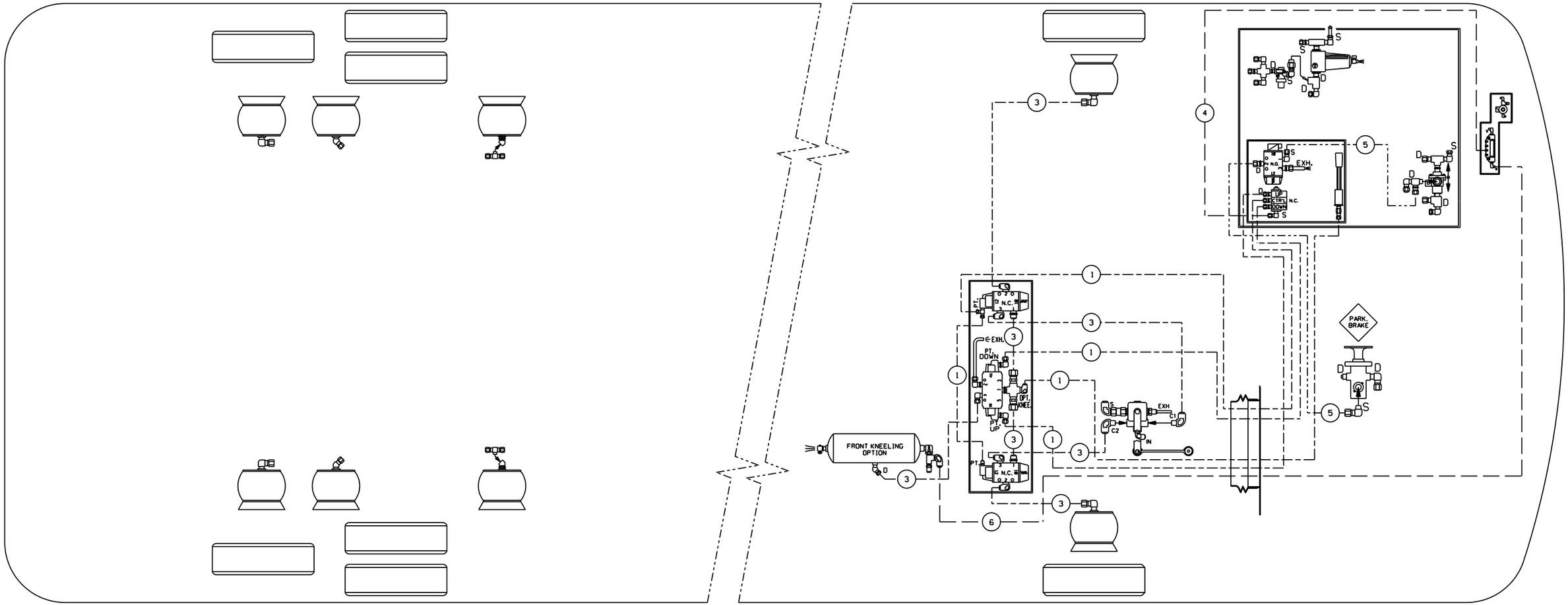
ACCESSOIRES AIR TANK

ENTRANCE DOOR CENTRAL AIR LOCK

ENTRANCE DOOR UPPER AIR LOCK

ADJUST TO 80±3 PSI

PREVOST®	DESCRIPTION: H3-41 & H3-45 COACHES, ENGINE 2007, WITH FRONT BEAM AXLE STANDARD SUSPENSION	EFF. W/ VEH : #8-1045	PAGE: D140354 P1.4
		DATE: 2007/05	REV.: A



TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
·—·—·—	YELLOW	PARKING BRAKE
—— ——	BLACK	ACCESSORIES
—— ——	BLUE	KNEELING OPTION

BALLOON	PIPE
*1	1/4" O.D. BLUE
*2	3/8" O.D. BLUE
*3	1/2" O.D. BLUE
*4	1/4" O.D. BLACK
*5	3/8" O.D. YELLOW
*6	3/8" O.D. BLACK

PREVOST®

DESCRIPTION:

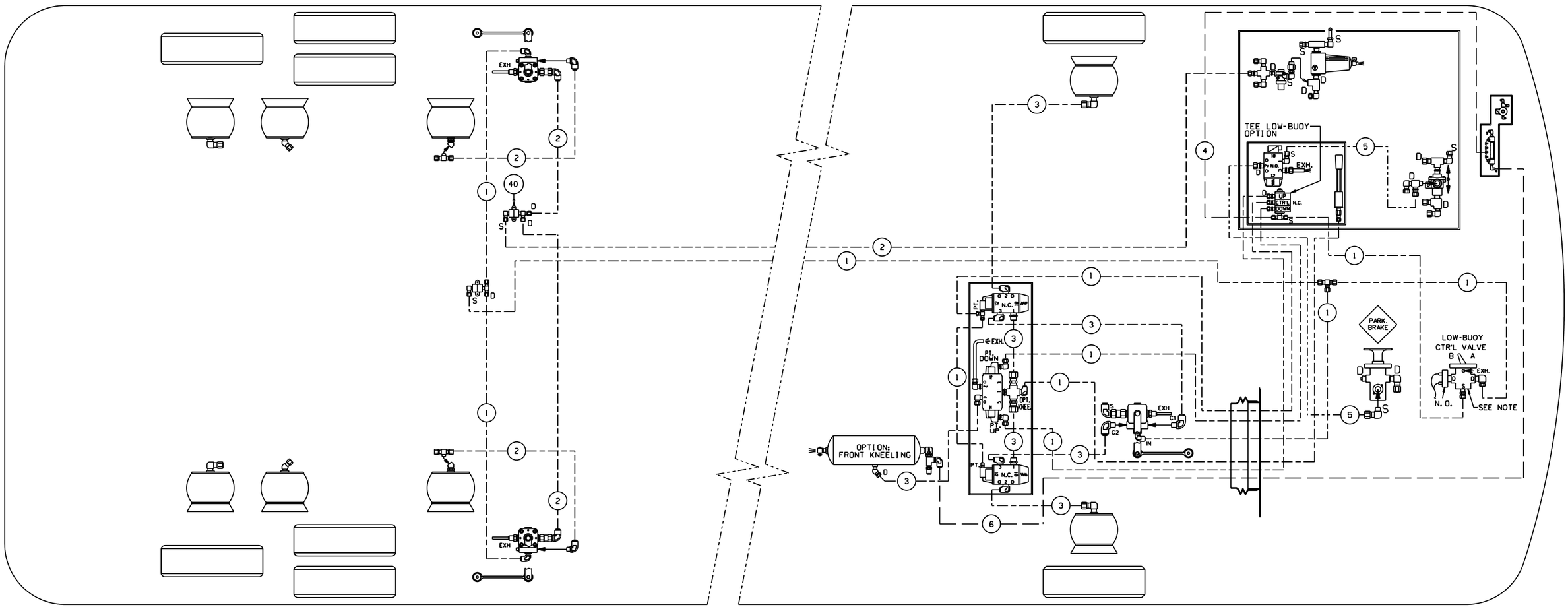
H3-41 & H3-45 COACHES, WITH FRONT BEAM AXLE WITH FRONT KNEELING OPTION

EFF. W/ VEH : #8-1045...

DATE: 2007/05

REV.: A

PAGE: D140354 P2.1



TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
- - - - -	YELLOW	PARKING BRAKE
—— ——	BLACK	ACCESSORIES
—— — —	BLUE	KNEELING OPTION

CONTROL VALVE OPT. "LOW-BUOY" , "A" OR "B" SETTING:

POSITION "A": VALVE IS OPEN,
AIR FLOW BETWEEN SUPPLY (S) AND
DELIVERY (D) , LOW-BUOY IS IN FUNCTION.

POSITION "B": VALVE CLOSED,
AIR DOES'NT FLOW BETWEEN SUPPLY (S) AND
DELIVERY (D) , LOW-BUOY IS NOT IN FUNCTION.

BALLOON	PIPE
•1	1/4" O.D. BLUE
•2	3/8" O.D. BLUE
•3	1/2" O.D. BLUE
•4	1/4" O.D. BLACK
•5	3/8" O.D. YELLOW
•6	3/8" O.D. BLACK

PREVOST®

DESCRIPTION:

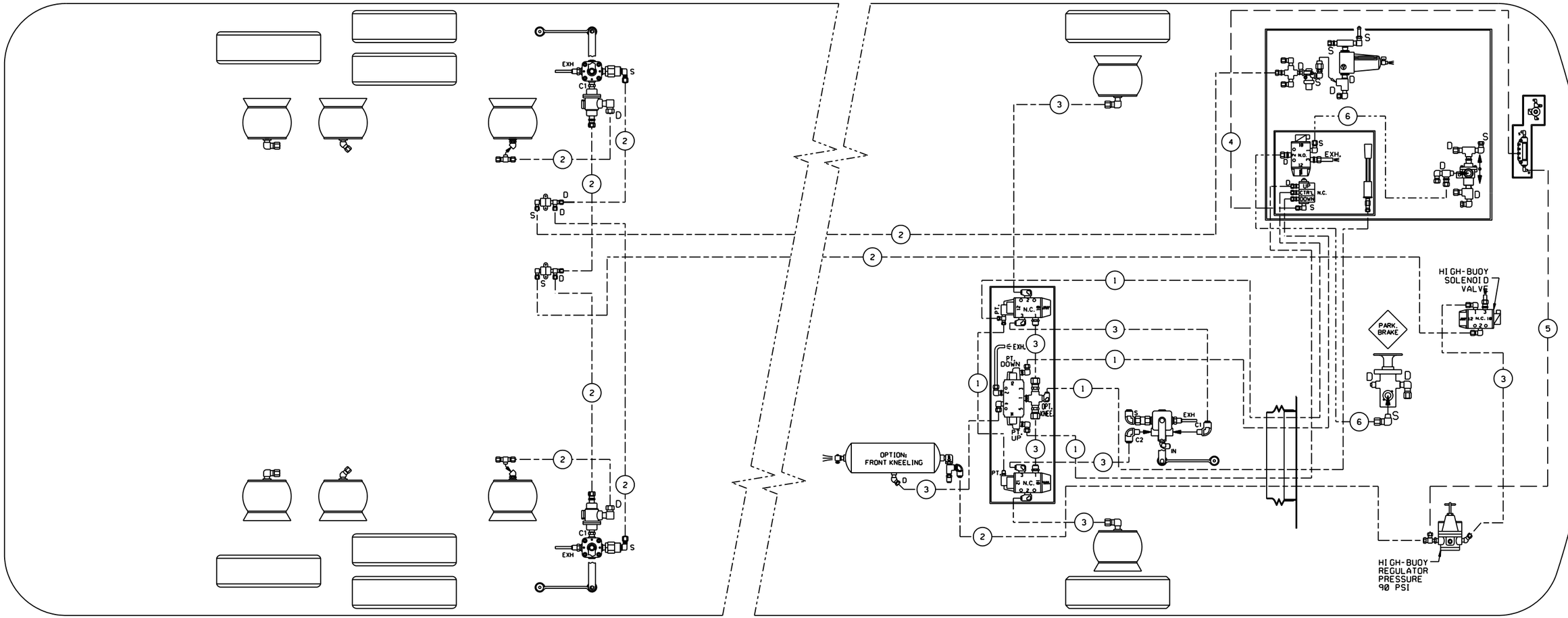
H3-41 & H3-45 COACHES, WITH FRONT BEAM AXLE WITH KNEELING AND LOW-BUOY OPTION

EFF. W/ VEH : #8-1045...

DATE: 2007/05

REV.: A

PAGE: D140354 P3.1



TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
- - - - -	YELLOW	PARKING BRAKE
— —	BLACK	ACCESSORIES
— - —	BLUE	KNEELING OPTION

BALLOON	PIPE
*1	1/4" O.D. BLUE
*2	3/8" O.D. BLUE
*3	1/2" O.D. BLUE
*4	1/4" O.D. BLACK
*5	3/8" O.D. BLACK
*5	3/8" O.D. YELLOW

PREVOST®

DESCRIPTION:

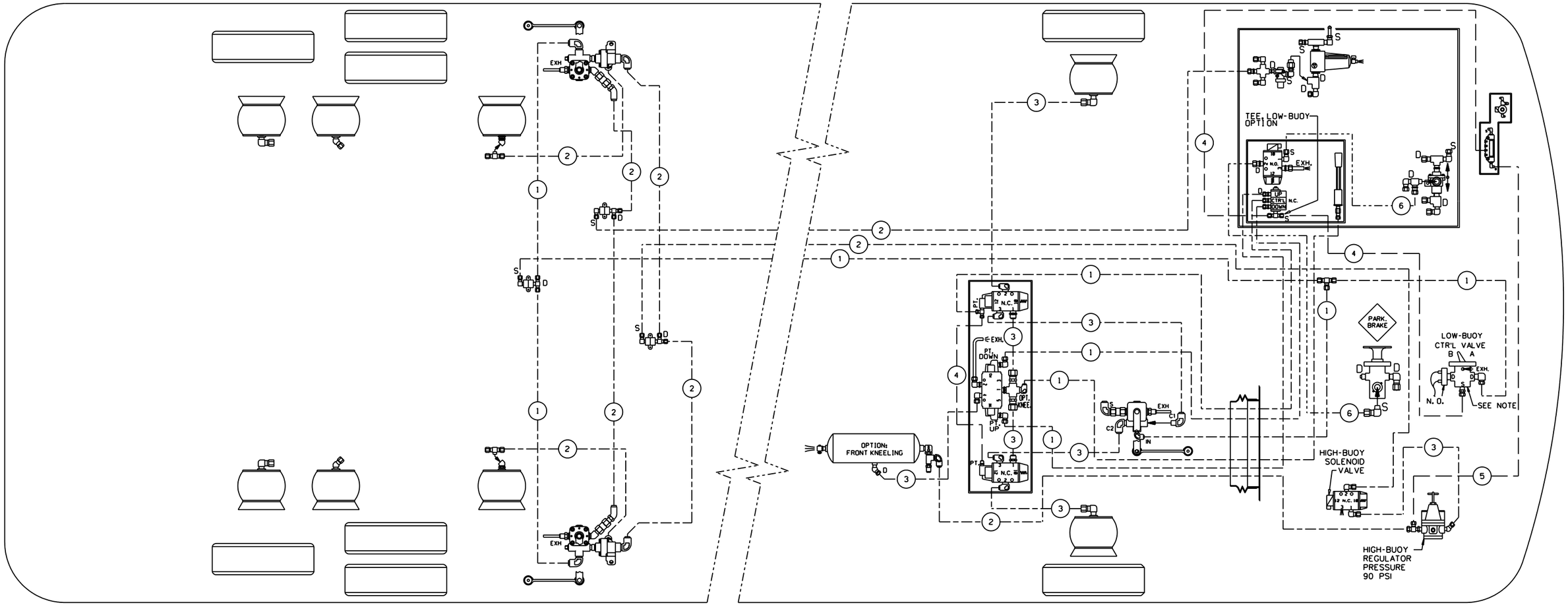
H3-41 & H3-45 COACHES, WITH FRONT BEAM AXLE WITH FRONT KNEELING AND HIGH-BUOY COMBINATION OPTION

EFF. W/ VEH : #8-1045...

DATE: 2007/05

REV.: A

PAGE: D140354 P4.1



TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
-·-·-·-	YELLOW	PARKING BRAKE
—— ——	BLACK	ACCESSORIES
— — —	BLUE	SUSPENSION OPTION

CONTROL VALVE OPT. "LOW-BUOY" , "A" OR "B" SETTING:

POSITION "A": VALVE IS OPEN,
AIR FLOW BETWEEN SUPPLY (S) AND
DELIVERY (D) , LOW-BUOY IS IN FUNCTION.

POSITION "B": VALVE CLOSED,
AIR DOES'NT FLOW BETWEEN SUPPLY (S) AND
DELIVERY (D) , LOW-BUOY IS NOT IN FUNCTION.

BALLOON	PIPE
*1	1/4" O.D. BLUE
*2	3/8" O.D. BLUE
*3	1/2" O.D. BLUE
*4	1/4" O.D. BLACK
*5	3/8" O.D. BLACK
*6	3/8" O.D. YELLOW

PREVOST®

DESCRIPTION:

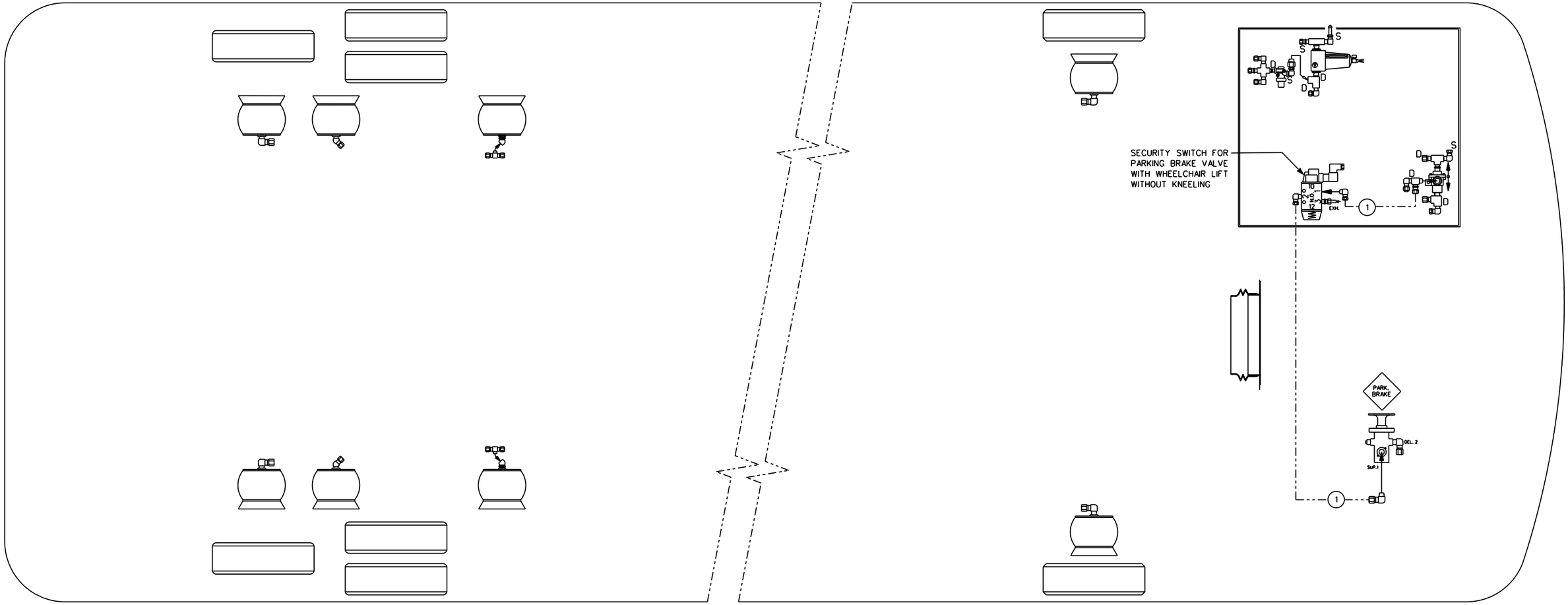
H3-41 & H3-45 COACHES,
WITH FRONT BEAM AXLE
WITH KNEELING, LOW-BUOY & HIGH-COMBINATION

EFF. W/ VEH : #8-1045...

DATE: 2007/05

REV.: A

PAGE: D140354 P5.1



TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
————	YELLOW	PARKING BRAKE

BALLOON	PIPE
#1	3/8" O.D. YELLOW

PREVOST®

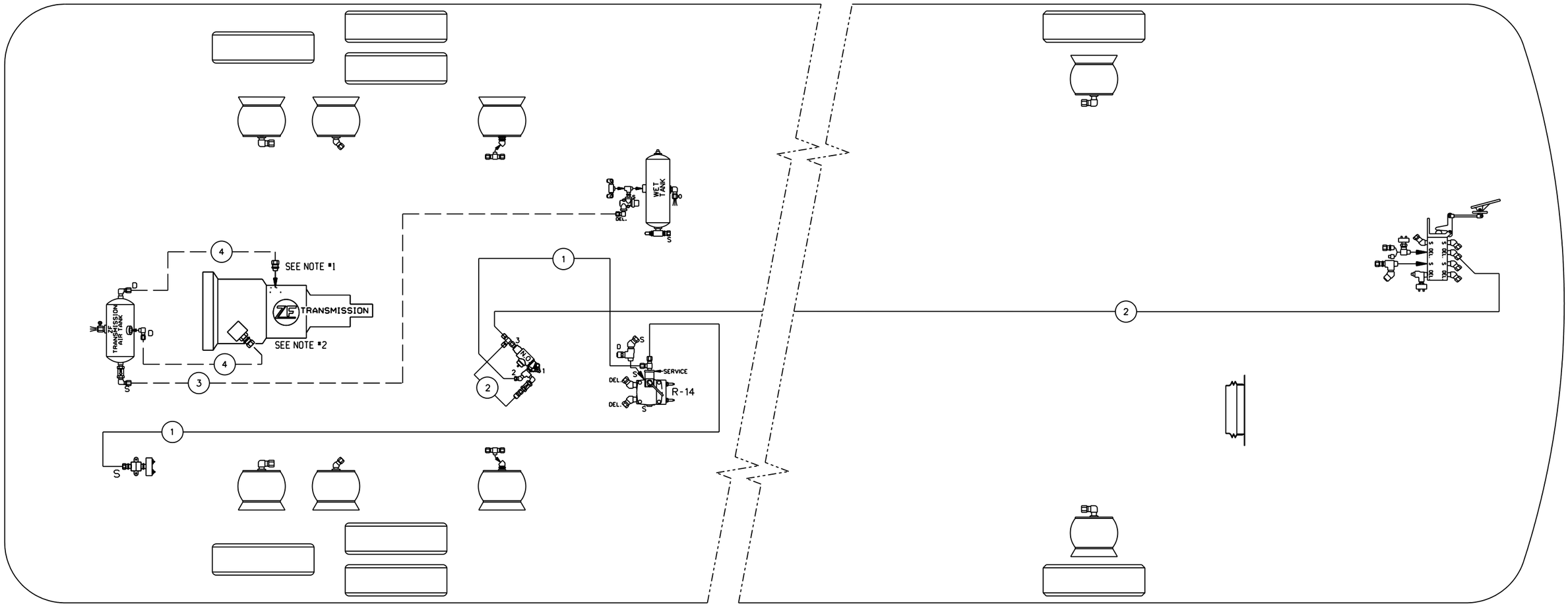
DESCRIPTION:
H3-41 & H3-45 COACHES, WITH FRONT BEAM AXLE
WITH PARKING BRAKE OPTION WITH WEELCHAIR LIFT AND WITHOUT KNEELING

EFF. W/ VEH : #8-1045...

DATE: 2007/05

REV.: A

PAGE: D140354 P6.1



NOTE *1: COMPRESSED AIR LINE FOR CLUTCH ACTUATOR

*2: COMPRESSED AIR LINE FOR TRANSMISSION ACTUATOR

*3: BASED ON *D140300 P.1

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
———	GREEN	PRIMARY & SUPPLY
— —	BLACK	ACCESSORIES

BALLOON	PIPE
*1	3/8" O.D. GREEN
*2	1/2" O.D. GREEN
*3	3/8" O.D. BLACK
*4	5/8" O.D. BLACK

PREVOST®

DESCRIPTION:

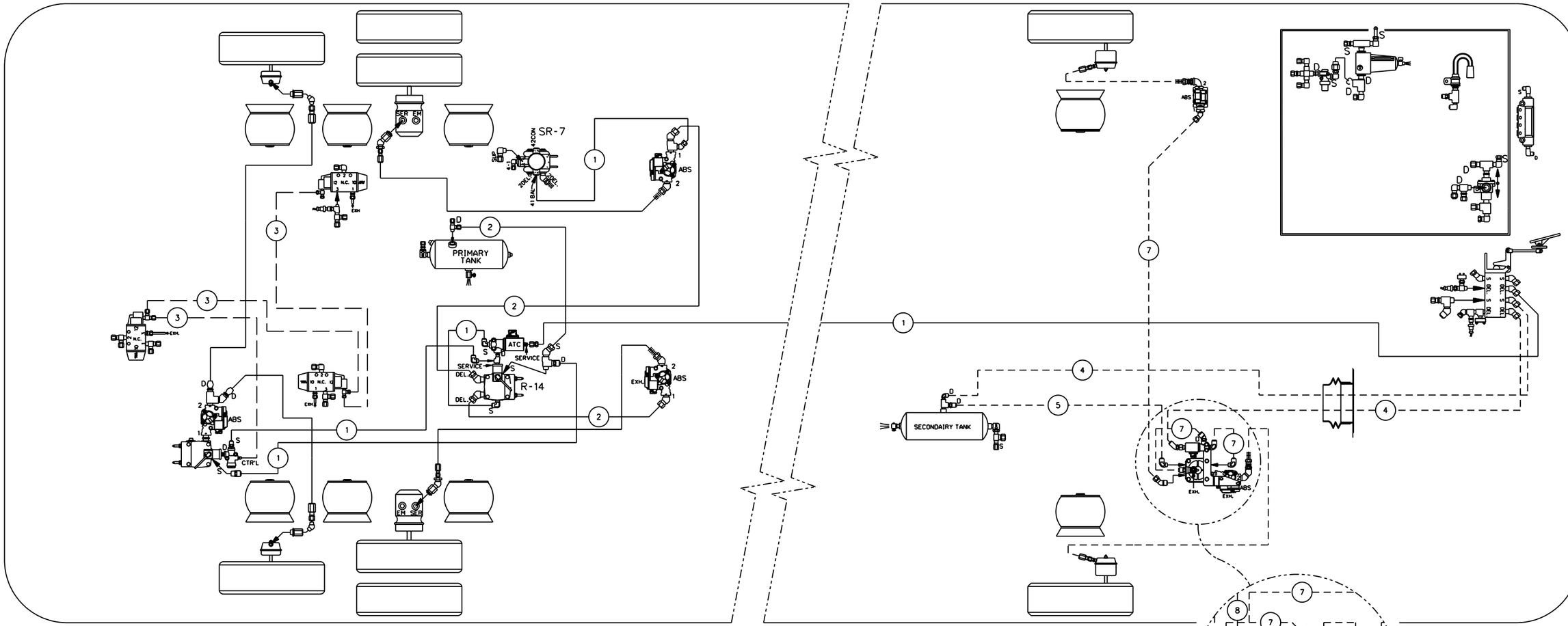
H3-41 & H3-45 COACHES,WITH FRONT BEAM AXLE
WITH OPTION ZF TRANSMISSION

EFF. W/ VEH : *8-1045...

DATE: 2007/05

REV.: A

PAGE: D140354 P7.1



TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
———	GREEN	PRIMARY & SUPPLY
— —	BLACK	ACCESSORIES
- - - -	RED	SECONDARY

BALLOON	PIPE
*1	3/8" O.D. GREEN
*2	5/8" O.D. GREEN
*3	1/4" O.D. BLACK
*4	1/2" O.D. BLACK
*5	5/8" O.D. BLACK

PREVOST®

DESCRIPTION:

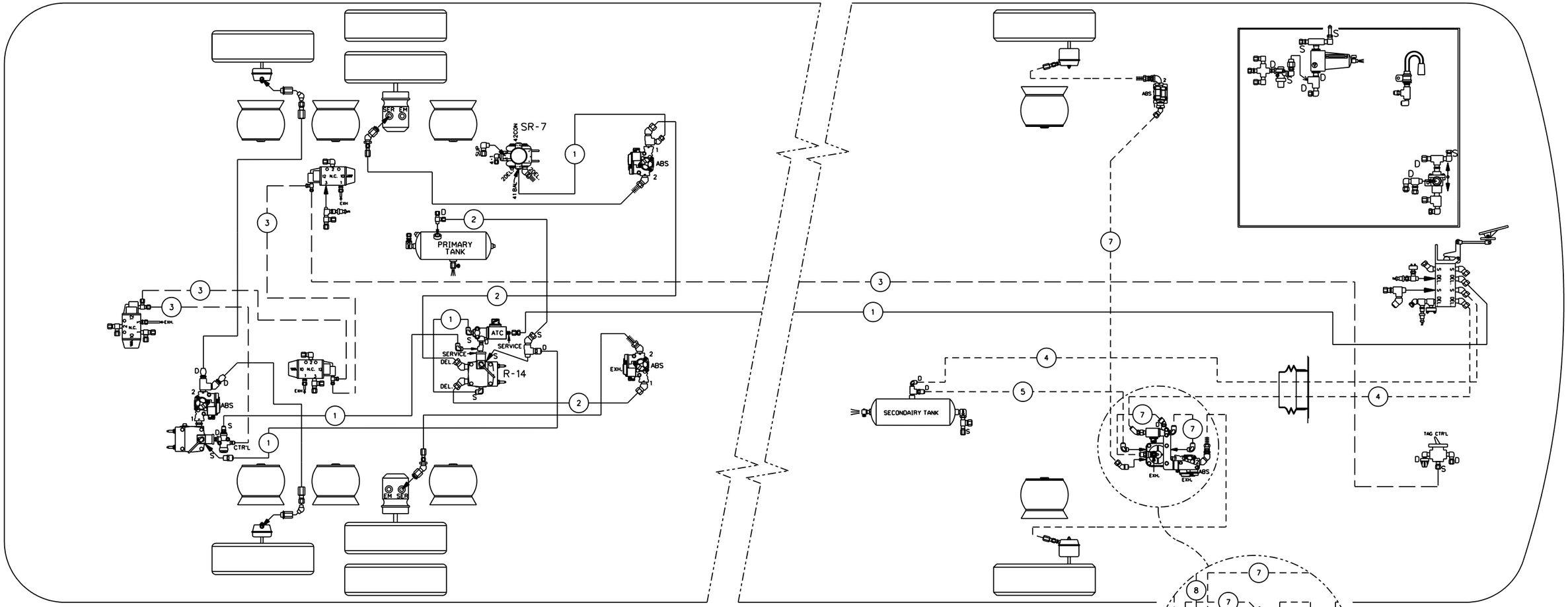
H3-41 & H3-45 COACHES, WITH FRONT BEAM AXLE
WITH ABS 6, ADVANCED OPTION

EFF. W/ VEH : TO FOLLOW

DATE: 2007/05

REV.: A

PAGE: D140354 P8.1



BALLOON	PIPE
*1	3/8" O.D. GREEN
*2	5/8" O.D. GREEN
*3	1/4" O.D. BLACK
*4	1/2" O.D. BLACK
*5	5/8" O.D. BLACK

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
———	GREEN	PRIMARY & SUPPLY
— —	BLACK	ACCESSORIES
- - - -	RED	SECONDARY

PREVOST®

DESCRIPTION:

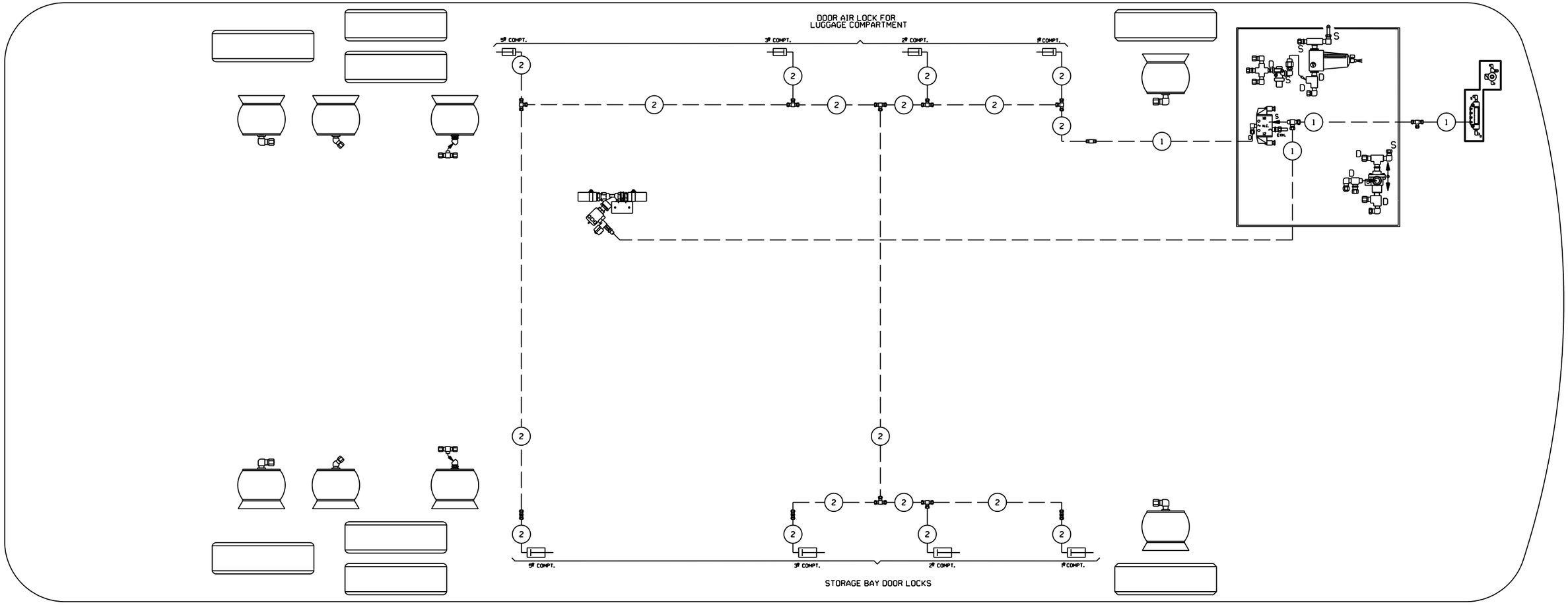
H3-41 & H3-45 COACHES,WITH FRONT BEAM AXLE WITH ESP OPTION

EFF. W/ VEH : #8-1221...

DATE: 2009/05

REV.: C

PAGE: D140354 P8.1



BALLOON	PIPE
#1	1/4'' O.D. BLACK
#2	6mm O.D. BLACK

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
—— ——	BLACK	ACCESSORIES

PREVOST®

DESCRIPTION:

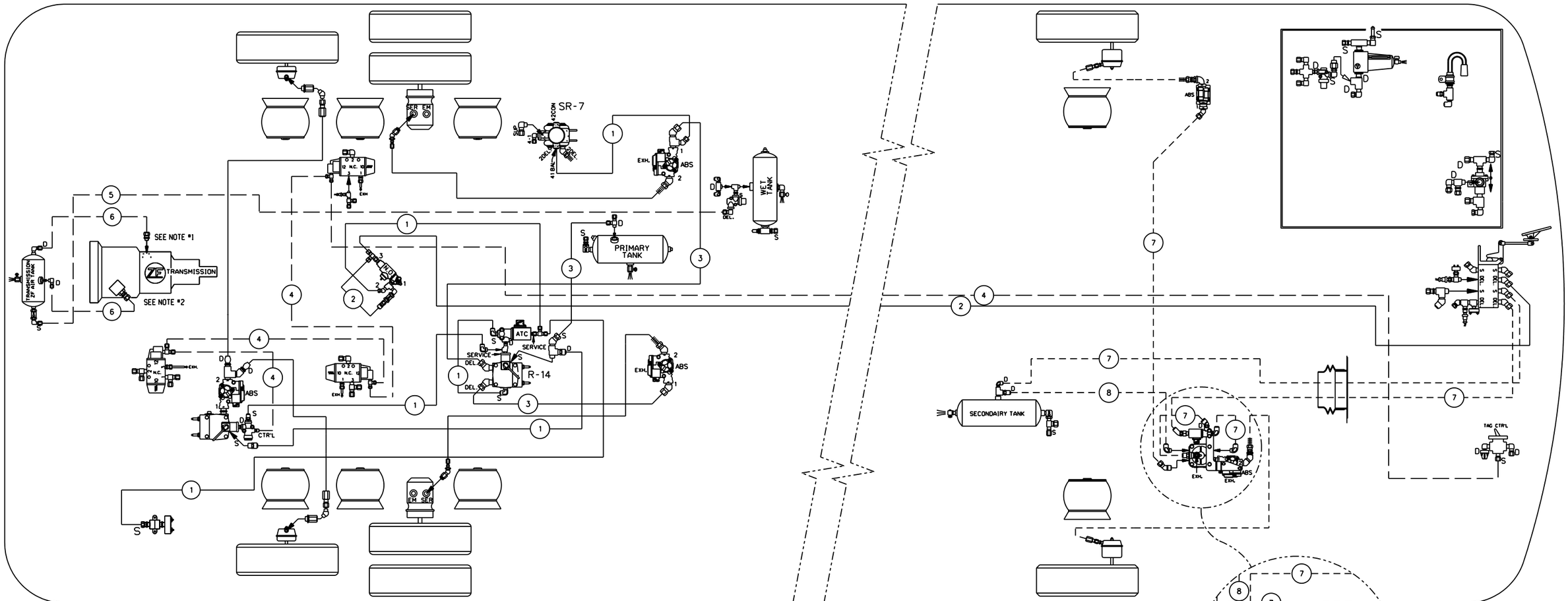
H3-41 & H3-45 COACHES,
WITH FRONT BEAM AXLE
WITH PNEUMATIC STORAGE BAY DOOR LOCKS

EFF. W/ VEH : #8-1045...

DATE: 2007/06

REV.: A

PAGE: D140354 P9.1



BALLOON	PIPE
*1	3/8" O.D. GREEN
*2	1/2" O.D. GREEN
*3	5/8" O.D. GREEN
*4	1/4" O.D. BLACK
*5	3/8" O.D. BLACK
*6	5/8" O.D. BLACK
*7	1/2" O.D. RED
*8	5/8" O.D. RED

TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
———	GREEN	PRIMARY & SUPPLY
— — —	BLACK	ACCESSORIES
– – – –	RED	SECONDARY

NOTE *1: COMPRESSED AIR LINE FOR CLUTCH ACTUATOR

*2: COMPRESSED AIR LINE FOR TRANSMISSION ACTUATOR

PREVOST®

DESCRIPTION:

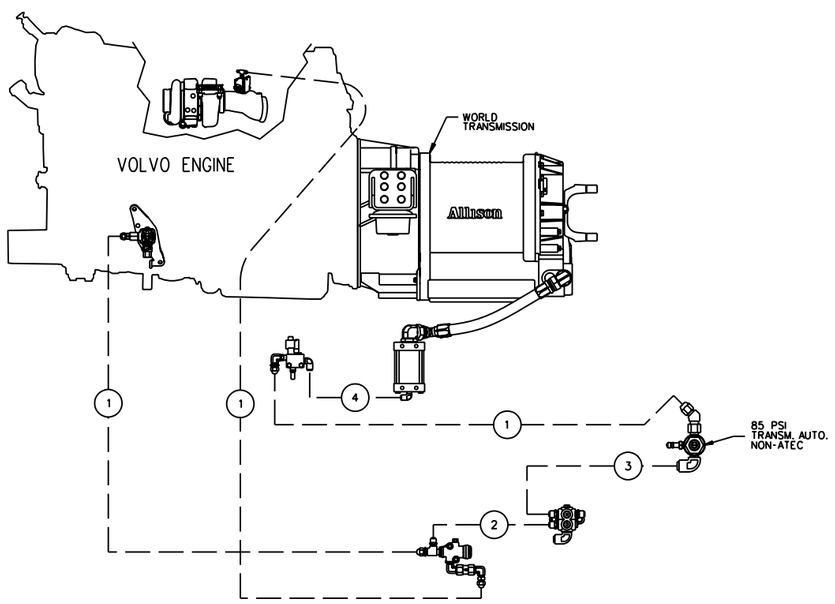
H3-41 & H3-45 COACHES, WITH FRONT BEAM AXLE
WITH ZF TRANSMISSION & ESP BRAKE SYSTEM OPTIONS

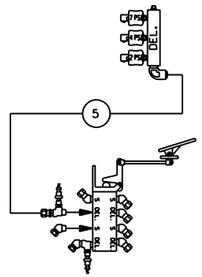
EFF. W/ VEH : #8-1045...

DATE: 2009/05

REV.: C

PAGE: D140354 P10.1





TUBE COLOR CODING		
ACTIVE	COLOR	CIRCUIT
— — ·	BLACK	ACCESSORIES
———	GREEN	PRIMARY & SUPPLY

BALLOON	PIPE
*1	HOSE ASS'Y
*2	1/4" O.D. BLACK
*3	3/8" O.D. BLACK
*4	1/2" O.D. BLACK
*5	3/8" O.D. GREEN

PREVOST®

DESCRIPTION: H3-41 & H3-45 COACHES,MD13 VOLVO ENGINE WITH FRONT BEAM AXLE & OUTPUT RETARDER ON WORLD TRANSMISSION

EFF. W/ VEH : #8-1202...

DATE: 2008/06

REV.: A

PAGE: D140354 P12.1