

AIR CONDITIONING SYSTEM

Red Dot **HVAC**

**CHECKLIST**

# Preventive Maintenance Schedule **PREMIUM**

## Maintenance Intervals

	EVERY	OR	OR
<b>3</b> =	3 months	15,000 miles	375 hours
<b>6</b> =	6 months	30,000 miles	750 hours
<b>12</b> =	12 months	60,000 miles	1500 hours

### **SPECIAL NOTE:**

Use caution when performing Preventive system maintenance, ambient conditions (heat load) will increase refrigerant hose temperatures.





		Maintenance Interval	3	6	12
<b>1. System Maintenance</b>					
<input type="checkbox"/>	Perform visual system inspection		●	●	
<input type="checkbox"/>	Perform manifold gauge check:				●
<input type="checkbox"/>	<input type="checkbox"/> Recover & recycle system refrigerant				
<input type="checkbox"/>	<input type="checkbox"/> Perform system evacuation & leak test				
<input type="checkbox"/>	<input type="checkbox"/> Recharge system with correct refrigerant charge amount				
<b>2. Compressor &amp; Belt Drive System</b>					
For systems that do not have A/C interlock, (A/C compressor engages when the defrost mode is activated) follow the following procedure on a monthly basis. Activate the AC system for a minimum of 5 minutes every 30 days to circulate the refrigerant system lubrication and verify condenser fan(s) (either engine fan for radiator mounted condensers or electric fans for remote mounted condensers) engage and/or cycle on and off.					
<input type="checkbox"/>	Check discharge line (warm/hot to touch)		●	●	
<input type="checkbox"/>	Check suction line (cool to touch)		●	●	
<input type="checkbox"/>	Inspect face of clutch hub for signs of slippage (heat discoloration)		●	●	
<input type="checkbox"/>	Check clutch working voltage and current draw (4 amps @ 12 volts / 2 amps @ 24 volts)				●
<input type="checkbox"/>	Inspect shaft seal for presence of oil & dirt, which indicate leakage		●	●	
<input type="checkbox"/>	Confirm alignment of clutch pulley with crankshaft drive pulley (belt will show side wear)		●	●	
<input type="checkbox"/>	Inspect idler pulley for bearing wear (looseness)		●	●	
<input type="checkbox"/>	Inspect compressor belt for glazing or cracking		●	●	
<input type="checkbox"/>	Check belt tension (verify manufactures specs in owners manual)		●	●	
<b>3. Condenser</b>					
<input type="checkbox"/>	Inspect tubes for obvious dents & oil stains/dirt, which indicate leakage		●		
<input type="checkbox"/>	Clean dirt and bugs from condenser fin area (may be necessary every 30 days under severe operating conditions)		●		
<input type="checkbox"/>	Inspect condition of fins (straighten as required)		●		
<b>4. Receiver/Drier (Filter)</b>					
<input type="checkbox"/>	Note: Replace annually or anytime refrigerant system is opened				●
<input type="checkbox"/>	Check moisture indicator, either remote mounted or built into the drier (Blue is OK while pink or white indicates moisture presence and replacement required)		●	●	
<input type="checkbox"/>	Check temperature of drier canister while running (warm to touch)		●	●	
<b>5. Expansion Valve</b>					
<input type="checkbox"/>	Check inlet (liquid) line from drier (warm to touch)		●	●	
<input type="checkbox"/>	Check refrigerant charge head for damage & leakage				●
<b>6. Evaporator</b>					
<input type="checkbox"/>	Clean dirt, bugs & airborne particulate from fin area		●	●	
<input type="checkbox"/>	Clean dirt, bugs & airborne particulate from the drain pan & drain hole		●	●	
<input type="checkbox"/>	Inspect drain pump (if present) & float for obstructions and operation		●	●	
<b>7. Other Components</b>					
<input type="checkbox"/>	<b>Thermostat:</b> Check for proper operation				●
<input type="checkbox"/>	<b>Filters:</b> Inspect and clean or replace as needed (Dirty filters can cause airflow restriction and premature blower failure)		●	●	
<input type="checkbox"/>	<b>Pressure Switches:</b> With manifold gauges installed, check refrigerant pressure switches for proper operation				●
<input type="checkbox"/>	<b>Water Valve:</b> Check water valve for proper operation (with control panel temp setting in full cold position, valve should be closed)				●

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# HVAC Preventive Maintenance, A great way to SAVE your customers MONEY

Bundling Preventive Maintenance Service and Parts for "ALL Makes"

When it comes to air conditioning, offering a Preventive Maintenance (PM) program will save your customers money. Planned maintenance allows the fleet to schedule repairs *VERSUS* reacting to sudden immediate required repairs once the hot weather hits. In addition, to support a PM program, having the right parts on hand to service ALL MAKES fleets is critical. This Premium PM program combines a comprehensive checklist of HVAC maintenance checks and a list of ALL MAKES parts to perform the service.

## ALL Makes Inventory List

Qty	Part Number	Description	Make
1	79R8950	Slimline Seal Kit	Freightliner
1	79R4650	Flush (Gallon) 6 per case	All Makes
1	79R4400	Ref. Sealing Tape	All Makes
5	79R5020	O-Ring Kit (Rubber)	All Makes
10	79R5833	IHC Low Side Port Fitting	All Makes
10	79R5115	Schrader Valve (10 per Pack)	All Makes
10	79R5110	Schrader Valve (10 per Pack)	All Makes
1	79R0100	Nylon Sleeve Protection	All Makes
1	79R8940	HD Retrofit Adapter Kit	All Makes
1	79R4597	Sanden Oil Dip Stick	All Makes
6	79R4585	PAG Oil (QT) 6 per Case	All Makes

## Drier

Qty	Part Number	Description	Make
2	74R3328	Drier	Freightliner
2	74R3126	Drier	Freightliner
2	74R5047	Accumulator	IHC-Navistar
2	74R3455	Drier	IHC-Navistar
2	74R3356	Drier	Kenworth
2	74R2001	Drier	Kenworth
2	74R5060	Accumulator	Peterbilt
2	74R5061	Accumulator	Peterbilt
2	74R3107	Drier	Volvo
2	74R3077	Drier	Mack
2	74R3376	Drier	Western Star

## Compressors

Qty	Part Number	Description	Make
1	75R81302	Compressor (4417)	Freightliner
1	75R81352	Compressor (4492)	Freightliner
1	75R81642	Compressor (4815)	IHC-Navistar
1	75R81292	Compressor (4816)	IHC-Navistar
1	75R8432	Compressor (4626)	Kenworth
1	75R89552Q	Compressor (4696)	Peterbilt
1	75R81362	Compressor (4892)	Volvo
1	75R81372	Compressor (4891)	Volvo
1	75R81622	Compressor (4883)	Mack

## Expansion Valve

Qty	Part Number	Description	Make
2	71R8455	Expansion Valve (Main)	Freightliner
2	71R8370	Expansion Valve (Main)	Freightliner
1	71R8510	Orifice Tube Kit All Makes	All Makes
2	71R8301	Expansion Valve (Main)	All Makes

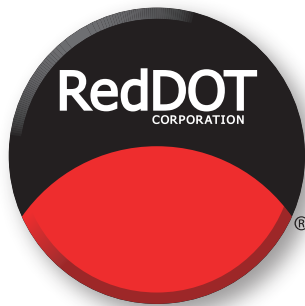
## Recirc Filters

Qty	Part Number	Description	Make
2	78R5239	Filter	Freightliner
2	78R5308	Filter	International
2	78R5420M	Filter	Kenworth
2	78R5235	Filter	Mack
2	78R5308	Filter	Peterbilt
2	78R5242M	Filter	Volvo

## Condenser

Qty	Part Number	Description	Make
1	77R6957	Condenser - K122-125	Kenworth
1	77R0585	Condenser - 8084348	Volvo
1	77R6978	Condenser - 1E 6068	Freightliner
1	77R7715	Condenser - 210RD428	Mack
1	77R7000	Condenser - 2004801-C1	International

\* Manufactured by Que (T/CCI)



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