



TRAILER BRAKE KITS

AIR BRAKE CORPORATION OF AUSTRALIA



FS 604559

www.airbrakecorp.com.au

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mobile account manager
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TUBE FITTINGS



PACIFIC

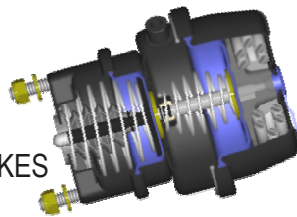
AIR VALVES and NYLON TUBING



AIR VALVES



SPRINGBRAKES



VALVES & ELECTRONICS



AIR BRAKE CORPORATION is a wholly Australian owned business specializing in air brake and related equipment for the road transport industry. As authorized distributors for several leading international component manufacturers, our extensive range of quality products includes world renowned names like...

- ALKON push to connect nylon tube fittings
- HOOSIER air tanks, including HLEW all aluminium model
- PACIFIC air brake valves, nylon tubing, and related products
- SEALCO air brake valves and related products
- TSE service and spring brake actuators
- WABCO air brake valves and electronic controls (ABS, eBS, eTASC, RSS, etc)

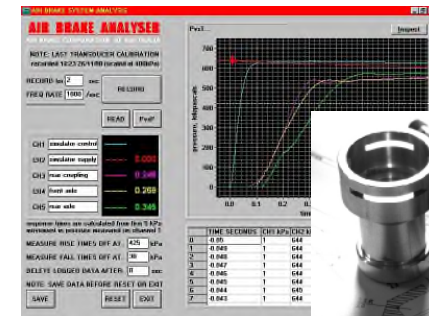
Headquartered in the northern Sydney suburb of Hornsby, AIR BRAKE CORPORATION also maintains branch offices and fully stocked warehouses in Perth and Melbourne, and sales representatives in Sydney, Brisbane, Melbourne, and Perth, enabling nationwide distribution and support. Our dedicated staff boasts over 300 years of combined air brake industry experience and product knowledge for industry leading expertise.

From its beginnings in 1987, AIR BRAKE CORPORATION has grown to become Australia's foremost supplier of ADR38 engineered braking systems and components to Australia's OE trailer manufacturers. Using our in-house design, engineering, and ADR testing capabilities, we have developed the most comprehensive range of ADR38 approved trailer brake kits available, covering standard pneumatic load proportioning systems, antilock (ABS), and the latest multivolt 'brake by wire' electronic systems (TEBS). The latter includes advanced features like antilock and roll stability, and numerous options like speed dependant suspension control, reverse sensing, and our exclusive new telematics package.

QUALITY is an integral part of our business philosophy. Quality certified by NATA since 1999, with the latest ISO9001:2015 certification by BSI since 2018, AIR BRAKE CORPORATION is justly proud of our quality record. Our extensive in-house design, engineering, testing, and inspection activities complement the product quality provided by our select range of renowned suppliers, ensuring the highest customer satisfaction.

This catalogue is one of several showcasing specific product groups from our extensive range, all of which can be compiled into a single binder volume for easy, convenient reference. For the most accurate, up to date information, PDF versions are also available at www.airbrakecorp.com.au/downloads.html.

JANUARY 2020. Copyright Property of AIR BRAKE CORPORATION OF AUSTRALIA. Unauthorised reproduction in whole or part without our express written permission is strictly prohibited. Information and diagrams are provided for guidance only. Brake system design varies across different vehicle makes and models, and installed components should be identified by part number before attempting any repair or replacement.





TEBS* ...

WABCO TEBS TRAILER BRAKE KITS c/w RSS

KIT P/N	SARN	DESCRIPTION	PG
EBSE01B	47241	1 AXLE SEMI TAG	04
EBSE01A	47240	1 AXLE SEMI B/D-R/T LEAD	05
EBSE02B	30001	2 AXLE SEMI TAG	06
EBSE02BE	44377	2 AXLE SEMI EXTENDIBLE	07
EBSE02A	30800	2 AXLE SEMI B/D-R/T LEAD	08
EBSE02AE	NONE ¹	2 AXLE SEMI EXTENDIBLE	1
EBSE02D	46893	2 AXLE R/T DOLLY	09
EBSE03B	30731	3 AXLE SEMI TAG	10
EBSE03BE	38241	3 AXLE SEMI EXTENDIBLE	11
EBSE03A	30730	3 AXLE SEMI B/D-R/T LEAD	12
EBSE03AE	NONE ¹	3 AXLE SEMI EXTENDIBLE	1
EBSE03D	46894	3 AXLE R/T DOLLY	13
EBSE04B	39472	4 AXLE SEMI TAG	14
EBSE04BE	49004	4 AXLE SEMI EXTENDIBLE	15
EBSE04A	39471	4 AXLE SEMI B/D-R/T LEAD	16
EBSE04AE	NONE ¹	4 AXLE SEMI EXTENDIBLE	
EBSE11B	33748	2 AXLE DOG	18
EBSE12B	31280	3 AXLE DOG	19
EBSE22B	31282	4 AXLE DOG TAG	20
EBSE22A	31281	4 AXLE DOG B/D-R/T LEAD	21
EBSE23B	33822	5 AXLE DOG TAG	22
EBSE23A	33821	5 AXLE DOG B/D-R/T LEAD	23
EBSE33B	38017	6 AXLE DOG TAG	24
EBSE33A	38016	6 AXLE DOG B/D-R/T LEAD	25

¹ Contact ABC for details

All E-TEBS kits are multivolt, and will operate behind towing vehicles with ISO7638 supply voltage from 9 to 30 volts.

EXEMPT* ...

ADR38/05 RSS EXEMPT TRAILER BRAKE KITS

KIT P/N	SARN	DESCRIPTION	PG
ABC01B	29244	1 AXLE SEMI TAG	30
ABC01A	29243	1 AXLE B/D-R/T LEAD	31
LSV01A	47169	1 AXLE SEMI R/T DOLLY	32
ABC02B	29246	2 AXLE SEMI TAG	34
ABC02A	29245	2 AXLE SEMI B/D-R/T LEAD	35
ABC02D	29245	2 AXLE R/T DOLLY	36
LSV02D	46641	2 AXLE R/T DOLLY	37
ABC022A	50565	2 ROW OF 8 B/D-R/T LEAD ²	38
ABK3852	16431	2 AXLE SEMI B/D-R/T LEAD	1
ABC03A	29247	3 AXLE SEMI B/D-R/T LEAD	39
ABC03D	29247	3 AXLE R/T DOLLY	40
LSV03D	46644	3 AXLE R/T DOLLY	41
ABC03W	37175	3 AXLE WIDENER	42
ABC034	42887	3 ROW OF 8 WIDENER ⁴	43
ABC032	49780	3 ROW OF 8 TAG ²	44
ABC032A	49783	3 ROW OF 8 B/D-R/T LEAD ²	45
ABK3851	16430	3 AXLE SEMI B/D-R/T LEAD	1
ABC04A	32716	4 AXLE SEM B/D-R/T LEADI	47
ABC04W	37176	4 AXLE WIDENER	48
ABC044	41171	4 ROW OF 8 WIDENER ⁴	49
ABC042	49781	4 ROW OF 8 TAG ²	50
ABC042A	49784	4 ROW OF 8 B/D-R/T LEAD ²	51

¹ Contact ABC for details

² 2 springbrakes per row (1 per foundation brake pair)

⁴ 4 springbrakes per row (1 per foundation brake)

OTHER ...

OTHER KITS AND MISCELLANEOUS PARTS

DESCRIPTION	PG
SPARE PARTS (VALVES)	55
SPARE PARTS (ACTUATORS, AIR TANKS)	56
SPARE PARTS (TUBE, HOSE, FITTINGS, ETC.)	
(SEE SEPARATE FITTINGS CATALOGUE)	

* ADR38/05 requires a 'Vehicle Stability Function' on most new trailers from **November 1st 2019**. This means TEBS with RSS (Roll Stability System) for most new trailers being built now (see page 27 for exemptions). NSW EPA now also requires retrofitting of **roll stability** on **all existing** dangerous goods tankers operating in or transiting through NSW.

Legal regulations aside, TEBS with RSS is the safest, most advanced braking technology available today, and provides the necessary underlying platform for numerous other safety and productivity value add options like 'TailGUARD' reverse sensing, 'eTASC' electronic suspension control, operational data logging, and real time telematics monitoring.

TEBS / RSS

TRAILER BRAKE KITS

With ANTILOCK, ROLL STABILITY, and electronic LOAD PROPORTIONING functions, TEBS meets ALL current, pending, and proposed ADR regulations. Most new European trucks now come with EBS and disc brakes as standard. TEBS is essential for optimum brake balance with these high tech vehicles, and provides almost all of the same benefits behind North American towing vehicles as well.

Our latest multivolt 'E5'-TEBS kits retain all of the proven benefits of previous D-TEBS...

- ✓ More responsive 'car like' brake feel & shorter stopping distance.
- ✓ Faster brake applications with synchronous truck & trailer braking (no lag or trailer push).
- ✓ Even brake wear & consistent pedal feel at all loads with integral electronic load proportioning.
- ✓ Guaranteed stability via integral ABS with improved efficiency for reduced air consumption.
- ✓ Active rollover protection via integral 'RSS' Roll Stability System.
- ✓ In-dash display of trailer axle weight (via CAN bus to compatible EBS towing vehicles).
- ✓ Sensing & in-dash warning of low trailer air pressure.
- ✓ Comprehensive PC programming & diagnosis.
- ✓ Sensing & in-dash warning of disc pad wear limits (with optional wiring harness)

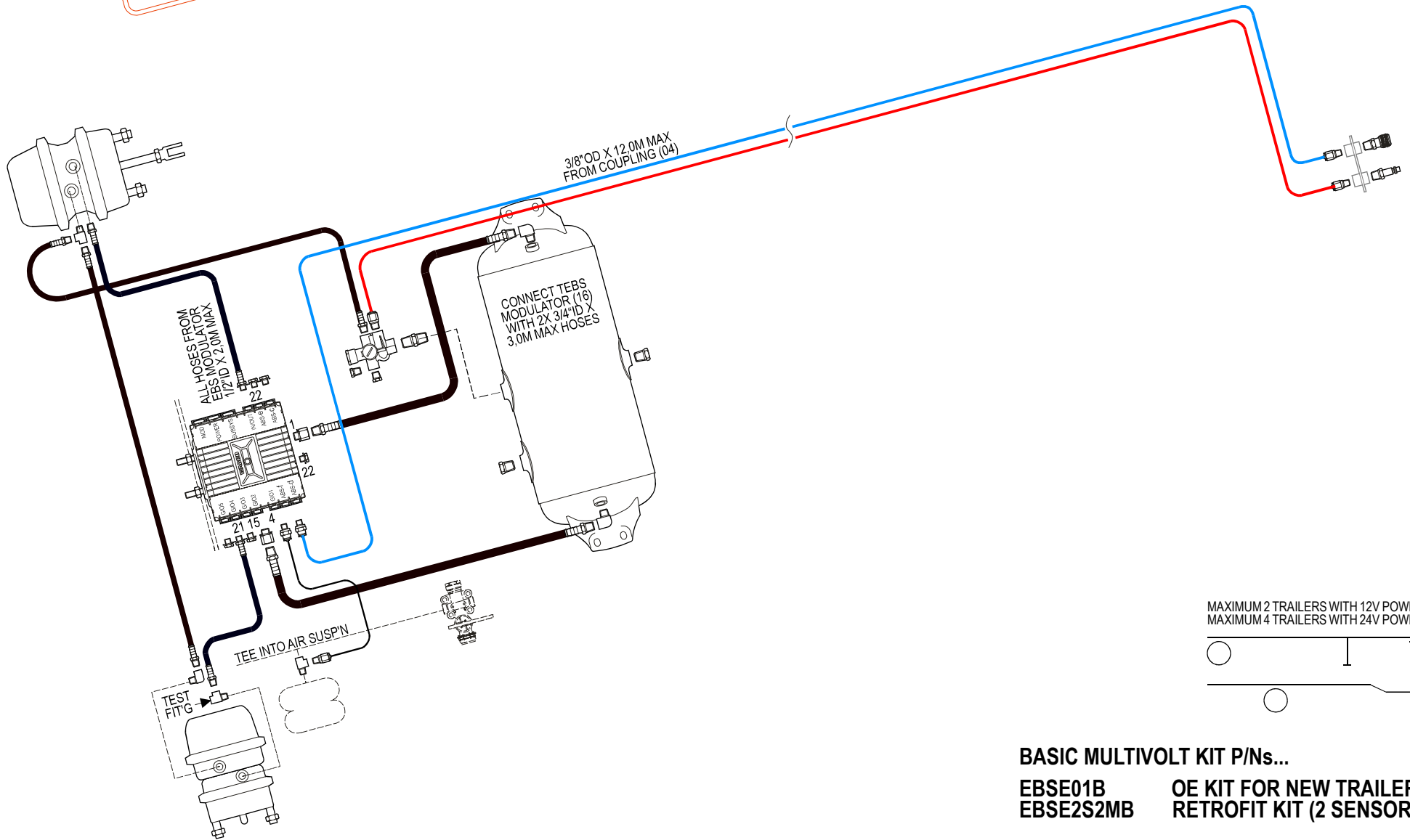
...and adds a host of new features and functions for even greater performance, safety, and productivity...

- ✓ Native multivolt capability will operate with towing vehicle power supplies from 9 to 30 volts.
- ✓ Multivolt connector available to enable connection of any ABS/EBS towing vehicle, 12V or 24V.
- ✓ Downward facing connector arrangement with enhanced seals for improved moisture protection.
- ✓ Reduced power consumption for more reliable multi-trailer operation with more trailers.
- ✓ CANrouter in all lead kits relays electronic brake signal to all trailers in combination for faster braking behind any ABS or EBS truck.
- ✓ All trailers braked when any trailer is in RSS mode for improved roll stability on roadtrains.
- ✓ Load proportioning can now be disabled behind non-EBS towing vehicles for improved compatibility.
- ✓ Simplified load sensing for mechanical suspensions.
- ✓ Expanded data logging functions with increased trip memory records distance, speed, axle load, brake pressures, ABS & RSS events, & various other operating parameters for comprehensive fleet management analysis.
- ✓ Optional 'SmartBoard' displays all trailer axle group loads separately in tonnes (replaces on board scales).
- ✓ Optional 'SmartBoard' (with battery) provides odometer function even when E-TEBS is unplugged (replaces hubometer).
- ✓ Optional 'TailGUARD' reversing sensor kits warn of obstacles & apply brakes automatically.
- ✓ Optional 'LACV' kits automatically control lift axle/s with manual override via optional 'SmartBoard'.
- ✓ Optional 'eTASC' Electronic Air Suspension Control provides advanced suspension control, including speed dependant ride height (less drag & improved stability), raise/lower control (via 'SmartBoard' or manual lever if no power) with automatic return to ride.
- ✓ Optional 'OptiTurn' manoeuvre assistance automatically reduces tyre scrubbing & cut-in during low speed cornering.
- ✓ Multiple programmable GIO (general input/output) ports for customised functions like...
 - Activation of stoplight and/or tag trailer brakes when roll stability intervention is active.
 - Speed dependant switching functions (EG: self-steer axle lock over certain speed).
 - Programmable warning functions (EG: rear door/tailgate open, suspension dumped, etc)...
 - Tilt-Alert' can be wired to activate warning light and/or buzzer if tipping at dangerous angle.



1 AXLE SEMI TEBS + RSS

38/05 SARN
47241



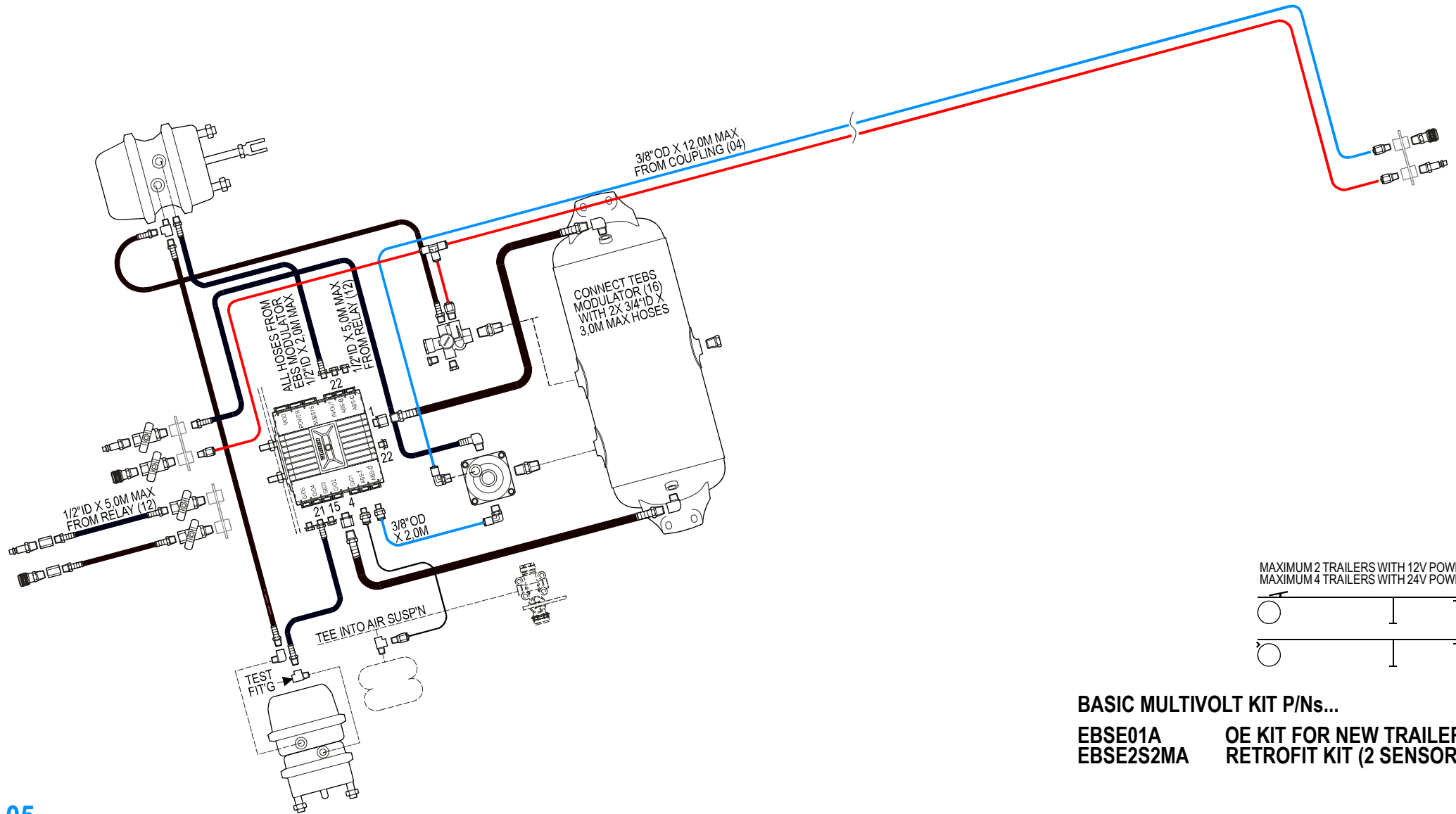
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**EBSE01B
EBSE2S2MB**

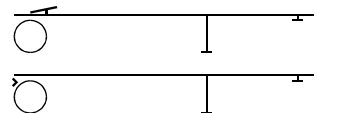
**OE KIT FOR NEW TRAILERS
RETROFIT KIT (2 SENSORS)**

1 AXLE SEMI B/D-R/T TEBS + RSS

38/05 SARN
47240



MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



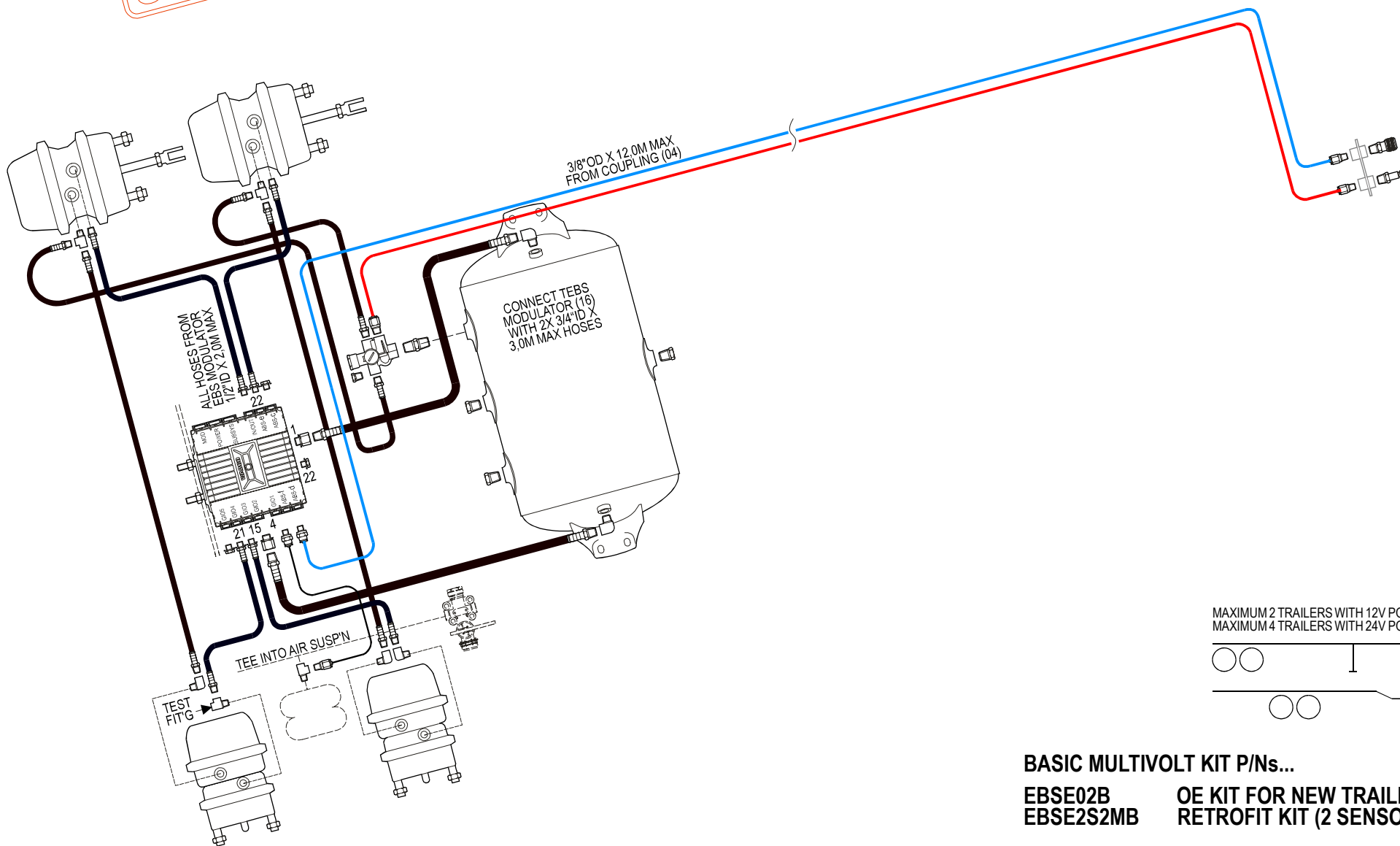
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EBSE01A
EBSE2S2MA

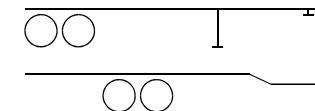
OE KIT FOR NEW TRAILERS
RETROFIT KIT (2 SENSORS)

2 AXLE SEMI TEBS+RSS

38/05 SARN
30801



MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER

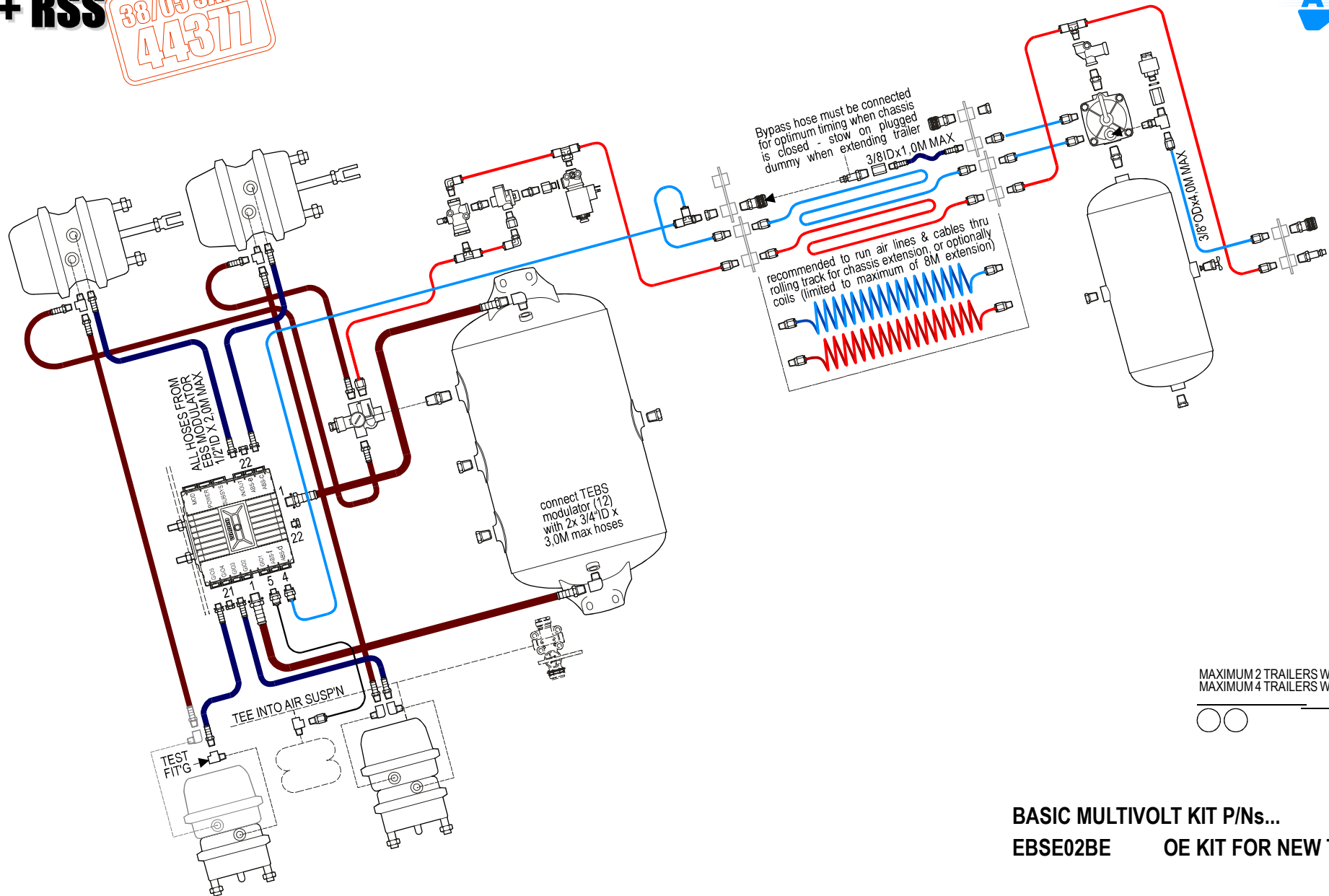


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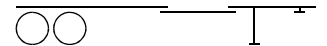
EBSE02B **OE KIT FOR NEW TRAILERS**
EBSE2S2MB **RETROFIT KIT (2 SENSORS)**

2 AXLE EXTENSIBLE TEBS + RSS

38/05 SARN
44371



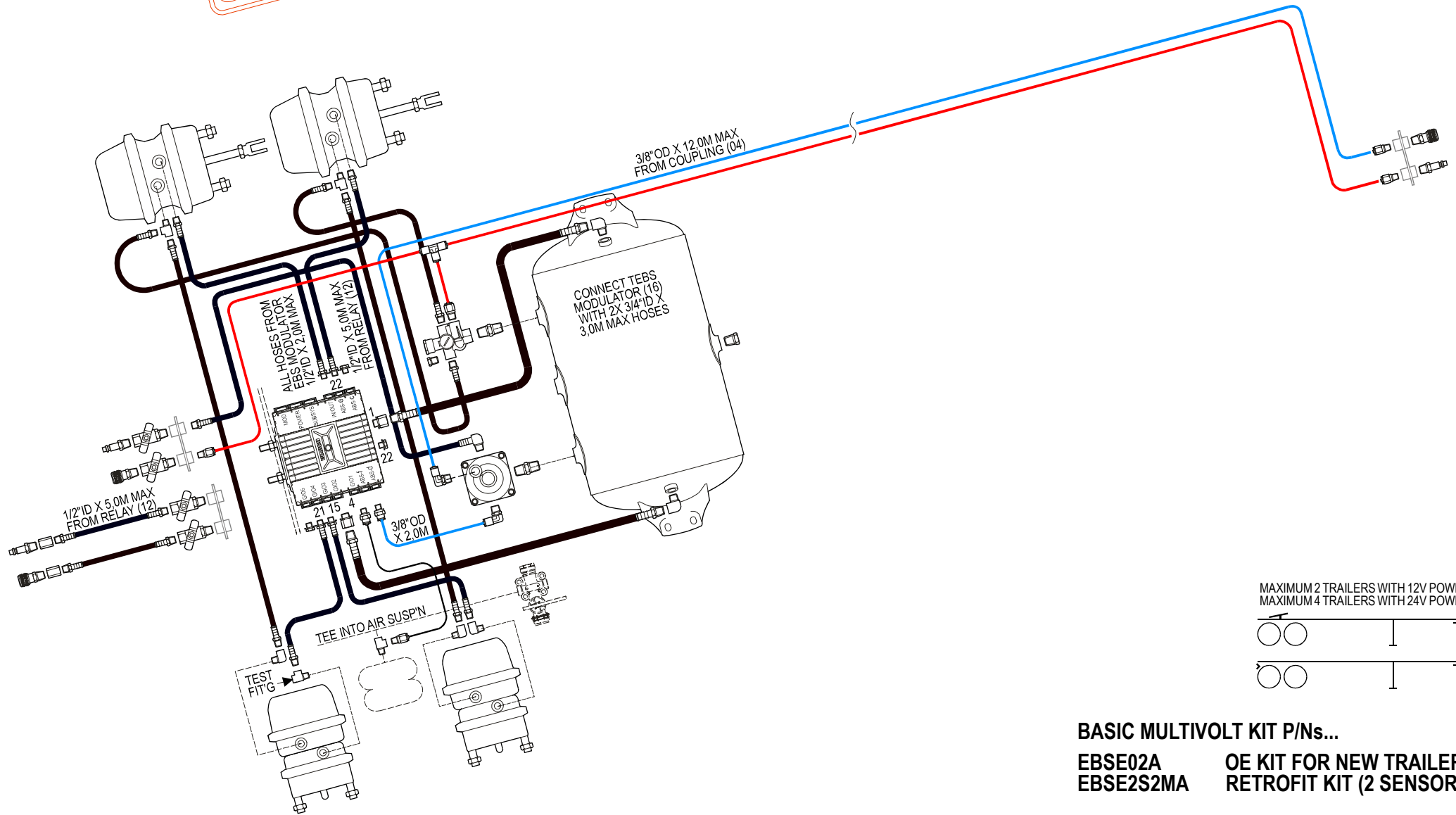
MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



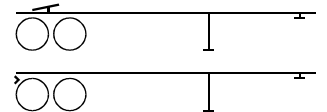
BASIC MULTIVOLT KIT P/Ns...
EBSE02BE OE KIT FOR NEW TRAILERS

2 AXLE SEMI B/D-R/T TEBS+RSS

38/05 SARN
30800



MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



BASIC MULTIVOLT KIT P/Ns...

EBSE02A

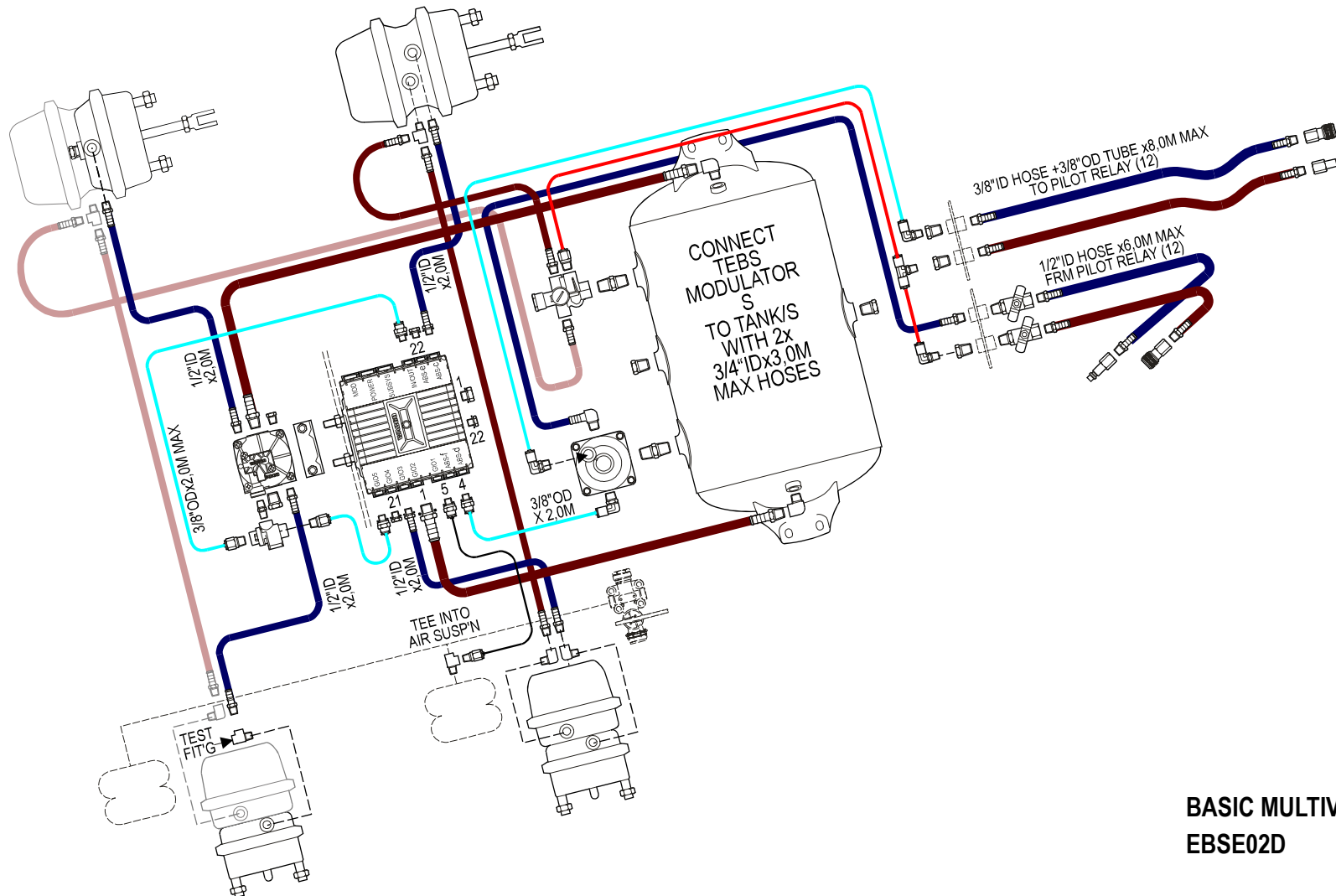
EBSE2S2MA

OE KIT FOR NEW TRAILERS

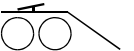
RETROFIT KIT (2 SENSORS)

2 AXLE DOLLY TEBS + RSS

38/05 SARN
46893



MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



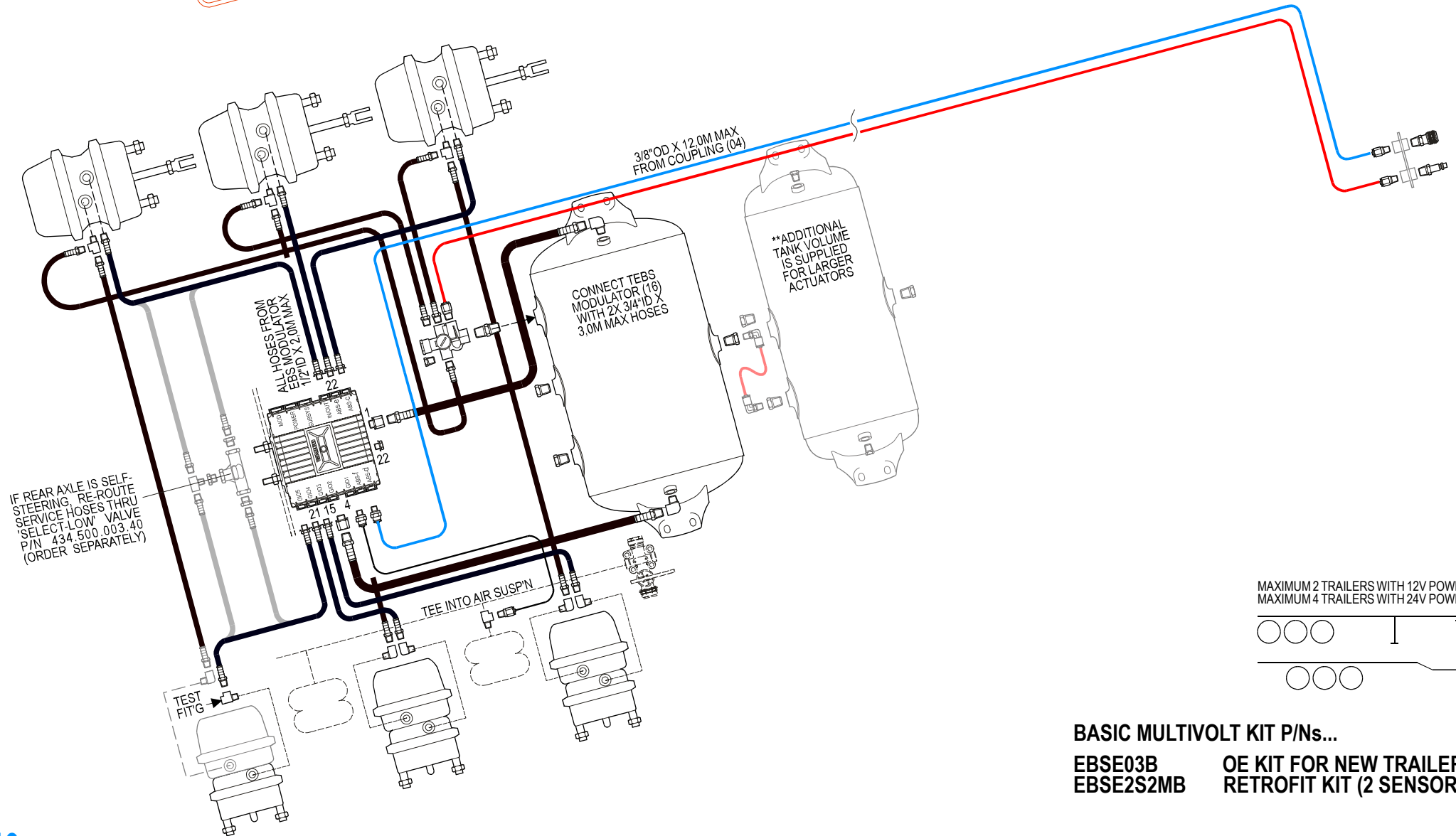
BASIC MULTIVOLT KIT P/Ns...

EBSE02D

OE KIT FOR NEW TRAILERS

3 AXLE SEMI TEBS+RSS

38/05 SARN
30731



BASIC MULTIVOLT KIT P/Ns...

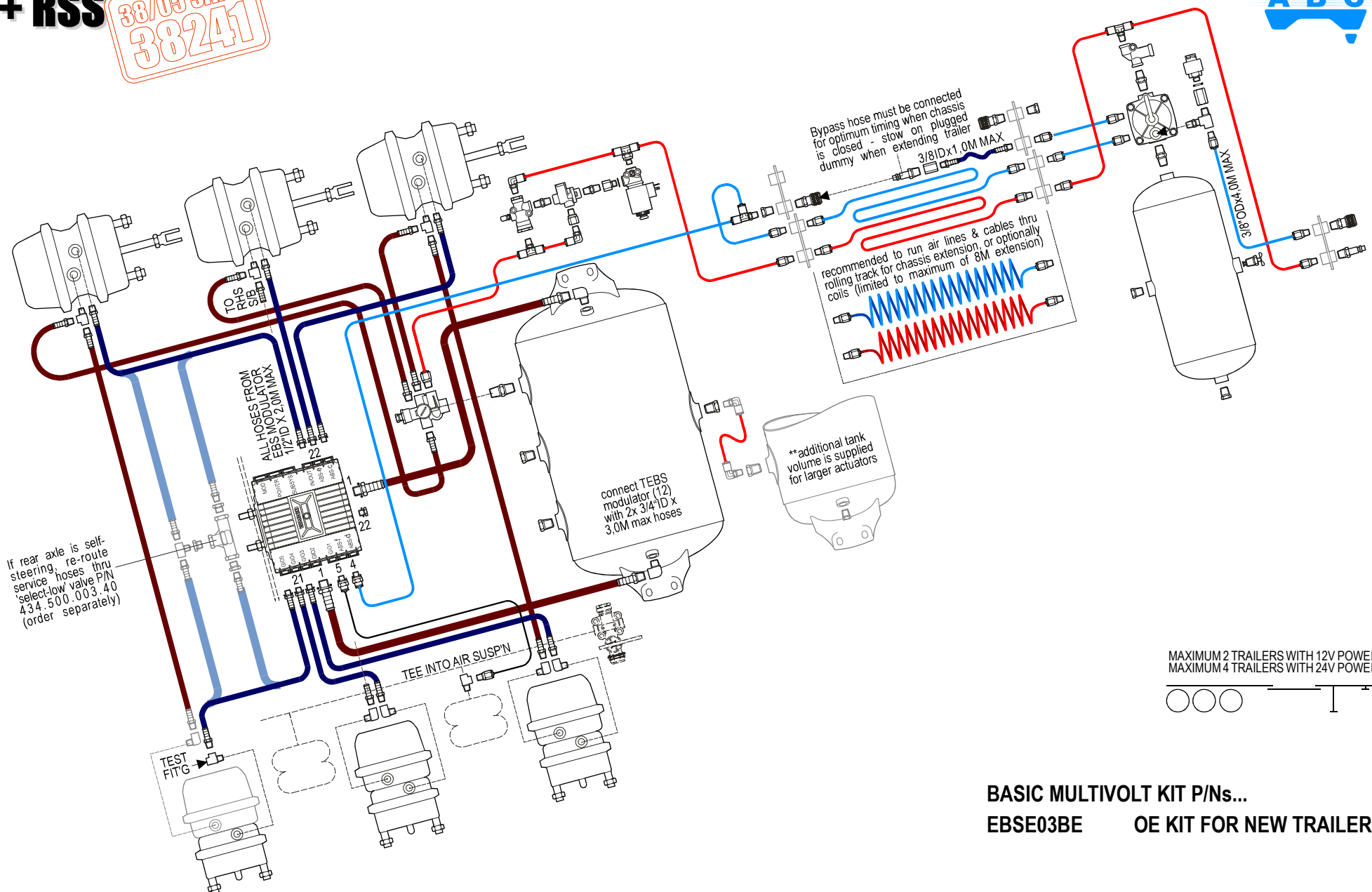
**EBSE03B
EBSE2S2MB**

**OE KIT FOR NEW TRAILERS
RETROFIT KIT (2 SENSORS)**

TEBS must be programmed after installation & prior to use. Contact ABC for details.

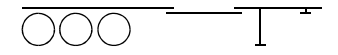
3 AXLE EXTENDIBLE TEBS + RSS

38/05 SARN
38241



If rear axle is self-steering, re-route service hoses thru select-low valve P/N 434.500.003.40 (order separately)

MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER

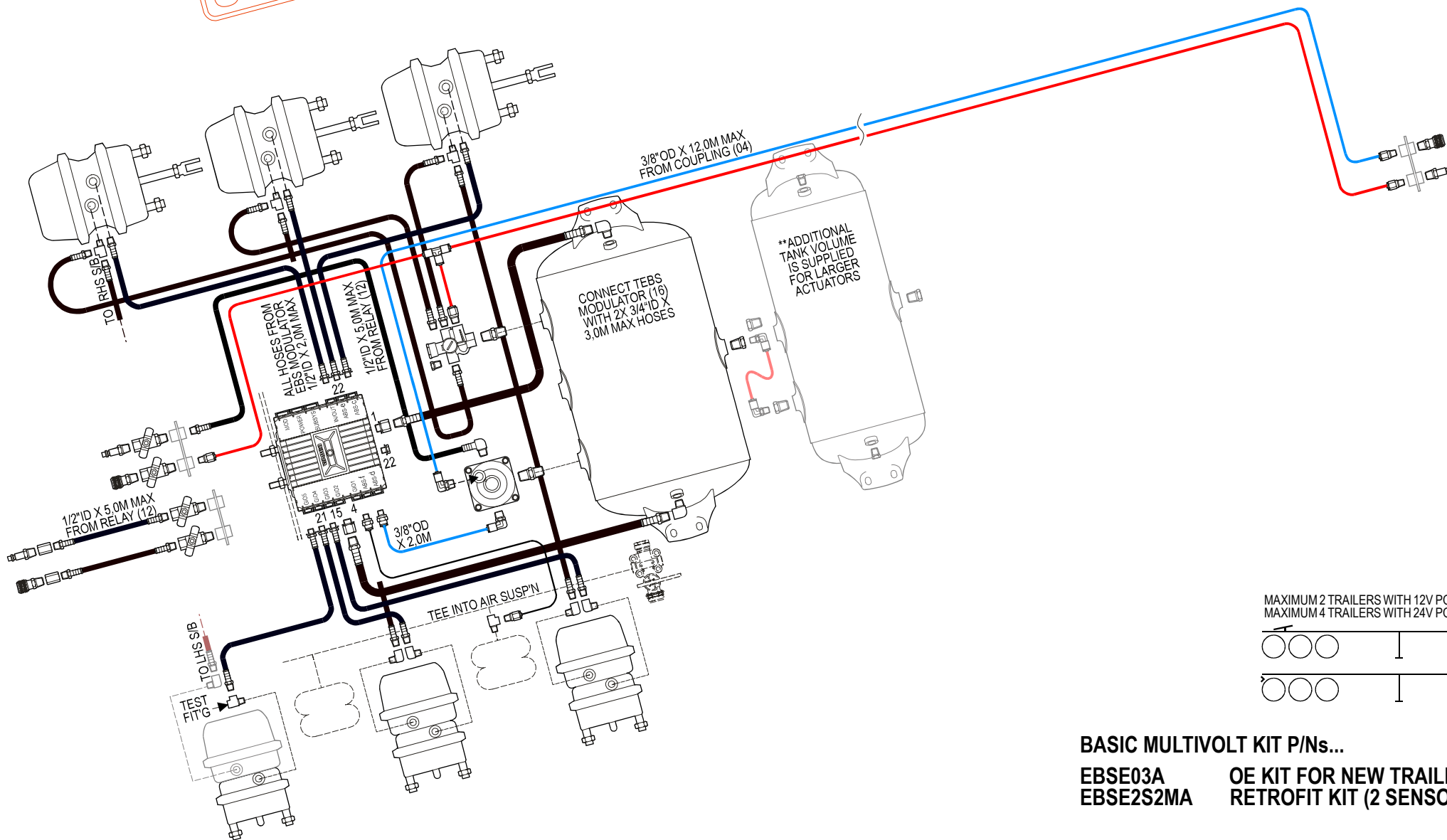


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EBSE03BE OE KIT FOR NEW TRAILERS

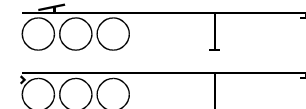
TEBS must be programmed after installation & prior to use. Contact ABC for details.
NOTE this system requires power from towing vehicle for springbrake release.

3 AXLE SEMI B/D-R/T TEBS+RSS

38/05 SARN
30730



MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



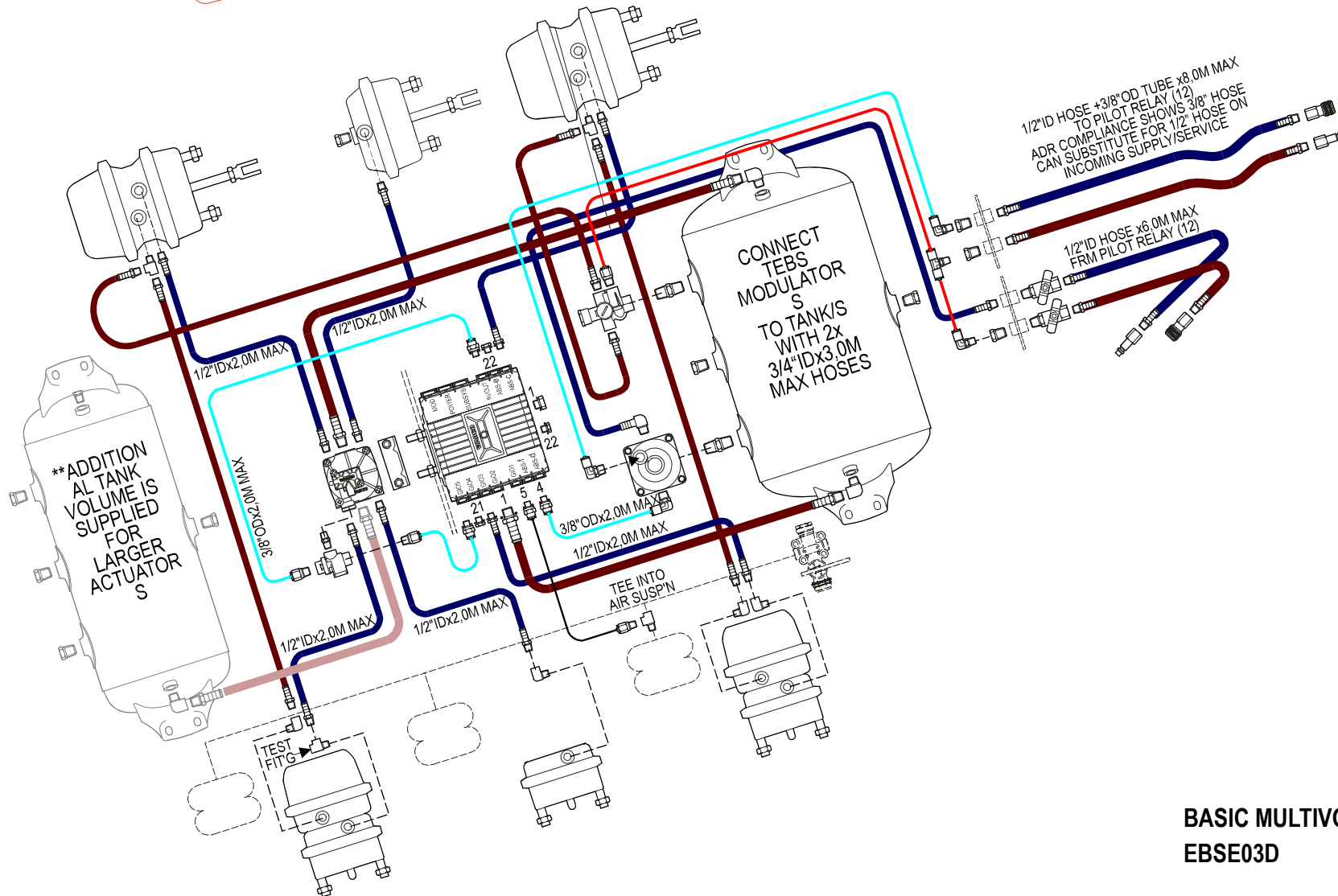
BASIC MULTIVOLT KIT P/Ns...

EBSE03A **OE KIT FOR NEW TRAILERS**
EBSE2S2MA **RETROFIT KIT (2 SENSORS)**

TEBS must be programmed after installation & prior to use. Contact ABC for details.

3 AXLE DOLLY TEBS + RSS

38/05 SARN
46894



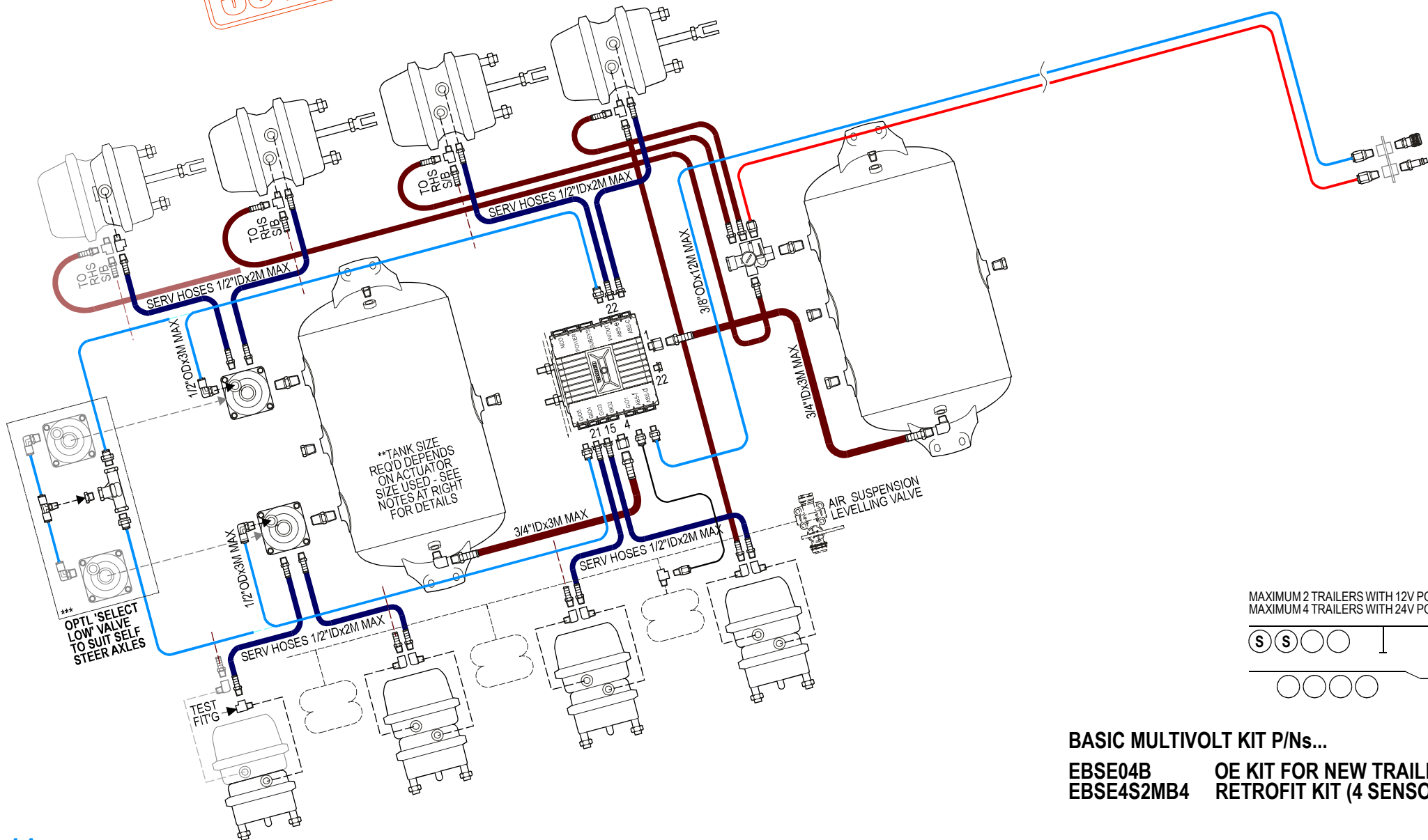
MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



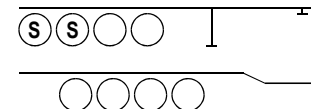
BASIC MULTIVOLT KIT P/Ns...
EBSE03D OE KIT FOR NEW TRAILERS

4 AXLE SEMI TEBS+RSS

38/05 SARN
39472



MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



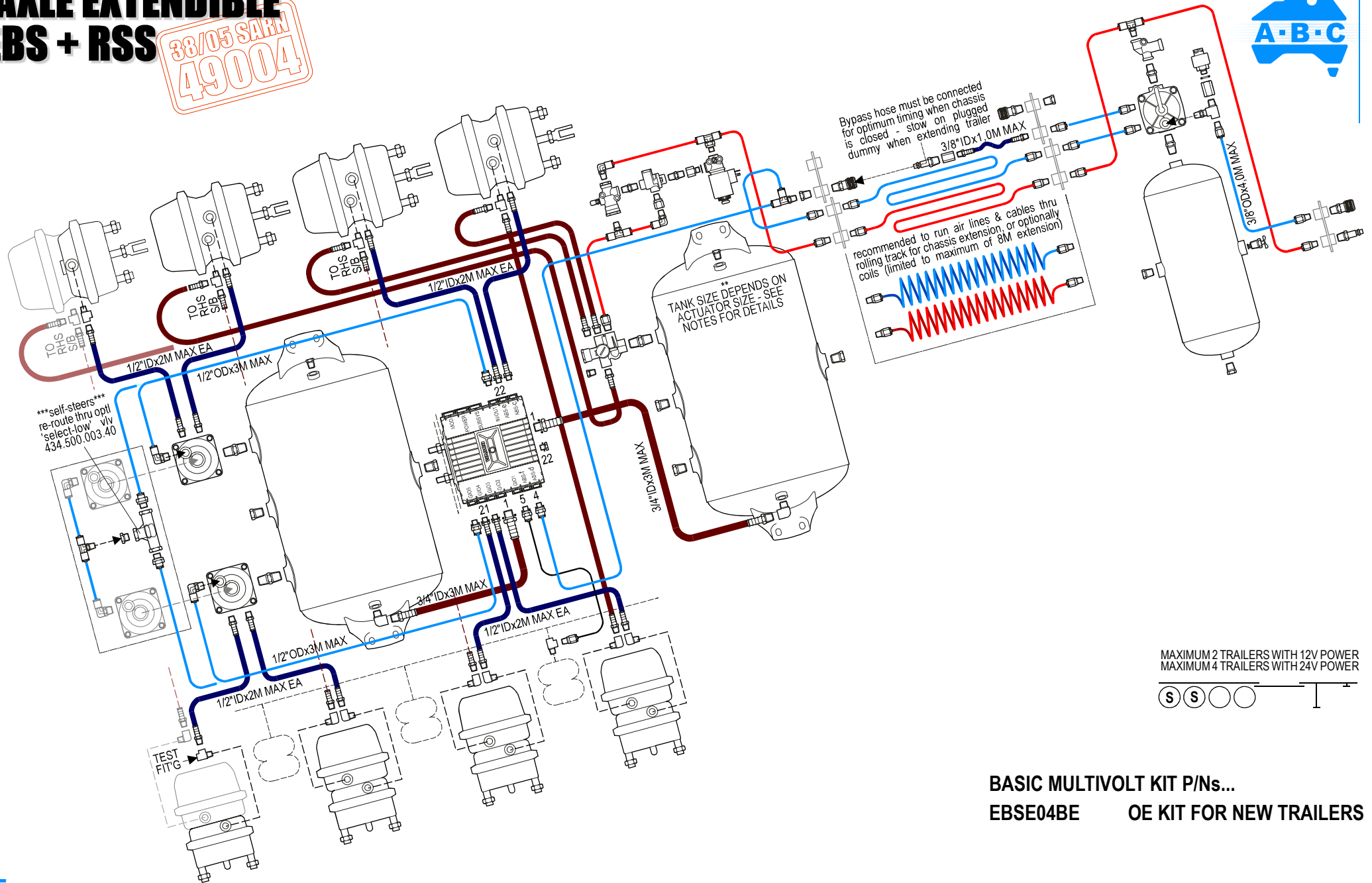
BASIC MULTIVOLT KIT P/Ns...

EBSE04B OE KIT FOR NEW TRAILERS
EBSE4S2MB4 RETROFIT KIT (4 SENSORS)

TEBS must be programmed after installation & prior to use. Contact ABC for details.

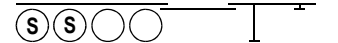
4 AXLE EXTENDIBLE TEBS + RSS

38/05 SARN
49004



self-steers
re-route thru optl
'select-low' via
434.500.003.40

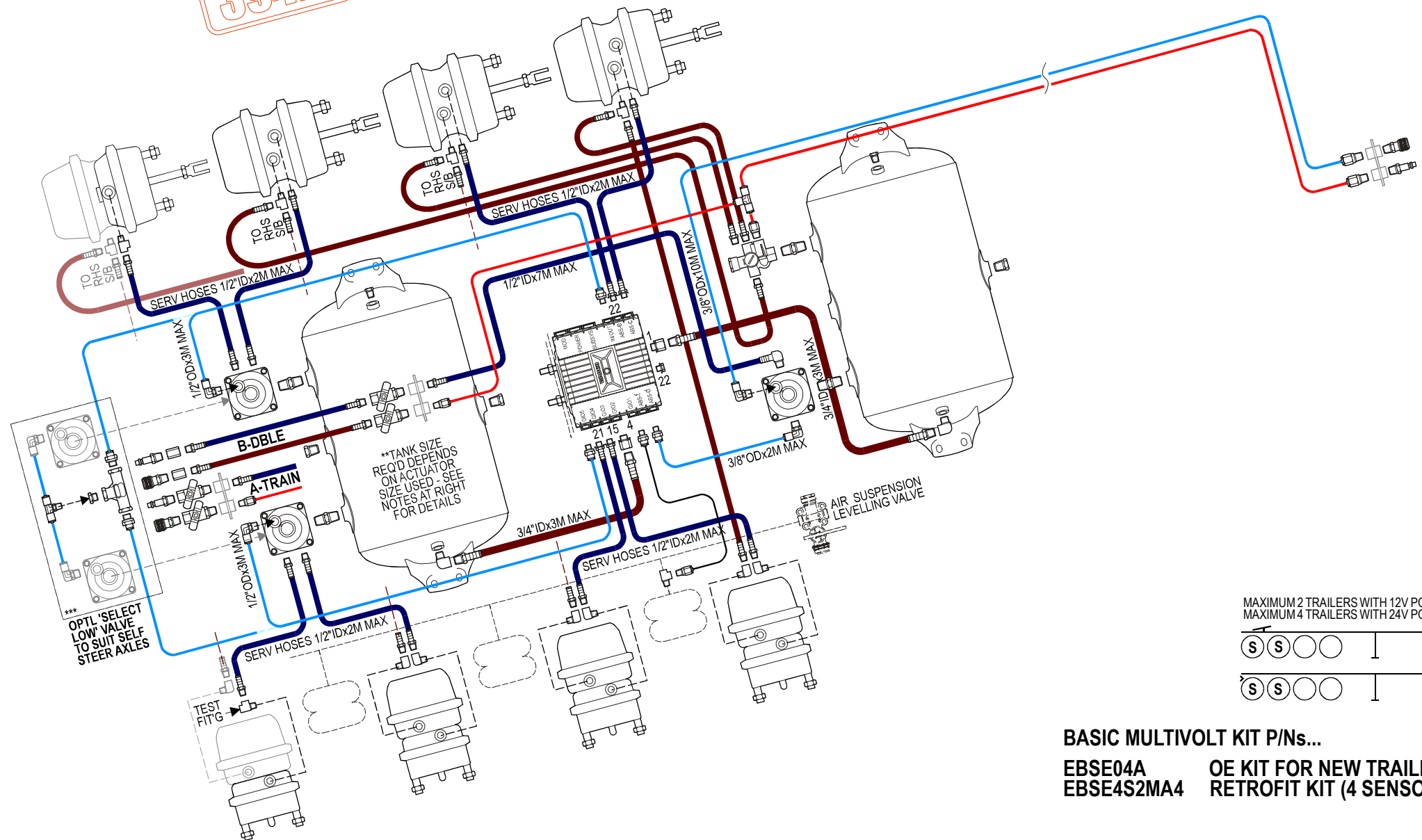
MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



BASIC MULTIVOLT KIT P/Ns...
EBSE04BE OE KIT FOR NEW TRAILERS

4 AXLE SEMI B/D-R/T TEBS+RSS

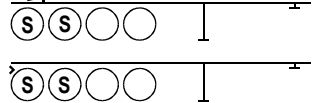
38/05 SARN
39471



*** OPT'L 'SELECT LOW' VALVE TO SUIT SELF STEER AXLES

**TANK SIZE REQ'D DEPENDS ON ACTUATOR SIZE USED - SEE NOTES AT RIGHT FOR DETAILS

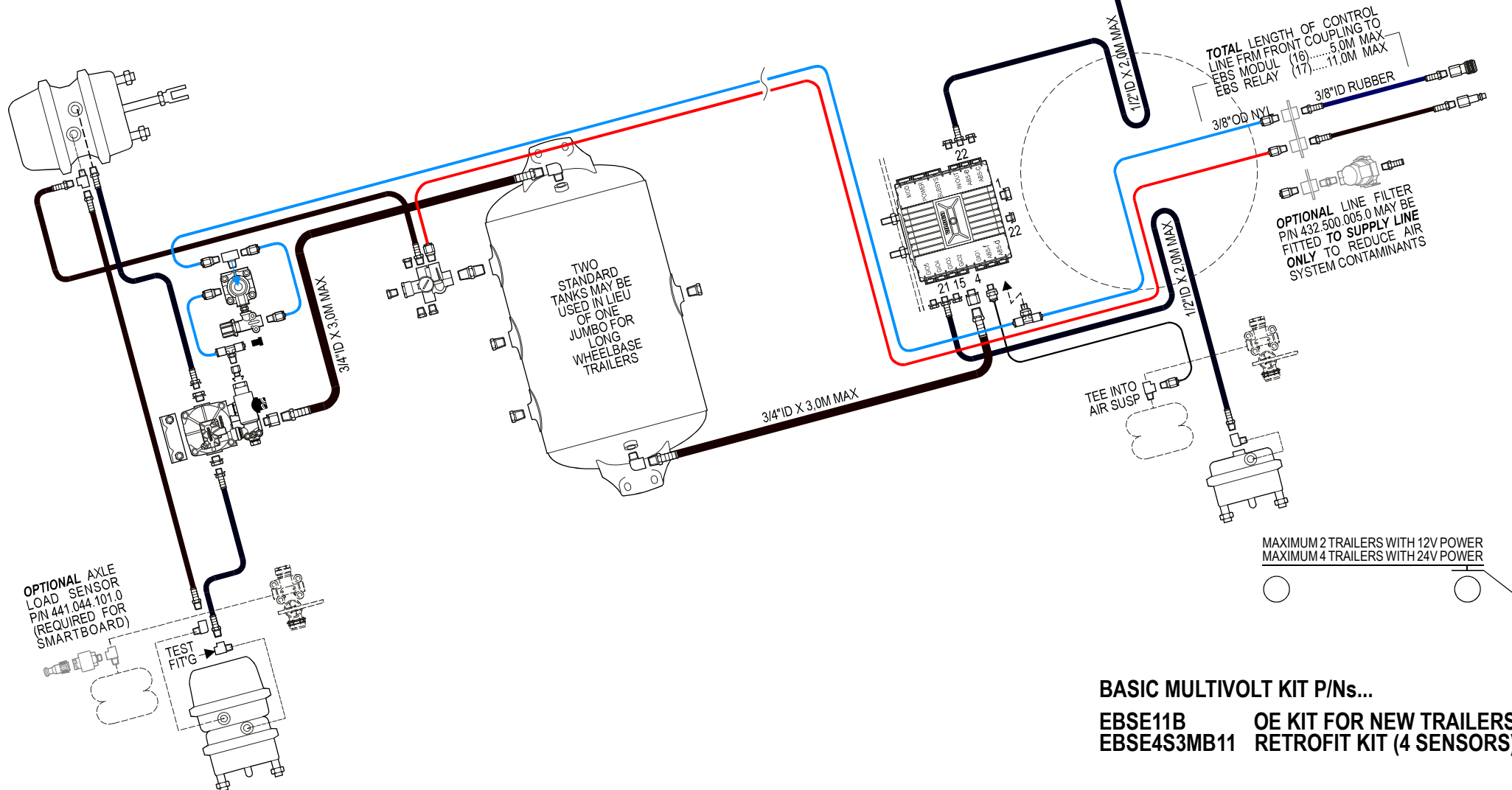
MAXIMUM 2 TRAILERS WITH 12V POWER
MAXIMUM 4 TRAILERS WITH 24V POWER



BASIC MULTIVOLT KIT P/Ns...
EBSE04A OE KIT FOR NEW TRAILERS
EBSE4S2MA4 RETROFIT KIT (4 SENSORS)

2 AXLE DOG TEBS+RSS

38/05 SARN
33748

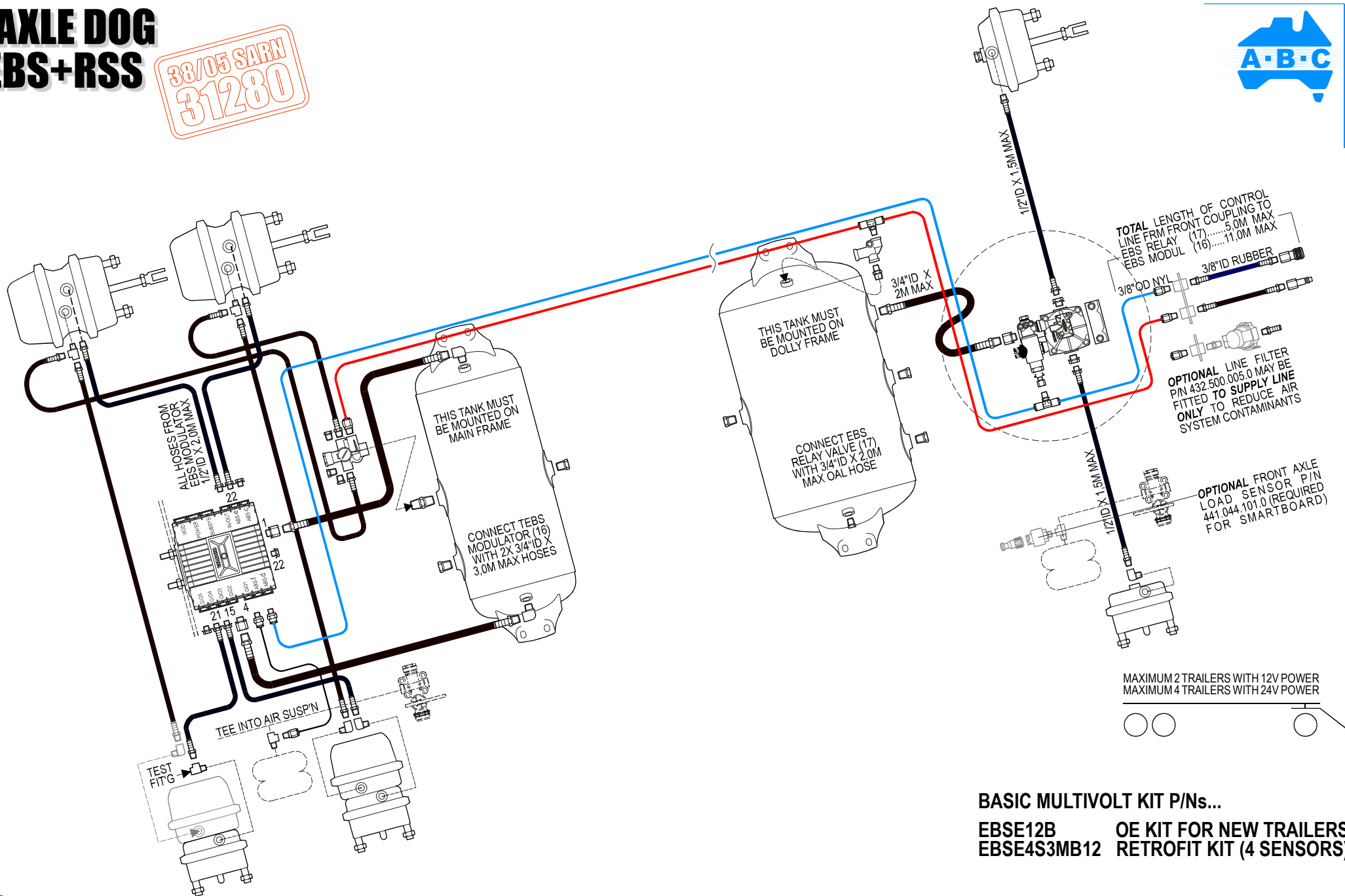


BASIC MULTIVOLT KIT P/Ns...

EBSE11B OE KIT FOR NEW TRAILERS
EBSE4S3MB11 RETROFIT KIT (4 SENSORS)

3 AXLE DOG TEBS+RSS

38/05 SARN
31280



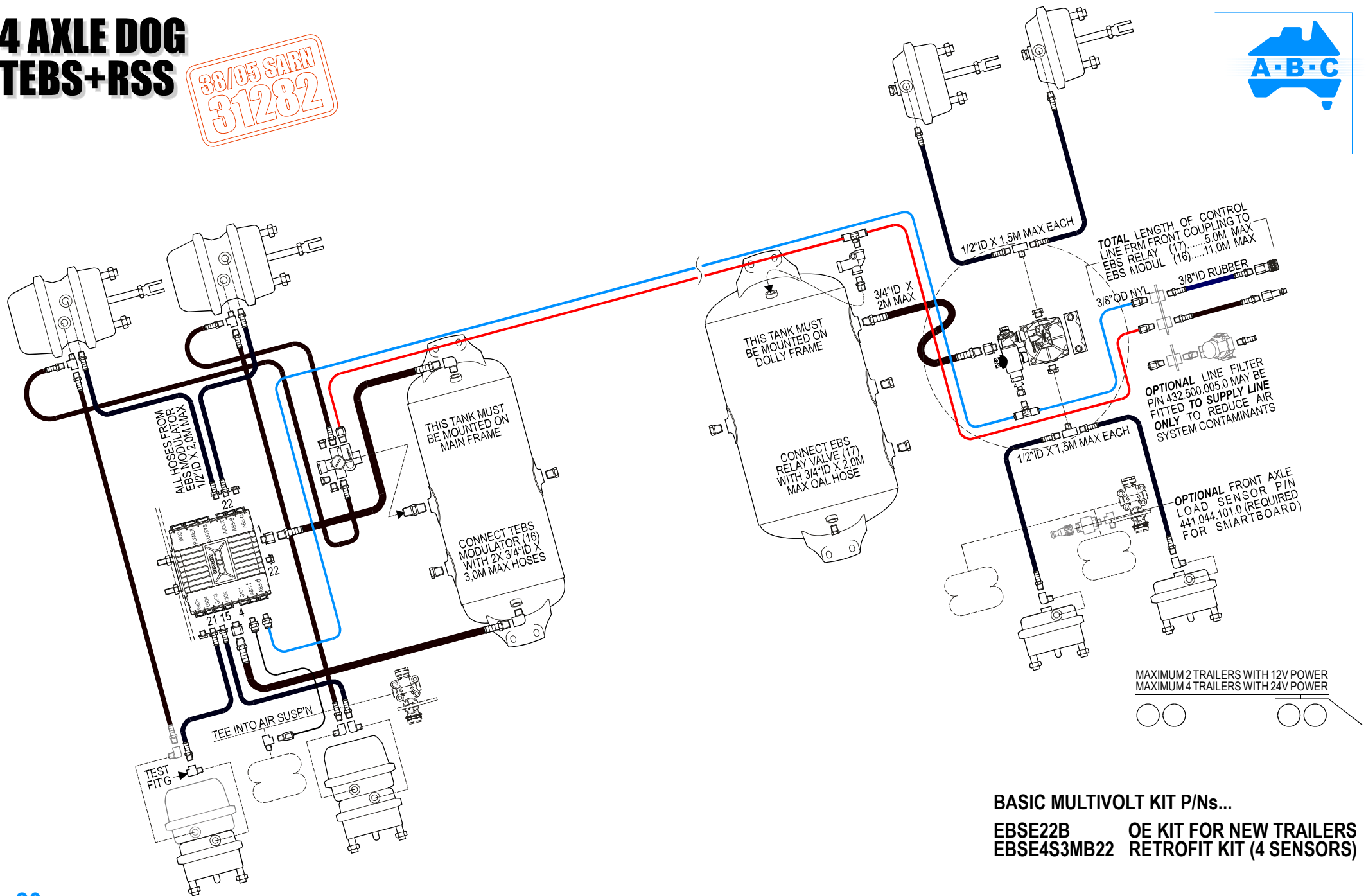
BASIC MULTIVOLT KIT P/Ns...

EBSE12B OE KIT FOR NEW TRAILERS
EBSE4S3MB12 RETROFIT KIT (4 SENSORS)

TEBS must be programmed after installation & prior to use. Contact ABC for details.

4 AXLE DOG TEBS+RSS

38/05 SARN
31282



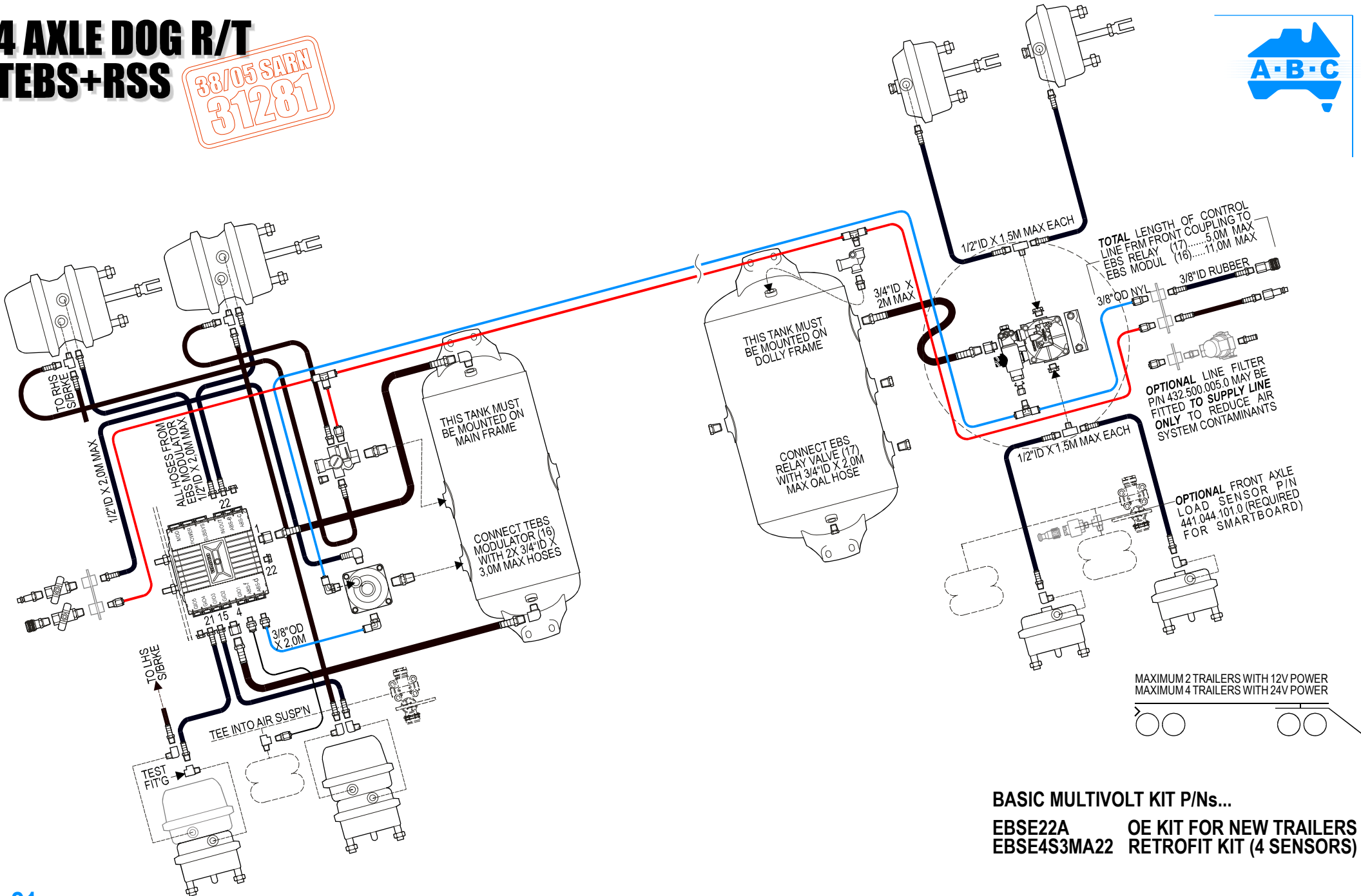
BASIC MULTIVOLT KIT P/Ns...

EBSE22B OE KIT FOR NEW TRAILERS
EBSE4S3MB22 RETROFIT KIT (4 SENSORS)

TEBS must be programmed after installation & prior to use. Contact ABC for details.

4 AXLE DOG R/T TEBS+RSS

38/05 SARN
31281

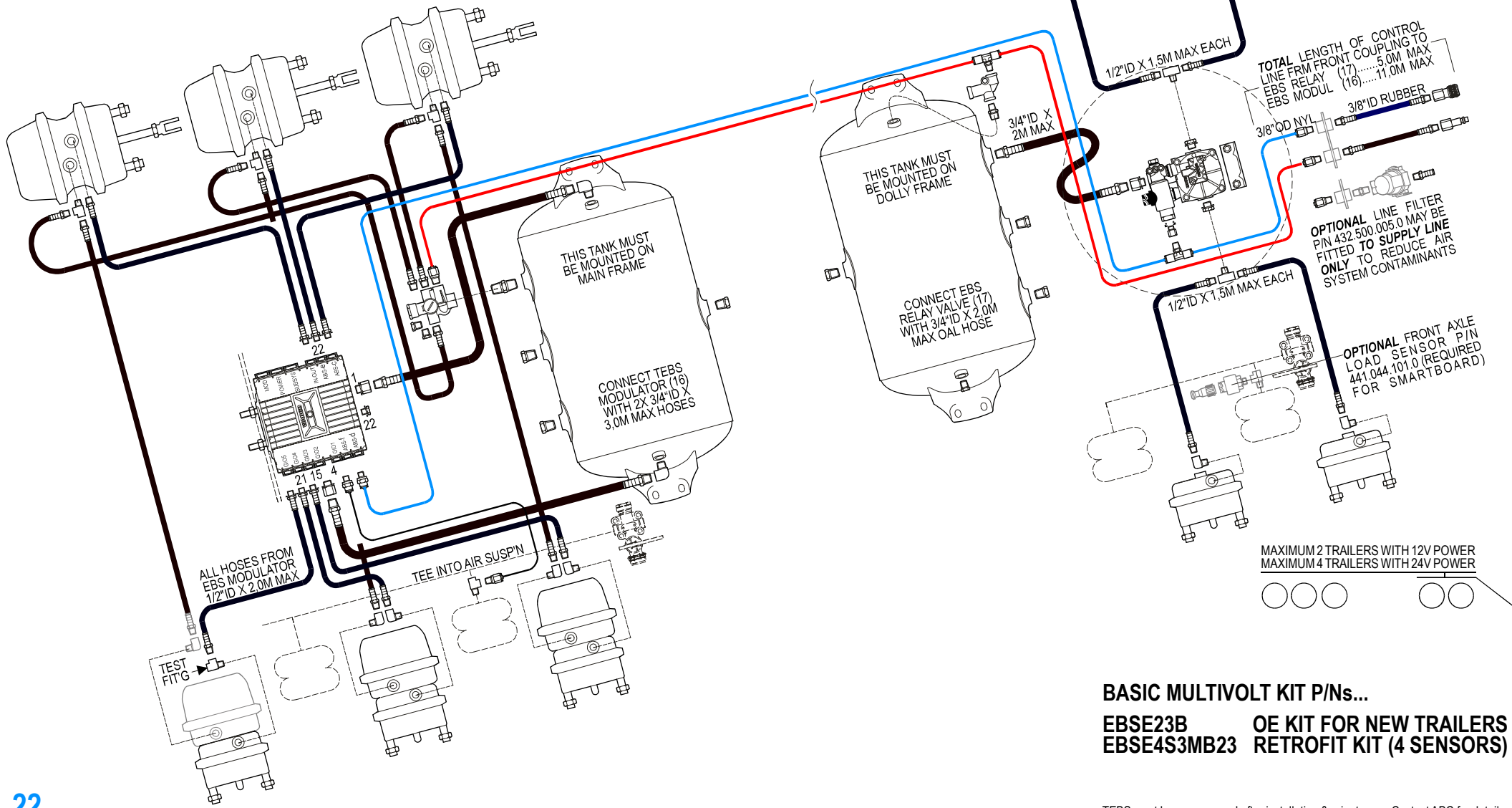


BASIC MULTIVOLT KIT P/Ns...
EBSE22A OE KIT FOR NEW TRAILERS
EBSE4S3MA22 RETROFIT KIT (4 SENSORS)

TEBS must be programmed after installation & prior to use. Contact ABC for details.

5 AXLE DOG TEBS+RSS

38/05 SARN
32822

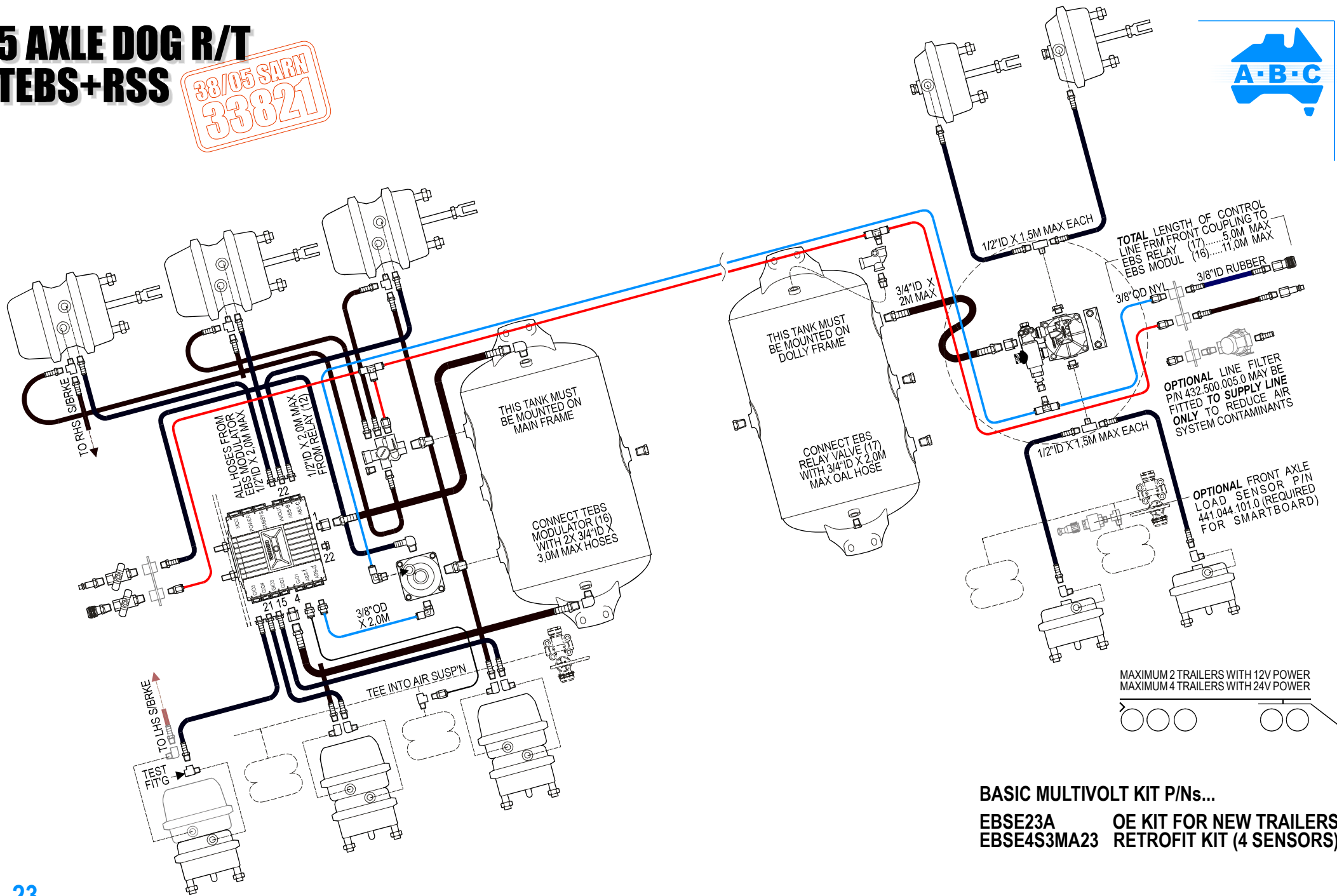


BASIC MULTIVOLT KIT P/Ns...
EBSE23B OE KIT FOR NEW TRAILERS
EBSE4S3MB23 RETROFIT KIT (4 SENSORS)

TEBS must be programmed after installation & prior to use. Contact ABC for details.

5 AXLE DOG R/T TEBS+RSS

38/05 SARN
33821



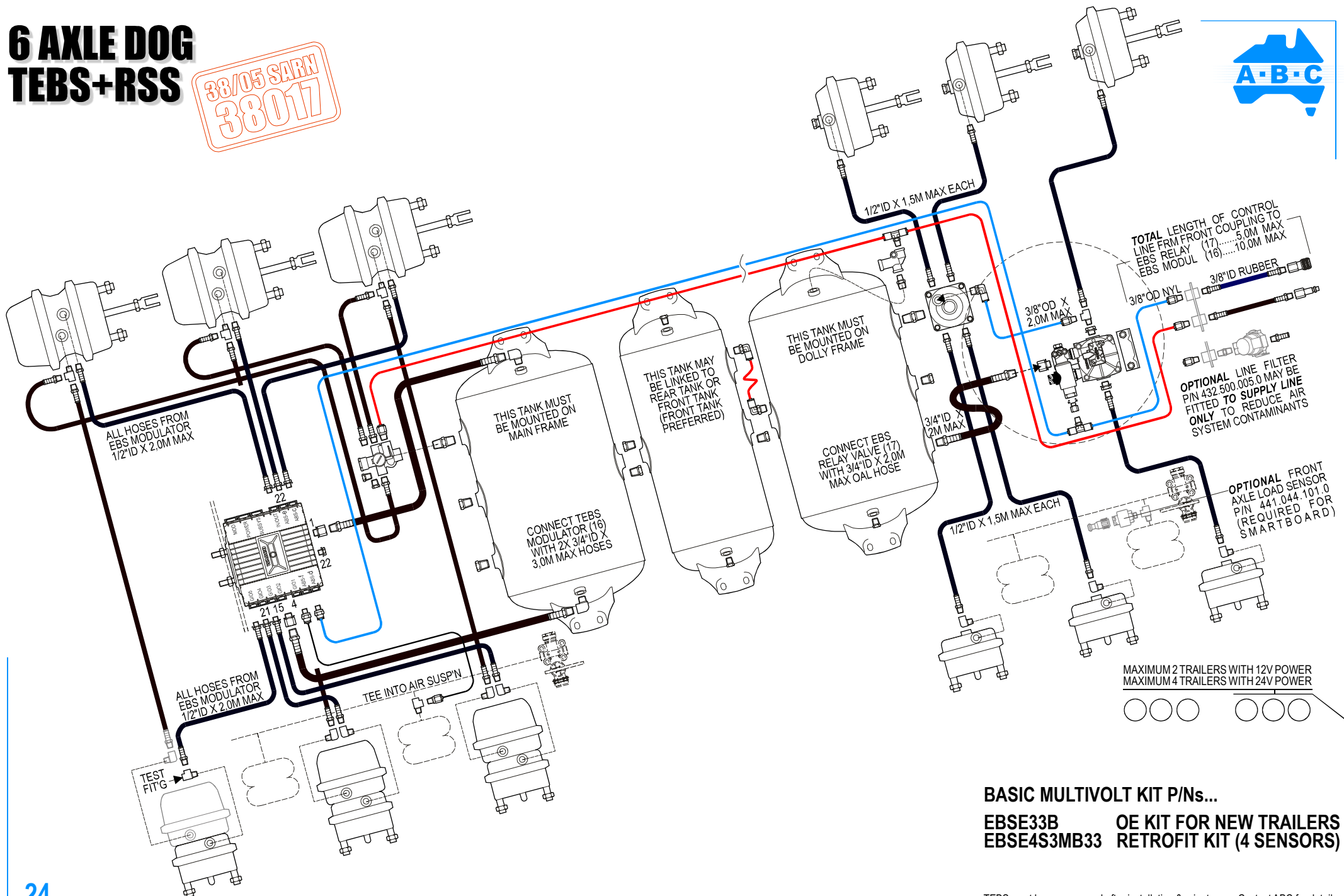
BASIC MULTIVOLT KIT P/Ns...

EBSE23A OE KIT FOR NEW TRAILERS
EBSE4S3MA23 RETROFIT KIT (4 SENSORS)

TEBS must be programmed after installation & prior to use. Contact ABC for details.

6 AXLE DOG TEBS+RSS

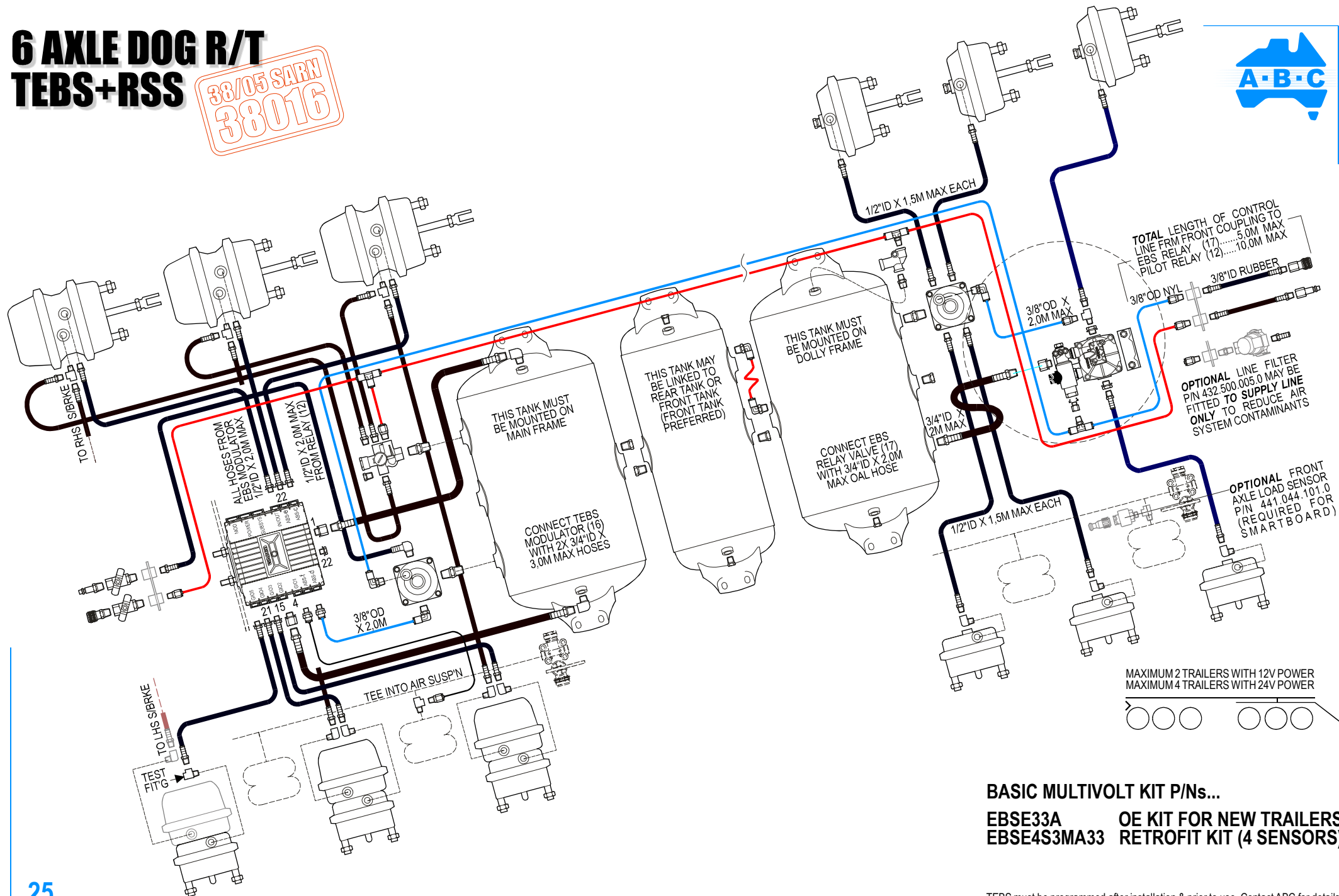
38/05 SARN
38017



BASIC MULTIVOLT KIT P/Ns...
EBSE33B OE KIT FOR NEW TRAILERS
EBSE4S3MB33 RETROFIT KIT (4 SENSORS)

6 AXLE DOG R/T TEBS+RSS

38/05 SARN
38016



BASIC MULTIVOLT KIT P/Ns...

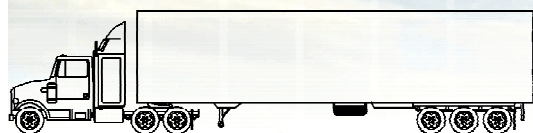
EBSE33A OE KIT FOR NEW TRAILERS
EBSE4S3MA33 RETROFIT KIT (4 SENSORS)

TEBS COMPATIBILITY



ADR38/05 now mandates trailer roll stability systems (ie: TEBS) on all new trailers. Most new European prime movers sold in Australia in recent years are equipped with EBS, and ADR35/06 will mandate Electronic Stability Control (ie: ABS or EBS +ESC) on all new heavy towing vehicles by the end of 2020. The adoption of these advanced braking technologies will promote safer vehicles via optimum braking performance and compatibility into the future, but some precautions are advisable in the short term when mixing new trucks and trailers with older vehicles.

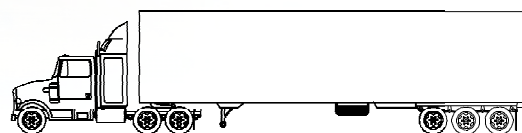
The table below outlines possible implications of mixing different braking technologies of newer and older vehicles. The good news is that the **worst of these scenarios can be remedied via relatively easy and cost effective retrofitting of TEBS to older trailers.** If in doubt, feel free to contact our specialist support staff for more specific advice.



TOWING VEHICLE with EBS TRAILER with EBS

✓✓✓ HIGHLY RECOMMENDED

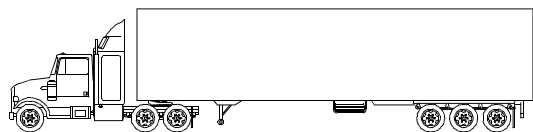
Electronic load proportioning on both for optimum brake balance & even brake wear at all loads. ABS & ESC (RSS) on both for optimum stability & minimum stopping distance. Electronically triggered trailer* for synchronous braking (no trailer push).



TOWING VEHICLE with EBS TRAILER with ABS

✓✓✗ LESS THAN OPTIMAL (WEAR)

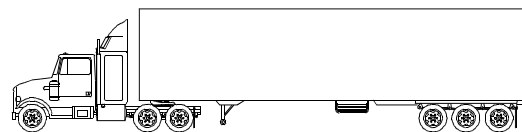
Electronic load prop on towing vehicle only can result in **over-aggressive trailer braking** & accelerated brake wear. ABS on both* ensures stability but pneumatically triggered trailer system behind 'fast' EBS towing vehicle accentuates trailer lag/push.



TOWING VEHICLE with ABS TRAILER with EBS

✓✓✓ RECOMMENDED

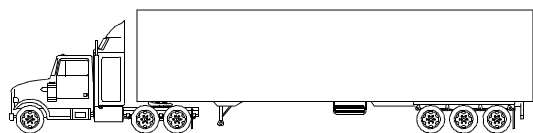
ABS on both for optimum stability & reduced stopping distance. Rollover protection via trailer RSS. Load prop on trailer only may result in more aggressive truck braking, but ABS prevents instability, & trailer EBS load prop can be disabled if desired.



TOWING VEHICLE with EBS TRAILER with LSV

✓✗✗ LESS THAN OPTIMAL (SAFETY)

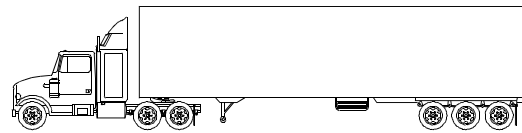
Load prop on both for improved brake balance & more even brake wear, but no ABS on trailer means **wheel lock & instability still possible**, & pneumatically triggered trailer system behind 'fast' EBS towing vehicle accentuates trailer lag/push.



conventional AIR BRAKES TRAILER with EBS

✓✓✓ READY FOR THE FUTURE

No power connection to trailer EBS so load prop & ABS are inactive - trailer operates pneumatically at full pressure, same as most older trailers on the road today, but is ready to provide optimum performance behind your next (ABS/EBS/ESC) truck!



TOWING VEHICLE with EBS conventional AIR BRAKES

✗✗✗ NOT RECOMMENDED

Load prop on towing vehicle only can result in **over-aggressive trailer braking** & accelerated brake wear. No ABS on over aggressive trailer can result in **chronic wheel lock & dangerous instability** accentuated by slow trailer system.

TEBS relies on power from the towing vehicle, so requires compatible towing vehicle connector. Our TEBS trailer kits are all multivolt, so will operate at 12V or 24V. However, ABS/EBS towing vehicle connectors are generally keyed differently for 12V or 24V trailer systems. Our TEBS dog trailer kits are supplied with a multivolt plug with two keyways that will engage both 12V and 24V truck sockets. This multivolt plug may also be used on prime movers to couple to any semi-trailer socket. Note that a 24V towing vehicle supply is recommended for combinations towing more than 2 TEBS trailers.

TEBS OPTIONS

E-TEBS provides the foundation for a range of options to further enhance vehicle safety and productivity, including.....

- ✓ *Optional sensing & in dash warning of disc pad wear limits.*
- ✓ *Optional 'SmartBoard' displays all trailer axle group loads separately in tonnes (replaces on board scales).*
- ✓ *Optional 'SmartBoard' (with battery) provides odometer function even when E-TEBS is unplugged (replaces hubometer).*
- ✓ *Optional 'TailGUARD' reversing sensor kits warn of obstacles & apply brakes automatically.*
- ✓ *Optional 'LACV' kits automatically control lift axle/s with manual override via optional 'SmartBoard'.*
- ✓ *Optional 'eTASC' Electronic Trailer Air Suspension Control provides advanced suspension control functions like speed dependant ride height (less drag & improved stability), raise/lower control (via optional 'SmartBoard') with automatic return to ride, etc.*
- ✓ *Optional 'OptiTurn' manoeuvre assistance automatically reduces tyre scrubbing & cut-in during low speed cornering.*
- ✓ *Multiple programmable GIO (general input/output) ports for customised functions like...*
 - Activation of stoplight when roll stability intervention is active.*
 - Speed dependant switching functions (EG: self-steer axle lock over certain speed).*
 - Custom warning functions (EG: door/tailgate open, etc)...*
 - 'Tilt-Alert' warning if tipping at dangerous angle.*
- ✓ *Exclusive NEW 'TrailerSAFE' telematics system for real time 24/7 tracking and monitoring of trailer.*

SmartBoard Information Display

- ✓ *displays kilometres travelled & axle group loads*
- ✓ *displays TEBS data & fault codes.*
- ✓ *displays tyre pressures & disc pad wear (with optional 'IVTM' system & wear sensors).*
- ✓ *enables control of lift axles & suspension raise/lower functions.*



TailGUARD Reverse Sensing

- ✓ *detects obstacles & indicates distance via flashing lights.*
- ✓ *pulses brakes if reversing speed exceeds 10kph.*
- ✓ *applies brakes at programmable distance from obstacle.*
- ✓ *in-cab remote available for distance indication.*



eTASC Electronic Air Suspension Control

- ✓ *speed dependant ride height for improved stability.*
- ✓ *easy raise/lower adjustment to any dock height.*
- ✓ *dock height level automatically maintained during loading.*
- ✓ *automatic return to normal ride height when mobile.*
- ✓ *rapid response when stationary for fast adjustment; delayed when mobile for reduced air consumption.*



TrailerSAFE Telematics

- 24/7 real time remote monitoring of trailer including...*
 - ✓ *power supply, air pressure, vehicle speed, axle load, etc.*
 - ✓ *brake usage, applied brake pressure, ABS & RSS events, etc.*
 - ✓ *programmable SMS or email alerts for out of range events.*



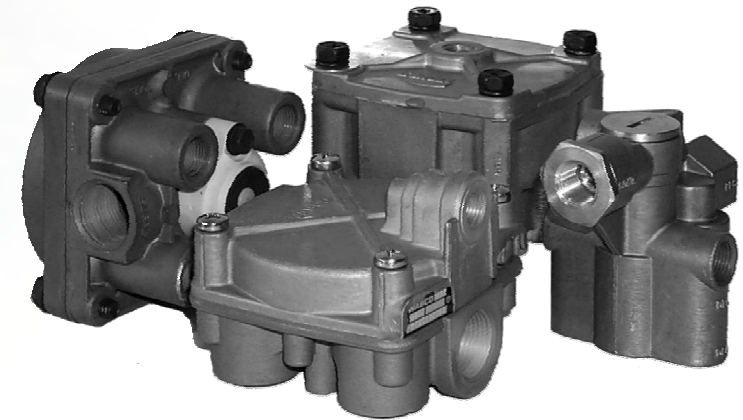
05 EXEMPT TRAILER BRAKE KITS

(STANDARD AIR ONLY)

Due to the nature of their design or use, some trailer types are exempt from the new roll stability (TEBS/RSS) requirements of ADR38/05, so air brake systems used previously are still permitted.

In particular, dolly converters, semi-trailers with more than 4 axles (or rows), and trailers with 'rows of 8' are exempt, so the following pages detail our conventional air brake systems to suit these configurations.

That said, TEBS and LSV kits are available for some of the above trailer types to ensure brake compatibility when used with other trailers. For example, dolly converters are exempt, but if used in roadtrain combinations with trailers that are equipped with a load proportioning brake system (either conventional pneumatic LSVs or TEBS electronic load proportioning), they will be overbraked relative to trailers when empty unless also equipped with some form of load proportioning.



ADR38/05 RSS EXEMPT TRAILER BRAKE KITS

KIT P/N	SARN	DESCRIPTION	PG
ABC01B	29244	1 AXLE SEMI TAG	30
ABC01A	29243	1 AXLE B/D-R/T LEAD	31
LSV01A	47169	1 AXLE SEMI R/T/DOLLY	32
ABC02B	29246	2 AXLE SEMI TAG	34
ABC02A	29245	2 AXLE SEMI B/D-R/T LEAD	35
ABC02D	29245	2 AXLE R/T DOLLY	36
LSV02D	46641	2 AXLE R/T DOLLY	37
ABC022A	50565	2 ROW OF 8 B/D-R/T LEAD ²	38
ABK3852	16431	2 AXLE SEMI B/D-R/T LEAD	¹
ABC03A	29247	3 AXLE SEMI B/D-R/T LEAD	39
ABC03D	29247	3 AXLE R/T DOLLY	40
LSV03D	46644	3 AXLE R/T DOLLY	41
ABC03W	37175	3 AXLE WIDENER	42
ABC034	42887	3 ROW OF 8 WIDENER ⁴	43
ABC032	49780	3 ROW OF 8 TAG ²	44
ABC032A	49783	3 ROW OF 8 B/D-R/T LEAD ²	45
ABK3851	16430	3 AXLE SEMI B/D-R/T LEAD	¹
ABC04A	32716	4 AXLE SEM B/D-R/T LEADI	47
ABC04W	37176	4 AXLE WIDENER	48
ABC044	41171	4 ROW OF 8 WIDENER ⁴	49
ABC042	49781	4 ROW OF 8 TAG ²	50
ABC042A	49784	4 ROW OF 8 B/D-R/T LEAD ²	51

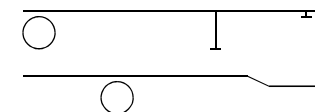
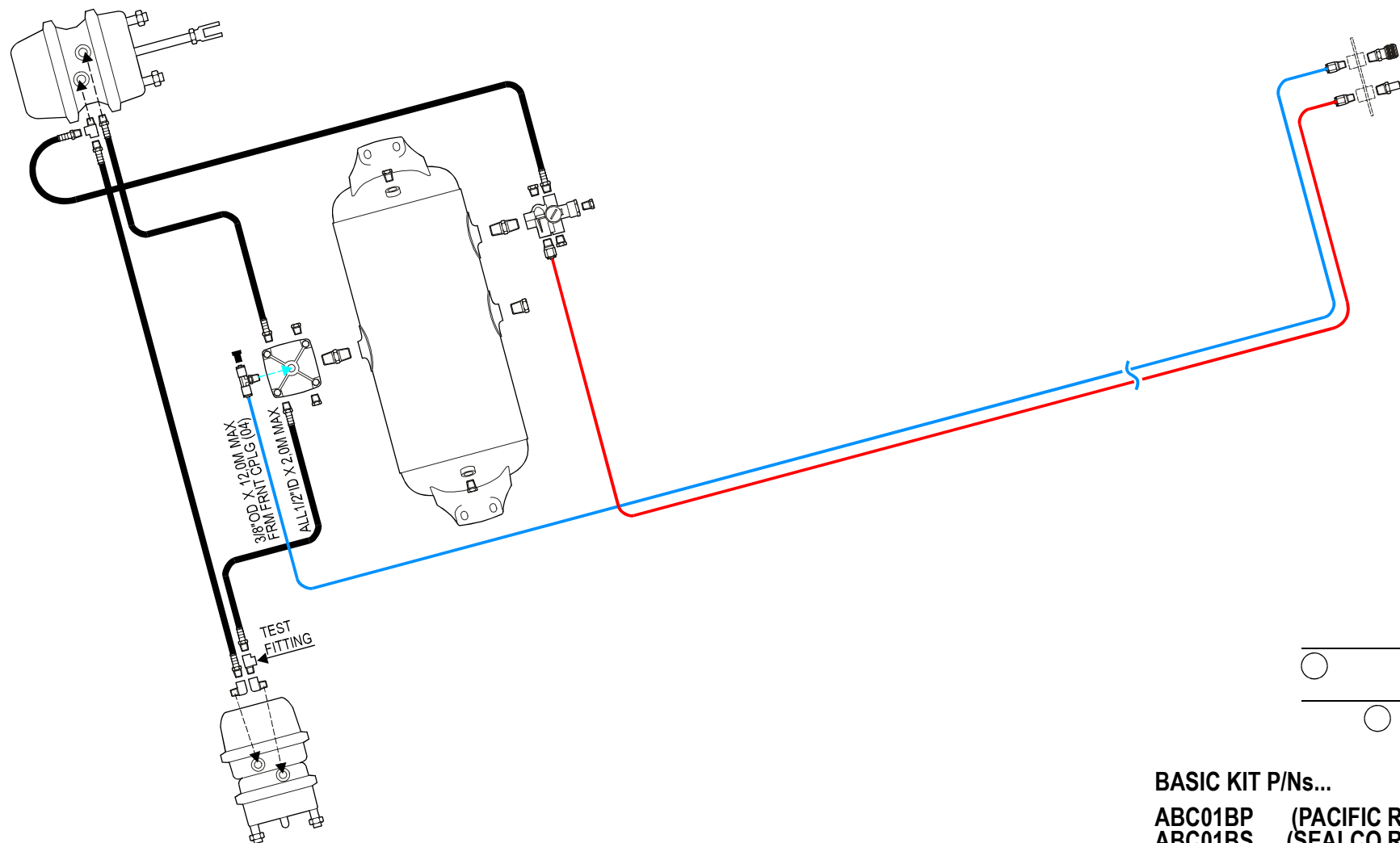
¹ Contact ABC for details

² 2 springbrakes per row (1 per foundation brake pair)

⁴ 4 springbrakes per row (1 per foundation brake)

1 AXLE SEMI AIR ONLY

38/05 SARN
29244

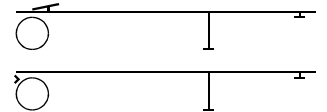
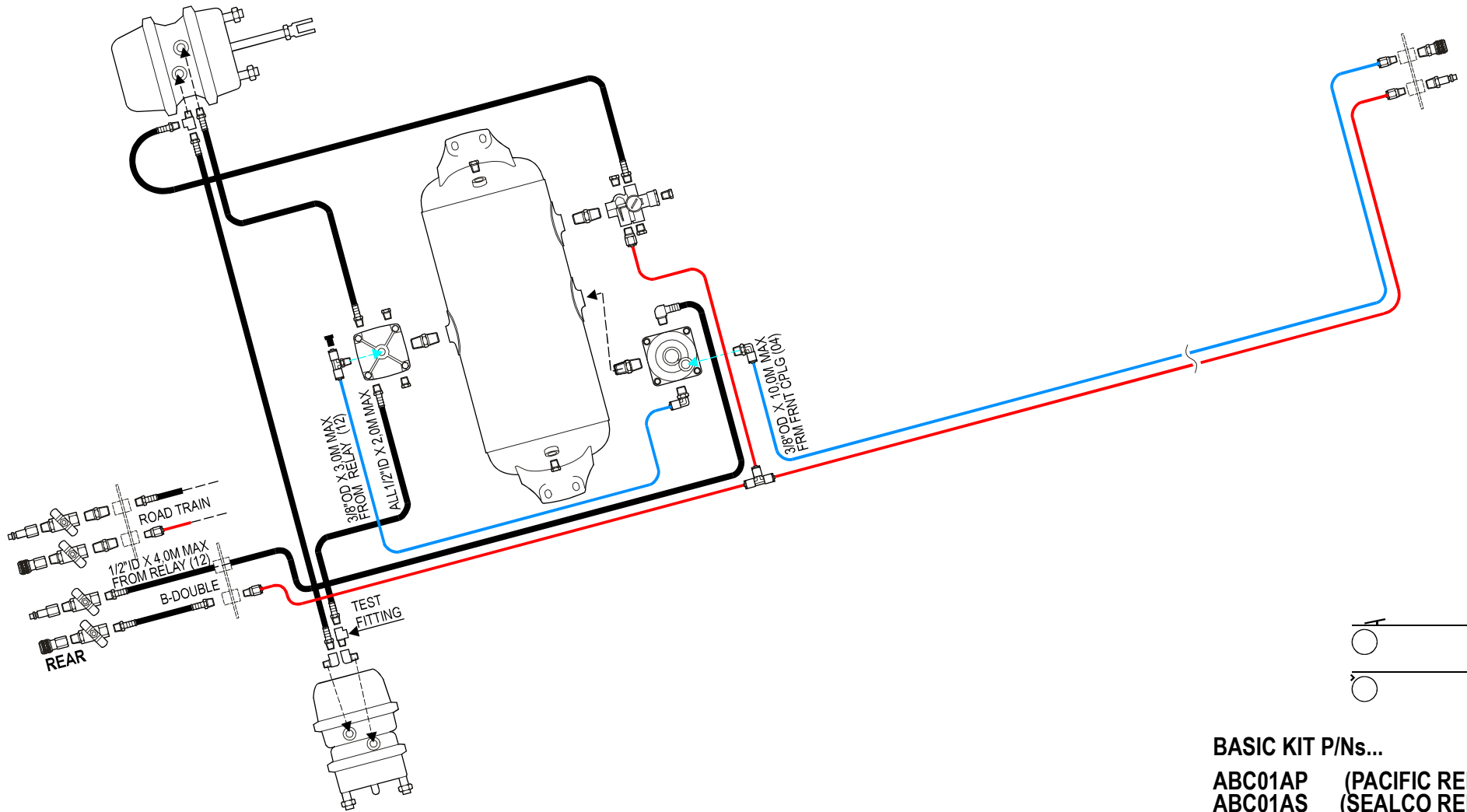


BASIC KIT P/Ns...

- ABC01BP (PACIFIC RELAY VALVES)
- ABC01BS (SEALCO RELAY VALVES)
- ABC01BW (WABCO RELAY VALVES)

1 AXLE SEMI B/D-R/T AIR ONLY

38/05 SARN
29243

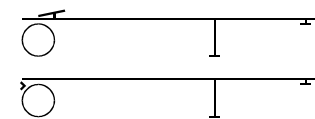
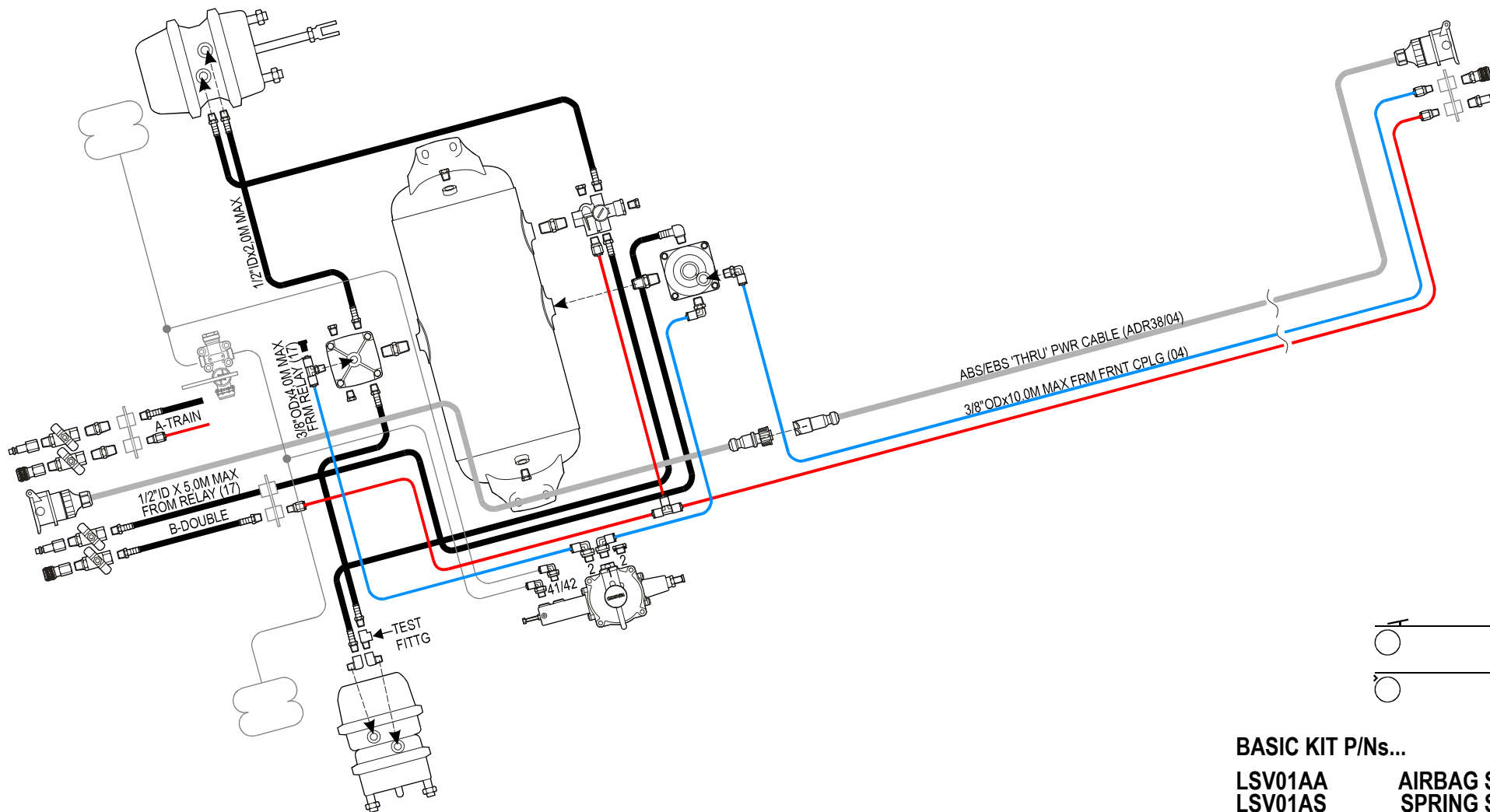


BASIC KIT P/Ns...

- ABC01AP (PACIFIC RELAY VALVES)
- ABC01AS (SEALCO RELAY VALVES)
- ABC01AW (WABCO RELAY VALVES)

1 AXLE SEMI B/D-R/T LSV

38/05 SARN
47169

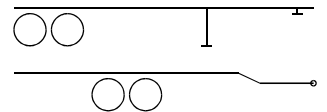
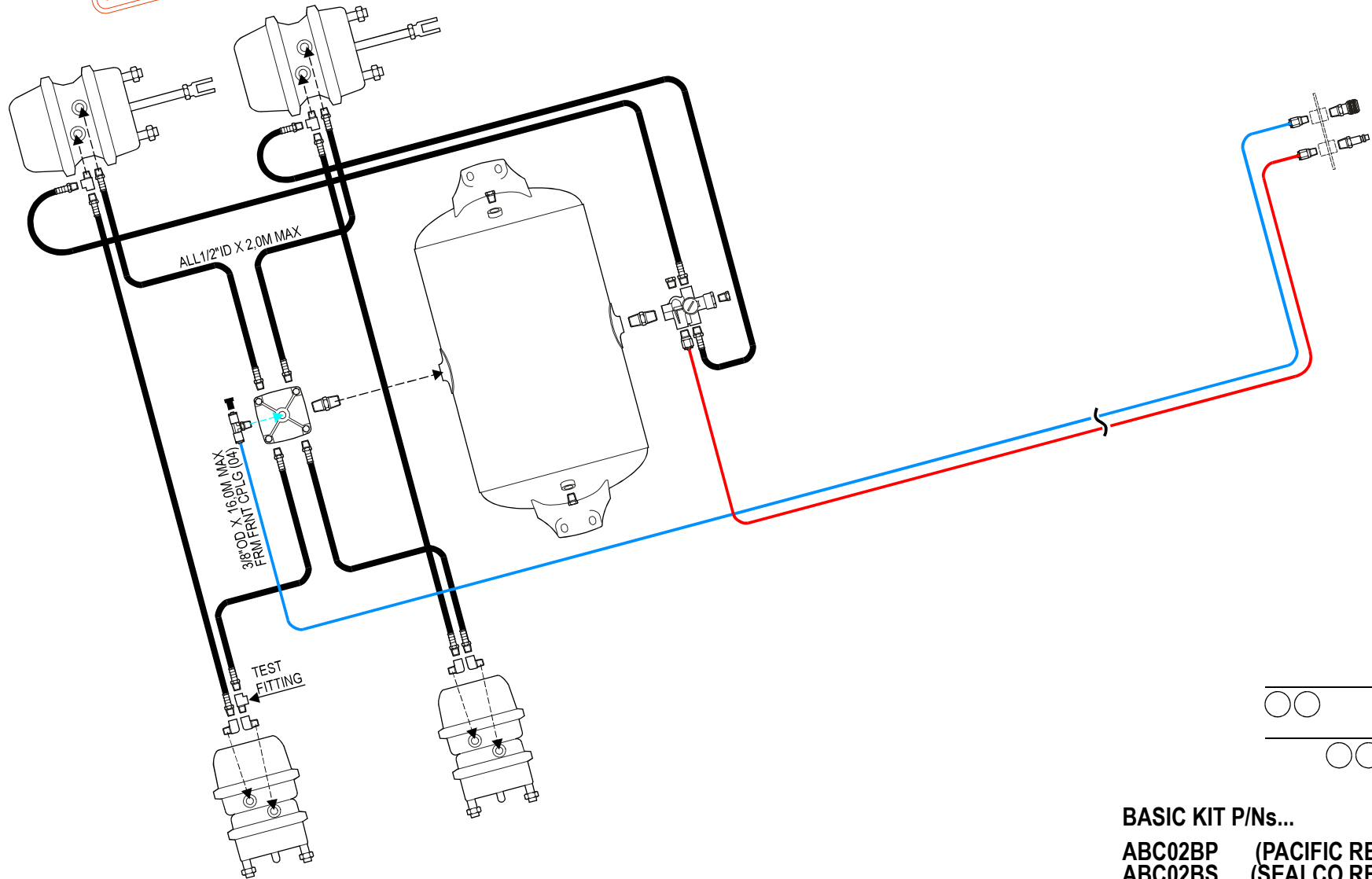


- BASIC KIT P/Ns...**
- LSV01AA **AIRBAG SUSPENSION**
 - LSV01AS **SPRING SUSPENSION**

LSVs must be adjusted for specific laden & empty trailer axle loads prior to use, or brake performance may be compromised. Contact ABC for details.

2 AXLE SEMI AIR ONLY

38/05 SARN
29246

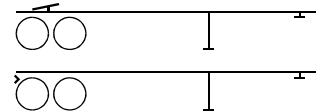
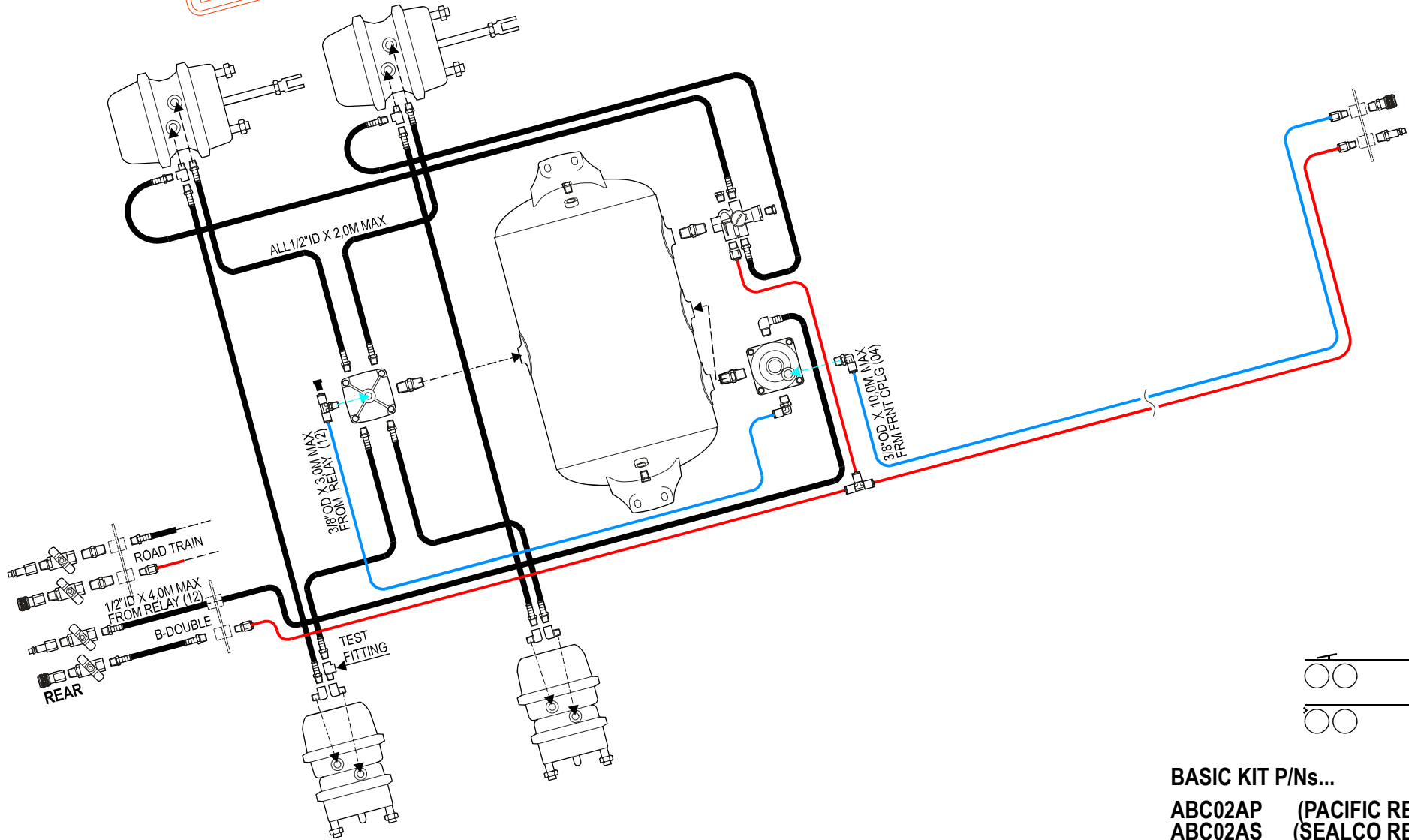


BASIC KIT P/Ns...

- ABC02BP (PACIFIC RELAY VALVES)
- ABC02BS (SEALCO RELAY VALVES)
- ABC02BW (WABCO RELAY VALVES)

2 AXLE SEMI B/D-R/T AIR ONLY

38/05 SARN
29245

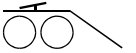
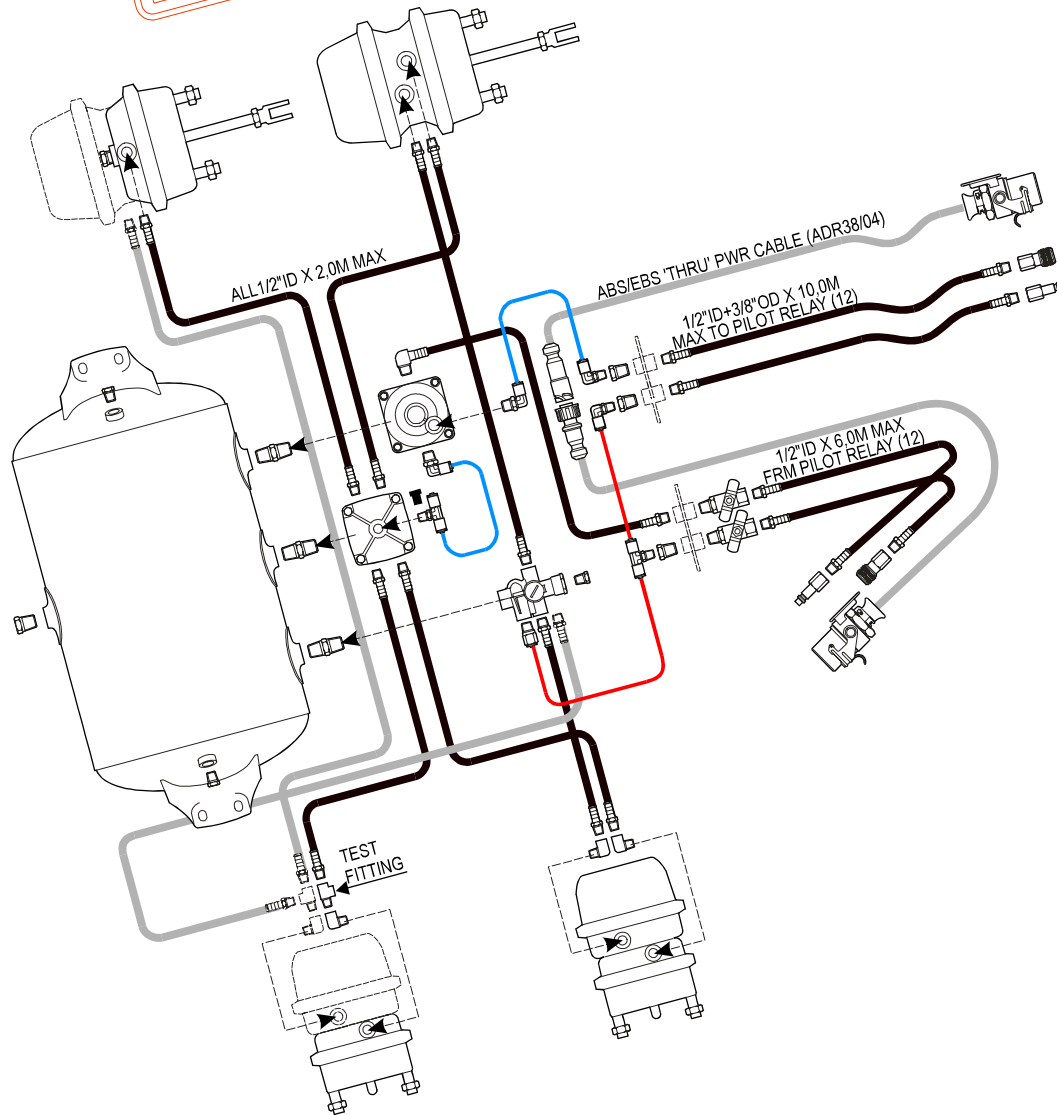


BASIC KIT P/Ns...

- ABC02AP (PACIFIC RELAY VALVES)
- ABC02AS (SEALCO RELAY VALVES)
- ABC02AW (WABCO RELAY VALVES)

2 AXLE DOLLY AIR ONLY

38/05 SARN
29245

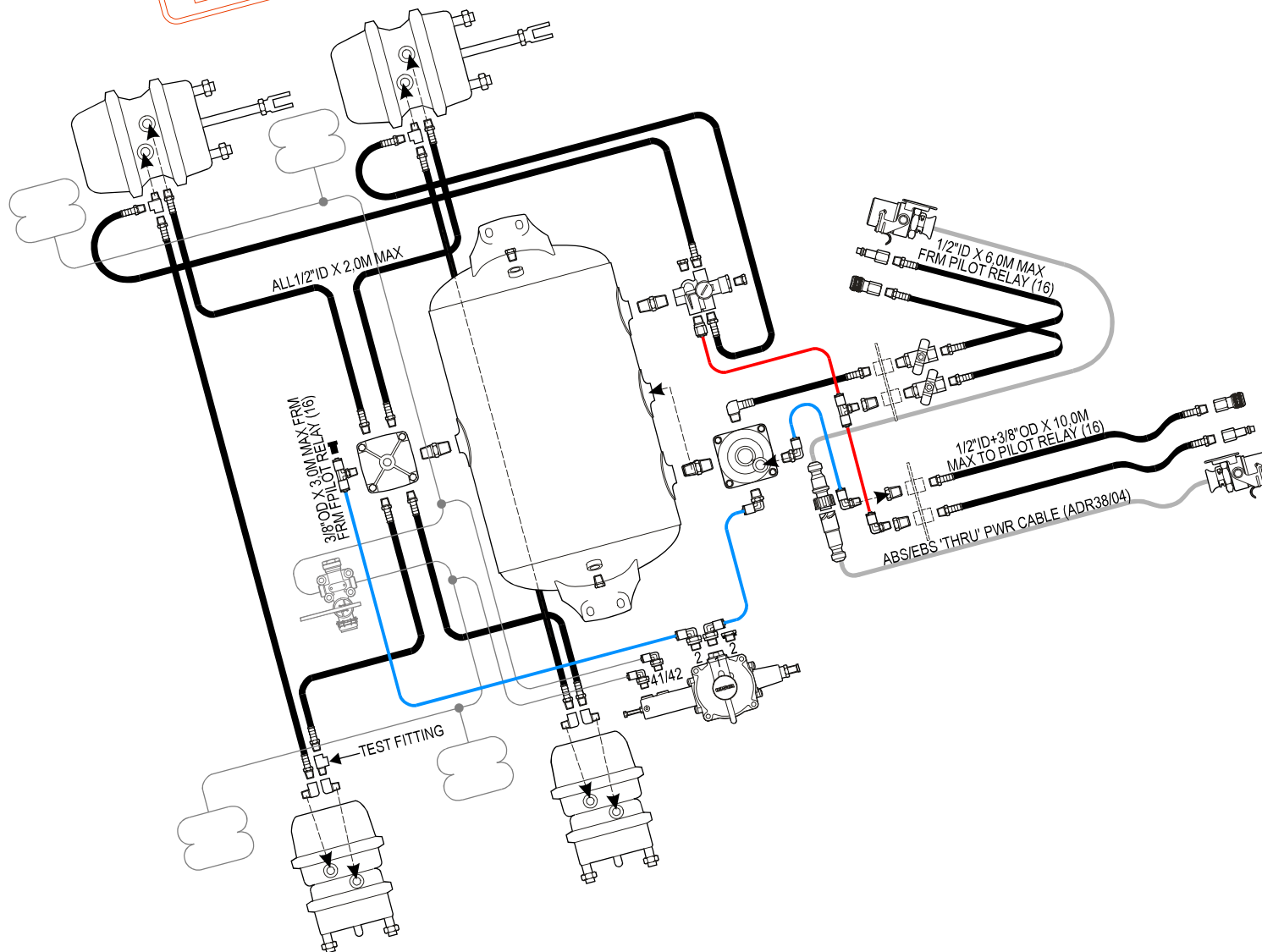


BASIC KIT P/Ns...

- ABC02DP (PACIFIC RELAY VALVES)
- ABC02DS (SEALCO RELAY VALVES)
- ABC02DW (WABCO RELAY VALVES)

2 AXLE DOLLY LSV

38/05 SARN
46641



BASIC KIT P/Ns...

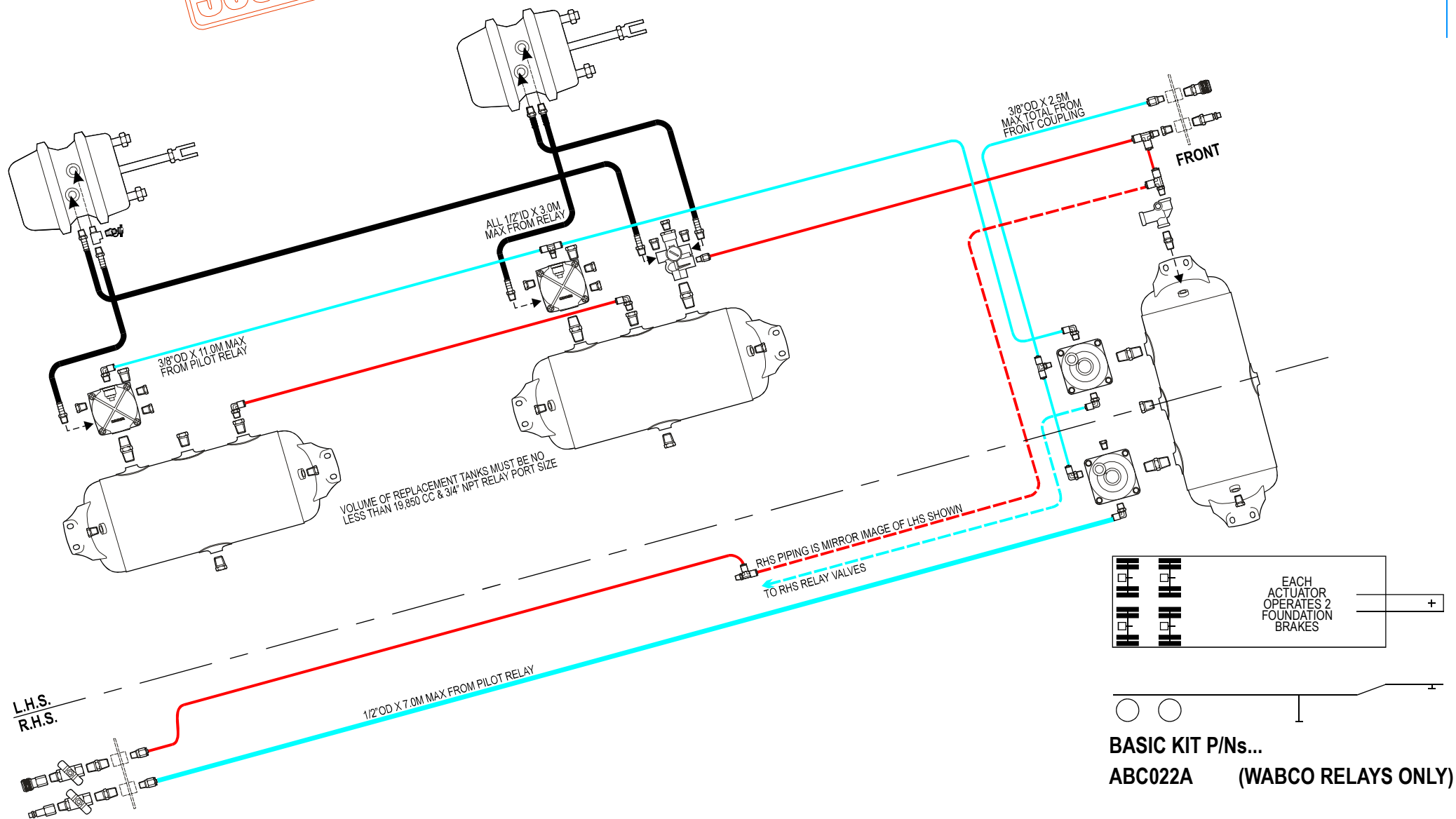
LSV02DA
LSV02DS

AIRBAG SUSPENSION
SPRING SUSPENSION

LSVs must be adjusted for specific laden & empty trailer axle loads prior to use, or brake performance may be compromised. Contact ABC for details.

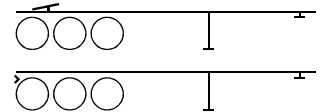
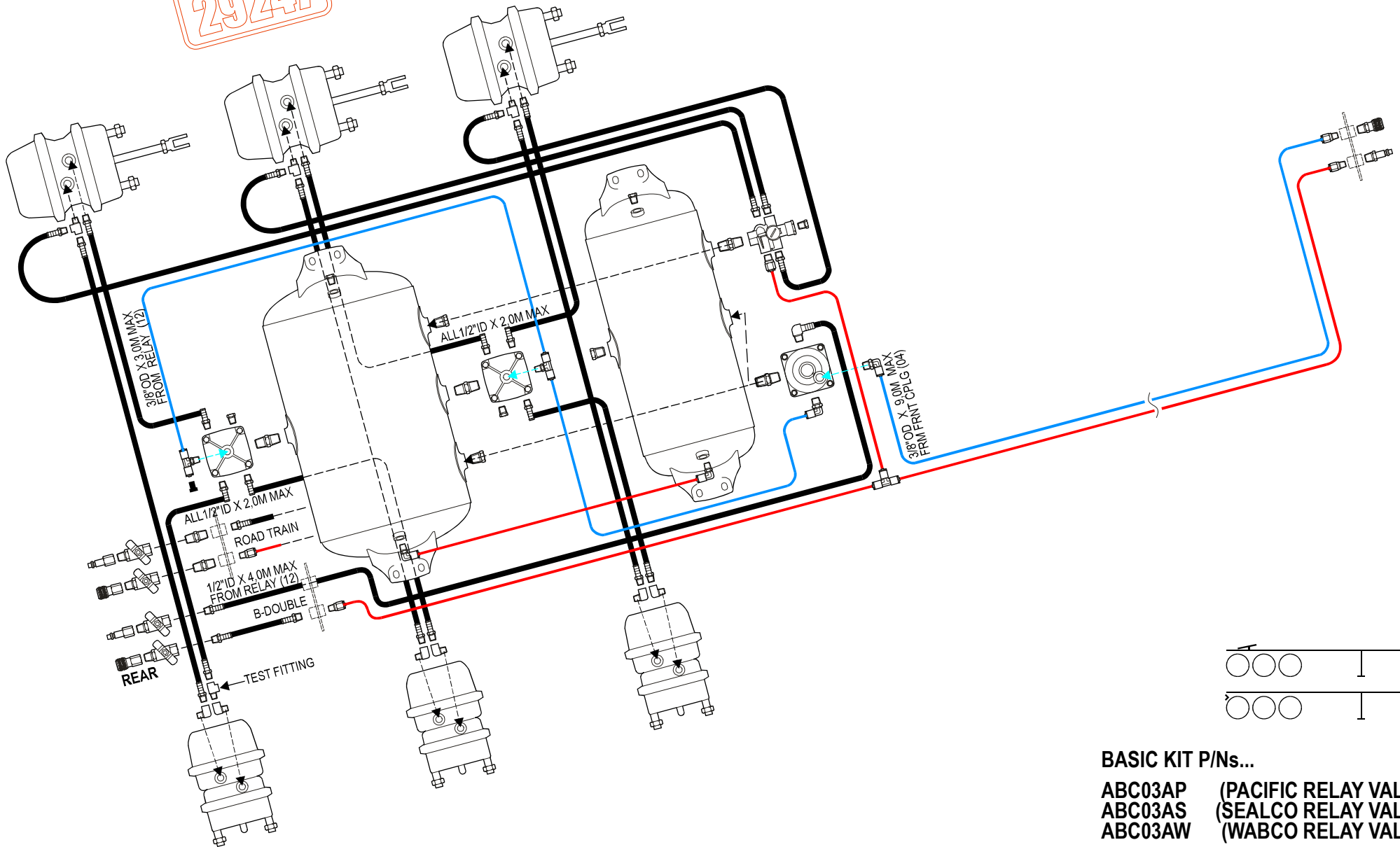
2 ROW OF 8 B/D-R/T AIR ONLY

38/05 SARN
50565



3 AXLE SEMI B/D-R/T AIR ONLY

38/05 SARN
29247

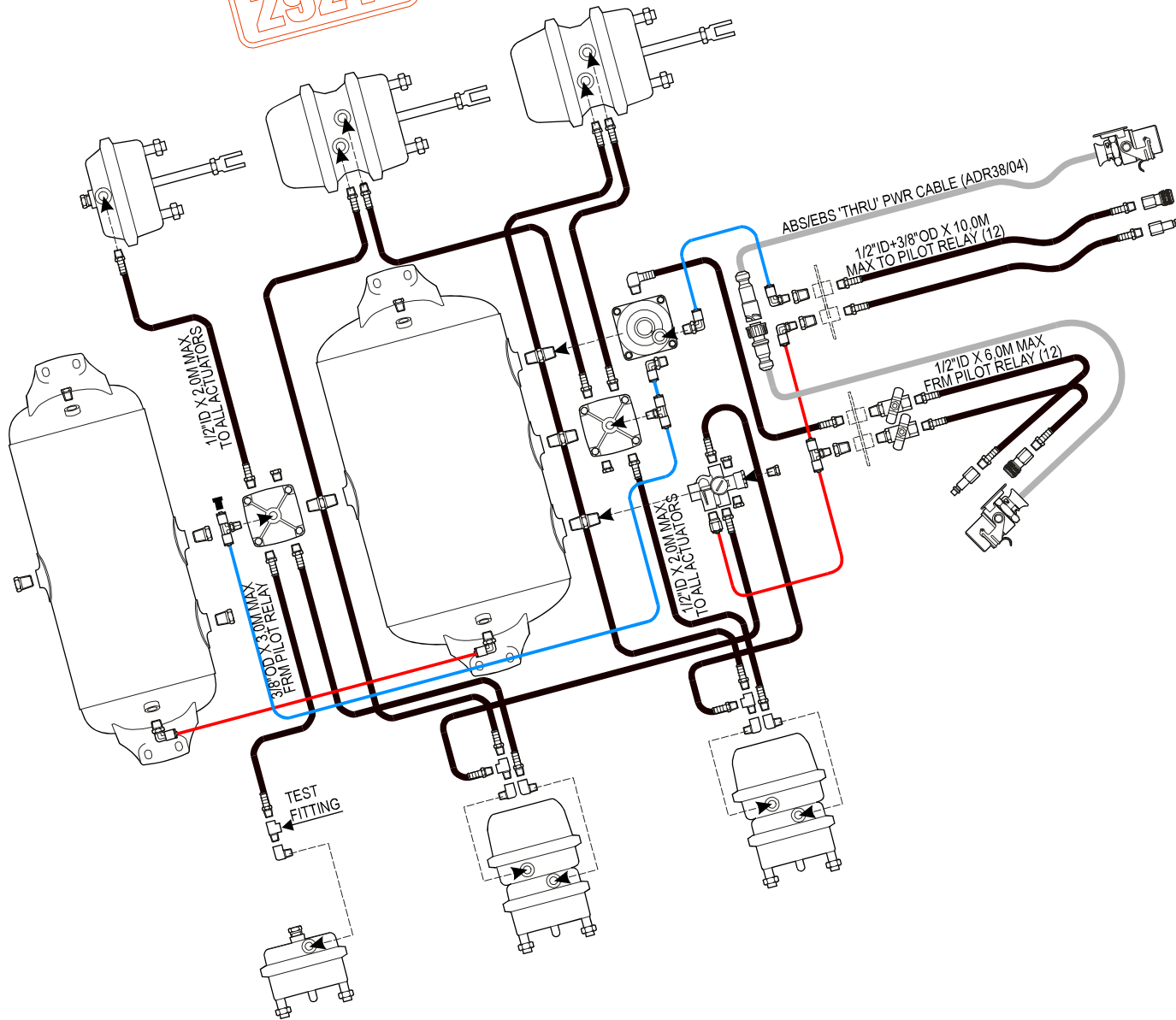


BASIC KIT P/Ns...

- ABC03AP (PACIFIC RELAY VALVES)
- ABC03AS (SEALCO RELAY VALVES)
- ABC03AW (WABCO RELAY VALVES)

3 AXLE DOLLY AIR ONLY

38/05 SARN
29247

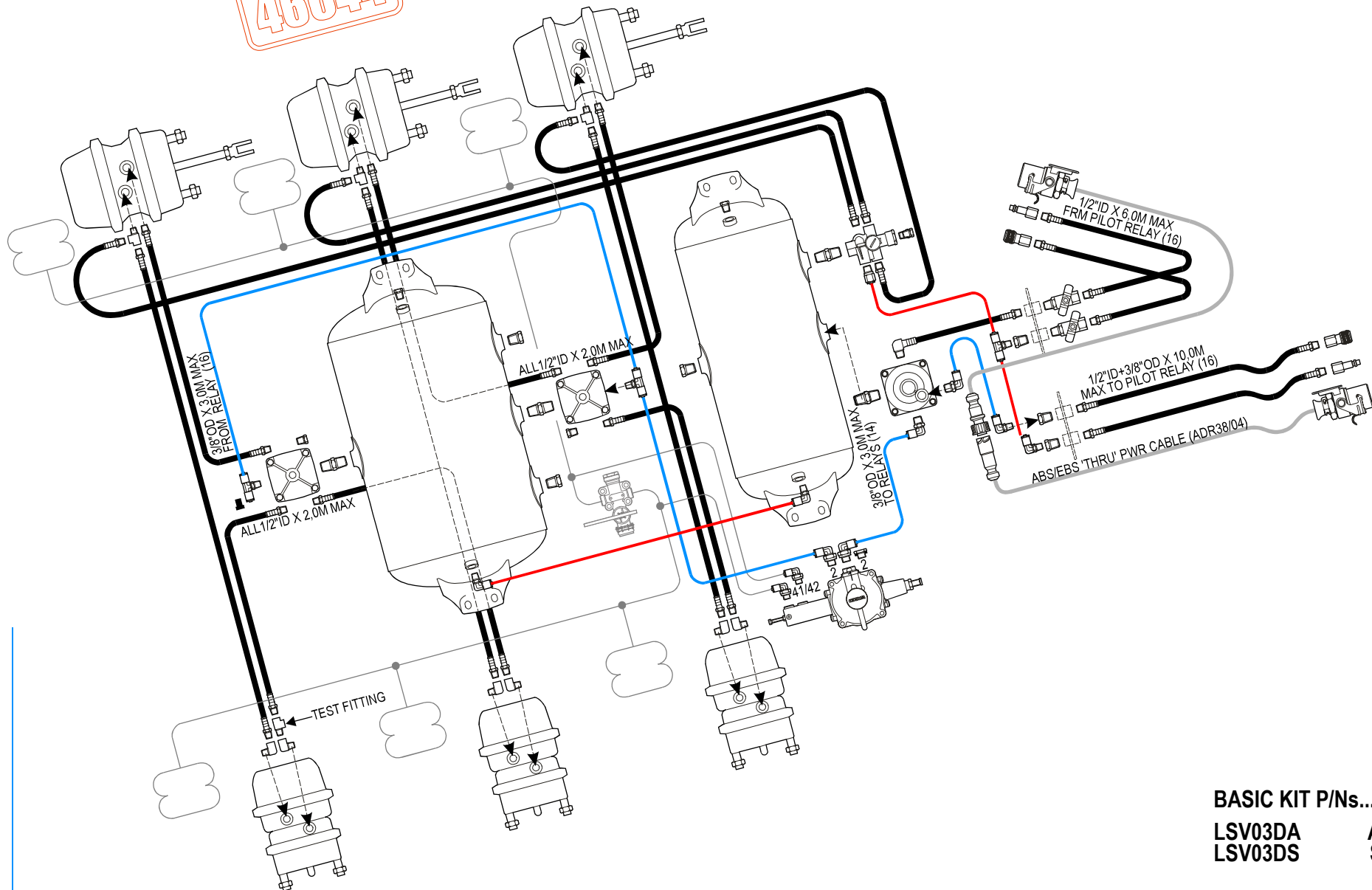


BASIC KIT P/Ns...

- ABC03DP (PACIFIC RELAY VALVES)
- ABC03DS (SEALCO RELAY VALVES)
- ABC03DW (WABCO RELAY VALVES)

3 AXLE DOLLY LSV

38/05 SARN
46644



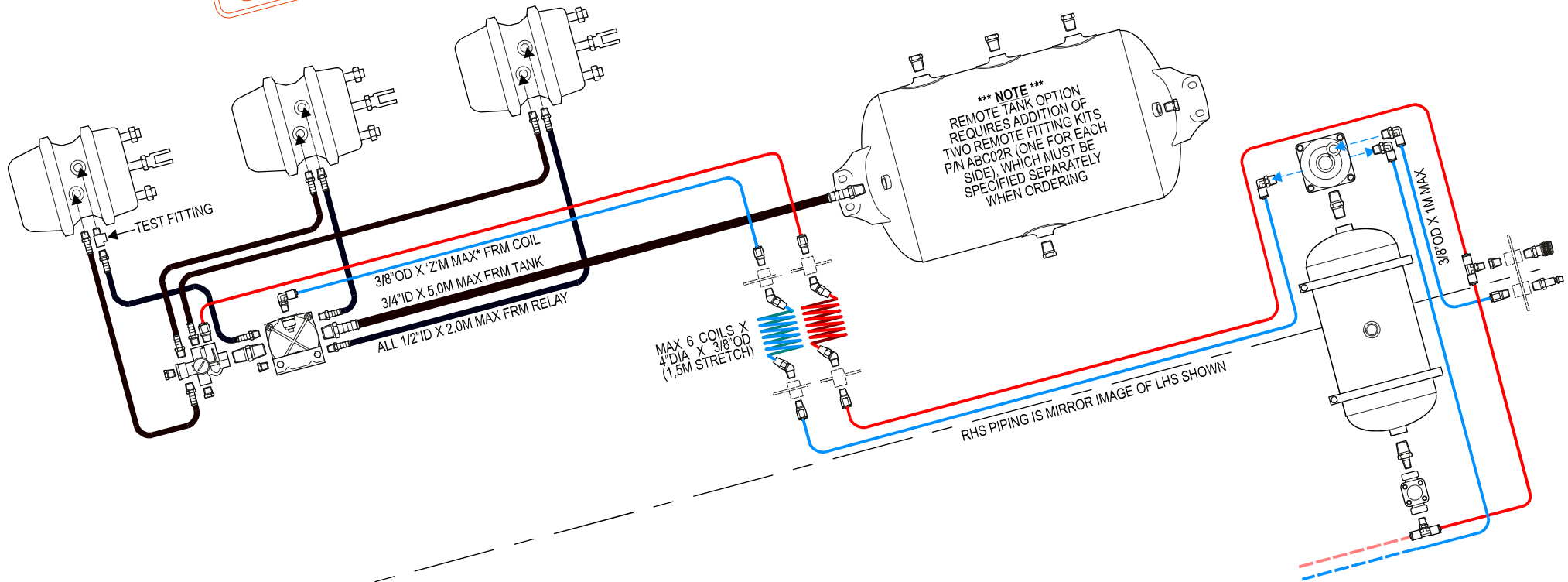
BASIC KIT P/Ns...

LSV03DA
LSV03DS

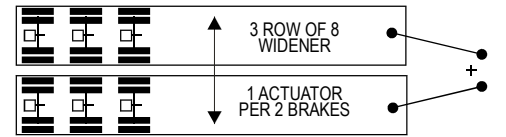
AIRBAG SUSPENSION
SPRING SUSPENSION

3 AXLE SEMI WIDENER AIR ONLY

38/05 SARN
37175



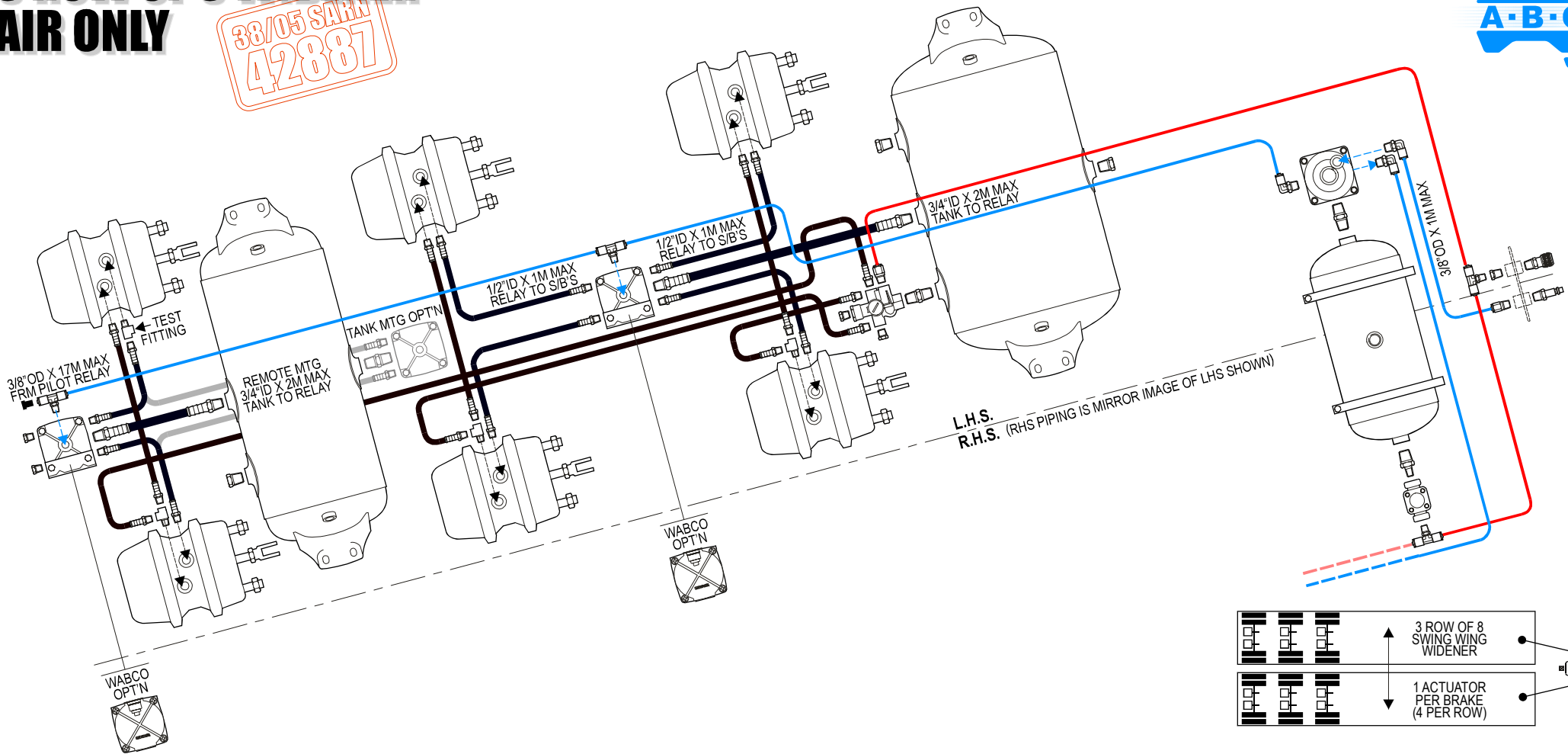
L.H.S.
R.H.S.



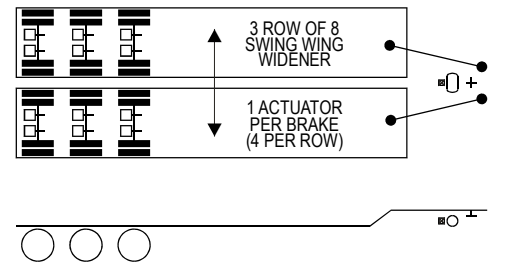
BASIC KIT P/Ns...
ABC03WP (PACIFIC RELAY VALVES)
ABC03WW (WABCO RELAY VALVES)

3 ROW OF 8 WIDENER AIR ONLY

38/05 SARN
42887



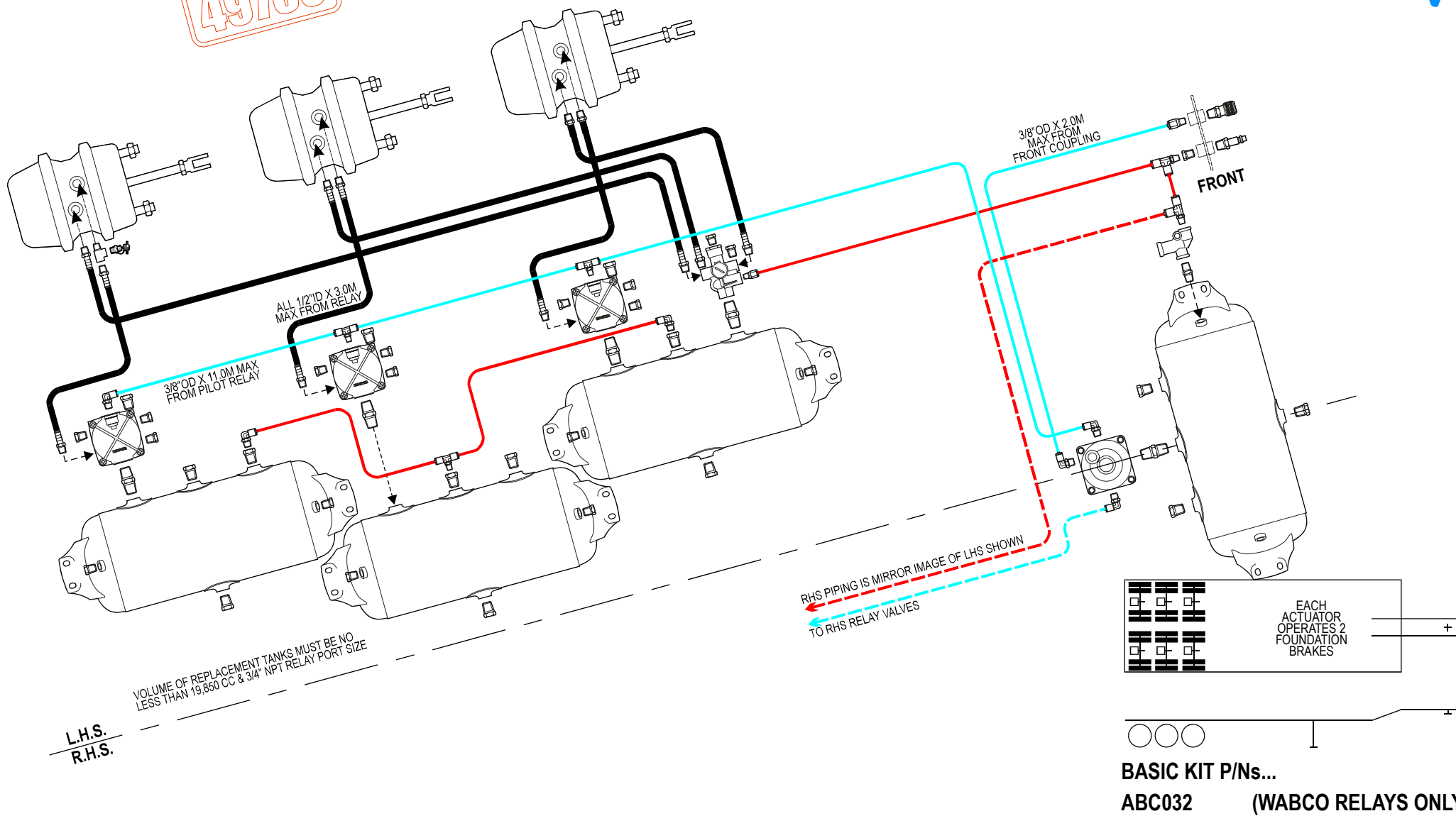
L.H.S.
R.H.S. (RHS PIPING IS MIRROR IMAGE OF LHS SHOWN)



BASIC KIT P/Ns...
ABC034P (PACIFIC RELAY VALVES)
ABC034W (WABCO RELAY VALVES)

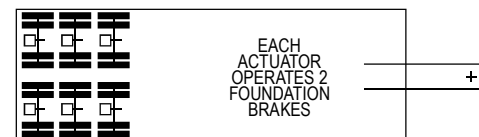
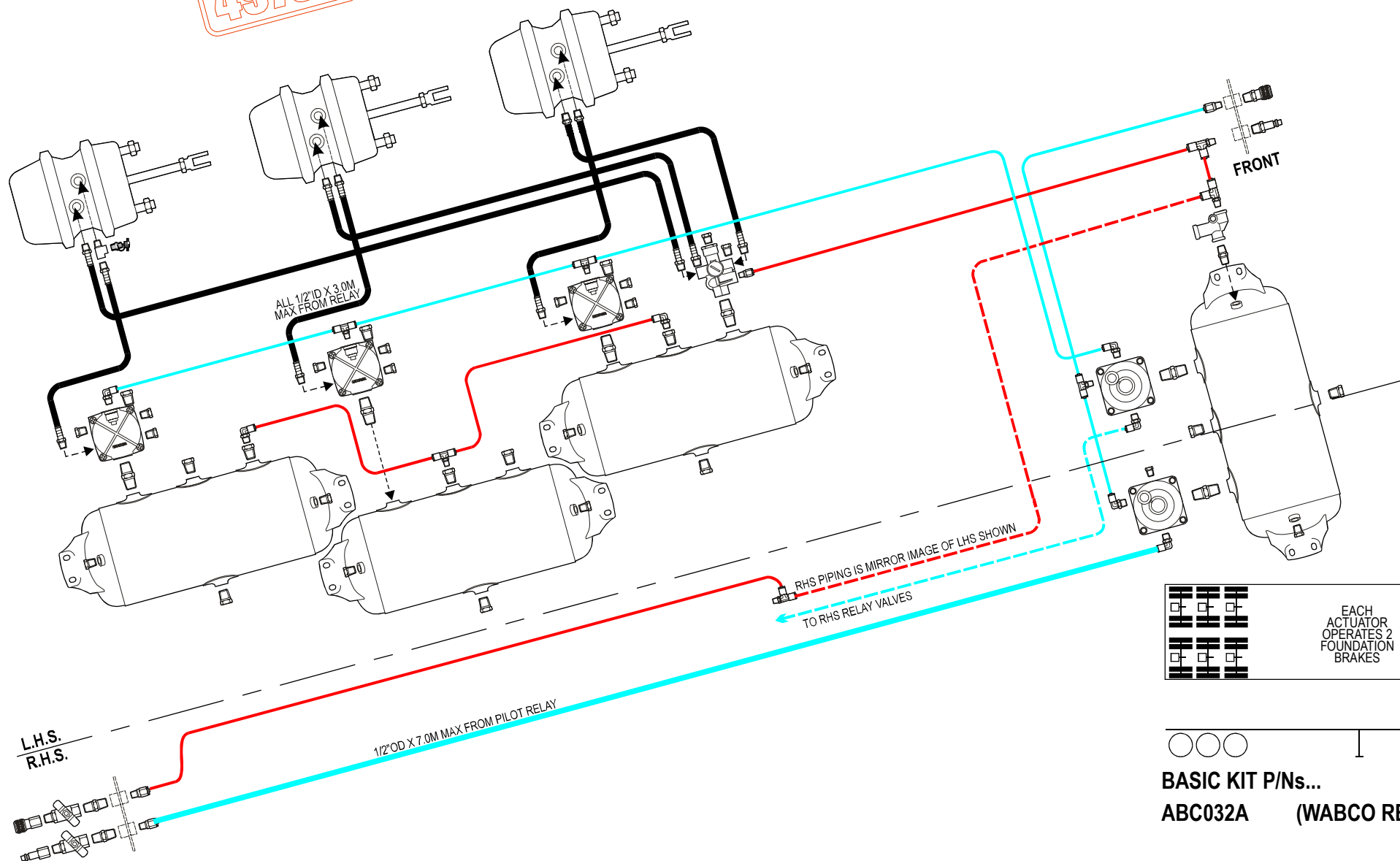
3 ROW OF 8 AIR ONLY

38/05 SARN
49780



3 ROW OF 8 B/D-R/T AIR ONLY

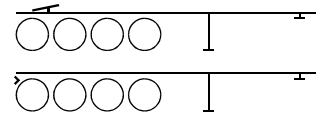
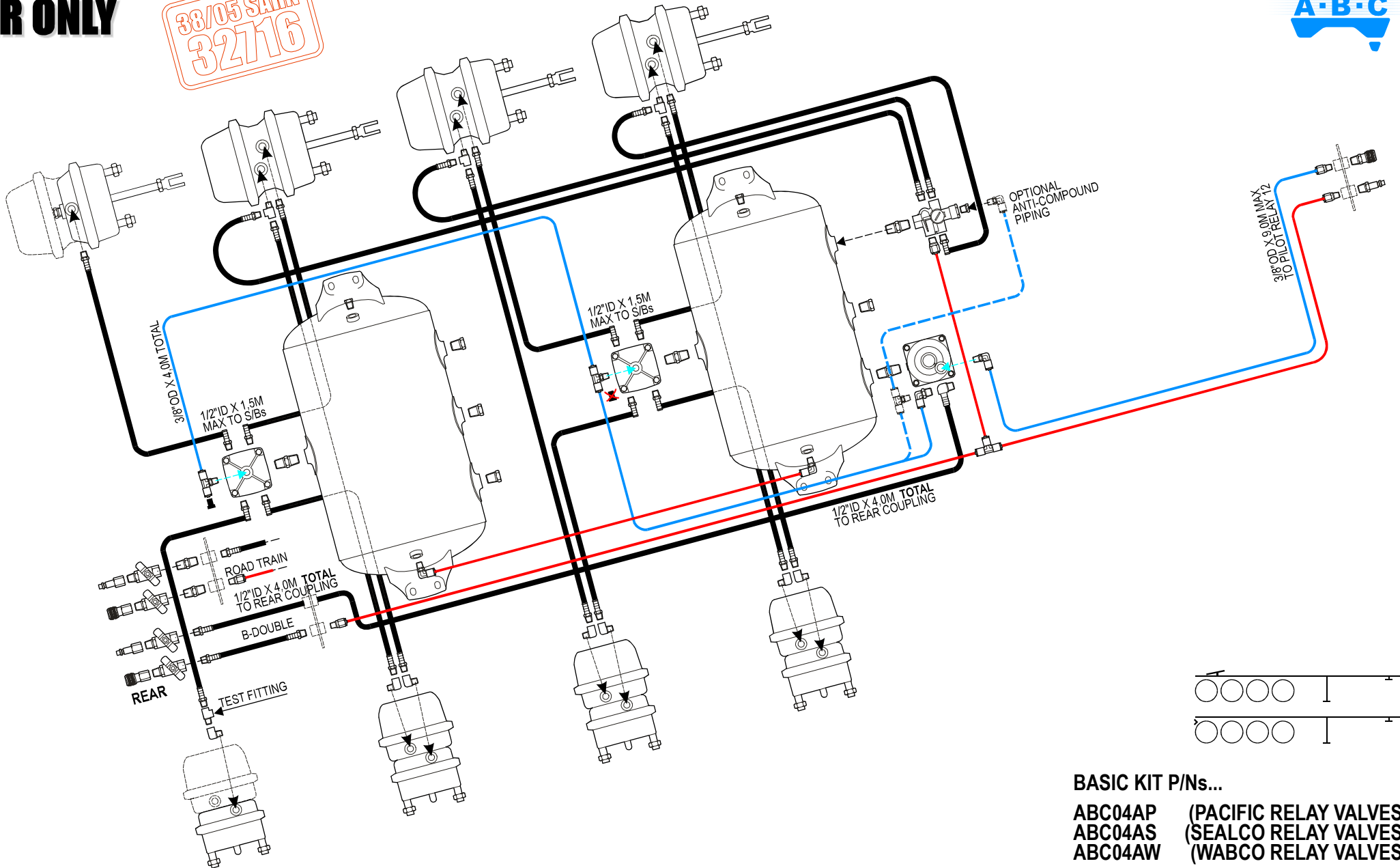
38/05 SARN
49783



BASIC KIT P/Ns...
ABC032A (WABCO RELAYS ONLY)

4 AXLE SEMI B/D-R/T AIR ONLY

38/05 SARN
32716

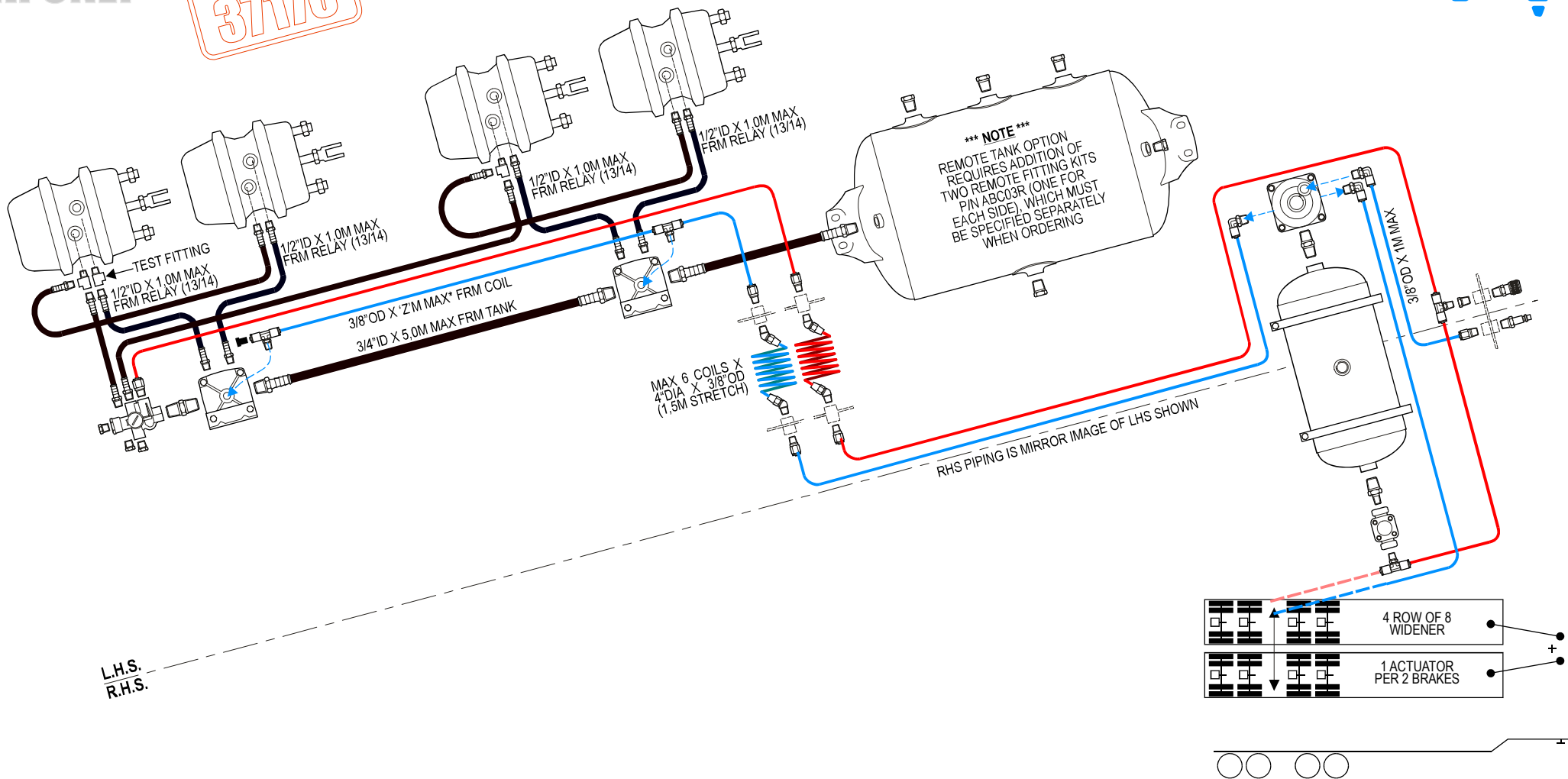


BASIC KIT P/Ns...

- ABC04AP (PACIFIC RELAY VALVES)
- ABC04AS (SEALCO RELAY VALVES)
- ABC04AW (WABCO RELAY VALVES)

4 AXLE SEMI WIDENER AIR ONLY

38/05 SARN
37176

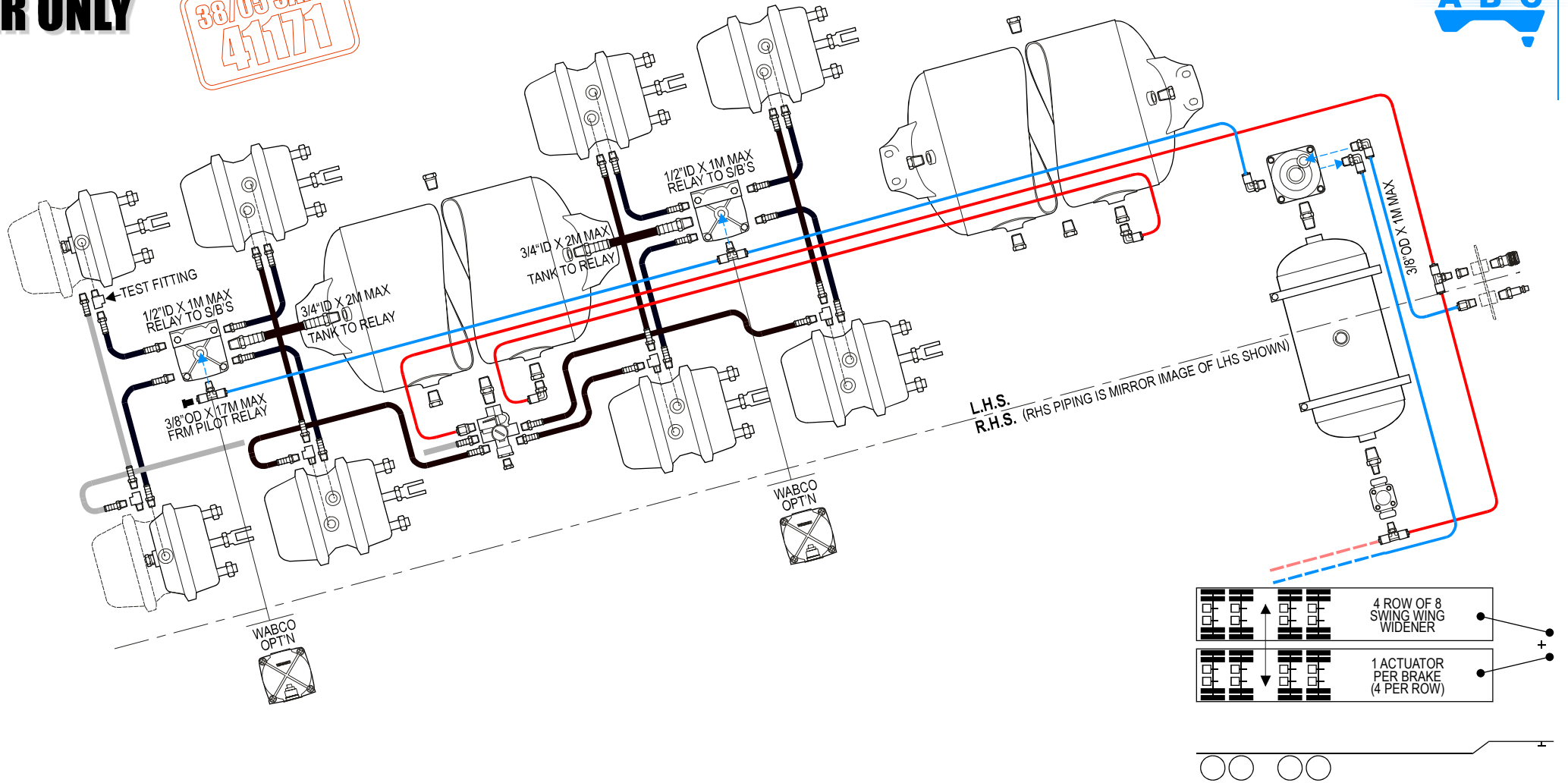


BASIC KIT P/Ns...

ABC04WP (PACIFIC RELAY VALVES)
ABC04WW (WABCO RELAY VALVES)

4 ROW OF 8 WIDENER AIR ONLY

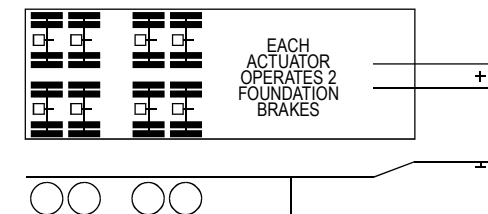
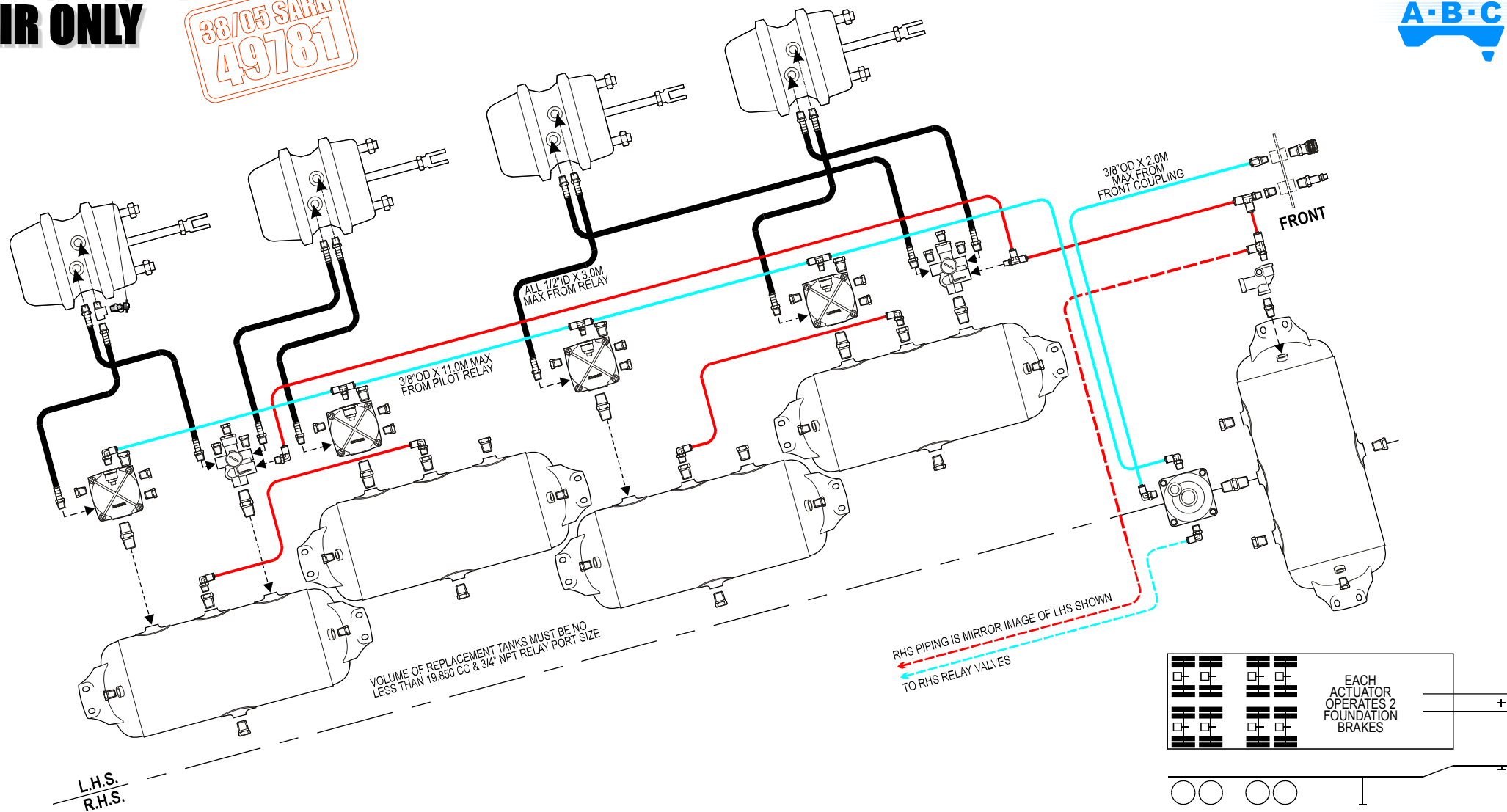
38/05 SARN
41171



BASIC KIT P/Ns...
ABC044P (PACIFIC RELAY VALVES)
ABC044W (WABCO RELAY VALVES)

4 ROW OF 8 AIR ONLY

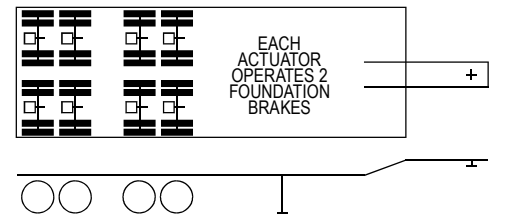
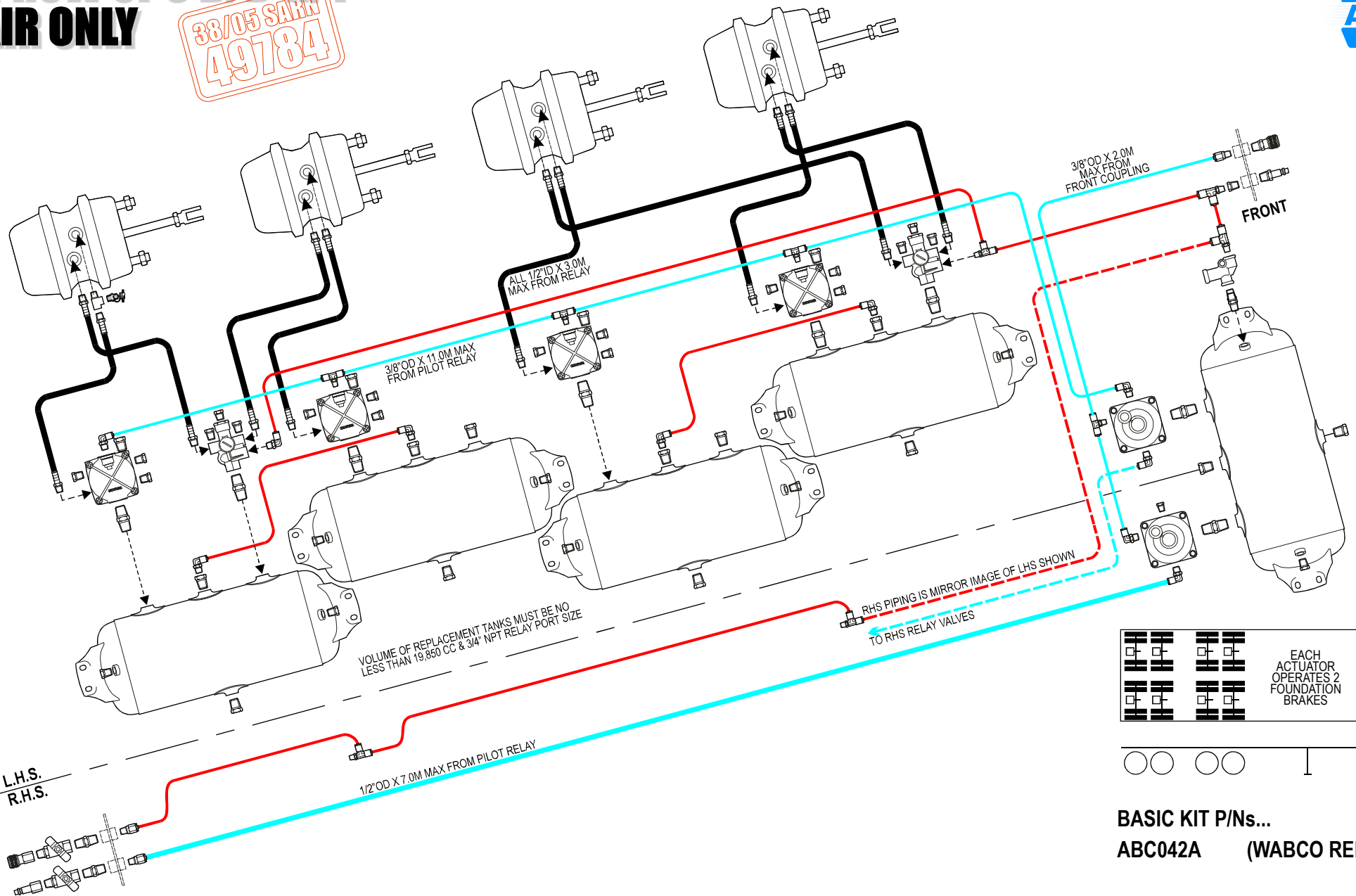
38/05 SARN
49781



BASIC KIT P/Ns...
ABC042 (WABCO RELAYS ONLY)

4 ROW OF 8 B/D-R/T AIR ONLY

38/05 SARN
49784



BASIC KIT P/Ns...
ABC042A (WABCO RELAYS ONLY)

L.H.S.
R.H.S.

SERVICE RELAY VALVES



PACIFIC 'R6'
common P/Ns
ABC279180
ABC279952
ABC280375

repair kit P/N
ABC280856



PACIFIC 'R8'
common P/Ns
ABC102170
ABC286370
ABC288221

repair kit P/N
ABC287370



PACIFIC 'R12'
common P/Ns
ABC102277
ABC102626

repair kit P/N
ABC102802



SEALCO 'LOV'
common P/N
110410 (2 port)
110415 (4 port)

repair kit P/N
N/A



WABCO
common P/N
973.011.006.0

repair kit P/N
973.011.000.2



SEALCO
common P/Ns
110451 (4 port)
116441 (6 port)

repair kit P/N

PILOT RELAY VALVES



PACIFIC 'R8P'
common P/Ns
ABC107455
ABC287144

repair kit P/N
ABC103799



PACIFIC 'R12P'
common P/Ns
ABC109001
ABC109002

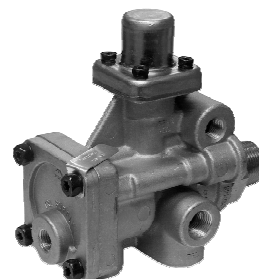
repair kit P/N
ABC109265



SEALCO 'LOV'
common P/N
110360 (2 port)
110380 (4 port)

repair kit P/N
N/A

SPRINGBRAKE CONTROL VALVES



PACIFIC
common P/Ns
ABC3802 (ADR38/02)
ABC106834 (ADR38/04)

repair kit P/Ns
ABK3802.01 (ABC3803)
ABK834 (ABC106834)



SEALCO
common P/Ns
110903 (ADR38/02)
110701 (ADR38/04)

repair kit P/Ns
110913+110915 (110903)
110705 (110701)

RELAY EMERGENCY VALVES



PACIFIC 'RE6'
common P/Ns
ABC101197
ABC281865

repair kit P/N
ABC282812



SEALCO
common P/N
110205
110470

repair kit P/N
110201

LOAD SENSING VALVES



WABCO

(for air susp'n)
475.714.500.0
*requires pre-setting
repair kit P/N
475.714.000.2



(mech susp'n)
475.713.500.0

repair kit P/N
475.713.500.0

S-CAM 'OMNI' SPRINGBRAKE



ASSY PART#	DESCRIPTION
2024TN2-2828	2024 standard double diaphragm
2424TN2-2830	2424 standard double diaphragm
2424TN2-2832	2424 severe service (boot & breather tube)
2430TN2-2833	2430 standard double diaphragm
2430TN2-3105	2430 severe service (boot & breather tube)
3030T-OMNI-466	3030 standard double diaphragm
3030T-OMNI-460	3030 severe service (boot & breather tube)
3636TN3-2624	3636 severe service (boot & breather tube)

S-CAM SERVICE



ASSY PART#	DESCRIPTION	DIAPH
12SCN0-1490	T12, 3/8" unhandd ports	100120
16SCN1-1491	T16, 3/8" unhandd ports	100160
20SCN1-1492	T20, 3/8" unhandd ports	100200
24SCN2-1493	T24, 3/8" unhandd ports	101240
30SCN2-1494	T30, 3/8" unhandd ports	100300
36SCN3-1495	T36, 3/8" unhandd ports	100360

DISC 'HOT' SPRINGBRAKE



ASSY PART#	DESCRIPTION
1216HTLD64-1707	1216 standard double diaphragm, 3/8" unhandd
1416HTLD64-2304	1416 standard double diaphragm, 3/8" unhandd
1424HTLD64-1814	1424 standard double diaphragm, 3/8" unhandd
1616HTLD64-1708	1616 standard double diaphragm, 3/8" unhandd
1624HTLD64-1815	1624 standard double diaphragm, 3/8" unhandd
1824HTLD64-2694	1824 standard double diaphragm, 3/8" unhandd
2024HTLD65-2152	2024 standard double diaphragm, 3/8" unhandd

DISC SERVICE



ASSY PART#	DESCRIPTION	DIAPH
12HSCLD64-1705	T12, 3/8" unhandd ports (sealed)	
14HSCLD64-1813	T14, 3/8" unhandd ports (sealed)	
16HSCLD64-1706	T16, 3/8" unhandd ports (sealed)	
20HSCLD65-1463	T20, 3/8" unhandd ports (sealed)	
22HSCLD65-2000	T22, 3/8" unhandd ports (sealed)	
24HSCLD65-1465	T24, 3/8" unhandd ports (sealed)	

SPARE PARTS



SIZE	DIAPH	NP PLATE	PUSHROD	CLAMP ASSY
T12	100120	1001210	1001211	1001213
T16	100160	1001610	1001611	1001613
T20	100200	1002010	1002011	1002013
T24	101240	1002410	1002411	1002413
T30	100300	1003010	1003011	1003013
T36	100360	1003610	1003611	1003613

(suit drum actuators only - all TSE 'HOT' disc actuators are fully sealed)

YOKE (1/2"pin X 1/2"thd)	1301223
YOKE (1/2"pin X 5/8"thd)	1103023
YOKE (5/8"pin X 5/8"thd)	1203023
YOKE (3/4"pin X 5/8"thd)	CP229496
YOKE (3/4"pin X 3/4"thd)	CP282592

AIR TANKS



PART#	DIAxOAL	NOM VOL	MOUNTING
215660	180x610mm	12 litres	strap mount
276785	180x420mm	9 litres	strap mount
ABR313	240x630mm*	24 litres	strap mount
ABR408	240x630mm*	24 litres	end brackets
ABR425	305x1075mm	72 litres	strap mount
ABR514	330x630mm*	48 litres	end brackets
ABR809	200x610mm	18 litres	strap mount

(* end bracket mtg hole centres are 698mm)
(contact ABC for details of other tanks sizes)

CONTACTS

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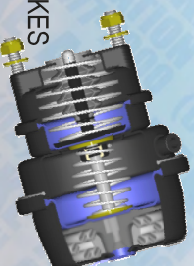
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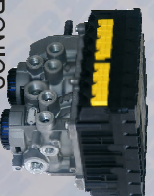
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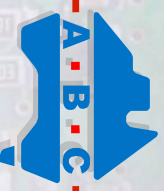
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