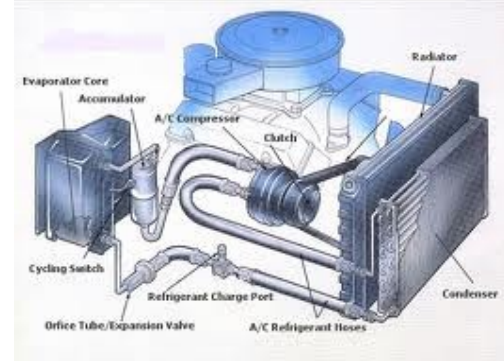
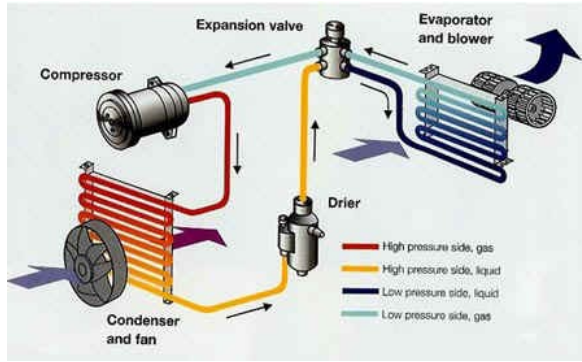
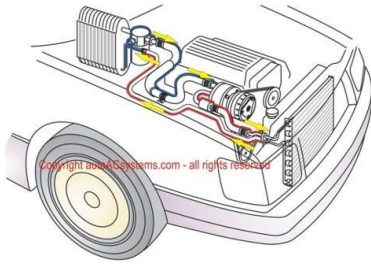
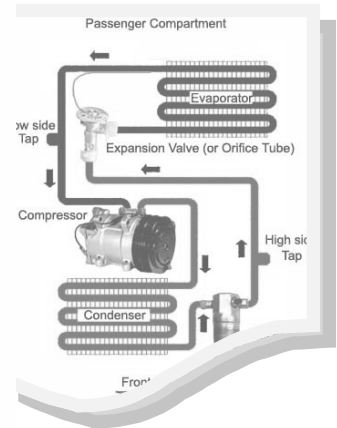
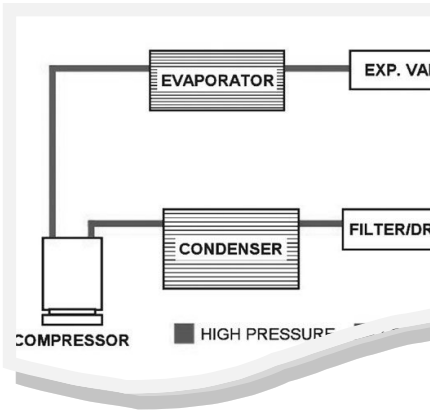


Typical Auto A/C System

- = REFRIGERANT FLOW
- = LOW side of the system
- = HIGH side of the system

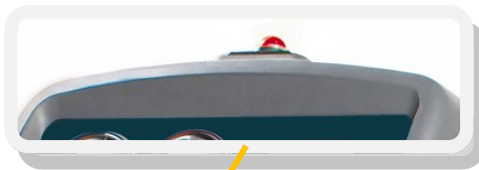


A/C350C AIR CONDITIONER RECOVERY RECYCLING RECHARGING





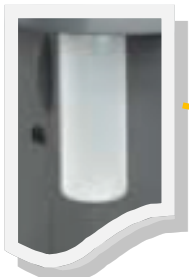
Control panel is at the optimum angle for view during operation
Gauges are 4" diameter



Indicator light flashes after each operation is complete



Handle is ergonomically located so the unit moves with less effort



Bottle for oil injection mounts on side



Rounded corners prevent damage to vehicle
High impact polypropylene impervious to chemicals commonly used in the shop environment



Oil drain bottle is calibrated to show how much should be replaced
Source tank is readily accessible



Construction is lightweight and durable

Unique "sidewinder" cabinet with large wheels and casters makes unit easy to position near the vehicle



R-134a Recovery, Recycling Evacuation and Recharging



**Compliant to SAE-J2788
Effective 12/06**

Oil Drain Bottle - Recovers the used oil during the oil drain process

Oil Drain Valve - Drains the A/C system's oil into the oil drain bottle

Panel Valve, High Side - Controls the flow between the A/C system's high side and the unit

Vacuum Pump - 220V pump designed to remove moisture and air from an A/C system

Vacuum Pump Relay - Electrically controlled switch that starts the vacuum pump when energized by the circuit board

Internal Storage Vessel (ISV)- The refillable refrigerant storage vessel inside the unit.

Source Tank - A tank of new refrigerant used to refill the internal storage vessel.

Sight glass - Used to view vacuum pump oil level

Scale Assembly - Measures the amount of refrigerant being charged and recovered

Base and Foot Assembly -Used to reduce excessive pump vibration

Check Valve - Allows flow in one direction only

Compressor - Compressor moves the refrigerant from the A/C system being serviced into the internal tank on the unit

Compressor Oil Return Assembly- Removes the compressor oil from the refrigerant that is leaving the compressor. The stored oil is returned to the compressor with a cap tube that provides a constant oil return at a controlled rate.

Compressor Relay - Electrically controlled switch that starts the compressor when energized by the circuit board

Control Panel Assembly - User interface panel for controlling refrigerant recovery, recycling and recharging

Control Panel Overlay - Affixed to control panel sheet metal, the overlays is used to identify gauges, displays and controls

Filter Drier - Used to remove moisture and particles from refrigerant. Should be changed every time 150lbs of refrigerant is recovered

Gauge, High Side - Monitor high-side pressure of the vehicle being serviced

Internal Storage Vessel—(ISV)- Storage tank that the recovered and recycled refrigerant is stored. Vapor, liquid and air purge access is on top of tank.

ISV Pressure Gauge - Shows the pressure inside the internal storage vessel

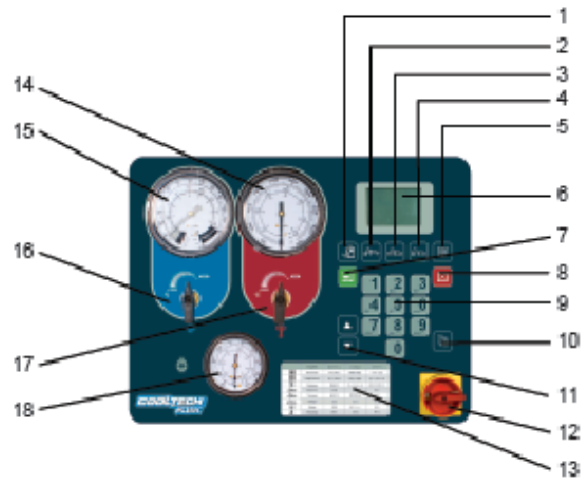
Manifold Block Assembly - Internal block assembly that contains solenoids, check valves and switches. Refrigerant will flow pass through the manifold assembly for proper distribution.

Manifold, Gauge & Valve Assembly - Manual valves and gauge assembly that controls the flow of refrigerant to or from the unit.

Panel Valve, Low Side - Controls the flow between the A/C system's low side and the unit

Pressure Relief Valve - Spring loaded safety valve use to releases pressure from internal tank assembly if pressure exceeds 350psi

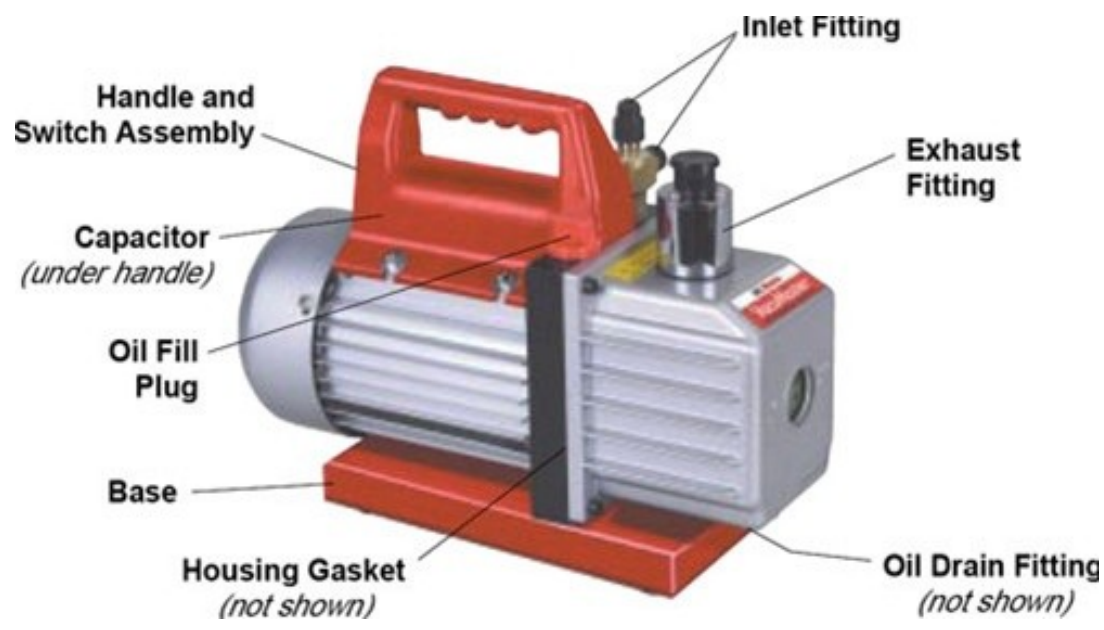
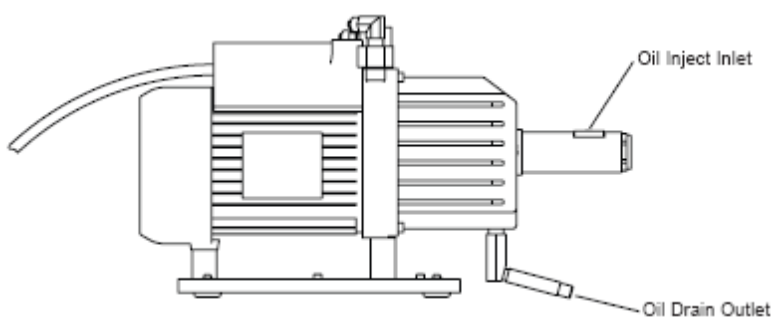
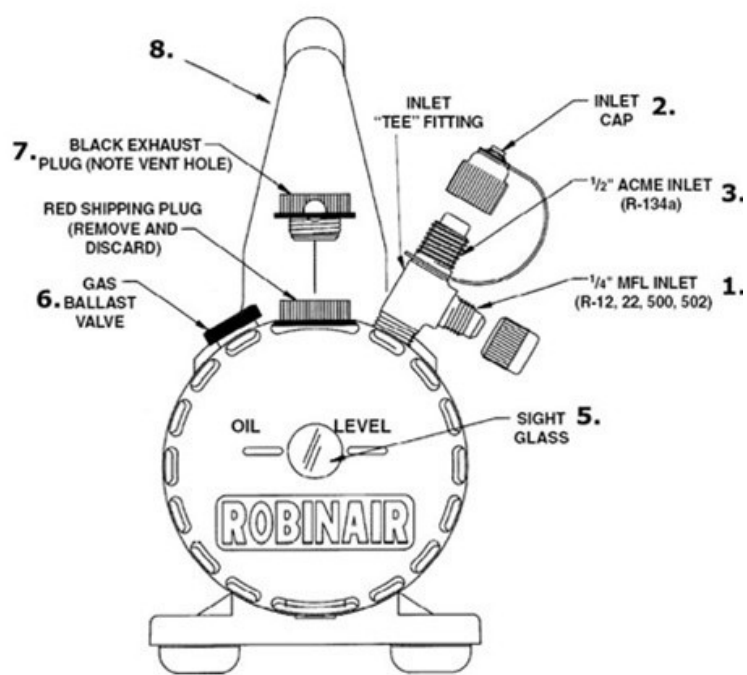
System Oil Separator - Heat exchanger with high-side coils that provide internal heat to the canister causing saturated vapor and accumulated liquid refrigerants to evaporate. This process prevents liquid refrigerant from entering the compressor and separates the refrigerant oil.



1	AIR PURGE	Eject non-condensable gas
2	RECOVER	Recovers refrigerant from the vehicle's A/C system
3	VACUUM	Evacuates refrigerant from the vehicle's A/C system
4	CHARGE	Charges refrigerant to the vehicle's A/C system
5	MENU	Allows users customize unit setting and performs maintenance job
6	LCD Screen	Displays operational information
7	START/ENTER	Confirms operation or start process
8	STOP/CANCEL	Stops or cancels operation
9	KEYBOARD	Inputs data from here
10	DATABASE*	Allows user to achieve vehicle service information regarding refrigerant type, refrigerant quality etc.
11	UP/DOWN	Movers in up and down direction
12	POWER SWITCH	Switch ON or OFF the unit
13	MULTI-LANGUAGE	Specifies the meaning in English, Chinese, Japanese and Korean
14	HIGH-SIDE GAUGE	Shows the A/C system's high-side pressure
15	LOW-SIDE GAUGE	Shows the A/C system's low-side pressure
16	LOW-SIDE VALVE	Controls the flow between the A/C system's low side and the unit
17	HIGH-SIDE VALVE	Controls the flow between the A/C system's high side and the unit
18	ISV PRESSURE GAUGE	Shows the pressure inside ISV

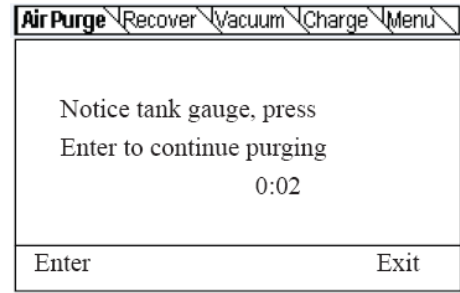
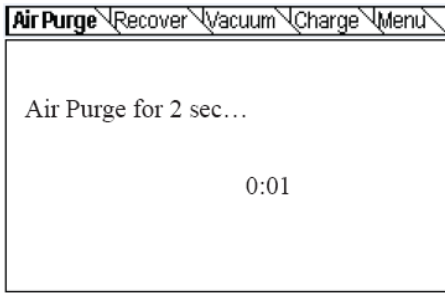
Specification

Limited vacuum:	-30inHg	Recovery Rate:	400g/Min
Package Size:	928X610X1415MM	Machine Size:	873X564X1266MM
Gross weight:	100KG	Net weight:	80KG
Rate voltage:	220V	Rate power:	300W

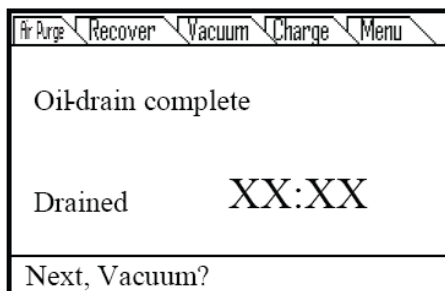
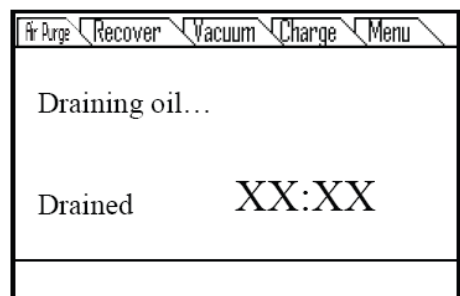
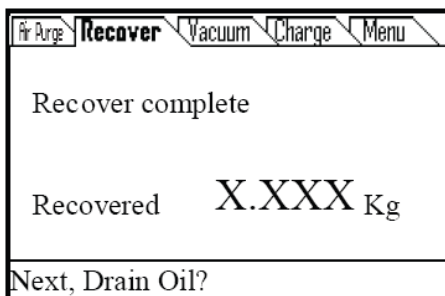
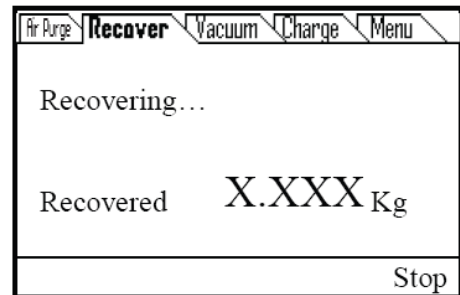
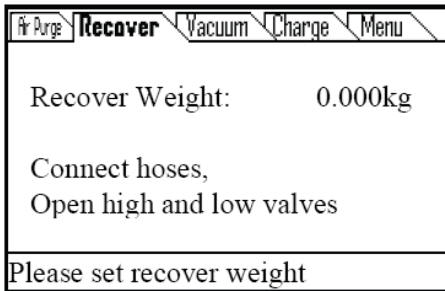


A/C350C Air Conditioner Recovery Recycling Recharging

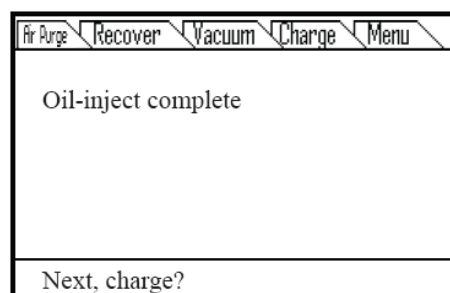
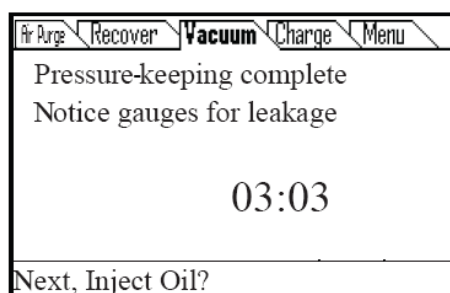
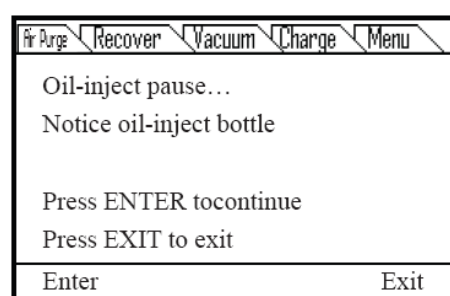
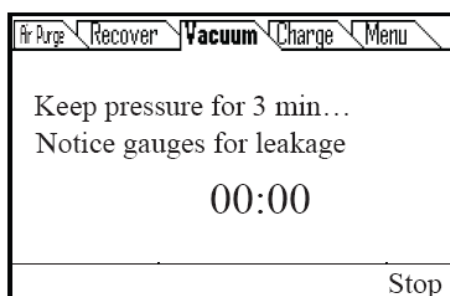
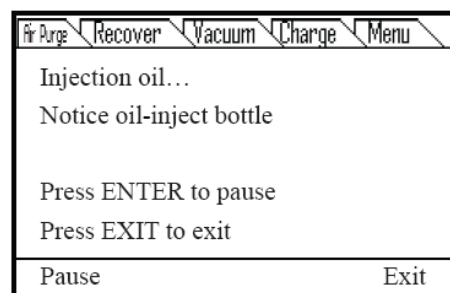
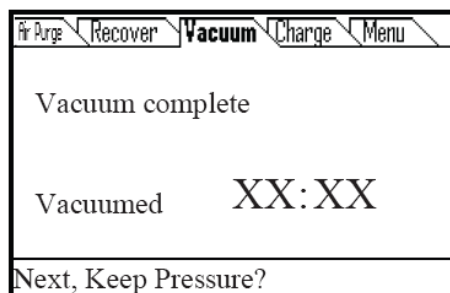
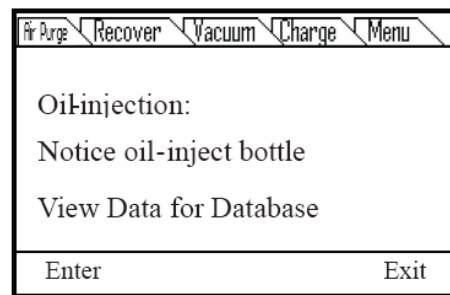
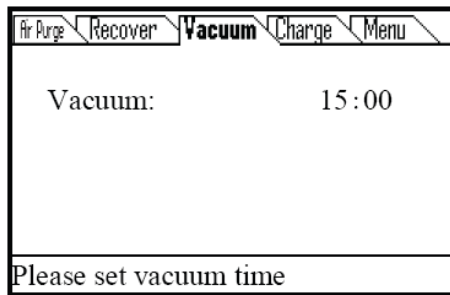
Air Purge



Recovering Vehicle A/C System Refrigerant



Vacuumping Vehicle A/C System





Charging A/C System Refrigerant

Air Purge Recover Vacuum Charge Menu
Charge Weight: 0.500 Kg Close the LP valve, charge on the high side only Select Data from Database
Please set charge weight

Air Purge Recover Vacuum Charge Menu
Charge complete, Disconnect Hoses and start cleaning
Charged X.XXX Kg
Next, Clean Hoses?

Air Purge Recover Vacuum Charge Menu
Charging...
Charged X.XXX Kg
Stop

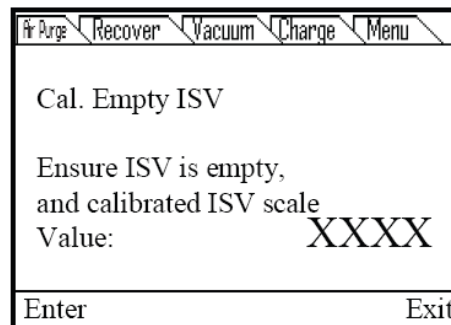
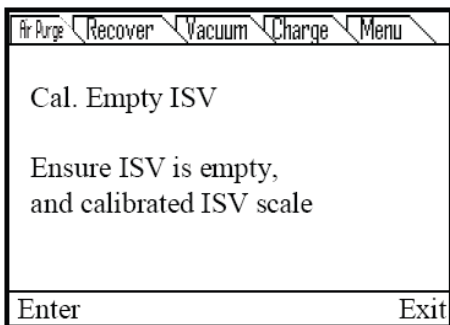
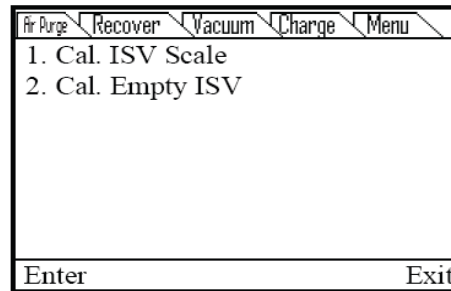
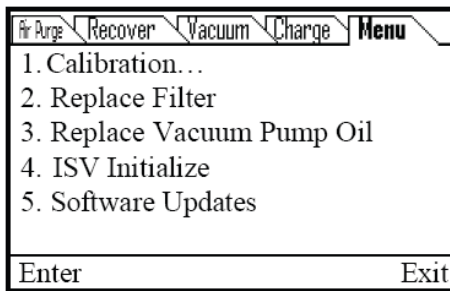
Recycle

Air Purge Recover Vacuum Charge Menu
Recycle 10:00
Enter Exit

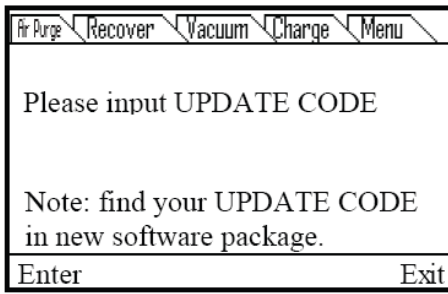
Air Purge Recover Vacuum Charge Menu
Recycling Recycled X:XX
Enter Exit

Air Purge Recover Vacuum Charge Menu
Refrig.weight out of range Disable recycle!
Enter Exit

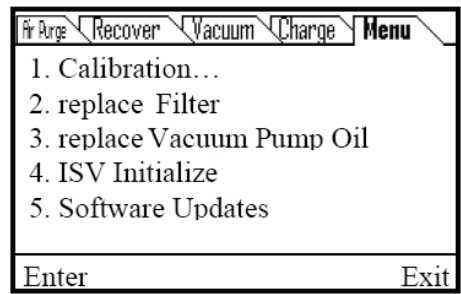
Empty ISV Weight Calibration



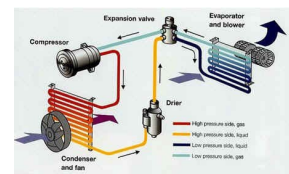
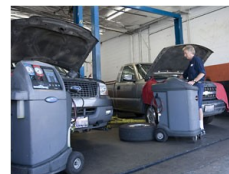
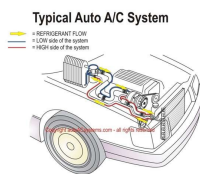
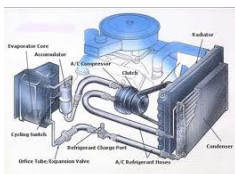
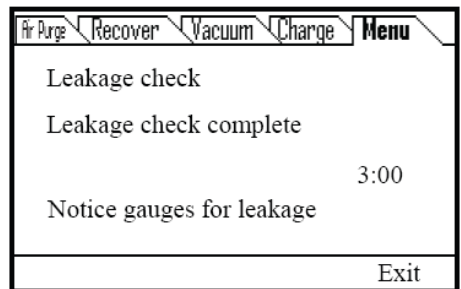
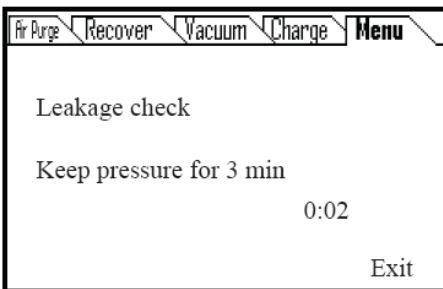
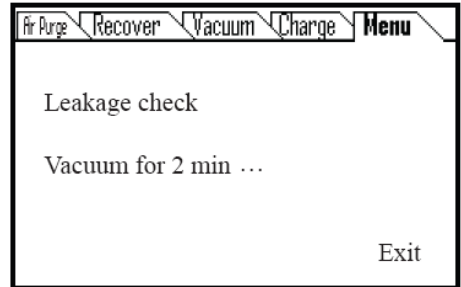
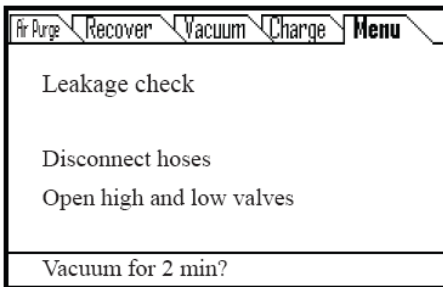
Software Update



Maintenance



Leakage Check



ISV Scale Calibration

Air Purge	Recover	Vacuum	Charge	Menu
1. Calibration... 2. Replace Filter 3. Replace Vacuum Pump Oil 4. ISV Initialize 5. Software Updates				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
1. Cal. ISV Scale 2. Cal. Empty ISV				
Enter		Exit		

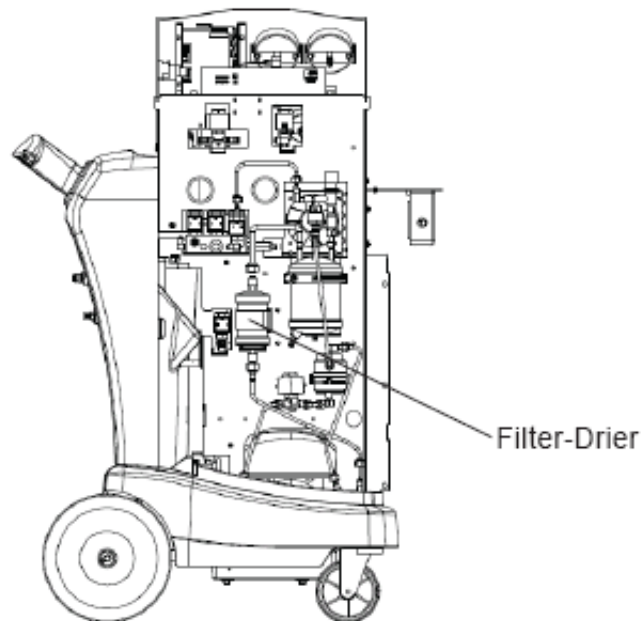
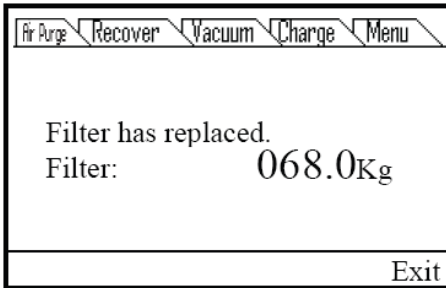
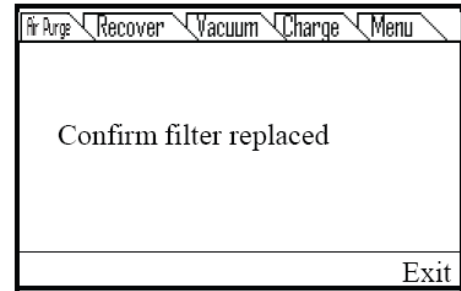
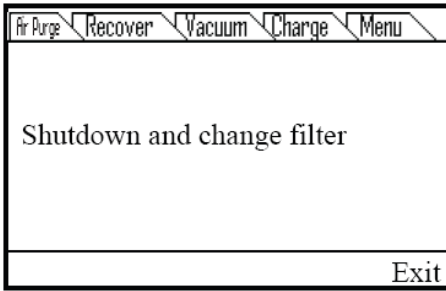
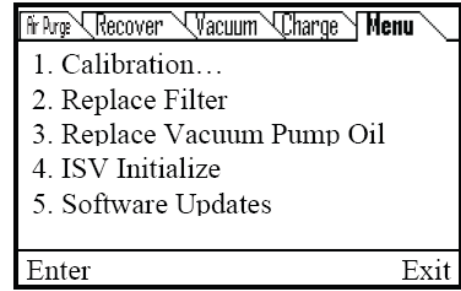
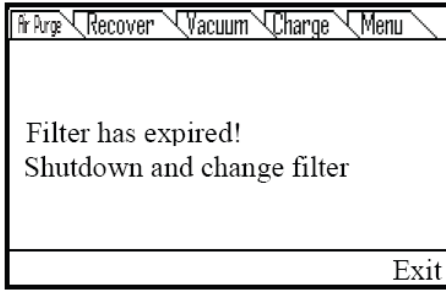
Air Purge	Recover	Vacuum	Charge	Menu
Cal. ISV Scale Please unload ISV.				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
Cal ISV Scale Please unload ISV. Zero: XXXX				
Enter		Exit		

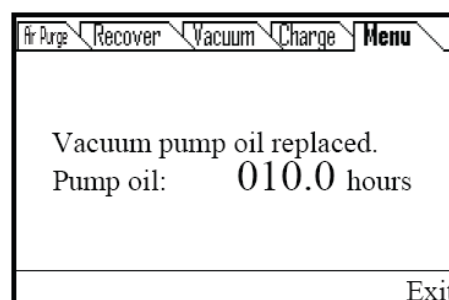
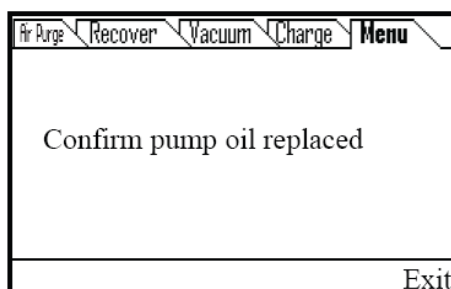
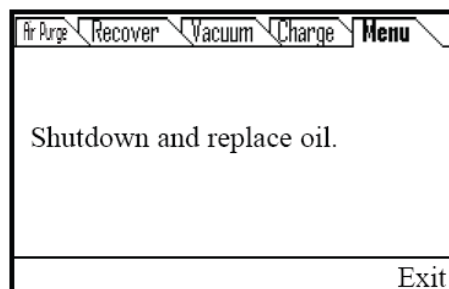
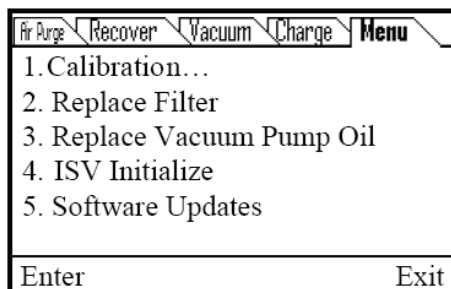
Air Purge	Recover	Vacuum	Charge	Menu
Cal. ISV Scale Please put 5Kg weight on ISV scale				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
Cal. ISV Scale Please put 5Kg weight on ISV scale Standand: XXXX				
Enter		Exit		

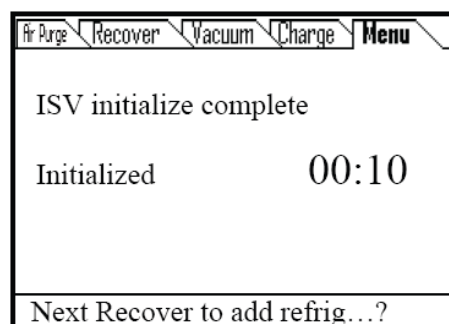
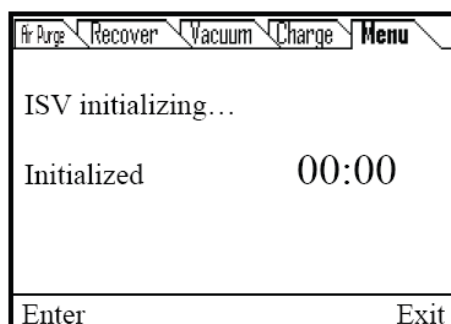
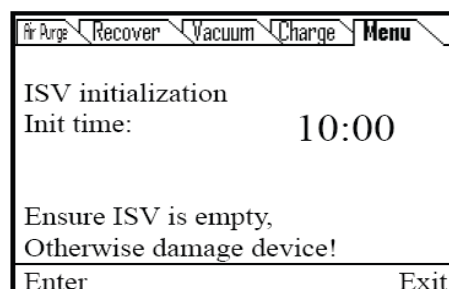
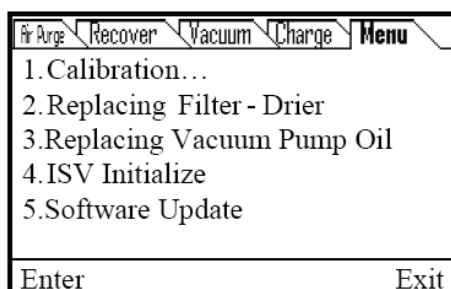
Replacing Filter-Drier



Replacing Vacuum Pump Oil



Internal Storage Vessel (ISV) Initial Setting



Check Filter-Drier Capacity Value

Air Purge	Recover	Vacuum	Charge	Menu
1.Filter-Drier Capacity				
2.Vacuum Pump Oil Time				
3.Pressure-Keeping Time				
4.Select Language				
5.Change Password				
6.Recycle in Vacuuming				
Enter				Exit

Air Purge	Recover	Vacuum	Charge	Menu
Set Filter-Drier Capacity				
Default Value:				
				068.0Kg
Used:				
				000.0Kg
Enter				Exit

Check Vacuum Pump Oil Time

Air Purge	Recover	Vacuum	Charge	Menu
1.Filter Weight				
2.Vacuum Pump Oil Time				
3.Pressure-Keeping Time				
4.Select Language				
5.Change Password				
6.Recycle in Vacuuming				
Enter				Exit

Air Purge	Recover	Vacuum	Charge	Menu
Set vacuum pump time target:				
				010.0 hours
Used:				
				000.0 hours
Enter				Exit

Change Pressure Keeping Default Time

Air Purge	Recover	Vacuum	Charge	Menu
1.Filter Weight				
2.Vacuum Pump Oil Time				
3.Pressure-Keeping Time				
4.Select Language				
5.Change Password				
6.Recycle in Vacuuming				
Enter				Exit

Air Purge	Recover	Vacuum	Charge	Menu
Set pressure-keeping time:				
X:XX				
Enter				Exit

Password Change

Air Purge	Recover	Vacuum	Charge	Menu
1.Filter Weight 2.Vacuum Pump Oil Time 3.Pressure-Keeping Time 4.Select Language 5.Change Password 6.Recycle in Vacuuming				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
Input current password: XXXX				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
Input new password: XXXX				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
Confirm new password: XXXX				
Enter		Exit		

Language

Air Purge	Recover	Vacuum	Charge	Menu
1.Filter Weight 2.Vacuum Pump Oil Time 3.Pressure-Keeping Time 4.Select Language 5.Change Password 6.Recycle in Vacuuming				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
Select Language: 中文 English				
Enter		Exit		

Recycle Setting in Vacuuming Process

Air Purge	Recover	Vacuum	Charge	Menu
1.Filter Weight 2.Vacuum Pump Oil Time 3.Pressure-Keeping Time 4.Select Language 5.Change Password 6.Recycle in Vacuuming				
Enter		Exit		

Air Purge	Recover	Vacuum	Charge	Menu
Recycle in Vacuuming? Yes No				
Enter		Exit		

Database Function

Database	
1. SPX Database	
2. Motor Info Database	
3. Custom Database	
4. History Record	
Enter	Exit

Database	Year
	2007
	2006
	2005
	2004
	2003
	2002
	2001
Enter	Exit

PASSAT L4 1.8L	
Refrigerant Kg:	0.7
Oil g (new):	250
Refrigerant type:	R134a
Oil g (condenser):	25
Oil g (evaporator):	50
Oil g (hose):	25
Oil g (driver):	25
Enter	Exit

Air Purge	Recover	Vacuum	Charge	Menu
		Vacuum Time:		Auto
		Charge Weight:		0.500 Kg
		Oi-injection:l		Auto
		PASSAT L4 1.8L		
		Refrigerant Kg:		0.7
		Oil g (hose):		25
Please set vacuum time				

Database	
1. Look up Custom Database	
2. Add New Data	
Enter	Exit

Database	
Year:	2008
Maker:	SHANGHAI VW
Model:	PASSAT
Engine_size L:	1.8L
Enter	Exit