



- Contact Phone Numbers
- Tire Care
- Weight Distribution
- Allison Transmission Operation
- Air Brake System
- Chassis Lubrication
- Pre-Trip and Scheduled Maintenance
- Misc.



# Freightliner Custom Chassis Customer Support

1-800-FTL-HELP (800-385-4357)
24 HOURS A DAY
7 DAYS A WEEK
365 DAYS A YEAR

If you should require chassis service, *you should first contact your nearest Freightliner Chassis service center.* If for some reason this is not possible or if you would like to call the manufacturers direct, you can contact them at the following telephone numbers:

#### FREIGHTLINER CUSTOM CHASSIS CORPORATION

1-800-FTL-HELP (800-385-4357)

(Please have your VIN# ready)

#### CATERPILLAR RV ENGINE SUPPORT

1-877-777-3126

#### **CUMMINS ENGINE COMPANY**

1-800-DIESELS (800-343-7357)

**DETROIT DIESEL (MBE)** 

1-800-445-1980

### **ALLISON TRANSMISSIONS**

1-800-524-2303

#### MICHELIN TIRE

800-TIRE-HELP

(800-847-3435)

#### **GOODYEAR TIRE**

1-800-321-2136

Visit our web site at www.freightlinerchassis.com



### **Tire Care**

- What is the most important component of tire care?
  - ☐ TIRE PRESSURE



- Why?
  - Improved Ride
  - Improved Tire Wear
  - Improved Road Handling
  - Improved Braking

### **Tire Care**

The most important factor in maximizing the life of your tires is maintaining proper inflation pressure. An under inflated tire will build up excessive heat that may go beyond the prescribed limits of endurance of the rubber and the radial cords. Over inflation will reduce the tire's foot print on the road, reducing the traction, braking capacity, and handling of your vehicle. An over inflated tire will also cause a harsh ride, uneven tire wear, and will be more susceptible to impact damage.

Keep in mind that the pressure rating on the side wall of your tire is the <u>maximum</u> pressure for that tire. This is not necessarily the <u>correct</u> pressure for the tires when installed on <u>your</u> vehicle. Maintaining the correct tire pressure for <u>your vehicle's loaded weight</u> is extremely important and must be a part of regular vehicle maintenance.





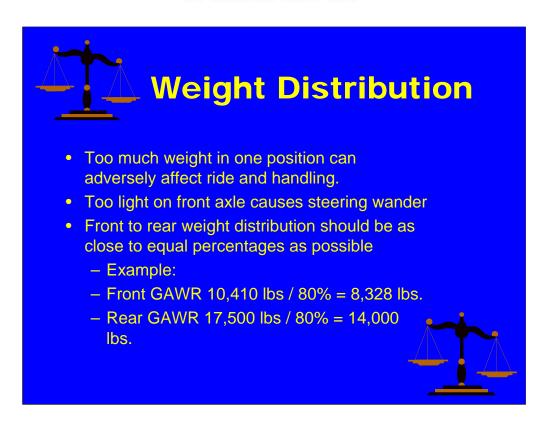
To determine the correct air pressure for your tires, load your motor home as you would normally travel, including water and fuel. Go to a truck scale as found at most truck stops and weigh <u>each wheel position</u> independently, with driver and passenger or passengers in the vehicle as described in the **Michelin Recreational Vehicle Tire Guide** (MDL40660 Rev. 1/03) or **Goodyear Recreational Tire and Care Guide** (CT-04-001-04/04) to determine the correct air pressure for the weight on each wheel position. Then use the charts in the guide and adjust the pressure accordingly when the tires are cool or have not been driven for more than one mile.

### Never reduce the air pressure in a hot tire.

**<u>Remember:</u>** For control of your RV, its critical that the tire pressure be the same on both sides of the axle!

- \*\* For a copy of the Michelin RV Tire Guide, call 1-800-847-3435
- \*\* For a copy of the Goodyear RV Tire Guide, call 1-800-321-2136





### **Weight Distribution**

The distribution of weight in your motorhome is a very important factor. Too much weight either on one side of the vehicle or too much weight in the rear compared to the front axle can adversely affect the handling characteristics of the vehicle and in some cases can result in overloading the tires or axle components. Care should be taken to assure that you maintain as much of an equal balance as possible when loading your equipment, food and other supplies into the vehicle.

The front to rear weight balance should be as close to <u>equal percentages</u> of each axle weight rating as possible (Example: Front GAWR = 10,410 lbs. / 80% = 8,328. Rear GAWR = 17,500 lbs. / 80% = 14,000 lbs. ) This type of balance provides the best handling characteristics of the vehicle. Small percentage differences will not make a great deal of difference. A unit that is too light on the front axle and heavy on the rear axle can result in wandering and porpoising, or a continued bouncing of the front of the coach after hitting a bump in the road.

By knowing what your vehicle weighs, you can determine the best location for your belongings. Simply because you can fit everything in one compartment for easy access, does not mean that this is OK. Your house is now moving down the road, so the little things like location of heavy items becomes important from more than an accessibility standpoint.



## Allison Transmission Operation

- Normal driving- Best fuel economy
  - Select "D" and "Mode On"
- Performance
  - "Mode Off"
  - For mountain driving select lower gears to maintain 2000+ engine RPM.
- Hill climbing on hot days
  - Keep RPMs high to cool engine
- Transynd used in 3000MH with chassis built date of 1/5/04



### DRIVING TIPS WITH THE ALLISON MD3060 3000MH TRANSMISSION

When driving under normal road conditions, the DRIVE mode is recommended for optimum performance and fuel economy. The MODE switch should be set to ON for economy mode but MODE off should be used when climbing hills and when extra performance is needed.

The display screen on the shift control pad will indicate the highest selected gear for the transmission. When mountainous or up and down terrain conditions occur, you should manually select a lower gear, preferably lower than 5th gear and turn OFF the mode switch. This can be done at any road speed by pressing the down arrow repeatedly until the desired gear is indicated in the window of the shifter pad and then pressing the MODE button. When your road speed decreases to a safe point, the transmission will downshift at a higher RPM than normal. This will limit the use of overdrive while pulling hills, which can produce excessive heat build-up in the transmission, and it keeps the engine operating at peak horse power and performance.

With the MT 643 and T-handle shifter, simply shift to a lower gear selection to keep the RPM's in the upper range. The transmission *will not* shift into a lower gear until it is safe for it to do so.

When ascending a grade, maintain engine speed to within 400 - 500 RPM of governed engine speed. Governed speed will be 2400-2500 RPM depending on your engine model. Road speed may decrease, but the engine will be at it's peak in the power curve.

It is especially important to monitor your water temperature gauge when climbing hills. Keep in mind, it is not unusual for the temperature to rise, especially in hot weather. If the gauge reaches the red zone or if the temperature warning light on the gauge panel should come on, reduce your road speed and shift to the next lower gear and keep your tachometer within 500 RPM of engine governed speed. In many cases this will stabilize the water temperature. If the temperature gauge continues to rise, pull over to the side of the road and shift the transmission into neutral. Bring the engine RPM to 1,700-2,000 RPM until the temperature drops down into the normal range. This should occur in a relatively short period of time. If the temperature gauge does not begin to drop and stays in the red zone or continues to rise, shut down the engine and allow it to cool. After the engine is allowed to cool, check the fluid level in the reservoir and add a 50/50 coolant and water mixture if needed.

A good "rule of thumb" for descending grades is to <u>never</u> use a higher gear than was used to climb the same or similar grade. Try to keep the engine within 500 RPM of governed speed. This will give the best engine braking and reduce the need to use the service brakes. Select a gear that will keep you at a safe speed with minimal brake application. <u>Never</u> ride your brakes when descending a grade since excessive brake heat will build up and your brakes could fade leaving you with little or no stopping power.

If your vehicle is equipped with a exhaust brake, This will also aid in slowing your vehicle on a down hill grade. With the exhaust brake switch in the ON position, when your foot is released from the accelerator, the transmission select number will change to "2". The exhaust brake will engage and the transmission will begin to down shift as soon as road and engine speed will safely allow. This will produce a slowing effect and will remain engaged until either the exhaust brake switch is turned off, the accelerator is depressed or the transmission shifts to second gear. If your initial speed is high, you may have to step on the brake to slow the vehicle before the transmission will down-shift from 6<sup>th</sup> gear to 5<sup>th</sup> gear. This is normal.



# **Allison Transmission Fluid Level Check**

- Transmission at operating temperature
- Press up and down arrow keys simultaneously
- Wait for 2 minute "count-down"
- Display indicates OL
  - "OL OK" indicates good oil level
  - "OL HI" followed by number indicates quarts over-filled
  - "OL LO" followed by number indicates. quarts under-filled.
  - "OL 70" transmission not up to operating temperature



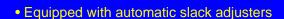
Transmission must be at operating temperature. Coach must be on level ground.



### **Brake System**



- Rear brakes act as parking brake.
  - Spring applied
  - Holding power of two large drum brakes
  - Park brake will not release in event of air pressure loss
- In the event of an air pressure loss
  - Warning lamp and buzzer will warn you





The rear brakes on the Freightliner chassis are also used as the parking brakes. This gives you the holding power of two large drum brakes to keep your coach from rolling even when fully loaded on a 20% grade.

A loss in air pressure will not result in an immediate loss of brakes. If a leak develops in the air system while driving, (at approximately 60 to 65 PSI) you will be alerted by a light on the instrument panel and an audible alarm. As you apply the brakes, the air supply holding the brakes in the released position will gradually be depleted. When fully depleted, (approximately 40 PSI to 45 PSI) the rear brakes will set. This gives you plenty of time to pull over to the side of the road.

NOTE: (The rear brakes have dual chambers, one for the service brakes and one for the park brake. The service brake's are air applied and spring released. The park brake is spring applied and air released.)

Equipped with automatic slack adjusters that eliminate the need to manually adjust your brakes. Each time you step on the brake pedal, if adjustment is needed, the adjusters take up the slack. That is all there is to it.



### **Air Dryer**



- Removes moisture and oil from compressed air
- Spin-on desiccant cartridge to remove moisture
- Internal coalescing filter to remove oil

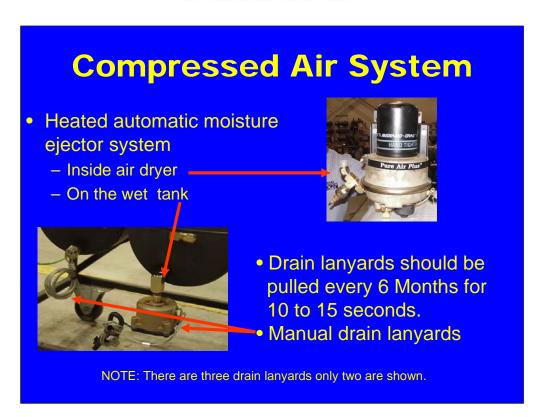


11/28/03 36 months

Freightliner chassis air brake systems are equipped with an air dryer to remove the condensed moisture from compressed air. The air dryer is equipped with a spin-on desiccant cartridge that is scheduled to be changed every 18 months. Inside this is a coalescing filter that should be changed every 18 months. The dryer is located either on the right hand frame rail (behind the rear axle) or between the frame rails (behind the rear axle) on later models. Chassis built on or after 11/28/03 have a PURest Dryer with a scheduled change interval of 36 months.

(WARNING: Air Tanks should be bled of all pressure any time you work on the air system)





Freightliner chassis are equipped, as standard equipment, with a heated automatic moisture ejector on the wet tank in addition to one built into the air dryer. This eliminates the need to climb under the coach to drain air and water from the tanks daily. You still must pull all three drain lanyards for 10 to 15 seconds every 6 Months to drain moisture. A fine mist is normal due condensation. If a large amount of moisture is present it should be completely drained, and the air dryer serviced. Moisture in the braking system can cause brake system failure and is not covered by the manufacturers warranty.



### Exhaust & Compression Brake & Variable Geometry Turbo

- Improves braking power
- Reduces chances of overheating brakes on steep grades
- Works in conjunction with Allison electronic transmissions
- Illuminates brake lamps with 5 & 6 Speed Allison
- Compression brake allows for 3 or 6 cylinder use.





**Cummins ISB VGT** 

**Exhaust Brake** 

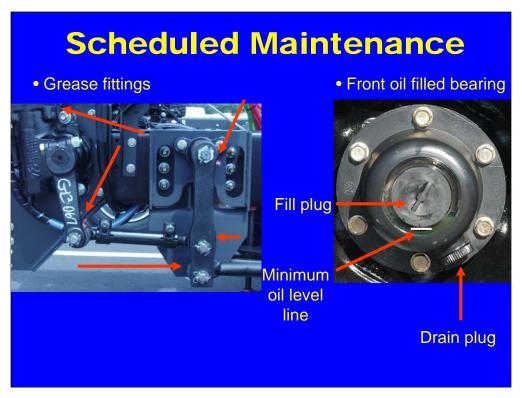


**Compression Brake** 

All brakes build up heat when being used due to friction, this is normal. However, excessive use of the brakes when descending a grade can result in excessive heat and can cause "brake fade" or a loss of braking power, even with disc brakes. The correct way to use your brakes is to go slowly enough that a fairly light occasional use of the brakes will keep your speed from increasing. Do not maintain continual brake pedal pressure when descending a hill with any type of brake system. Instead, down shift the transmission to slow the vehicle and make light, intermittent brake applications to control down hill speeds. By utilizing the transmission gears and/or the VGT, Exhaust Brake, or Compression Brake (if so equipped), continual use of the brakes will not be necessary. When using the transmission's lower gears to slow the vehicle on hills, be careful not to exceed the governed speed of your engine. If engine-governed speed is exceeded, the transmission will shift up to the next range, rapidly increasing the speed of your vehicle. If you find that you are continually using the brakes to maintain a safe speed and to keep the RPMs within this range, slow the vehicle down even further and shift the transmission to a lower gear.

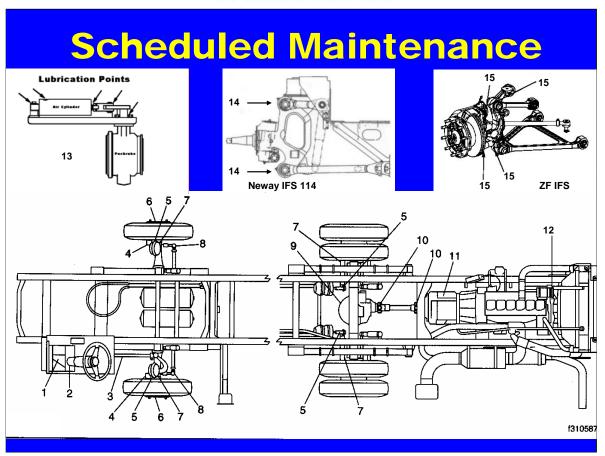
Caution: Do Not Use the VGT, Exhaust Brake, or Compression Brake on wet roads or slippery conditions.





Oil and filter change.	Engine fuel filter change
Cat 3126 & 3126B Ser # Prefix 1WM & 7AS	
19 Qt Pan 9,000 mi or 1yr which ever occurs 1st.	9,000 miles or 1 year which ever occurs first.
Cat 3126B &E & C7 Ser # Prefix 7AS, 8YL, 9SZ CKM	
22 Qt Pan 11,000 mi or 1 yr which ever occurs 1st.	11,000 miles or 1 year which ever occurs first.
Cat C7 Ser # SAP02740 & up Built after 3/14/05	
19 Qt Pan 11,000 mi or 1 yr which ever occurs 1st	11,000 miles or 1 year which ever occurs first.
Cum B5.9L&C8.3L 6,000mi or 6 mo which ever occurs 1st.	12,000 miles or 6 months which ever occurs first.
	15,000 miles or 1 year which ever occurs first.
Cum ISB, ISC 15,000 mi or 1 yr which ever occurs first.	ISB02 Fuel Strainer 12,000 mi or 1 yr which occurs 1st
Cum ISL 18,000 mi or 1 yr which ever occurs fist.	18,000 miles or 1 year which ever occurs first.
Cum ISM 7,000 mi or 6 mo which ever occurs fist.	7,000 miles or 6 months which ever occurs fist.
MBE 900 15,000 mi or 1yr which ever occurs first	15,000 mi or 1yr which ever occurs first
Recommended Fluid Types	
Engine Oil	Transmission Fluid
Caterpillar, Cummins & MBE Engines	MT643, MD3060, 1000/2000 Series, 3000/4000MH
Outside air temperature between + 5 F & + 122 F	Dexron III or Trans Synd
SAE 15W-40 CI-4,CH-4, CG-4 or CF-4	2000MH TransSynd
Rear Axle Differential & Front Wheel, Oil Lubricated	
Wheel Bearings	Hydraulic System Reservoir
SAE 80-90W Gear Lubricant	Rear Radiator Dexron III Side Radiator 15W40 Cl-4
Front Axle Spindle Pins, Tie Rods, Drag Link,	Front & Rear Wheel Bearings, Brake Camshafts,
Intermediate Steering Shaft & Gear	Auto Slack Adjusters & Universal Joints.
Multi-Purpose Grease NLGI Grade 1 or 2	Multi-Purpose Grease NLGI Grade 1 or 2
Brake Caliper Slides (Hydraulic Brakes)	Pac Brake Exhaust Brake
Aeroshell Grade 5 ( ES-1246) Grease	Pac Brake Synthetic Lube or Synco Super Lube





One very important area of regular, scheduled maintenance, is the lubrication of various points on the chassis steering, braking and suspension systems. The above chart points out these locations. The lubrication intervals and lubricant specifications are listed in your owners manual and on the attached pages for your particular chassis. Lubrication does not have to be performed by a authorized service dealer, but the dates and mileage of lubrication and general service should be recorded for future reference.

No.	Text Ref. No.	Components	Remarks	Total
1	1 46-05 Steering Gear		One Grease Fitting	1
2	46-04	Steering Shaft	Three grease fittings; lubricate both universal joints	3
			and the slip joint spline	
3	46-01	Drag Link & Bell Crank	Two grease fittings per drag link; one on each end,	5
			and one on bell crank housing	
4	33-01	Knuckle Pins	Two grease fittings; one on top and one on bottom	4
			of knuckle pin. Lubricate both sides of axle.	
5	42-05	Automatic Slack Adjusters	One Grease Fitting; Lubricate boths sides of front and rear axle	4
6	33-04	Grease Lubricated Wheel	Inspect, repack and adjust inner and outer bearings	
		Bearings, Front Axle	on both sides of front axle	
7	42-04	Brake Camshaft Bracket	One grease fitting; Pump in grease until it appears at the slack adjuster	4
			end of the bracket. Lubricate both sides of the front and rear axles.	
8	33-02	Tie Rod	One grease fitting; one on each end of tie rod	2
9	35-01	Rear Axle	Check fluid level; add fluid if low (35-02)	
	35-02		Change fluid when required (35-01)	
10	41-01	Driveshaft	Three grease fittings; lubricate both universal joints & slip joint spline	3
11	26-02	Automatic Transmission	Change fluid when required (35-01)	
12		Caterpillar Fan Drive Pulley	One grease fitting; on top of fan drive pulley on Engines built prior to 1/03/03	1
		Note: 3126E Serial # HEP	15357 & above, and all C7's, and all side radiator NO Grease fitting.	
13		Pacbrake Exhaust brake	Lubricate the five points indicated	
14	32-04	Neway Ind. Front Susp.	Two grease fittings; One on top & bottom of knuckle post, lubricate both	4
			side of suspension	
15		ZF Ind. Front Susp.	Four grease fittings; one on top and bottom steering knuckle, and one on	8
			top and bottom control arm. Lubricate both sides of suspension.	



### **Scheduled Maintenance**

MAINTENANCE SCHEDULE	MILEAGE INTERVALS						
SERVICE INTERVALS	1,000	6,000	10,000	15,000	20,000	25,000	50,000
•Check and add lubricant if necessary to front oil filled wheel bearings.	Х		•		,		
(Oil Seals) drain and refill at least once a year.							
•Check and add lubricant if necessary to front wheel bearings.							
every (Grease filled bearings)				Х			
•Check air intake system for damage, cracked hoses, & loose clamps.		Х					
•Check wheel lug nut torque the first 50 & 500 mi. then every 5,000 mi.		Х					
Inspect fan & fan shroud every 12 months or:					Х		
•Check belt tensioner bearing.					Х		
Check air restriction indicator when refueling, replace air cleaner							
element when the indicator reaches 25"or 2 Yrs which ever occurs first							
Change automatic transmission fluid & filters AT542							
MT643 every 12 months or:						Х	
Change automatic transmission fluid & filters							
1000/2000/2000MHRefer to Allison Owners Manual (1)							
•Change automatic transmission filters MD3060 3000/4000MH							
the first 5,000 See Allison Op. Man. for Change Reccomendation (1)							
•Lubricate Brake Caliper slides the first 5,000 miles							
then every 12 months or: ( Hydraulic Disc Brakes Only)				х			
•Lubricate steering linkage & drive shaft U-joints, air							
brake camshafts slip yoke & brake linkage.		Х					
•Lubricate front axle king pins the first 5,000 mi. then every 12 mos.							
•Lubricate PacBrake exhaust brake as needed, or every 6 months.							
•Rotate tires if required			Х				
•Replace fuel water separator every 12 months or every oil change							
•Check/Clean electrical ground connections every 12 months		Х					
•Inspect drive belts for condition & tension every 6 mos. 0r 6,000 mi.							
•Check rear axle lubricant every 6,000 miles.							
•Change rear axle lubricant (Meritor) every 12 mos.							
•Check coolant SCA's & freeze point, hoses, clamps every 6 mos							
•Replace coolant every 24 months or 60,000 mi 2001 MY and prior							
•Replace coolant every 60 months or 100,000 mi 2002 MY chassis (2)							
•Replace air dryer coalescing & desiccant filter every 18 months (3)							
•Replace desiccant cartridge every 36 mos (4)							
Check hydraulic fluid reservoir level every 6 mos. or 6,000 mi.							
•Change hydraulic fluid & filter every 2 yrs. or 24,000 mi.							
•Change power steering fluid & filter every 1 yr. or 12,000 mi.							
•Check and clean charge air cooler as required.	haaaia	build a	Jose A/E/	0.4			
(1) Transynd Fluid always used in 2000MH. Transynd used in 3000MH (2) SCA level and fragge point much be already and reachers of the pro-					F 000 ===	:1	
(2) SCA level and freeze point must be checked and recharged to proportion whichever occurs first to achieve this interval.	er ievel	s ever	y o mon	urs or 2:	5,000 <b>m</b> .	nes	
(3) This interval applies to Midland/Haldex Pure Air Plus Dryer		.4 ! 4 ! .	<b>.</b>	 	4- 4450	(0.2	
(4) This Interval applies to CR, and Haldex PURest Dryer's.PURest drye							
Note: This is a list of the most common maintenance items. Additional	ı maint	enance	з тау б	e require	ea. Cne	ck the	
appropriate operation and maintenance manuals for more information.							



### **Authorized Service Parts**

- Customers may perform their own service
  - Maintain accurate records
  - Does not void warranties
- Genuine parts ensure quality

Parts should be ordered using your chassis VIN to ensure correct parts.

### Note:

Part numbers are accurate at time of printing and subject to change without notice!

www.accessfreightliner



### www.accessfreightliner.com

To apply for a password

Go to new fleet user.

Fill out all information including chassis vin#

Submit information

10 days to 2 weeks you should receive a password

This will give you access to
Parts Pro
EZ Wiring
Literature

NOTE: If your password is not used within 90 days You will have to re-apply for a new password.

Part Description   Engine Oil Filter   Fleetguard   LF 3349	THE LEADER AT EVERY TURN						
Cummins BS.9.L         Fleetguard         LF 3049           Cummins ISB         Fleetguard         LF 3009           Cummins ISB         Fleetguard         LF 9009           Cummins ISB         Fleetguard         LF 3970           Cummins ISB         Fleetguard         LF 3970           Caterpillar 3126, 3126B, 3126E & C7         Caterpillar         1R-1807           MRE 926 (Centrifugal)         Detroit Diesel         DDE900180709           MBE 926 (Centrifugal)         Detroit Diesel         DDE9061810086           Art Cleaner Element         Farr         End Inlet 114810-003           Cum BS.9L,1SB; Cat 3126, 3126B&E, C7, MBE         Farr         Side Intel 114810-007           Fired         Farr         Slote Intel 114810-007           Cummins ISC & ISL         Farr         Side Intel 062891-002           Fired         Farr         Side Intel 062891-002           Fired         Farr         Side Intel 062891-002           Cummins ISC & ISL         Farr         Side Intel 062891-002           Cummins ISC at SL         Farr         Side Intel 062891-002           Cummins ISC at SL         Farr         Side Intel 062891-002           Cummins ISC at ISL         Farr         Side Intel 062891-002           Cummins	Part Description	Manufacturer	Part Number				
Cummins CB.1, LISC, ISL, ISM         Fleetguard         LF 3000           Cummins ISB. (Used after Jan 2005)         Floetguard         LF 9970           Cummins ISB 02         Fleetguard         LF 3729           Cummins ISB 03         Caterpillar 3186, 3126B 5126E & C7         Caterpillar 18, 1807           MBE 926 (Centrifuge)         Detroit Diesel         DDE0001801709           MBE 926 (Centrifuga)         Detroit Diesel         DDE0001801709           MBE 926 (Centrifuga)         Farr         End Intel 114810-003           Air Cleaner Element         Farr         Side Intel 114810-003           Cum BS 91,185; Cat 3126, 3126B&C, C7, MBE         Farr         Side Intel 114810-003           Fred         Farr         Side Intel 114810-003           Cummins ISC & ISL         Farr         Side Intel 062891-002           Fred         Farr         Side Intel 062891-002           Cummins ISC & ISL         Farr         Side Intel 062891-002           Cummins ISC & ISL         Firetguard         FF 5052           Cummins ISC & ISL         Firetguard         Spin On F 519519           Cummins ISC & ISL Intel 0587 intel 0587 intel 0588 intel 068888           Cummins ISC & ISL Intel 0587 intel 0588 intel 0588 intel 05888 intel 0588 intel 0588 intel 058	Engine Oil Filter	•	·				
Cummins ISL (Used after Jan 2005)         Fleetguard         LF 9009           Cummins ISB 02         Fleetguard         LF 3729           Cummins ISB 02         Fleetguard         LF 3729           Caterpillar 3126, 3126B, 3126E & C7         Caterpillar         1R-1807           MBE 926 (Cartridge)         Detroit Diesel         DDE5001891709           MBE 926 (Cartridge)         DE5001810086         DE50018110086           Alf Cleaner Element         Far         End Intel 114810-003           Cum B5.9L.1SB: Cat 3126, 3126B&E, C7.MBE         Farr         Side Intel 11480-003           Fred         Farr         Side Intel 14810-003           Fred         Farr         Side Intel 062891 001           Cummins ISC at ISL         Farr         Side Intel 062891 001           Cummins ISM         Farr         Side Intel 062891 001           Cummins ISS Be Element         Fleetguard         FF 5052           Cummins ISB Element         Fleetguard         Spin-On FS 19819           Cummins ISB Cat IL Inc Strainer         Racor         RAI-025RAC10           Cummins ISC at ISL Remote Mid.         Fleetguard         Spin On FS 1002           Cummins ISC Caterpillar Cricusinyater Sep) 2 Mic         Alliance         ABP-32FRT03           Caterpillar (FuelWater Sep) 3 M	Cummins B5.9L	Fleetguard	LF 3349				
Cummins ISB 02	Cummins C8.3L, ISC, ISL, ISM	Fleetguard	LF 3000				
Cummins ISB 02	Cummins ISL ( Used after Jan 2005)	Fleetguard	LF 9009				
Caterpillar 3126, 3126B, 3126E & C7	Cummins ISB	Fleetguard	LF 3970				
MBE 926 (Cartridge)	Cummins ISB 02	Fleetguard	LF 3729				
MBE 926 (Centrifugal)	Caterpillar 3126, 3126B, 3126E & C7	Caterpillar	1R-1807				
Air Cleaner Element Cum B5.9L;IS;B; Cat 3126, 3126B&E, C7, MBE Cum B5.9L;IS;B; Cat 3126, 3126B&E, C7, MBE Cum B5.9L;IS;B; Cat 3126, 3126B&E, C7, MBE Fred Farr I14810 007 Cummins ISC & ISL Farr Side Inlet 114810-003 Side Inlet 062891-001 Fred Farr Side Inlet 062891-002  Fuel Filter (Engine Mounted)  Cummins ISM Fuel Filter (Engine Mounted)  Cummins B5.9L & C8.3L Fleetguard FF 5052 Cummins ISB Fleetguard Fileetguard Fileetguard Frop Load F5 19579 Cummins ISB Element Fleetguard Fileetguard Fileetguard Fileetguard Fileetguard Spin-On F5 19579 Cummins ISB 20 In Line Strainer Racor RA-025RAC-10 Cummins ISC & ISL Remote Mtd. Fileetguard Spin On F5 1002 Cummins ISC & ISL Remote Mtd. Fileetguard Spin On F5 1002 Cummins ISL Fileetguard Spin On F5 1002 Cummins ISL Fileetguard Spin On F5 1003 Caterpillar C7 (Secondary - Engine Mtd.) Caterpillar C7 (Secondary - Engine Mtd.) Caterpillar C7 (Fileet/Water Sep) 2 Mic Caterpillar C7 (Fileet/Water Sep) 30 Mic Alliance ABP-32FRT03 Caterpillar C7 (Fileet/Water Sep) 30 Mic Alliance ABP-32FRT03 Cummins ISB 02 FWS Remote Fileetguard Spin On F5 19596 Fileetguard Fileetguar	MBE 926 (Cartridge)	Detroit Diesel	DDE0001801709				
Cum B5.9L;ISB; Cat 3126, 31268&E, C7, MBE         Farr         Side inlet 114810-003           Cum B5.9L;ISB; Cat 3126, 31268&E, C7, MBE         Farr         Side inlet 114880-003           Fred         Farr         114810 007           Cummins ISG         Farr         Side inlet 062891 002           Cummins ISM         Farr         Side inlet 062891-002           Fuel Filter (Engine Mounted)           Cummins B5.9. & C8.3.1         Fleetguard         F5052           Cummins ISB Blement         Fleetguard         Spin-On F5 19519           Cummins ISB Cummins ISB Culture Strainer         Racor         RA-025RAC10           Cummins ISB Q1 Line Strainer         Racor         RA-025RAC10           Cummins ISB Q2 Line Strainer         Fleetguard         Spin On F5 1022           Cummins ISB Q2 Line Strainer         Fleetguard         Spin On F5 1022           Cummins ISB Q2 Line Strainer         Fleetguard         Spin On F5 1022           Cummins ISB Q2 Line Strainer         Alliance         ABP-32FRT03           Caterpillar C7 (Jecondary - Engine Mtd.)         Caterpillar         Spin On F5 1022           Caterpillar (Fuel/Water Sep) 30 Mic         Alliance         ABP-32FRT03 <td c<="" td=""><td>MBE 926 (Centrifugal)</td><td>Detroit Diesel</td><td>DDE9061810086</td></td>	<td>MBE 926 (Centrifugal)</td> <td>Detroit Diesel</td> <td>DDE9061810086</td>	MBE 926 (Centrifugal)	Detroit Diesel	DDE9061810086			
Cum B5.9L;ISB, Cat 3126, 3126, 3126, 3126, 3126, 3126, 3126         Farr         114810 007           Cummins ISC & ISL.         Farr         Side Inlet 114880-003           Cummins ISM         Farr         Side Inlet 062891 001           Fuel Filter ( Engine Mounted)           Cummins B5.9L & C8.3L         Fleetguard         FF 5052           Cummins ISB Element         Fleetguard         Spin-On FS 19519           Cummins ISB Element         Fleetguard         Top Load FS 19579E           Cummins ISB Lamote Mtd.         Fleetguard         Spin On FS 1922           Cummins ISL ( Used after Jan 2005)         Fleetguard         Spin On FS 1003           Caterpillar CF (Secondary - Engine Mtd.)         Caterpillar         Spin On FS 1003           Caterpillar (Fuel/Water Sep) 2 Mic         Alliance         ABP-322FR103           Caterpillar (Fuel/Water Sep) 30 Mic         Alliance         ABP-322FR104           Cummins ISB 02 FWS Remote         Fleetguard         Spin On FS 19596           Fleetguard         Spin On FS 1003           Caterpillar (Fuel/Water Sep) 30 Mic         Alliance         ABP-322FR104           Caterpillar (Fuel/Water Sep) 4 Mic (5.9 ISB)         Fleetguard         Spin On FS 1	Air Cleaner Element						
Fred	Cum B5.9L;ISB; Cat 3126, 3126B&E, C7, MBE	Farr	End Inlet 114810-003				
Cummins ISM         Farr         Side Inlet 062891 001           Cummins ISM         Farr         Side Inlet 062891-002           Fuel Filter (Engine Mounted)           Fuel Filter (Engine Mounted)           Cummins B5.04. & C8.31.         Fleetguard         Fp 5052           Cummins ISB Element         Fleetguard         Spin On FS 19579E           Cummins ISB C2 In Line Strainer         Racor         RAI-025RAC10           Cummins ISB C2 Is Is Remote Mtd.         Fleetguard         Spin On FS 1022           Cummins ISB C2 St Is Remote Mtd.         Fleetguard         Spin On FS 1022           Cummins ISB C2 St Is Remote Mtd.         Caterpillar Cf (Secondary - Engine Mtd.)         Caterpillar Cf Spin On FS 1022           Caterpillar Cf (Secondary - Engine Mtd.)         Caterpillar Cf Spin On FS 1003           Caterpillar Cf (Secondary - Engine Mtd.)         Alliance         ABP-322FRT03           Caterpillar Cf (Secondary - Secondary - Secondary - Secondary	Cum B5.9L;ISB; Cat 3126, 3126B&E, C7,MBE	Farr	Side Inlet 114880-003				
Fuel Filter   Engline Mounted    Fuel Filter   Engline Mounted	Fred	Farr	114810 007				
Fuel Filter ( Engine Mounted)   Fleetguard   FF 5052	Cummins ISC & ISL	Farr	Side Inlet 062891 001				
Cummins B5.9L & C8.3L	Cummins ISM	Farr	Side Inlet 062891-002				
Cummins ISB         Fleetguard         Spin-On FS 19519           Cummins ISB Element         Fleetguard         Top Load FS 19579E           Cummins ISB Oz In Line Strainer         Racor         RAI-U25RAC10           Cummins ISC & ISL Remote Mtd.         Fleetguard         Spin On FS 5488           Cummins ISL         Fleetguard         Spin On FS 1022           Cummins ISL ( Used after Jan 2005)         Fleetguard         Spin On FS 1003           Caterpillar C7 (Secondary - Engine Mtd.)         Caterpillar         Spin On FS 1003           Caterpillar C7 (Secondary - Engine Mtd.)         Alliance         ABP-32FRT03           Caterpillar (Fuel/Water Sep) 2 Mic         Alliance         ABP-32FRT03           Caterpillar C7 (Fuel/Water Sep) 30 Mic         Alliance         ABP-32FRT03           Caterpillar C7 (Fuel/Water Sep) 30 Mic         Alliance         ABP-32FRT03           Cummins ISB 02 FWS Remote         Fleetguard         Spin On FS 19596           Fuel/Water Seperator - Remote Mtd (5.9 ISB)         Fleetguard         FS 1242           Fuel/Water Seperator - Remote Mtd 30 Mic (C7)         Alliance         ABP-32FRT01           MBE (Fuel Water Separator)         Detroit Diesel         DDE 00009901551           MBE (Fuel Water Separator)         Detroit Diesel         ABP N122 R50418           <	Fuel Filter ( Engine Mounted)						
Cummins ISB Element Cummins ISB 02 In Line Strainer Cummins ISB 02 In Line Strainer Cummins ISC & ISL Remote Mtd. Fleetguard Cummins ISL Fleetguard Spin On FS 5488 Cummins ISL Cummins ISL ( Used after Jan 2005) Fleetguard Spin On FS 1022 Cummins ISL ( Used after Jan 2005) Fleetguard Spin On FS 1003 Caterpillar C7 (Secondary - Engine Mtd.) Caterpillar (Fuel/Water Sep) 2 Mic Caterpillar (Fuel/Water Sep) 30 Mic Alliance ABP-322FRT03 Alliance ABP-322FRT03 Alliance ABP-322FRT03 Alliance ABP-322FRT04 Caterpillar (F(Fuel/Water Sep) 30 Mic Alliance ABP-322FRT05 Fleetguard Spin On FS 19596 Fuel/Water Seperator - Remote Mtd (5.9 ISB) Fleetguard Fieldy Fleety Fuel/Water Seperator - Remote Mtd 30 Mic (C7) Alliance ABP-32FRT01 Alliance ABP-32FRT01 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Water Separator) Detroit Diesel ABP N122 R50418 MBE (Fuel Water Separator, Bowl) Detroit Diesel ABP N122 R50418 MBE (Fuel Water Separator, Bowl) Fleetguard FG CC2602B SCA Coolant Filter 8 to 20 Gallons Fleetguard FG CC2602B SCA Pre Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter  Allison 1000, 2000 & 2000MH Allison MD3060,3000MH,HD4060,4000MH Allison Allison MD3060,3000MH,HD4060,4000MH Allison Internal 29545776 Allison MD3060,3000MH,B 4000MH Deep Sump Allison MT643 (Remote Mounted) Fleetguard Fietguard Fietguard Fietguard FG CC2602B Allison MT643 (Remote Mounted) Fleetguard Fietguard Fietguard FG CC2602B Fleetguard F	Cummins B5.9L & C8.3L	Fleetguard	FF 5052				
Cummins ISB 02 In Line Strainer         Racor         RAI-025RAC10           Cummins ISC & ISL Remote Mtd.         Fleetguard         Spin On FS 5488           Cummins ISL (Used after Jan 2005)         Fleetguard         Spin On FS 1003           Caterpillar CF (Secondary - Engine Mtd.)         Caterpillar         Spin On TS 1003           Caterpillar (Fuel/Water Sep) 2 Mic         Alliance         ABP-32FRT03           Caterpillar CT/Fuel/Water Sep) 30 Mic         Alliance         ABP-32FRT03           Caterpillar CT/Fuel/Water Sep) 30 Mic         Alliance         ABP-32FRT03           Cummins ISB 02 FWS Remote         Fleetguard         Spin On FS19596           Fuel/Water Seperator - Remote Mtd (5.9 ISB)         Fleetguard         FS 1242           Fuel /Water Seperator - Remote Mtd 30 Mic (C7)         Alliance         ABP-32FRT01           MBE (Fuel Filter)         Detroit Diesel         DE 0000901351           MBE (Fuel Filter)         Detroit Diesel         DE 0000901551           MBE (Fuel Water Separator, Bowl)         Detroit Diesel         ABP N122 R50418           MBE (Fuel Water Separator, Bowl)         Detroit Diesel         ABP N122 R50418           MBE (Fuel Water Separator, Bowl)         Detroit Diesel         RAI RR 30063           Coolant Filter 8 to 20 Gallons         Fleetguard         FG C266028	Cummins ISB	Fleetguard	Spin-On FS 19519				
Cummins ISC & ISL Remote Mtd. Cummins ISL Caterpillar C7 (Secondary - Engine Mtd.) Caterpillar C7 (Secondary - Engine Mtd.) Caterpillar C7 (Secondary - Engine Mtd.) Caterpillar C7 (Fuel/Water Sep) 20 Mic Caterpillar C7 (Fuel/Water Sep) 30 Mic Caterpillar C7 (Fuel/Water Sep) 30 Mic Cummins ISB 02 FWS Remote Fleetguard FS 1242 Cummins ISB 02 FWS Remote Fleetguard FS 1242 Fuel /Water Seperator - Remote Mtd (5.9 ISB) Fleetguard FS 1242 Fuel /Water Seperator - Remote Mtd 30 Mic (C7) MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Water Separator, Bowl) Detroit Diesel DDE 0000901551 MBE (Fuel Water Separator, Bowl) Detroit Diesel ABP N122 R50418 DBE (Fuel Water Separator, Bowl) Cooling System  SCA Coolant Filter 8 to 20 Callons Fleetguard FG WF2071 SCA Liquid 1 Pint Bottle Penray Penray Pic 3000 16 Coolant Test Strips Fleetguard FG C2602B SCA Pre Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison MD3060,3000MH, HD4060,4000MH Allison MD3060,3000MH, HD4060,4000MH Allison MISON MT643 (Remote Mounted) Fleetguard Fileetguard Spin On 129539579 Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter Midland or Haldex Pure Air Plus Haldex Haldex Kit# D60626 Haldex PURest Filter Kit Haldex Kit# D60605 Haldex PURest Filter Kit Haldex Kit# DA331115 VC & VCL Chassis Freightliner Hydraulic Filter In Line (Rear Radiator wr/RW Gear) 25 Mic Metal Tank (Side Radiator Only) Fleetguard Freightliner Fleetguard Freightliner	Cummins ISB Element	Fleetguard	Top Load FS 19579E				
Cummins ISL ( Used after Jan 2005)   Fleetguard   Spin On FS 1022	Cummins ISB 02 In Line Strainer	Racor	RAI-025RAC10				
Cummins ISL ( Used after Jan 2005)         Fleetguard         Spin On FS 1003           Caterpillar C7 (Secondary - Engine Mtd.)         Caterpillar         Spin On 1R-0751           Caterpillar (Fuel/Water Sep) 2 Mic         Alliance         ABP-32FRT03           Caterpillar C7(Fuel/Water Sep) 30 Mic         Alliance         ABP-8322FRT02           Cummins ISB 02 FWS Remote         Fleetguard         Spin On FS19596           Fuel/Water Seperator - Remote Mtd (5.9 ISB)         Fleetguard         F5 1242           Fuel Water Seperator - Remote Mtd 30 Mic (C7)         Alliance         ABP-32FRT01           MBE (Fuel Filter)         Detroit Diesel         DDE 0000901551           MBE (Fuel Filter)         Detroit Diesel         DDE 0000901551           MBE (Fuel Water Separator)         Detroit Diesel         ABP N122 R50418           MBE (Fuel Water Separator, Bowl)         Detroit Diesel         RAI RR 30063           Cooling System           SCA Coolant Filter 8 to 20 Gallons         Fleetguard         FG WF2071           SCA Liquid 1 Pint Bottle         Penray         PIC 3000 16           Cooling System           SCA Pro Charged Antifreeze 1 Gallon         Alliance         OW1ALA003           Transmission Filter           Allison M036	Cummins ISC & ISL Remote Mtd.	Fleetguard	Spin On FS 5488				
Caterpillar C7 (Secondary - Engine Mtd.)  Caterpillar (Fuel/Water Sep) 2 Mic Caterpillar (Fuel/Water Sep) 30 Mic Caterpillar C7(Fuel/Water Sep) 30 Mic Alliance ABP-322FR102 Cummins ISB 02 FWS Remote Fleetguard Filetguard FS 1242 Fuel/Water Seperator - Remote Mtd (5.9 ISB) Fleetguard FS 1242 Fuel Water Seperator - Remote Mtd 30 Mic (C7) Alliance ABP-32FR101 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Water Separator) MBE (Fuel Water Separator) Detroit Diesel ABP N122 R50418 MBE (Fuel Water Separator) Detroit Diesel ABP N122 R50418 MBE (Fuel Water Separator) Cooling System  SCA Coolant Filter 8 to 20 Gallons Fleetguard FG WF2071 SCA Liquid 1 Pint Bottle Penray PIC 3000 16 Coolant Test Strips SCA Pec Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison Allison Internal 29545776 Allison MD3060,3000MH,HD4060,4000MH Allison Internal 29545779 Allison MT643 (Remote Mounted) Fleetguard Filetguard Filetgua	Cummins ISL	Fleetguard	Spin On FS 1022				
Caterpillar (Fuel/Water Sep) 2 Mic Caterpillar C7(Fuel/Water Sep) 30 Mic Alliance ABP-322FRT03 Alliance ABP-3226FL02 Cummins ISB 02 FWS Remote Fuel/Water Seperator - Remote Mtd (5.9 ISB) Fleetguard Fuel/Water Seperator - Remote Mtd 30 Mic (C7) Alliance ABP-32FRT01 Fuel Water Seperator - Remote Mtd 30 Mic (C7) Alliance ABP-32FRT01 Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 DDE 0000901551 DDE 00000901551 DDE 0000901551 DDE 00000901551 DDE 0000901551 DDE 00000901551 DDE 0000901551 DDE 00000901551 DDE 0000901551 DDE 0000901551 DDE 0000901551 DDE 0000901551	Cummins ISL ( Used after Jan 2005)	Fleetguard	Spin On FS 1003				
Caterpillar C7(Fuel/Water Sep) 30 Mic  Cummins ISB 02 FWS Remote Fleetguard Fleetguard Fleetguard FS 1242 Fuel (Water Seperator - Remote Mtd (5.9 ISB) Fleetguard FS 1242 Fuel (Water Seperator - Remote Mtd 30 Mic (C7) Alliance ABP-332FRT01 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901551 MBE (Fuel Water Separator) Detroit Diesel DDE 0000901551 MBE (Fuel Water Separator, Bowl) Cooling System  SCA Coolant Filter 8 to 20 Gallons Fleetguard FG WF2071 SCA Liquid 1 Pint Bottle Penray PIC 3000 16 Coolant Test Strips Fleetguard FG CC2602B SCA Pre Charged Antifreeze 1 Gallon Allison OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison Allison MD3060,3000MH,HD4060,4000MH Allison Allison Internal 29545776 Allison 3000MH & 4000MH Deep Sump Allison MD3060,3000MH,HD4060,4000MH Allison Allison MF43 (Remote Mounted) Fleetguard Fieetguard Fieetgu	Caterpillar C7 (Secondary - Engine Mtd.)	Caterpillar	Spin On 1R-0751				
Caterpillar C7(Fuel/Water Sep) 30 Mic  Cummins ISB 02 FWS Remote Fleetguard Fleetguard Fleetguard FS 1242 Fuel (Water Seperator - Remote Mtd (5.9 ISB) Fleetguard FS 1242 Fuel (Water Seperator - Remote Mtd 30 Mic (C7) Alliance ABP-332FRT01 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901551 MBE (Fuel Water Separator) Detroit Diesel DDE 0000901551 MBE (Fuel Water Separator, Bowl) Cooling System  SCA Coolant Filter 8 to 20 Gallons Fleetguard FG WF2071 SCA Liquid 1 Pint Bottle Penray PIC 3000 16 Coolant Test Strips Fleetguard FG CC2602B SCA Pre Charged Antifreeze 1 Gallon Allison OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison Allison MD3060,3000MH,HD4060,4000MH Allison Allison Internal 29545776 Allison 3000MH & 4000MH Deep Sump Allison MD3060,3000MH,HD4060,4000MH Allison Allison MF43 (Remote Mounted) Fleetguard Fieetguard Fieetgu							
Cummins ISB 02 FWS Remote         Fleetguard         Spin On FS19596           Fuel/Water Seperator - Remote Mtd (5.9 ISB)         Fleetguard         FS 1242           Fuel (Water Seperator - Remote Mtd 30 Mic (C7)         Alliance         ABP-32FRT01           MBE (Fuel Filter)         Detroit Diesel         DDE 0000901351           MBE (Fuel Filter)         Detroit Diesel         DDE 0000901551           MBE (Fuel Water Separator, Bowl)         Detroit Diesel         ABP N122 R50418           MBE (Fuel Water Separator, Bowl)         Detroit Diesel         RAI RR 30063           Cooling System           SCA Coolant Filter 8 to 20 Gallons         Fleetguard         FG WF2071           SCA Liquid 1 Pint Bottle         Penray         PIC 3000 16           Coolant Test Strips         Fleetguard         FG CC2602B           SCA Pre Charged Antifreeze 1 Gallon         Alliance         OWI ALA003           Transmission Filter           Allison 1000, 2000 & 2000MH         Allison         Spin On 29539579           Allison MD3060,3000MH,HD4060,4000MH         Allison         Internal 29545776           Allison MT643 (Remote Mounted)         Fleetguard         Spin On LF3342           Michar Dryer Filter <t< td=""><td>Caterpillar (Fuel/Water Sep) 2 Mic</td><td>Alliance</td><td>ABP-32FRT03</td></t<>	Caterpillar (Fuel/Water Sep) 2 Mic	Alliance	ABP-32FRT03				
Fuel/Water Seperator - Remote Mtd (5.9 ISB) Fleetguard FS 1242 Fuel /Water Seperator - Remote Mtd 30 Mic (C7) Alliance ABP-32FRT01 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Water Separator) MBE (Fuel Water Separator) Detroit Diesel ABP N122 R50418 MBE (Fuel Water Separator, Bowl) Cooling System  SCA Coolant Filter 8 to 20 Gallons Cooling System  SCA Liquid 1 Pint Bottle Penray PIC 3000 16 Coolant Test Strips Fleetguard FG CC2602B SCA Pre Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison MD3060,3000MH,HD460,4000MH Allison MD3060,3000MH,HD460,4000MH Allison MD3060,3000MH,BD460,4000MH Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter Midland or Haldex Pure Air Plus Midland or Haldex Pure Air Plus Haldex PURest Filter Kit Haldex Haldex Kit# DQ6050 Haldex PURest Purge Valve Kit Haldex Haldex Haldex Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Freightliner In Line (Rear Radiator w/TRW Gear) 25 Mic Freightliner	Caterpillar C7(Fuel/Water Sep) 30 Mic	Alliance	ABP-S3226FL02				
Fuel /Water Seperator - Remote Mtd 30 Mic (C7)  MBE (Fuel Filter)  MBE (Fuel Filter)  MBE (Fuel Filter)  MBE (Fuel Water Separator)  MBE (Fuel Water Separator)  MBE (Fuel Water Separator)  MBE (Fuel Water Separator)  Cooling System  Cooling System  SCA Coolant Filter 8 to 20 Gallons  SCA Liquid 1 Pint Bottle  Coolant Test Strips  Fleetguard  Fleetguard  FIeetguard  FIeetguard  FIG CC2602B  SCA Pre Charged Antifreeze 1 Gallon  Alliance  Allison  Allison  MISON  Allison  Allison  MISON  Allison  MISON  Allison  MISON  Allison  MISON  Allison  MISON  MISON  Allison  MISON	Cummins ISB 02 FWS Remote	Fleetguard	Spin On FS19596				
MBE (Fuel Filter) Detroit Diesel DDE 0000901351 MBE (Fuel Filter) Detroit Diesel DDE 0000901551 MBE (Fuel Water Separator) Detroit Diesel ABP N122 R50418 MBE (Fuel Water Separator, Bowl) Cooling System  Cooling System  SCA Coolant Filter 8 to 20 Gallons Fleetguard FG WF2071 SCA Liquid 1 Pint Bottle Penray PIC 3000 16 Coolant Test Strips Fleetguard FG CC2602B SCA Pre Charged Antifreeze 1 Gallon Alliance WI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison MD3060,3000MH, HD4060,4000MH Allison Allison MISON MD3060,3000MH, Deep Sump Allison Allison Internal 29545776 Allison MT643 (Remote Mounted) Fleetguard Fleetguard Spin On 125342  Air Dryer Filter Midland or Haldex Pure Air Plus Haldex Haldex Haldex Haldex Hiter Striter Kit Haldex Haldex Haldex Hiter Striter Kit Haldex Haldex Haldex Hiter Striter Chicago Rawhide T224  Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only) Fleetguard Freightliner Fleetguard Freightliner Halfooze-000 Hetal Tank ( Side Radiator Only) Fleetguard Freightliner Freightliner Freightliner H4-16028-000	Fuel/Water Seperator - Remote Mtd (5.9 ISB)	Fleetguard	FS 1242				
MBE (Fuel Filter)  MBE (Fuel Water Separator)  MBE (Fuel Water Separator, Bowl)  Cooling System  SCA Coolant Filter 8 to 20 Gallons  SCA Liquid 1 Pint Bottle  Coolant Test Strips  SCA Pe Charged Antifreeze 1 Gallon  Transmission Filter  Allison 1000, 2000 & 2000MH  Allison MD3060,3000MH,HD4060,4000MH  Allison 3000MH & 4000MH Deep Sump  Allison MT643 (Remote Mounted)  Air Dryer Filter  Midland or Haldex Pures Air Plus  Haldex Pures titler Kit  Haldex Pures titler Valve (Kitt DQ6050  Haldex Pures Valve Kit  Haldex Chicago Rawhide  T224  Hydraulic Filter  In Line (Rear Radiator w/TRW Gear) 25 Mic  Metal Tank ( Side Radiator Only)  Petroit Diesel  ABP N122 R50418  ABP N12 R50418  ABP N1	Fuel /Water Seperator - Remote Mtd 30 Mic (C7)	Alliance	ABP-32FRT01				
MBE (Fuel Water Separator)  MBE (Fuel Water Separator, Bowl)  Cooling System  SCA Coolant Filter 8 to 20 Gallons  SCA Liquid 1 Pint Bottle  Coolant Test Strips  SCA Pre Charged Antifreeze 1 Gallon  Transmission Filter  Allison 1000, 2000 & 2000MH  Allison MD3060,3000MH,HD4060,4000MH  Allison MD3060,3000MH,BD4060,4000MH  Allison MD3060,3000MH,BD4060,4000MH  Allison MT643 (Remote Mounted)  Fleetguard  Air Dryer Filter  Midland or Haldex Pure Air Plus  Haldex  Haldex  Haldex  Haldex  Haldex  Haldex  Kit# DQ6026  Haldex PURest Plurge Valve Kit  VC & VCL Chassis  Chicago Rawhide  Testing Time Metal Tank ( Side Radiator Only)  Fleetguard  Freightliner  14-16028-000  Metal Tank ( Side Radiator Only)  Fleetguard  Freightliner  14-16028-000  Metal Tank ( Side Radiator Only)	MBE (Fuel Filter)	Detroit Diesel	DDE 0000901351				
MBE (Fuel Water Separator, Bowl) Cooling System  SCA Coolant Filter 8 to 20 Gallons Fleetguard FG WF2071 SCA Liquid 1 Pint Bottle Penray PIC 3000 16 Coolant Test Strips Fleetguard FG CC2602B SCA Pre Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison MD3060,3000MH,HD4060,4000MH Allison Internal 29545776 Allison 3000MH & 4000MH Deep Sump Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter Midland or Haldex Pure Air Plus Haldex Haldex Mit# DQ6026 Haldex PURest Filter Kit Haldex Haldex Kit# DQ6050 Haldex PURest Purge Valve Kit Haldex VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only) Fleetguard 87972A	MBE (Fuel Filter)	Detroit Diesel	DDE 0000901551				
Cooling System  SCA Coolant Filter 8 to 20 Gallons  Fleetguard FG WF2071  SCA Liquid 1 Pint Bottle Penray PIC 3000 16  Coolant Test Strips Fleetguard FG CC2602B  SCA Pre Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter  Allison 1000, 2000 & 2000MH Allison Allison Allison Allison Internal 29545776 Allison 3000MH & 4000MH Deep Sump Allison MT643 (Remote Mounted) Fleetguard Fleetguard Filter  Midland or Haldex Pure Air Plus Haldex Haldex Haldex Filter Kit Filter Fil	MBE (Fuel Water Separator)	Detroit Diesel	ABP N122 R50418				
SCA Coolant Filter 8 to 20 Gallons  Fleetguard  Penray  PIC 3000 16  Coolant Test Strips  Fleetguard  FG CC2602B  SCA Pre Charged Antifreeze 1 Gallon  Alliance  OWI ALA003  Transmission Filter  Allison 1000, 2000 & 2000MH  Allison MD3060,3000MH,HD4060,4000MH  Allison Internal 29545776  Allison 3000MH & 4000MH Deep Sump  Allison MT643 (Remote Mounted)  Fleetguard  Air Dryer Filter  Midland or Haldex Pure Air Plus  Haldex  Haldex  Kit# DQ6026  Haldex PURest Filter Kit  Haldex  Haldex  Kit# DQ6050  Haldex PURest Purge Valve Kit  Haldex  Kit# DQ6050  Haldex PURest Purge Valve Kit  Haldex  Kit# DQ6050  Haldex PURest Purge Valve Kit  Freightliner  In Line (Rear Radiator w/TRW Gear) 25 Mic  Metal Tank ( Side Radiator Only)  Fleetguard  FG WF2071  Fileetguard  FG CC2602B  Fileetguard  Fi	MBE (Fuel Water Separator, Bowl)	Detroit Diesel	RAI RR 30063				
SCA Liquid 1 Pint Bottle Coolant Test Strips Fleetguard FG CC2602B SCA Pre Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison Allison MD3060,3000MH,HD4060,4000MH Allison Allison Internal 29545776 Allison 3000MH & 4000MH Deep Sump Allison Allison Internal 29545779 Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter Midland or Haldex Pure Air Plus Haldex Haldex Haldex Hugest Filter Kit Haldex Haldex FURest Filter Kit Haldex FURest Purge Valve Kit VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only) Fleetguard 87972A	Cooling System						
Coolant Test Strips SCA Pre Charged Antifreeze 1 Gallon Alliance OWI ALA003  Transmission Filter Allison 1000, 2000 & 2000MH Allison MD3060,3000MH,HD4060,4000MH Allison MD3060,3000MH,HD4060,4000MH Allison 3000MH & 4000MH Deep Sump Allison 3000MH & 4000MH Deep Sump Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter Midland or Haldex Pure Air Plus Haldex Haldex Haldex Haldex Kit# DQ6026 Haldex PURest Filter Kit Haldex Haldex Kit# DQ6050 Haldex PURest Purge Valve Kit Haldex Kit# DA331115  VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter In Line (Rear Radiator W/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only) Fleetguard 87972A	SCA Coolant Filter 8 to 20 Gallons	Fleetguard	FG WF2071				
SCA Pre Charged Antifreeze 1 Gallon  Transmission Filter  Allison 1000, 2000 & 2000MH  Allison MD3060,3000MH,HD4060,4000MH  Allison MD3060,3000MH,HD4060,4000MH  Allison MD3060,3000MH,HD4060,4000MH  Allison MISON Internal 29545776  Allison 3000MH & 4000MH Deep Sump  Allison MT643 (Remote Mounted)  Fleetguard Spin On LF3342  Air Dryer Filter  Midland or Haldex Pure Air Plus Haldex Kit# DQ6026  Haldex PURest Filter Kit Haldex Kit# DQ6050  Haldex PURest Purge Valve Kit Haldex Kit# DA331115  VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter  In Line (Rear Radiator w/TRW Gear) 25 Mic Freightliner 14-16028-000  Metal Tank ( Side Radiator Only)  Fleetguard 87972A		Penray	PIC 3000 16				
Transmission Filter  Allison 1000, 2000 & 2000MH Allison MD3060,3000MH,HD4060,4000MH Allison MD3060,3000MH,HD4060,4000MH Allison MIson Internal 29545776 Allison 3000MH & 4000MH Deep Sump Allison Internal 29545779 Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter  Midland or Haldex Pure Air Plus Haldex Kit# DQ6026 Haldex PURest Filter Kit Haldex Kit# DQ6050 Haldex PURest Purge Valve Kit Haldex Kit# DA331115 VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter  In Line (Rear Radiator w/TRW Gear) 25 Mic Freightliner 14-16028-000 Metal Tank ( Side Radiator Only) Fleetguard 87972A	Coolant Test Strips	Fleetguard	FG CC2602B				
Allison 1000, 2000 & 2000MH Allison MD3060,3000MH,HD4060,4000MH Allison MD3060,3000MH,HD4060,4000MH Allison 3000MH & 4000MH Deep Sump Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter Midland or Haldex Pure Air Plus Haldex Haldex Vit# DQ6026 Haldex PURest Filter Kit Haldex Vit# DQ6050 Haldex PURest Purge Valve Kit VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only) Fleetguard 87972A	SCA Pre Charged Antifreeze 1 Gallon	Alliance	OWI ALA003				
Allison MD3060,3000MH,HD4060,4000MH Allison 3000MH & 4000MH Deep Sump Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter Midland or Haldex Pure Air Plus Haldex PURest Filter Kit Haldex PURest Purge Valve Kit VC & VCL Chassis Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only)  Allison Internal 29545776 Internal 29545779 Inte							
Allison 3000MH & 4000MH Deep Sump Allison MT643 (Remote Mounted) Fleetguard Spin On LF3342  Air Dryer Filter  Midland or Haldex Pure Air Plus Haldex PURest Filter Kit Haldex PURest Purge Valve Kit Haldex PURest Purge Valve Kit Chicago Rawhide Hydraulic Filter  In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only)  Allison Internal 29545779  Allison Internal 2954577  Allison Internal 295457  Allison Internal 295457  Allison Internal	Allison 1000, 2000 & 2000MH		•				
Allison MT643 (Remote Mounted)  Air Dryer Filter  Midland or Haldex Pure Air Plus Haldex Hald	l i i i i i i i i i i i i i i i i i i i						
Air Dryer Filter  Midland or Haldex Pure Air Plus Haldex Haldex PURest Filter Kit Haldex Hald	Allison 3000MH & 4000MH Deep Sump	Allison	Internal 29545779				
Midland or Haldex Pure Air Plus Haldex Haldex PURest Filter Kit Haldex PURest Purge Valve Kit Haldex VC & VCL Chassis Chicago Rawhide T224 Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only) Fleetguard Kit# DQ6026 Kit# DQ6026 Kit# DQ6026 Kit# DQ6026 Kit# DQ6026 Filedex Filedex Kit# DQ6026 Filedex Filedex Kit# DQ6026 Filedex	Allison MT643 (Remote Mounted)	Fleetguard	Spin On LF3342				
Haldex PURest Filter Kit Haldex Kit# DQ6050 Haldex PURest Purge Valve Kit Haldex Kit# DA331115 VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Freightliner 14-16028-000 Metal Tank ( Side Radiator Only) Fleetguard 87972A	Air Dryer Filter						
Haldex PURest Purge Valve Kit VC & VCL Chassis Chicago Rawhide T224  Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only) Fleetguard Kit# DA331115 T224  14-16028-000 87972A			Kit# DQ6026				
VC & VCL Chassis  Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Metal Tank ( Side Radiator Only)  Chicago Rawhide  T224  14-16028-000  87972A		Haldex	Kit# DQ6050				
Hydraulic Filter In Line (Rear Radiator w/TRW Gear) 25 Mic Freightliner 14-16028-000 Metal Tank ( Side Radiator Only) Fleetguard 87972A	1						
In Line (Rear Radiator w/TRW Gear) 25 Mic Freightliner 14-16028-000  Metal Tank ( Side Radiator Only) Fleetguard 87972A		Chicago Rawhide	T224				
Metal Tank ( Side Radiator Only) Fleetguard 87972A	1						
•		Freightliner	14-16028-000				
Plastic Tank ( Side Radiator Only) Vickers V0191B1R05	1	•					
	Plastic Tank ( Side Radiator Only)	Vickers	V0191B1R05				





Check tires





Look for fluid leaks

Please take some time, if you have not already done so, to read through the operator's manual provided with your chassis. Familiarization with this book and your chassis is the best possible way to ensure that you can safely operate your vehicle and extend its useful life.

Prior to starting your vehicle each day, there are a few things that should be checked. Taking the time to follow these recommendations could mean the difference between having a wonderful vacation and spending your time on the side of the road or in the lobby of a repair shop.

- Check the tires for proper inflation pressure and for damage. Don't forget to check the inner duals. Refer to the air pressure charts in the beginning of this handout for proper inflation pressures.
- Look for fluid leaks under the Motorhome. (The simple act of tightening a hose clamp could prevent a serious problem.)





Check the coolant level in the reservoir and add a 50/50 mix of coolant and water if needed. This reservoir is located at the rear of your vehicle. Be careful not to confuse it with the hydraulic fluid reservoir though, they look very much alike.

• Check SCA (supplemental coolant additive) and freeze point every 6 months or 25,000 miles. Recharge as required.

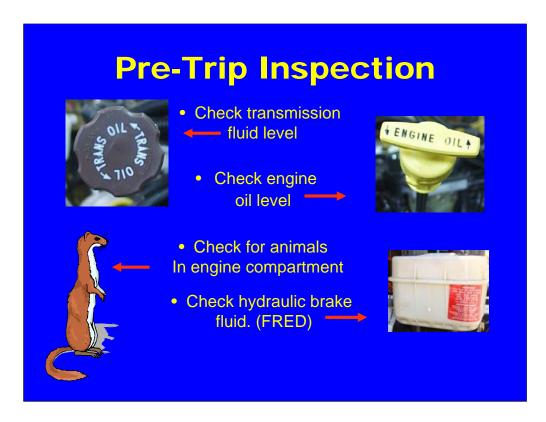
# <u>IF THE WATER TEMP IN YOUR ENGINE IS GREATER THAN 120 DEGREES, DO NOT REMOVE THE RADIATOR CAP!</u>

### YOU COULD BE SEVERLY BURNED!!!

- Approximate COOLING SYSTEM CAPACITIES Does not include heater core or other auxiliary system's added by Coach Manufacturer.
- Cummins ISB Rear Radiator 36 Qt. or 9 Gallons.
- Cummins ISC Rear Radiator 42 Qt. or 10 ½ Gallons.
- Cummins ISC & ISL Side Radiator 42 Qt. or 10 ½ Gallons.
- Cummins ISM Side Radiator 50 Qt. or 12 ½ Gallons.
- Caterpillar 3126, 3126B&E, C7 Rear Radiator 38 Qt. or 9 ½ Gallons.
- Caterpillar 3126, 3126B&E, C7 Side Radiator 38 Qt. or 9½ Gallons.

Note: If you have trouble getting Alliance Brand Coolant ALAWS3 Detroit Diesel Brand Powercool 50/50 pre mixed is the same coolant .Part # 23528203. Fleetcharge coolant is also the same and sold through some PEP BOY'S, NAPA, and Tractor Supply under Fleetcharge FCA053.





- Check transmission fluid level add fluid if needed
- Check your engine oil level and add oil if needed
- Check the engine compartment for squirrels, cats, etc. They like the warmth of the engine compartment, but make a real mess if caught in the belts.
- Check the hydraulic fluid in the hydraulic reservoir and add fluid if needed.





• Check the hydraulic fluid in the hydraulic reservoir and add fluid if needed.





• Check fuel/water separator and drain any water or contamination that may be present.

After you have completed your inspection, you may now start your engine. If you have an electronic engine such as the Caterpillar 3126 or the Cummins ISB, turn the key to the run position and wait for the wait to start light (in some cases it may read "Inlet heater") to turn off. You may now start the engine. Never use ether or any other starting aid to start the electronic engine. The inlet heater can ignite the fumes and cause an explosion in the air inlet system. Once you have started the engine, monitor your gauges closely. Make sure that the oil pressure rises within 15 seconds. If it does not, shut down the engine and call a repair facility to determine the cause.





• Engine Air Cleaner Element should be changed when the air inlet restriction indicator reaches 25 inches of vacuum or every two years whichever occurs first.





- (< 3 sec.) means less than 3 seconds
- (> 3 sec.) means more than 3 seconds
- A small triangle is displayed pointing to either the "K" or "M" telling you if its reading in Kilometers or Miles
- The Trip Reset switch may be located in different places on the dash depending on the Coach builder



### **LCD Info Center**





### **Provides The Following Information**

- Average Fuel Economy
- Instant Fuel Economy
- Fuel Level
- Trip Miles
- Odometer Miles
- Volt Meter
- Oil Pressure
- Engine Temperature
- Engine RPM
- Road Speed (MPH)
- Diagnostics



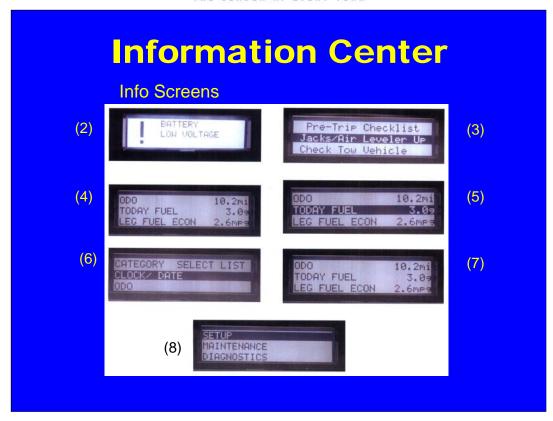


### **DISPLAY INFORMATION**

- (1) When you turn the Ignition switch on, the first screen will show:
- Freightliner Custom Chassis. It will show in the day screen and night screen.
- All of the Icons will flash on and off,
- Information available

Trip Computer Real Time Clock Odometer And Trip Odometers Engine And Chassis Parameters Alarms And Warning Messages Diagnostics Pre Trip Check list





#### **DISPLAY INFORMATION**

- (2) The second screen will show any warnings.
- (3) The pre-trip check list will come on next. (*The user can check everything off* by scrolling down on the Joy Stick or by left clicking to the next screen)
- (4) The next is the travel screen. (*The user can set eight viewable categories three of which can be viewed while driving.* By scrolling down the user can check 5 other screens. These can be set in any order the user wants)
- (5) Setup Screen. (Scroll down to highlight one of the categories and right click and hold to right for five seconds)
- (6) Category Select List. (Scroll down to the category desired and right click to the category you want on the travel screen then left click. Repeat process until you have the eight categories you want.)
- (7) To get to Setup, Maintenance, Diagnostics screen. (*Go into the travel screen and with nothing highlighted right click and hold for five seconds.*)
- (8) Not only can the user set the time and date they can also change items on the checklist or even add something new to the checklist.

Whenever the user wants to clear today, leg, trip mileage or fuel economy all they have to do is highlight it, left click, and follow instructions on the screen to zero them out.



# **Auxiliary Air Supply**

- Manifold provided for auxiliary air source
  - Up to 120 psi
- Can be used for:
  - Air horn supply
  - Fill tires
  - etc.
- The only approved location for tying into the air system.



This manifold is usually located somewhere toward the front of the coach ie. , firewall, front compartment. The location depends on the coach manufacturer.

(WARNING: Air Tanks should be bled of all pressure any time you work on the air system)





Consult Your Service Directory For Authorized Locations

Dealer/Service Locator is Available on our WEB SITE at www.freightlinerchassis.com



### **WARRANTY**

- Cummins Engine's 5 yrs. / 100,000 miles.
- Caterpillar Engine 5 yrs. / 200,000 miles.
- Allison Transmissions:
  - 2500 MH 5 yrs. / 200,000 miles.
  - 3000 MH 5 yrs. / 200,000 miles.
- Chassis 3 yrs. / 50,000 miles
- Towing and Roadside Assistance included
- Frame rails & crossmembers 5 yrs. / 100,000 miles.

### All completely transferable.





- Chapter of FMCA
- First year's membership free with the purchase of a new Motorhome built on a Freightliner Chassis
- Membership dues \$10 per year
- Open to owners of John Deere, Oshkosh and Freightliner chassis
- Approximately 6,000 members and growing
- Two Rallies per year
- Quarterly Newsletter ( with technical info)
- 5% discount on parts and labor at FCCC Gaffney Svc Center
- Purchase discounts on New Chrysler vehicles (Chrysler, Dodge, Jeep) Viper excluded
- Must be a member of FMCA to be a Freightliner Chassis Owners Club Member
- At least two rallies per year held in conjunction with FMCA International Conventions.
  - Rallies Include but not limited to
    - Freightliner Chassis display
    - Freightliner Show and Service Trailer
    - Freightliner Service Technicians
    - Technical Day with Freightliner and Component Manufacturer personnel
    - Fellowship with all
- Quarterly Newsletter with info on up coming rallies, technical articles from Freightliner, Allison, Caterpillar, Cummins, Michelin, etc.
- 5% parts & service discount at Freightliner Custom Chassis Service Center at the plant in Gaffney, SC
- Purchase Program of new Chrysler, Dodge, Jeep vehicles at below dealer invoice which also includes any cash rebates or special financing. Program excludes Dodge Viper and all Mercedes Benz vehicles.
- Web site www.freightlinerchassisownersclub.org



Please give us your suggestions on what you would like to see covered in this seminar. These should be operation or maintenance items. When you have completed your suggestions drop them off at our display or mail them to Freightliner Custom Chassis Corp. 552 Hyatt Street, Gaffney, SC 29341 Attention: Larry Dorer.

Please Print:		