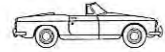
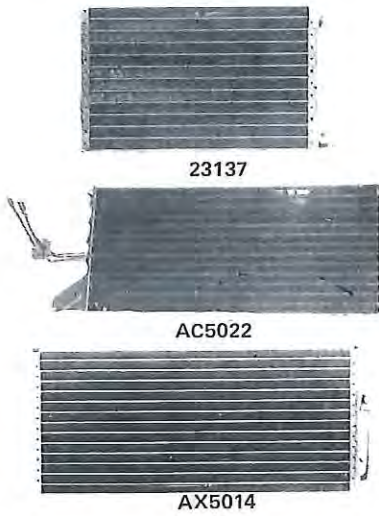




AUTOMOTIVE AIR CONDITIONING



Cool-Drive CONDENSERS



CAT. NO.	Cool-Drive P/N	Condenser Type	DIMENSIONS	
			mm	ins.
80550	SM1021	Modine	308 x 581 x 19	12-1/8 x 22-7/8 x 3/4
80551	SM1022	Modine	356 x 460 x 19	14 x 18-1/8 x 3/4
80553	SM1023C	Modine	356 x 581 x 19	14 x 22-7/8 x 3/4
80554	SM1024	Modine	260 x 451 x 19	10-1/4 x 17-3/4 x 3/4
80555	SM1025	Modine	260 x 431 x 19	10-1/4 x 17 x 3/4
80558	23135	Modine	241 x 460 x 25	9-1/2 x 18-1/8 x 1
80559	23136	Modine	289 x 460 x 25	11-3/8 x 18-1/8 x 1
80560	23137	Modine	289 x 489 x 22	11-3/8 x 19-1/4 x 7/8
80561	23138	Modine	308 x 581 x 19	12-1/8 x 22-7/8 x 3/4
	043-0624	Cabmaster	598 x 190 x 51	23-5/8 x 7-5/8 x 2
	23139	Modine	335 x 489 x 22	13-1/4 x 19-1/4 x 7/8
	AC5014	Modine	737 x 330 x 22 XD - XE Falcon	29 x 13 x 7/8
	AC5022		XD - XE Ford Factory "O" Ring Tube and Fin	

Cool-Drive

CONDENSER FAN ASSEMBLIES



CAT. NO.	COOL-DRIVE PART No.	DESCRIPTION
	ES1612 12V	Universal Side Condenser c/w hardware 12 Volt
	ES1724 24V	Universal Side Condenser c/w hardware 24 Volt

Cool-Drive

ELECTRIC FANS



CAT. NO.	COOL-DRIVE PART No.	DESCRIPTION
	ES0912	Universal 12V c/w wiring, brackets and hardware - Shroud
	ES0912A	As above less wiring, brackets and hardware
	ES0912 12"	5 Blade 12" Motor & Fan only less Shroud, wiring & hardware

HI-LINE BLOWER WHEELS



CAT. NO.	MFG. P/N	DESCRIPTION
80518	16-2505	ABS plastic, RIGHT HAND. 3-3/16" Diam. x 3-3/8" long, Double Inlet, 5/16" shaft size
80519	16-2505	DITTO — LEFT HAND
80520	16-2506	ABS plastic, UNIVERSAL. 3-3/16" Diam. x 3-3/4" long, Double Inlet, 5/16" shaft size
80521	16-2520	ABS plastic. 4-1/2" Diam. x 3-1/4" long, Double Inlet, 5/16" shaft size
80522	16-2521	ABS plastic. 5" Diam. x 2-1/2" long, Double Inlet, 5/16" shaft size
80523	16-2552	For Holden HX/Torana plus distance plate. Use with Motor 15-2434



AUTOMOTIVE AIR CONDITIONING



Cool-Drive CLUTCHES

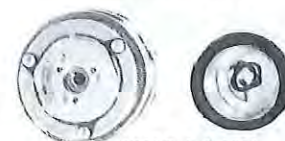
CAT. NO.	PART No.	DESCRIPTION
80637	MA6A 12V	Twin Groove 6" 2A Section 12 Volt
80638	MA6A 24V	Twin Groove 6" 2A Section 24 Volt
80639	MA6AM 12V	Twin Groove 6" 2A Sect. 12 Volt suit TM101R and RS
80640	MA6AM 24V	Twin Groove 6" 2A Sect. 24 Volt suit TM101R and RS
80642	MA6B 12V	Single Groove 6" 1B Section 12 Volt
80643	MA6B 24V	Single Groove 6" 1B Section 24 Volt
80644	MA6BM 12V	Single Groove 6" 1B Sect. 12 Volt suit TM101R and RS
80645	MA6BM 24V	Single Groove 6" 1B Sect. 24 Volt suit TM101R and RS
80647	MA7A 12V	Twin Groove 7" 2A Section 12 Volt
80648	MA7A 24V	Twin Groove 7" 2A Section 24 Volt
80649	MA7B 12V	Twin Groove 7" 2B Section 12 Volt
80650	MA7B 24V	Twin Groove 7" 2B Section 24 Volt
	(MRCP5-3-SA161AX)	Replacement Clutch CPR100
	MS5-1-4A2G	Replacement Clutch Sanyko 5 1/2" 12 Volt
	AXC5-1-4 12V	Replacement Clutch FS507 - 508 5 1/4" A Section 12 Volt
	AXC6A 12V	Replacement Clutch FS507 6" A Section 12 Volt
	AXC6B	Replacement Clutch FS507 6" B Section 12 Volt



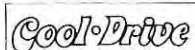
MA6A 12V



MA6BM 12V



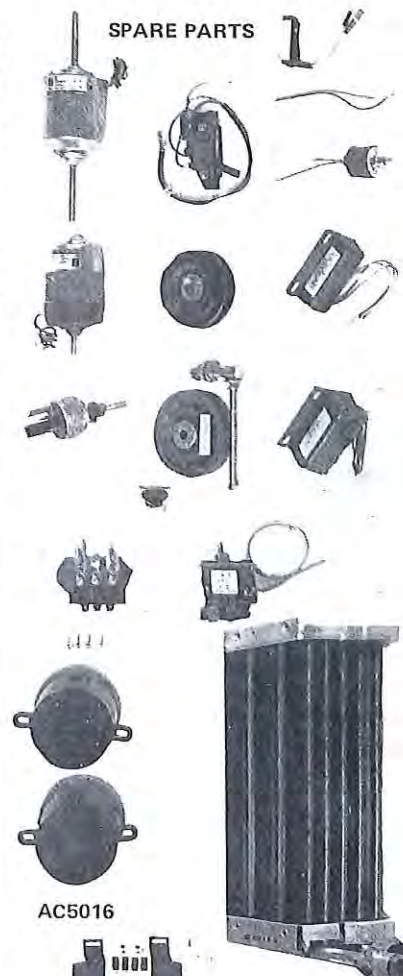
AXC5-1-4 12V



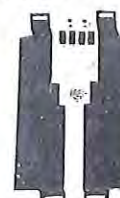
SWITCHES, EVAPORATORS AND MISCELLANEOUS PARTS

CAT. NO.	PART No.	DESCRIPTION
	018-0880	Three Speed Fan Switch Cool-Drive III - GX2
	011-1180	Blower Switch Supreme II
	011-2180	A/C Switch Ford OE and Repco
	018-1980	Blower Switch Old Supreme
	018-1880	Thermostat Switch Old Supreme
	018-3780	Resistor 12V Cool-Drive - Supreme - GX2 - Cabmaster - Repco Commodore
	001-1220	Evaporator Coil Cool-Drive III
	001-1320	Evaporator Coil Supreme - GX2
	001-1719	Cabmaster Coil Old (Straight Suction Pipes)
	001-1720	Cabmaster Coil New (Bent Suction Pipe)
	001-2408	Evaporator Coil suit most Integrated Evaporators
	002-0145	Knob Cool-Drive - Cabmaster
	005-3914	Blower Motor 24V (Underdash) and Cabmaster
	005-2680	Condenser Motor Cabmaster 12V
	005-2480	Blower Motor 12V (Underdash) and Cabmaster
	005-3908	Blower Motor Commodore (Repco)
	005-3915	Condenser Motor Cabmaster 24V
	16012LA	Complete Front Cool-Drive III
	18012LA	Complete Front Supreme II
	20012LA	Complete Front GX2
	042-3109	Relay Control suit New Cabmaster CM1
	042-1780	Relay Integrated Evaporator where black box not used
	042-2980	Relay Control Box Integrated (Black Box) (Small)
	042-1080	Relay Control Box Integrated Old Type (Large)
	8595-61-200B	929L Factory A/C - Fan Switch
	10800K	Universal Sack Kit
	AC5013	Universal Sack Kit
	AC5021	Commodore Custom Sack Kit
	AC5028	XE - XD Custom Sack Kit
	AC5029	Sigma Custom Sack Kit
	80101	Palcon Relay Universal Idle Cut-Out
	CET12	Console Edge Trim
	SAC-33C	Idle Cut-Out suit Repco Integrated Evaporators - Plug in to existing Relay Box
	B100K	Idler Pulley Kit
	PC77420	Plastic A Sect. 90 mm Diam.
	PC77420D	Plastic A Sect. 90 mm Diam. c/w Centre Bolt and Adj. Bolt
	PC77120	Steel A Sect. 100 mm Diam.
	PC77121	Steel A Sect. 87 mm Diam.
	AC5016	XD Ford Rear Eyeball Kits
	AC5011	XD - XE Condenser Stays suit AC5014 Condenser

SPARE PARTS



AC5016



AC5011



10800K

8

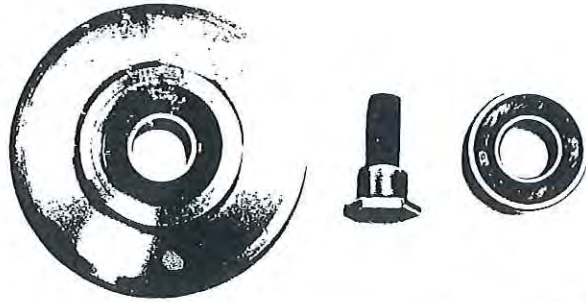


AUTOMOTIVE AIR CONDITIONING PULLEYS — ECCENTRICS — FAN SPACERS



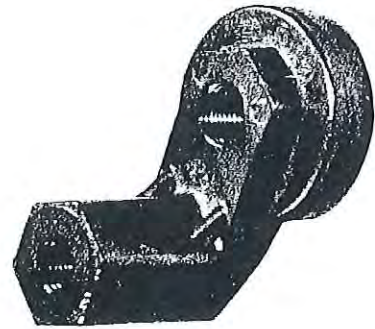
HI-LINE IDLER PULLEY

CAT. NO.	MFG. PART NO.	DESCRIPTION
8071	25-5301	IDLER PULLEY with bearing
8072	25-5302	BEARING
8073	25-5303	SNAP RING
8074	25-5304	IDLER PULLEY BOLT



HI-LINE ECCENTRIC (ALUMINIUM)

CAT. NO.	MFG. PART NO.	DESCRIPTION
80713	26-5408	ECCENTRIC 7/8"
80714	26-5410	ECCENTRIC 1"
80715	26-5412	ECCENTRIC 1.1/8"
80716	26-5414	ECCENTRIC 1.1/4"
80717	26-5416	ECCENTRIC 1.3/8"
80718	26-5418	ECCENTRIC 1.1/2"
80719	26-5420	ECCENTRIC 1.5/8"
80720	26-5422	ECCENTRIC 1.3/4"
80721	26-5424	ECCENTRIC 1.7/8"
80722	26-5426	ECCENTRIC 2"
80723	26-5428	ECCENTRIC 2.1/8"



SMITHS ALUMINIUM FAN SPACERS

CAT. NO.	MFG. PART NO.	DESCRIPTION
80726	27-5501	1/8" No Pilot
80727	27-5502	3/16" No Pilot
80728	27-5504	1/4" With Pilot
80729	27-5505	5/16" With Pilot
80730	27-5507	3/8" With Pilot
80731	27-5509	7/16" With Pilot
80732	27-5510	1/2" With Pilot
80733	27-5512	5/8" With Pilot
80734	27-5514	3/4" With Pilot
80735	27-5516	7/8" With Pilot
80736	27-5518	1" With Pilot
80737	27-5522	1.1/4" With Pilot
80738	27-5526	1.1/2" With Pilot
80739	27-5528	1.5/8" With Pilot
80740	27-5529	1.3/4" With Pilot
80741	27-5530	2" With Pilot
80742	27-5532	2.1/4" With Pilot





AUTOMOTIVE AIR CONDITIONING

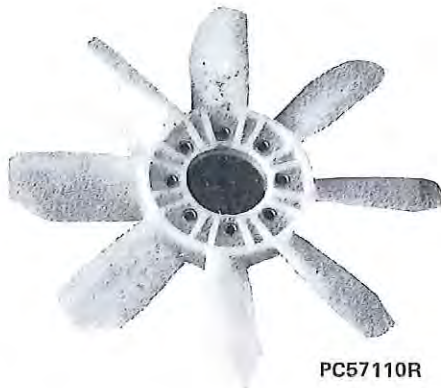


Cool-Drive

ENGINE FAN BLADES



PC57110D



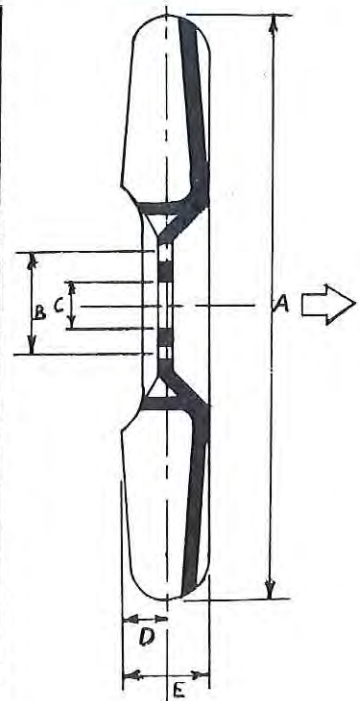
PC57110R



672100

ENGINE FAN SPECIFICATIONS AND DIMENSIONS (mm)

CAT. NO.	PART No.	Diameter		Boss Hole Size	Circle Line Clearance	Full Blade Width	Number Blades
		A	Hole Pitch Circle B				
	PC57110 A	360	40	16	23	45	6
	PC57110 C	360	60	32	23	45	6
	PC57110 D	340	50	24	31	46.5	5
	PC57110 E	360	44	16	22.5	39.5	6
	PC57110 F	340	60.3	26	18.9	43.4	6
	PC57110 G	340	45	16	20	44.5	5
	PC57110 L	380	128	90	30	50	6
	PC57110 M	270	44	16	15.5	40.5	4
	PC57110 N	340	44	16	20	44.5	5
	PC57110 P	360	50.5	16	24	45	6
	PC57110 R Holden-Ford	450	49	16	33.1	55.1	8
	PC57110 T	340	50	24	31	46.5	5
	PC57110 V	340	56	24	20	46.5	6
	PC57110 W	380	50	32	23	45	6
	4200016 Commodore	360	44	16	22.5	39.5	6
METAL							
	651000 Fixed	385	49	16		38	6
	652000 Fixed	385	49	16		50	6
	671000 Fixed	430	49	16		38	6
	672000 Fixed	430	49	16		50	6
	672100 Fixed	440	49	16		45	6
	682000 Fixed	460	49	16		58	6



SPACER KITS

CAT. NO.	KIT No.	Spacer mm	Thread	Bolt Diam. mm	Length mm
	NC 63-00	12.7	NC	0.8	63
	NC 76-00	12.7	NC	0.8	76
	NF 32-00	12.7	NF	0.8	32
	NF 50-00	12.7	NF	0.8	50
	NF 63-00	12.7	NF	0.8	63
	NF 70-00	12.7	NF	0.8	70
	NF 82-95	12.7	NF	0.8	83
	NF 90-63	12.7	NF	0.8	90
	NF 95-00	12.7	NF	0.8	95
	NF 108-00	12.7	NF	0.8	108
	NF 114-70	12.7	NF	0.8	115

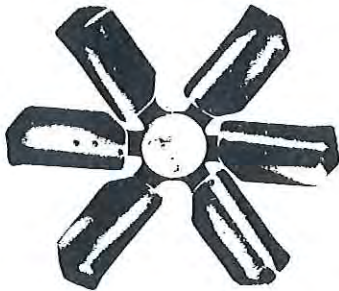




AUTOMOTIVE AIR CONDITIONING ENGINE FAN BLADES — FAN CLUTCHES



HI-LINE ENGINE FANS



CAT. NO.	MFG. PART NO.	SIZE	NO. BLADES	TYPE
8081	28-5720	15" x 2"	6	6-15 Heavy Duty
8082	28-5701	18" x 2"	6	6-18 Heavy Duty
8083	28-5704	17" x 2"		Clip Blade
8084	28-5705	17" x 2"	6	6-17 Heavy Duty
8085	28-5706	17" x 1"	6	6-17 Thin Line
8086	28-5738	14" Flex	6	6-14 Thin Line
8087	28-5725	15" Flex	6	6-15 Thin Line
8088	28-5739	13" Flex		
8089	28-5740	16"		Plastic Montchal



SMITHS FAN CLUTCHES

Two basic types of Silicone Fluid Controlled Fan Clutches are available
Thermostatic and Non-Thermostatic

Both types perform the same function - to control fan speed in relation to engine cooling demands. These Fan Clutches provide maximum cooling effect at low engine speeds - without over-cooling, excessive noise or power loss and motor drag at high speeds.

Non-Thermostatic Clutches are designed to fit all Rebuilt Water Pumps as well as the New Units.

CAT. NO.	TYPE
80824	THERMOSTATIC
80825	NON-THERMOSTATIC

SMITHS FAN CLUTCH BLADES

Designed to produce increased cooling output when mated with Fan Clutches. Used with either Thermostatic or Non-Thermostatic Clutch.



CAT. NO.	DIAMETER	SHAFT SIZE	BOLT DIAMETER	PITCH WIDTH
80814	18.1/4	2.5/8	3.1/4	2.3/8
80815	18.1/4	2.3/8	3	2
80816	17.1/4	2.5/8	3.1/4	2.3/8
80817	17.1/4	2.3/8	3	2

SMITHS FLEX FAN BLADES

Two sizes fit all Fan Clutches. Unique flexing action of light, non-rusting aluminium blades flattens fan pitch as RPM increases; thereby lessening noise, power loss and excessive drag to give increased engine mileage.

CAT. NO.	DIAMETER	SHAFT SIZE	BOLT DIAMETER	PITCH WIDTH
80820	17.1/4	5/8	5/16	Variable
80821	15.1/4	5/8	5/16	Variable



AUTOMOTIVE AIR CONDITIONING MOTORS AND SWITCHES

811



HI-LINE MOTORS

CAT. NO.	MFG. PART NO.	DESCRIPTION
8111	15-2411	12 volt, three speed, 5/16" double shaft length 3.3/8"
8112	15-2430	12 volt, single speed, 5/16" single shaft.
8113	15-2434	Torana/Holden High Speed.



HI-LINE SWITCHES

CAT. NO.	MFG. PART NO.	DESCRIPTION
81126	12-2101	FOUR POSITION SWITCH, 12 volt with resistors, off-low-medium-high, for use with single speed motors.
81127	12-2102	FOUR POSITION SWITCH, 12 or 24 volt without resistors, for use with three speed motors.
81128	12-2156	FAN SWITCH, 12 volt, closes contacts at 230#, opens contacts at 180#, used to operate condenser fans.
81129	12-2160	CIRCUIT BREAKER, 12 volt, 30 amp D.C. rating, automatic reset. Spade terminals.
81130	12-2160	CIRCUIT BREAKER, 12 volt, 30 amp 25168. Threaded.
81131	21-1210	AUTO RELAY (Car 121B)



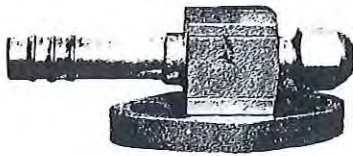
IF IT IS NOT LISTED IN THIS CATALOGUE — ASK US ANYWAY
WE HAVE MANY ITEMS AND ACCESSORIES TOO NUMEROUS TO LIST
WE CAN PROBABLY HELP YOU



AUTOMOTIVE AIR CONDITIONING SERVICE VALVES — BRACKETS — ADAPTOR KITS



HI-LINE COMPRESSOR SERVICE VALVES



21-4620



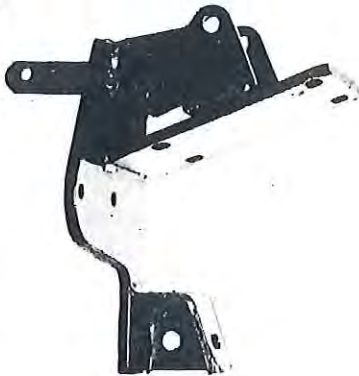
21-4630



21-4670

CAT. NO.	MFG. P/N	DESCRIPTION
8131	21-4620	SERVICE VALVE, Pad type, Dill/Schrader, 5/8" barb.
8132	21-4621	SERVICE VALVE, Pad type, Dill/Schrader, 1/2" barb.
8133	21-4630	SERVICE VALVE, Pad type, Dill/Schrader, 5/8" flare.
8134	21-4631	SERVICE VALVE, Pad type, Dill/Schrader, 1/2" flare.
8135	21-4660	SERVICE VALVE, Rotolock, Dill/Schrader, 5/8" barb.
8136	21-4661	SERVICE VALVE, Rotolock, Dill/Schrader, 1/2" barb.
8137	21-4670	SERVICE VALVE, Rotolock, Dill/Schrader, 5/8" flare.
8138	21-4671	SERVICE VALVE, Rotolock, Dill/Schrader, 1/2" flare.

MOUNTING BRACKETS — ADAPTOR KITS



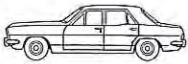
DUE TO THE WIDE VARIETY OF MAKES, MODELS AND TYPES OF VEHICLES, PLUS THE INTRODUCTION OF NEW MODELS FROM TIME TO TIME IT IS NECESSARY TO PROVIDE US WITH EXACT SPECIFICATIONS SO THAT THE CORRECT MOUNTING BRACKETS AND ADAPTOR KITS CAN BE SUPPLIED.

WHEN ORDERING

PLEASE SPECIFY

MAKE
MODEL
YEAR
ENGINE 4/6/8/V8 and Size.
STEERING Std/Power
MODIFICATIONS to Standard.

Example
Holden
Gemini
1977
4 Cyl.
Std.
None



AUTOMOTIVE AIR CONDITIONING HOSE — HOSE FITTINGS — COUPLINGS



IMPERIAL AIR CONDITIONING HOSE — STYLE Y4

CAT. NO.	IMPERIAL P/N	HOSE I.D. INS	HOSE O.D. INS	MAX. OPERAT. PRESS.	MIN. BURST. PRESS.	MIN. BEND. RADIUS
8161	Y406	5/16	.72	400 psi	1750 psi	4"
8162	Y408	13/32	.87	400 psi	1750 psi	5"
8163	Y410	1/2	.97	400 psi	1600 psi	5"
8164	Y412	5/8	1.09	400 psi	1600 psi	6"

Y4
AIR CONDITIONING
REFRIGERANT-12



IMPERIAL CRIMP TYPE HOSE COUPLINGS FOR STYLE Y4 HOSE

CAT. NO.	IMPERIAL PART NO.	HOSE I.D.	TUBE O.D.	THREAD SIZE	DIMENSIONS — INS				
					A	B	C	E	F

MALE STRAIGHT COUPLING — 45° SAE FLARE

	FD06-06MS	5/16"	3/8"	5/8"-18	2.64	1.55	.23	.62	
	FD08-08MS	13/32"	1/2"	3/4"-16	2.81	1.72	.33	.75	
	FD10-10MS	1/2"	5/8"	7/8"-14	3.17	1.98	.42	.87	
	FD12-12MS	5/8"	3/4"	1,1/16"-14	3.37	2.22	.51	1.06	

FEMALE STRAIGHT COUPLING — 45° SAE FLARE SWIVEL

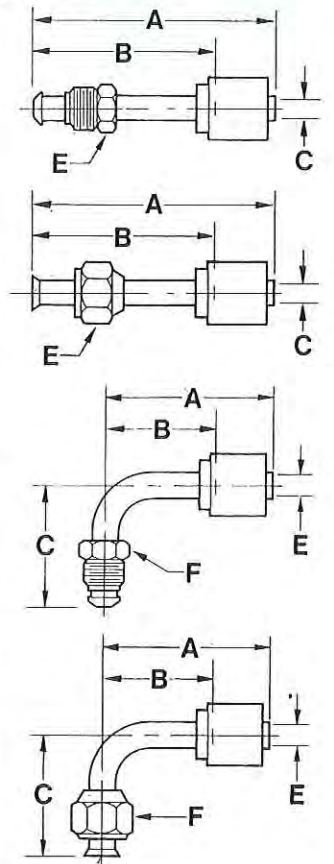
8166	FD06-06NS	5/16"	3/8"	5/8"-18	2.06	.97	.23	.81	
8167	FD08-08NS	13/16"	1/2"	3/4"-16	2.19	1.09	.33	.94	
8168	FD10-10NS	1/2"	5/8"	7/8"-14	2.42	1.23	.42	1.06	
	FD12-12NS	5/8"	3/4"	1,1/16"-14	2.56	1.41	.51	1.25	

BENT TUBE (90°) — MALE 45° SAE FLARE

	FD06-06MS90T	5/16"	3/8"	5/8"-18	2.19	1.09	1.83	.23	.62
	FD08-08MS90T	13/16"	1/2"	3/4"-16	2.44	1.34	2.12	.33	.75
	FD10-10MS90T	1/2"	5/8"	7/8"-14	2.78	1.59	2.58	.42	.87
	FD12-12MS90T	5/8"	3/4"	1,1/16"-14	2.81	1.66	2.62	.51	1.06

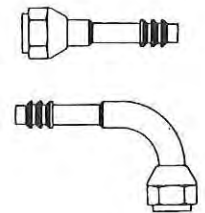
BENT TUBE (90°) — FEMALE 45° SAE FLARE SWIVEL

81610	FD06-06NS90T	5/16"	3/8"	5/8"-18	2.19	1.09	1.22	.23	.81
81611	FD08-08NS90T	13/16"	1/2"	3/4"-16	2.44	1.34	1.50	.33	.94
81612	FD10-10NS90T	1/2"	5/8"	7/8"-14	2.78	1.59	1.83	.42	1.06
	FD12-12NS90T	5/8"	3/4"	1,1/16"-14	2.81	1.66	1.81	.51	1.25



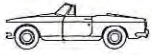
PUSH-ON HOSE/S.A.E. 45° FLARE FITTINGS

CAT. NO.	TYPE	APPLICATION	THREAD SIZE	HOSE I.D.	HOSE NO.
81616	STRAIGHT	Liquid Line	5/8 - 18	5/16	6
81617	FEMALE	Discharge Line	3/4 - 16	13/32	8
81618	FLARE	Suction Line	7/8 - 14	1/2	10
81619	90° ELBOW	Liquid Line	5/8 - 18	5/16	6
81620	FEMALE	Discharge Line	3/4 - 16	13/32	8
81621	FLARE	Suction Line	7/8 - 14	1/2	10

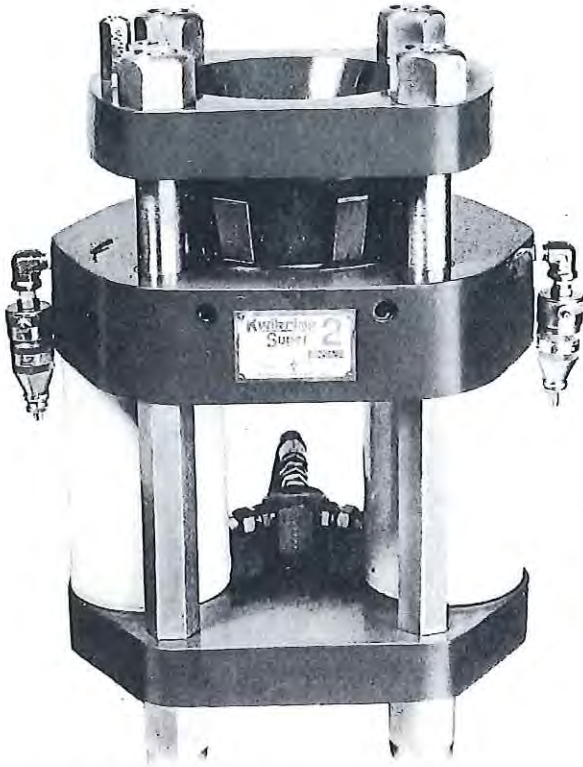


NOTE : FIRST 3 NUMERALS OF CAT. No. INDICATES PAGE No.

ACPAR PARTS -- TO HELP YOU BUILD REFRIGERATION SYSTEM RELIABILITY



AUTOMOTIVE AIR CONDITIONING IMPERIAL KWIKRIMP® SYSTEM



WE HAVE THIS MACHINE
AND CAN MAKE UP
PERFECT HOSE ASSEMBLIES
WHILE YOU WAIT

2" I.D. Assembly
2,500 psi working pressure



1/4" I.D. Assembly
5,000 psi working pressure
or anything in between

HERE IS WHAT WE DO

K-601 Kwikrimp Super 2 (3/16" to 2" hose sizes)

The most versatile Kwikrimp made. Enables you to combine the reliability of factory engineered hose assemblies with the convenience of on-the-spot production. Handles all Kwikrimp hose and couplings through 2" size. Extra large bowl opening and split rams permit attachment of bent stem couplings through the 2" size. System includes a heavy duty K-601 machine, rugged two stage power unit with connecting hose, six sets of dies with storage cabinet. Size of crimping unit: 18 1/2" wide x 12 1/2" deep x 22 1/2" high. Weight 370 lbs. Pat. No. 3,805,580.

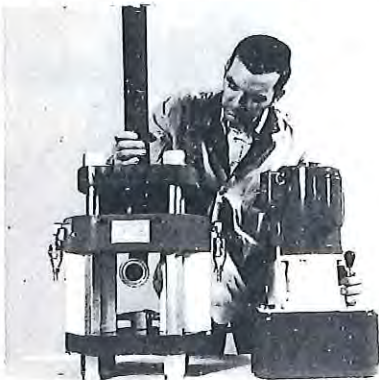
1

Select the desired coupling style and size. Insert into hose end.



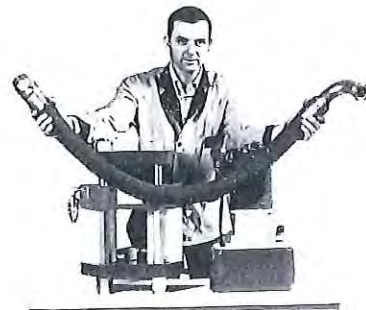
2

Set gauge and position hose and coupling in top of machine. Operate pump until pin is flush with top of gauge.



3

Crimping gauge indicates when crimp is completed. Presto! A perfect assembly.



WE WILL BE GLAD TO QUOTE ON LARGE QUANTITIES



AUTOMOTIVE AIR CONDITIONING SERVICE KITS



IMPERIAL

Here's all you need to handle air conditioning service jobs. Imperial's master service kit includes a professional charging manifold, complete with gauges and charging lines, Tap-A-Can dispensing valve for tapping refrigerant cans, 4-way ratchet wrench, goggles, thermometer and a 90° swivel adaptor. A complete Auto Air Conditioning Service Manual covering service and repair techniques is included.

490-F Air Conditioning Service Kit

CAT. NO. 8181

Contents of Kit:

- 10-C 90° swivel adaptor
- 124-C 4-way ratchet wrench
- 336-FTB 3' blue charging hose
- 336-FTR 3' red charging hose
- 338-C Universal Tap-A-Can dispensing valve
- 360-FTY 5' yellow charging hose
- 380-G One pair safety goggles
- 495-C Brass charging manifold with pressure and compound gauges
- 602-T Dial thermometer — 1-3/8" face
- 5100 Complete service manual for air conditioning systems in cars and light trucks.

All items in kit available separately.



GM-6 CYLINDER COMPRESSOR TOOL KIT

The three popular types of compressors currently used on U.S. auto air conditioning systems are:

1. G.M. Frigidaire/Delco air conditioning — 10500
 2. York Models A-206, 209 and 210 — 10550
 3. Tecumseh HG850 and HG1000 — 10550
- } See Below

Two economical tool sets have been developed for field servicing of shaft bearings and seals for the above models — 10500 and 10550. Each tool is a necessity, and a definite time saver.



YORK AND TECUMSEH COMPRESSOR TOOL KIT

10549 Compressor seal puller



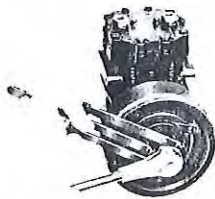
40748 Pkg. of 4 replacement fingers.



10546 Clutch spanner wrench



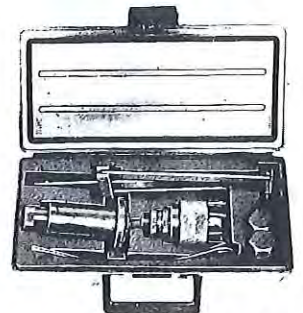
Also services Eaton, Pitts and Warner clutches.



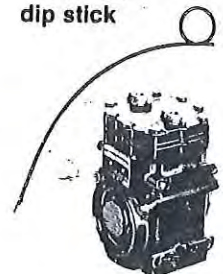
10547 Seal installer and Seal plate aligner



10548 Clutch removing bolts



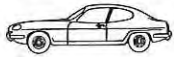
10545 Oil dip stick



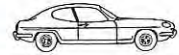
CAT. NO. 81815*	G.M. FRIGIDAIRE/DELCO KIT	Part No. 10500
CAT. NO. 81816*	YORK/TECUMSEH KIT	Part No. 10550

* Also Cat. Nos. 35059 and 35636 Refrig/Air Cond. Section 6

818-a



AUTOMOTIVE AIR CONDITIONING

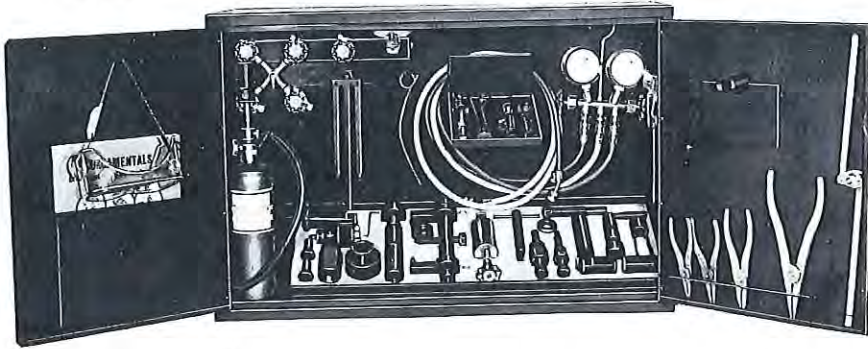


SERVICE KITS TOOLS AND EQUIPMENT

ROBINAIR® AIR CONDITIONER TOOL CABINET KIT

Part No. 10475

CAT. NO. 81817



Includes convenient metal storage cabinet and air conditioner service tool package. Cabinet has moulded plastic tool organizer, metal pockets, and hangers for easy tool accessibility. Cabinet locks to protect tools from pilferage. Cabinet may be hung on wall near service area or placed on work bench. Kit contains all the tools necessary to perform air conditioning service when used with an appropriate vacuum pump. System testing, leak detection, compressor repair and system charging can be performed with these tools. Also includes service manual and system diagnosis chart. Dimensions of cabinet: 229 mm Deep x 508 mm High x 762 mm Wide (9" x 20" x 30")

KIT 10475 Consists of:

- 40155 Manifold
- 10501 Pulley Puller
- 10502 Pulley Installer/Bearing Remover and Installer
- 10503 Seal Assembly Remover and Installer
- 10504 Hub Drive Plate Remover Kit
- 40687 Clutch Assembly Remover
- 10505 Hub & Drive Plate Assembly Installer
- 40689 Clutch Plate and Pulley Installer
- 10507 Seal Seat Remover and Installer
- 10508 O-Ring Remover
- 10509 O-Ring Installer
- 10510 Snap Ring Installer

- 10513 Ceramic Seal Remover & Installer
- 10514 Shaft Seal Protector
- 10515 Evacuating and Charging Valve
- 10517 Compressor Test Plate
- 10538 Propane Leak Detector
- 10540 Pocket Thermometer
- 10545 Oil Dip Stick
- 10546 Clutch Spanner Wrench
- 10547 Seal Installer & Seal Plate Aligner
- 10548 Clutch Removing Bolts
- 10549 Shaft Seal Puller
- 10551 EPR Valve Remover & Installer
- 10559 4-Way Ratchet Wrench
- 10561 Service and Training Manual

- 10569 Dial Thermometer
- 10576 Oil Injector
- 10598 V.I.R. Service Tool Set
- 10678 Refrigerant Check Valve
- 10683 Internal Snap Ring Pliers
- 11001 "Taps-All" Can Valve
- 11004 Multi-Can Dispensing Valve
- 12008 Goggles
- 14161 Snap Ring Pliers No. 21
- 14162 Snap Ring Pliers No. 22
- 14163 Snap Ring Pliers No. 23
- 14166 Snap Ring Pliers No. 26
- 14401 Multi-Head Fin Straightener
- 40661 Tool Cabinet

MULTI-HEAD FIN STRAIGHTENER

14401



Six fin straighteners in one—6 in 1—will clean and straighten

condenser and evaporator coil fins having spacings of 8, 9, 10, 12, 14, 15 fins per inch. Small, compact, easy to use in confined spaces. The need to keep condenser and evaporator fins free of debris makes this tool a must for auto air conditioning servicemen.

CAT. NO. 81811

ILLUMINATED INSPECTION MIRROR

14145



Powered by standard "pen-lite" batteries this inspection mirror is intended primarily to inspect installation of the "O" ring seal in the shaft housing while compressor is still mounted on the car. Batteries not included.

CAT. NO. 81813*

*Also Cat. No. 35063 Refrig/Air Cond. Section 6

COMPRESSOR OIL INJECTOR

10576



Adding oil to air conditioning compressors is at best a slow process without this tool on cars without shut-off valves. The refrigerant charge is wasted and some disassembly required. 10576 is used in conjunction with a gauge manifold assembly. It utilizes the pressure differential from the high to the low side of the system to inject 2 oz. of oil into the unit.

CAT. NO. 8189

GOGGLES

12008



Essential safety equipment for all mechanics servicing air conditioners. Liquid refrigerant escaping from a loose or broken fitting will freeze any object and can cause permanent injury to the eyes. Built for protection from liquid.

CAT. NO. 81810



AUTOMOTIVE AIR CONDITIONING



EVAPORATORS - EVAPORATOR & COMPLETE SYSTEMS

Cool-Drive

EVAPORATOR SELECTION :

May be Integrated, Universal Underdash or Commercial.

- Integrated** - Designed to suit specific vehicles and includes all following components:
Evaporator, Custom Hose Set, Receiver-Drier, Condenser and Bracket, Small Parts Kit, Heavy Duty Fan (where applicable)
Note: Although an Integrated system may be recommended, it may be substituted by a Universal Underdash Kit.
- Universal Underdash Kits** contain the following components:
Condenser (Large or Small), Universal Hose Kit, Receiver-Drier, Small Parts Kit, Evaporator (Various types).
- Commercial** - Refer Repco Cool-Drive Catalogue for complete details.

COMPLETE SYSTEMS - See below.

CAT. NO.	PART No.	DESCRIPTION
EVAPORATORS ONLY		
	16012	Cool-Drive III, 3 speed fan, automatic thermostat, 24 pass, 3-way evaporator inlet and exhaust manifold, 360 x 140 x 310 mm evaporator size, 340 cu. metre per hour dry blower air volume (12,200 cu. ft.), 13,000 B.T.U. rating.
	18012	Supreme II has all the features of the Cool-Drive III plus: Larger 32 pass, 4-way evaporator inlet and exhaust manifold, 400 x 137 x 349 mm evaporator size, 400 cu. metre per hr. dry blower air volume (14,100 cu. ft.), 17,000 BTU rating.
	20012	12 Volt Galaxy 32 has same large capacity as the Supreme. It features a directional eye ball for personalised air flow and a remote control, finger tip fan speed switch which makes it ideal for larger vehicles and commercial applications.
	20024	24 Volt Galaxy has same large capacity as the Supreme. It features a directional eye ball for personalised air flow and a remote control, finger tip fan speed switch which makes it ideal for larger vehicles and commercial applications.



16012



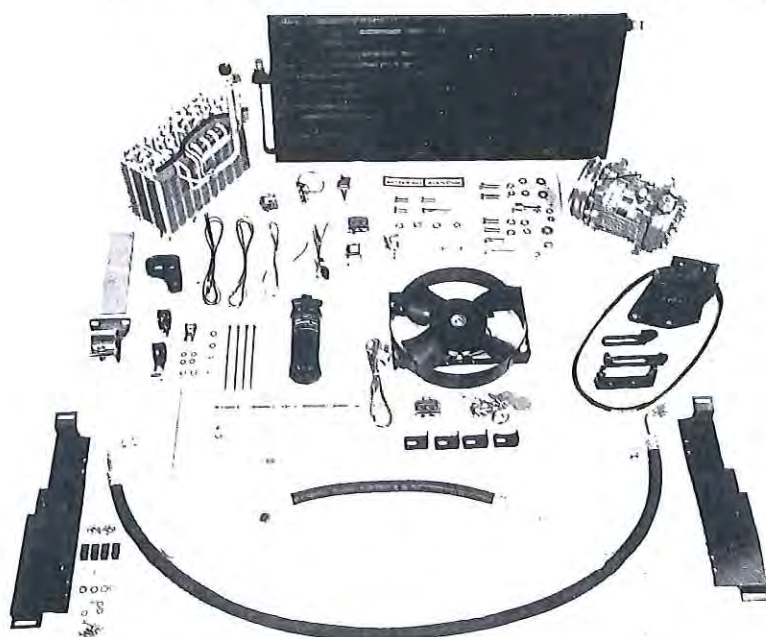
18012



20012-20024

Cool-Drive

COMPLETE SYSTEMS



EXAMPLE FORD FALCON COMPLETE SYSTEM.
AC603-1206CE.

Complete systems are available for several popular makes :

e.g. Ford Falcon, Holden Commodore and Camira, Mazda and Mitsubishi Sigma.

When ordering it is essential that correct identification of the vehicle is supplied:

Make

Model

Year

Engine 4/6/8/V8 and Size

Steering - Std. or Power

Modifications to standard

Remember: A complete system comes as two packages unless specified otherwise:

1. Mount Compressor Kit.
2. Evaporator Kit.

Details available on application

819-a

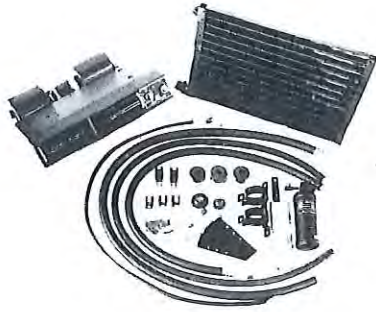


AUTOMOTIVE AIR CONDITIONING

EVAPORATOR SYSTEMS - COMPLETE SYSTEMS



Cool-Drive



6A



GX2ASC

CAT. NO.	PART No.	DESCRIPTION
EVAPORATOR SYSTEMS		
81968	6A	Cool-Drive III Evaporator -- 19 x 12 x 3/4 Condenser
81965	9A	Cool-Drive III Evaporator -- 23 x 14 x 3/4 Condenser
81967	909A	Supreme Evaporator -- 23 x 14 x 3/4 Condenser
	GX2C	12V GX2 Remote Fan Switch Evaporator -- 19 x 12 x 3/4 Condenser
81966	GX2 12V	12V GX2 Remote Fan Switch Evaporator -- 23 x 14 x 3/4 Condenser
	GX2 24V	24V GX2 Remote Fan Switch Evaporator -- 23 x 14 x 3/4 Condenser
	GX2A	12V GX2 23 x 14 x 3/4 -- 4 metre Bulk Hose Liquid
	GX2B	Same as above in 24 Volt
	GX2ASC	12V Same as above with 12V Side Condenser
	GX2BSC	24V Same as above with 24V Side Condenser
	6AT	Cool-Drive III -- 19 x 12 x 3/4 -- Bulk Hose Suction-Liquid -- 48" Discharge Hose
	9AT	Same as above with 23 x 14 x 3/4 Condenser
	9ATC	Same as above c/w Tecumseh Compressor -- Maga Clutch
	9ATSC	Cool-Drive III -- Side Condenser 12V -- Bulk Hose Liquid-Suction -- 48" Discharge Hose
81969	CM1	Cabmaster Roof Top c/w Hoses -- Fittings 12V
	CM1 24V	Cabmaster Roof Top c/w Hoses -- Fittings 24V
	CM2	Cabmaster II Floor Mounted Evaporator only 12V
	CM2 24V	Cabmaster II Floor Mounted Evaporator only 24V
	CM3	Cabmaster III Interior Roof Mounted Evaporator only 12V
	CM3 24V	Cabmaster III Interior Roof Mounted Evaporator only 24V

Note: All above Evaporator Systems are packed in one box complete with Universal Hose Kit, Flare/Barb Drier, Fittings and Sack Kits, unless specified otherwise.



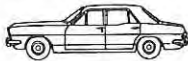
CM1 CABMASTER



CM2 CABMASTER



CABMASTER INTERIOR FACIA



AUTOMOTIVE AIR CONDITIONING COMPRESSORS



Cool-Drive

CAT. NO.	PART No.	DESCRIPTION
	CPR100	4 Vane Rotary 7.5 cu. in. 12V
	CPR120	4 Vane Rotary 9.5 cu. in. Sankyo Mounting 12 Volt
	SS808	5 Vane Rotary 8.4 cu. in. Sankyo Mounting Twin Groove A Sect. 12 Volt
	SS809	5 Vane Rotary 9.5 cu. in. Sankyo Mounting Twin Groove A Sect. 12 Volt
	SS809-24V	5 Vane Rotary 8.4 cu. in. Sankyo Mounting 118 mm Twin Groove A Sect. Clutch 24 V
	SS809-B	5 Vane Rotary 8.4 cu. in. Sankyo Mounting 135 mm Single Groove B Sect. Clutch 12 V
	SS809-B24V	5 Vane Rotary 8.4 cu. in. Sankyo Mounting 135 mm Single Groove B Sect. Clutch 24 V
82030	FS507-5-25A	Centrota 7.5 cu. in. 5 1/4" Twin Groove A Sect Clutch 12 Volt
82032	FS507-6A	Centrota 7.5 cu. in. 6" Twin Groove A Sect Clutch 12 Volt
82035	FS507-6B	Centrota 7.5 cu. in. 6" Single Groove B Sect Clutch 12 Volt
82038	FS508-5-25A	Centrota 8.3 cu. in. 5 1/4" Twin Groove A Sect Clutch 12 Volt
	TM101	6 cu. in. Reciprocating York Mounting Less Clutch
	TM101R	6 cu. in. Reciprocating Special 3 Bolt Clutch Mounting
	TM10RS	6 cu. in. Reciprocating Special 3 Bolt Clutch Mounting
	TM123	9 cu. in. Reciprocating York Mounting Subs for F209 York
82040	F206	6 cu. in. York
82044	F210	10 cu. in. York
	SD5 12V	Sankyo 8.3 cu. in. 5 1/4" Twin Groove A Sect Clutch 12 Volt
	SD5 24V	Sankyo 8.3 cu. in. 5 1/4" Twin Groove A Sect Clutch 24 Volt
	SD5-B	Sankyo 8.3 cu. in. 6" Single Groove B Sect Clutch 12 Volt
	SD5-6B 24V	Sankyo 8.3 cu. in. 6" Single Groove B Sect Clutch 24 Volt
82017	HG1000	10 cu. in. Tecumseh (Cast Iron) Heavy Duty
	HG1000	Remanufactured Tecumseh 10 cu. in.
82041	F206EX	Remanufactured York 206 Exchange
82043	F209EX	Remanufactured York 209 Exchange
82045	F210EX	Remanufactured York 210 Exchange
	F210FEX	Remanufactured York Ford Factory Exchange
82031	FS507-5-25AEX	Remanufactured Centrota 507 5 1/4 A Sect.
82033	FS507-6AEX	Remanufactured Centrota 507 6A Sect.
	FS507-6BEX	Remanufactured Centrota 507 6B Sect.
82037	FS508-5-25EX	Remanufactured Centrota 508 5 1/4 A Sect.



FORD FACTORY
REMANU.



TM123

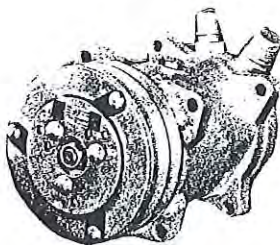


CPR100



FS508-5 1/4 A

ABACUS — SANKYO



CAT. NO.	MODEL	Displac. cu. ins.	DESCRIPTION
81010	SD508	8	12V — 5 1/4" Clutch
81011	SD507	7	12V — 5 1/4" Clutch
81012	SD506	6	12V — 5 1/4" Clutch

KIRBY — TECUMSEH



MODEL
HG 1000

REFER
Cool-Drive
Table Above
AND
PAGE 260
FOR FULL
DETAILS

KIRBY CAR AIR HR980 Automotive Compressor



FEATURES

- Reduced Package Size
- Lower Weight
- Maximum Application Flexibility
- Contemporary Round Configuration
- Minimum Refrigerant Leak Potential
- Improved Efficiency
- Advantageous NVH Characteristics (noise — vibration — harshness)
- High Quality and Reliability
- Cost Effective

PHYSICAL CHARACTERISTICS

- Basic Design
 - Crankcase Assembly
 - Crankshaft
 - Housing
 - Radial
 - Diecast Aluminium
 - Forged Steel
 - Drawn Steel
 - Weight - Less Clutch
 - Number of Cylinders
 - Cubic in. Disp./rev
 - Factory Oil Charge
 - Refrigerant
- 4 kg (8.9 lb.)
4
9.8
8.0 oz.
R12

CAT. NO. 82050

An innovative adaption of proven mechanism has made it possible to assemble 4 cylinders in a radial design within an extremely small package. This package is easily contained within a nearly hermetic, drawn steel, welded housing, eliminating refrigerant leak potentials commonly associated with bolts and gaskets.

The resulting configuration permits use of a zero bearing load, nose mounted clutch, and a field proven shaft seal uniquely cooled by a combination of refrigerant gas and oil mist.

While this shaft seal design and performance will undoubtedly surpass the outstanding reliability record of present designs, the seal can be replaced easily with existing tools and fixtures now utilized by most facilities.

In terms of power savings, the HR980 gains from strong reductions in pressure drop contributed by the uni-directional refrigerant gas flow and the relatively large bore, large valve area, short stroke design. In terms of Noise, Vibration and Harshness, the radial arrangement of the cylinders, the short stroke, the advantages of 4 smaller pulses, all contribute to reduced pressure spikes.



AUTOMOTIVE AIR CONDITIONING SERVICE AIDS



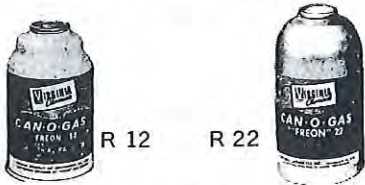
DISPOSABLE REFRIGERANT CYLINDERS



FREON® - A Du Pont TM.

CAT. NO.	REFRIGERANT	CYLINDER SIZE	PART No.
185103	R12	15 lb.	G12/15
185104	R12	30 lb.	G12/30
185105	R12	50 lb.	G12/50
185106	R22	15 lb.	G22/15
185107	R22	30 lb.	G22/30
185108	R22	50 lb.	G22/50

VIRGINIA CAN-O-GAS®



FREON® - A Du Pont TM.

The handy refrigerant in the throwaway container

- Easy, reliable way to add refrigerant to:
 - Automotive air conditioners
 - Window air conditioners
 - Freezers
 - Refrigerators
 - Water coolers
 - Vending machines
 - Ice cream cabinets

			CAT. NO.
R12	14 oz. Can No. CF121FT	(Flat Top)	18584
R22	1 lb. Can No. CF221ST	(Screw Top)	18564
R22	2 lb. Can No. CF222ST	(Screw Top)	18561
R114	1 lb. Can		18562
R502	1 lb. Can		18563
DYTEL * CONCENTRATE	14 oz. Can		

* DYTEL CONCENTRATE — DYTEL® is a bright red dye used for detecting leaks in air conditioning and refrigeration systems

- Easy to use — has good solubility and stability with the refrigerants and oils — at low and high temperatures.
- It pinpoints the leaks — the red colour appears at the location of the leak, sometimes in a matter of minutes. Locates both large and also multiple leaks close together.
- It is a liquid — no solid residues to cause plugging of expansion devices, strainers, or filter-driers.
- It is non-inflammable — can be used in areas where a flammable atmosphere may present a hazard as with some types of leak detectors.
- It is non-reactive — has no affect on metals, oils, or insulation materials in refrigeration systems. Does not affect performance of liquid line moisture indicators.
- Especially useful for automotive air conditioning.



VIRGINIA CAN-O-GAS® SAFETY RELIEF TOP CAN

Refrigerant 12, 14 oz. Can with Safety Relief Tapping Ring Top to prevent accidental bursting of can due to excessive internal pressure during charging. Pierce tapping of can through plastic ring.

14 oz. Can	CAT. NO. 18584
Plastic Safety Tapping Ring	CAT. NO. 18585



IMPERIAL TAP-A-CAN VALVES

No. 338-C Universal Tap-a-Can Valve fits all refrigerant cans. Has both plain and threaded spud top. 1/4" flare connection fits standard charging lines.

CAT. NO. 18568

ROBINAIR CAN TAPPING VALVES

Fits all flat top or threaded cans. Installed in a second by simply pressing the cam type locking device. Positive cam action insures against accidental blow off.

CAT. NO. 18575



REFER REFRIG. & AIR CONDITIONING SECTION 2 Pages 185, 185-a and 185-b FOR COMPLETE DETAILS ON REFRIGERANTS AND DISPENSING EQUIPMENT



AUTOMOTIVE AIR CONDITIONING

IMPERIAL SERVICE AIDS



SERVICE MANIFOLDS

Deep Vacuum Valve Design

Diaphragm valve design operates with fingertip precision. One turn to full open.

T-Grip Controls

Non-slip even with oily fingers.

Built-in Hose Closures

Hose ends screw into special body fittings.

4-Port Connections

Permit connecting vacuum, low side, high side and refrigerant lines at the same time. 4th port with depressor valve provides vacuum connection. Connections are 1/4" flare.

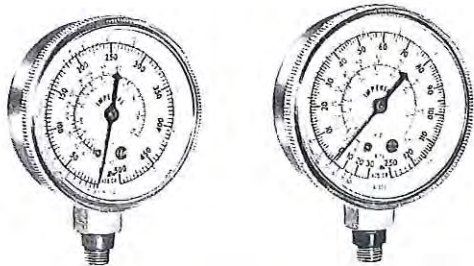
Tough Gauge Crystals

Impact resistant Lexan.
Front recalibration.

MODEL 453 - CB

CAT. NO. 34960

2 1/2" ADJUSTABLE PRESSURE AND COMPOUND GAUGES



CAT. NO.	MODEL	SIZE	TYPE	RANGE kPa	TEMP. °C REFRIG.	FINISH
33034	423-CK	2 1/2"	Pressure	0 - 3400	R12,22,502	Red Paint
33035	425-CK	2 1/2"	Compound	-100 - 0 - 1700	R12,22,502	Blue Paint

DUAL SCALE (kPa/PSI) GAUGES ALSO AVAILABLE -- Refer Pages 330-a & 330-b

RATCHET WRENCHES



Covers 4 Sizes

Steel forged wrench has reversible ratchets. 9/16", 1/2" hex, 1/4" and 3/16" square ratchet.

124-C Ratchet Wrench.

CAT. NO. 35427



Covers 4 Sizes

Compact chrome plated wrench specially designed for use in hard to reach places. 1/4", 3/8", 3/16" and 5/16" square ratchets.

127-C Ratchet Wrench.

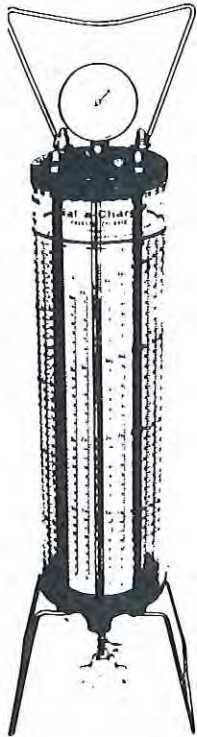
CAT. NO. 35429

REFER ALSO REFRIG./AIR CONDITIONING SECTIONS FOR:

- Service Manifolds — Pages 349-b and 349-c.
- Gauges — Pages 330-a, 330-b and 349.
- Wrenches — Pages 354 and 354-a.



AUTOMOTIVE AIR CONDITIONING SERVICE AIDS



Dial-a-charge® charging cylinders

Duplicate factory accuracy when recharging systems in the field
Accuracy ± 1/4 oz.

Dial-A-Charge Charging Cylinders permit the serviceman to easily compensate for volume fluctuations resulting from temperature variations. They allow the serviceman to buy refrigerant in economical drums and provide accuracy in recharging, eliminating and over and under charging which might require call backs.

These cylinders are provided with heating elements. The use of the cylinders with the heating element allows the serviceman to overcome equalization of pressure between the system and the charging cylinder and reduce time required to recharge.

Cylinders with heating elements eliminate the need to warm with a heating blanket, or immerse the cylinder in a container of hot water or heat the base with a torch.

Simply "dial" the calibrated plastic shroud so the pressure heading at the top of the shroud corresponds to the gauge reading and the cylinder is ready to charge. Cylinders have shut-off valves with Teflon seats for finger tip control in charging systems to factory specifications, and are accurate to 1/4 oz. of refrigerant when charging system.

WARNING

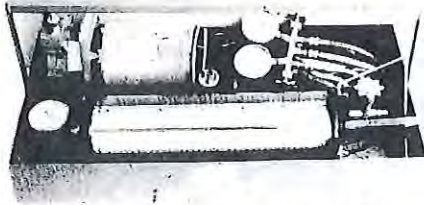
Due to the chemical nature of most refrigerants, high ambient and working temperatures will cause high pressures within the cylinder. To eliminate this potentially dangerous condition all Robinair Charging Cylinders are equipped with automatic pressure relief valves for your safety.

CAT. NO.	PART No.	CAPACITY GRAMS	GAUGE	GRADUATION INCREMENTS
34916	20310	1100	kPa/PSI	25 g
34912	20311	2200	kPa/PSI	25 g
34913	20312	4400	kPa/PSI	50 g
REPLACEMENT PARTS				
	14764	Cylinder Pressure Gauge kPa/PSI		
	14322	Replacement Heating Element		
34951	43291	Sight Glass		
34952	10746	1100	Gasket Kits :	
34953	10747	2200	Sight Glass and	
34954	10748	4400	Inner Cylinder	



CHARGING STATIONS

TAKE YOUR SERVICE SHOP TO THE JOB

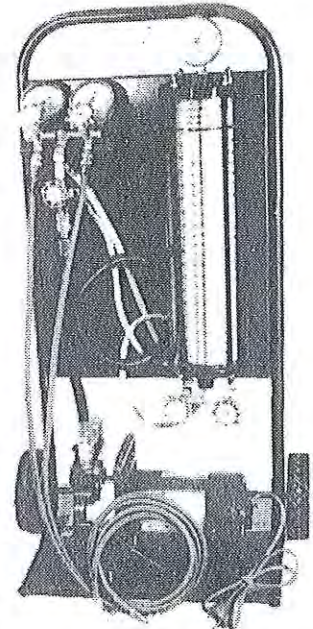


ROBI-PAK P/N 49001

These portable charging kits are designed as the ideal service aid for appliance and automotive repair shops. Consists of:
15096 High Vacuum Pump
43769 5 lb. Charging Cylinder
40153 Gauge Manifold Set

These portable charging stations are designed as the ideal service aid for appliance and automotive repair shops. They are also used by some servicemen to make home repair calls. Utilizing the 15096 Vacuum Pump and one of the heated Dial-A-Charge Charging Cylinders along with the necessary manifold, gauges, lines, etc., these units require only one hook-up to dehydrate and recharge a refrigerant system. For appliance repair, they are ideal for window air conditioners, freezers, refrigerators, etc. since they are mobile and can be taken to the job. This same feature makes them the only practical piece of equipment available for garage mechanics working on automotive air conditioners.

The carts are constructed with 5/8" square steel handles, framing rigid sheet metal support plates and mounted on 1" x 8" wheels.



13105

CAT. NO.	PART No.	CYLINDER CAPACITY lbs.	PUMP CAPACITY CFM	DESCRIPTION
349125	13105	5	1	PORTABLE CHARGING STATION
349126	13106	10	1	
349133	49001	5	1	ROBI-PAK CHARGING KIT

ACTROL KEEPS YOU UP - TO - DATE
WE ARE CONTINUALLY STUDYING THE LOCAL AND INTERNATIONAL MARKETS
TO MAKE AVAILABLE THE MOST MODERN TYPE OF EQUIPMENT



AUTOMOTIVE AIR CONDITIONING SERVICE AIDS

824

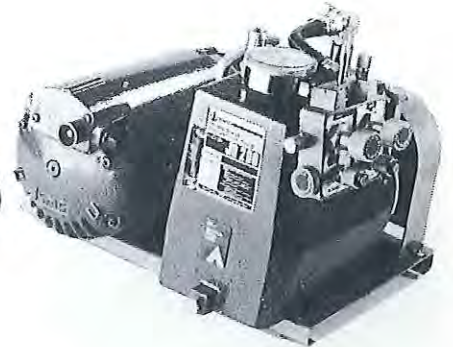
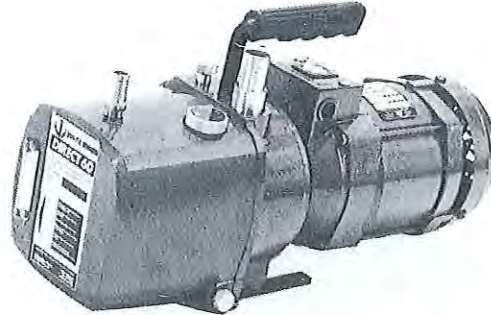
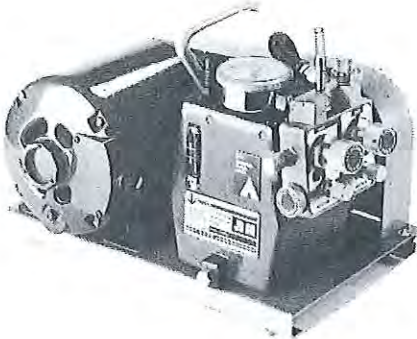


Javac

JIGTOOL

HIGH VACUUM PUMPS

AND INTRODUCING THE
NEW JAVAC "DIRECT 60"
HIGH VACUUM PUMP



The New "J" Series of Vacuum pumps are fully described on Page 362 – Technical Specifications are shown in the table below
In addition, Javac have now developed a completely new high vacuum pump – the "DIRECT 60" – Details as follows:

This new style High Vacuum Pump has been developed for the scientific, industrial and general market. The new Javac DIRECT 60 High Vacuum Pump is a single stage in-line configured pump, which has been designed using some advantages of a belt-driven system employed to the direct drive principle. Previously, direct drives were complex/difficult to repair and suffered from excessive bearing wear – not so with the Javac DIRECT 60. The well known VACPAK® system employed in the Jigtool "J" range has been adapted into the Javac Direct 60 and now features quick removal without the need to disconnect or break the vacuum system. Further to this, a positive displacement oil pump feeds a monitored quantity of oil to the bearing and seal face to ensure long bearing life and high ultimate vacuums. It also completely eliminates oil suck-back, common to most direct drive vacuum pumps.

Cosmetically, the Javac DIRECT 60 is low profile and light weight with all the important components in easy reach.

Additional features include gas ballast, on/off switch, fan cooled continuously rated alloy motor, low noise, vibration and operation temperature serve to make the Javac DIRECT 60 ideal for all applications.

Precise machining and repeatability ensure all parts are of the highest possible quality. This is maintained by computer controlled machining centres and strict quality control, thus all components are fully interchangeable and easily replaced.

The Javac DIRECT 60 is priced below any competitive high vacuum pump, having superior performance and quality and coupled to the Jigtool "know how" to ensure it of world wide success.

JAVAC "DIRECT 60" FEATURES

- Single stage high vacuum pump.
- Direct drive.
- Low weight – alloy fan cooled motor.
- On/Off switch.
- Convenient carry handle.
- Sturdy base – can be bolted down.
- Full gas ballast.
- Large throughput suction fitting (Others available).
- Quiet vibration free operation.
- Positively no oil suck-back (built-in oil pump).
- Fully "O" ring sealed – no glues.
- Replaceable VACPAK® cartridge.
- Easy to dismantle and service modular form.
- Oil level not critical – will operate over a wide range, hence low maintenance.
- High vacuum capability better than 50×10^{-3} torr (50 microns).
- High flow rate of 60 litres/min.
- Net weight 12.5 kg.
- Australian designed and manufactured.
- All components interchangeable as built on computer controlled machinery.
- Fully guaranteed for 12 months.

CAT. NO.	MODEL	CAPACITY L/min.	PUMP RPM	OIL CHARGE Litre	MOTOR HP	SUCTION FITTING OD mm	WEIGHT kg	ACCESS'Y FITTING	REPLAC. VACPAK® CARTR'GE CAT. NO.
SINGLE STAGE – Vacuum - Better than 50×10^{-3} torr (6.5 Pa) (50 microns)									
36210	Direct 60	60	1440	0.5/0.7	1/3	20	12.5	Optional	
SINGLE STAGE – Ultimate Vacuum 20×10^{-3} torr (2.64 Pa) (20 microns)									
36213	JS60	60	800	0.9	1/3	20	19	—	36282
	JSR60*	60	800	0.9	1/3	20	21	Manifold	
	JS120	120	800	0.7	1/3	20	21	—	36285
	JSR120*	120	800	0.7	1/3	20	23	Manifold	
	JS200	215	660	1.3	1/3	25	24	—	36288
36221	JSR200*	215	660	1.3	1/3	25	26	Manifold	
DOUBLE STAGE – Ultimate Vacuum 1×10^{-3} torr (.13 Pa) (1 micron)									
36214	JD60	60	800	0.7	1/3	20	21	—	36283
36215	JDR60*	60	800	0.7	1/3	20	23	Manifold	
36218	JD120	120	800	1.3	1/3	20	24	—	36286
36219	JDR120*	120	800	1.3	1/3	20	26	Manifold	
36220	JD200	215	660	1.7	1/2	25	34	—	36288
36222	JDR200*	215	660	1.7	1/2	25	36	Manifold	

NOTES: * All "R" (Refrigeration Series) units are fitted with a scale trap incorporating charging/nitrogen sweep valve, pump isolation valve, leak detector, compound/vacuum gauge and system connection hoses. All units feature replaceable VACPAK® Cartridge. All motors 240 Volt 50 Hz. with 1.8 m (6 ft.) lead. RECOMMENDED OIL – SUNISO 3GS – Refer Page 184.

REFER PAGE 362 FOR SERVICE ON VACPAK® CARTRIDGES AND VACUUM PUMPS

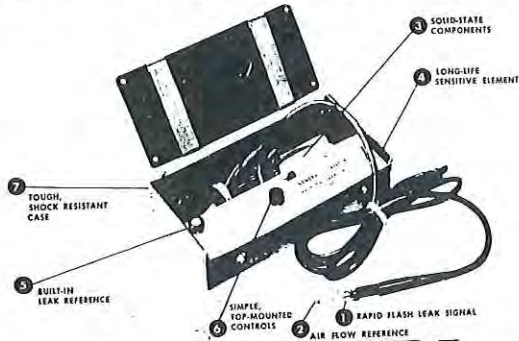


AUTOMOTIVE AIR CONDITIONING SERVICE AIDS



LEAK DETECTORS

GENERAL ELECTRIC "H-10A" -ELECTRONIC TYPE - 240V. A.C.



The G.E. H-10A Leak Detector draws in sample air through the probe tip. There is an instantaneous signal flash when you are near a leak. The faster the light flashes, the closer you are to the leak. An easy-to-see ball float built into the probe gives you a constant check on airflow through the probe. Solid state components add long life and minimise maintenance. The sensitive platinum element seldom requires replacement. When it does, a replacement simply plugs in. Has handy top-mounted controls for quick settings and adjustments. The H-10A's sensitivity is easily regulated with the Hi-Low switch. Hi can be used for most jobs; Low is for auto. air conditioner leaks.

SPECIFICATIONS

Power Supply: 240 volts, 50 cycles, 12 watts.
 Sensitivity: 0.5 oz/year of R12 on Hi. 1.0 oz/year of R12 on Low.
 Response Time: Approx. 1 second.
 Reference Leak: R11 (refillable) Approx. life, 1 year.
 Warm-up Time: Approx. 1 minute.
 Dimensions: 114 x 66 x 216 mm (4.5 x 2.6 x 8.5 inches). Weight: 1 kg (2.2 lb).

CAT. NO. 3512

MODEL H-10A G.E. ELECTRONIC LEAK DETECTOR

New Leak Detector for Refrigeration Engineers

HALOTECK

- Rapid Response • Audio Output
- No Warm-up Time • Only one control
- Sensitive to less than 1/10th. oz. per year
- Battery Operated • Lightweight • Built-in Test Leak
- Completely new design sensor tip insensitive to draughts

SPECIFICATIONS

Sensitivity: Better than 1/10th oz/yr. R12. Response Time: 0.1 sec. to 1 oz/yr. leak R12
 Battery: 9 volt alkaline (PP3 size) Battery Life: 30 hours normal use
 Duty Cycle: Continuous Operating Temperature: 0°C to 40°C
 Check Leak: Nominally 1/2 oz/yr (14 g/yr) Probe Length: 240 mm (9.5")
 Weight: 305 g (10.7 oz) with batteries and spares
 Spares Supplied: 1 spare sensor, 1 pack filters, 1 check leak

CAT. NO.	TYPE No.	DESCRIPTION
35146	78.000	Halotek Leak Detector



WATSCO

SEARCH®

THE HIGH VISCOSITY LEAK DETECTOR FOR REFRIGERANT AIR AND GAS SYSTEMS

Search is packaged in an unbreakable squeeze type bottle with self-applicator.

Search is clean, non toxic and easy to apply. Simply apply Search to the suspicious area and watch for the bubbles to appear.

CAT. NO. 3502



Search is a special formula developed to pin-point the slightest leak, by applying it to the suspicious area. It's important to note that Search will not run off freely like a soap and water type solution. Its high viscosity enables Search to cling and wrap itself around the tube or fitting . . . As a result all possible leakage points, including normally hard to reach areas are covered, without causing unnecessary mess.
NOTE : Search is a safety must for auto. air-conditioner servicing, since it incorporates no open flame.

ROBINAIR® TEST INSTRUMENTS

THERMISTOR VACUUM GAUGE



CAT. NO. 36116

14010 Battery Operated. Range : 25,000—0 microns
 Accuracy : 10 microns ±2.5 microns
 50 microns ±7.5 microns
 500 & up ±10%
 Battery Operated : 6 Alkaline "D" Cells
 Battery Life : 250—300 hours
 Compensated for Ambient Temp. : From 30°F to 120°F
 Has a unique type bridge circuit which compensates for changes in ambient temperature and variance in battery voltage. Provides a means of monitoring the pull down of the vacuum pump on a system. Indicates leaks in a system if instrument shows increasing pressure reading. Two types of operation are provided — the null method providing greatest accuracy, and a direct meter reading which gives a continuous monitoring of evacuation progress in the system.

TEMPERATURE TESTER

(Four Jack - Dual Range — 14845)

Range: -45.6°C to 37.8°C Low
 37.8°C to 148.9°C High
 Accuracy: -17°C to +93°C ±1°C
 Balance of scale ±2°C

Display: Large 4-1/4" x 3-3/16" meter
 Size: 10" x 7-1/2" x 3-3/8"
 Leads: Has 4 jacks for detachable leads. Unit is supplied with two 43913 15 ft. general purpose leads. Additional leads available - P/N's 43913 thru 43918. Refer Page 339-a.

Operates on 1 "D" cell battery (not included). Unit is self-contained in portable carrying case.

CAT. NO. 3399



14845



AUTOMOTIVE AIR CONDITIONING TOOLS AND ACCESSORIES



VIRGINIA PT1 PRESSTITE INSULATION TAPE

Used to wrap expansion valve, thermal sensing bulb, suction lines or other parts to protect from engine heat. Insulates and seals. Stops water drip. Sticks to all metal and rubber parts. Self-adhering.

CAT. NO. 21087

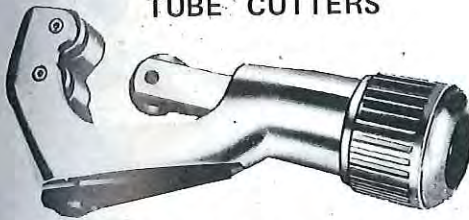
FIN COMBS



For Straightening and Cleaning
Evaporator and Condenser Fins

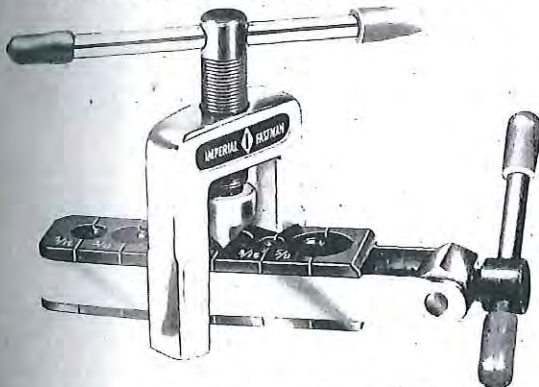
REFER REFRIG./AIR COND. SECTION 6
PAGE 347

TUBE CUTTERS



REFER REFRIG./AIR COND. SECTION 6
PAGES 356, 356-a, 356-b, 356-c

FLARING & SWAGING TOOLS



REFER REFRIG./AIR COND. SECTION 6
PAGES 348, 348-a, 348-b, 348-c, 348-d

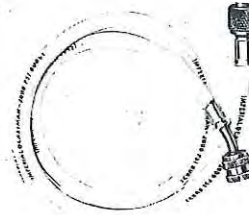


OILS

REFER
REFRIG./AIR COND.
SECTION 2

PAGES
184 & 184-a

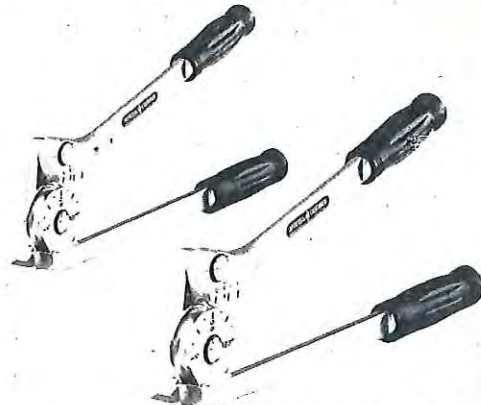
CHARGING LINES



REFER
REFRIG./AIR COND.
SECTION 6

PAGES
349-a, 349-c

TUBE BENDERS



REFER REFRIG./AIR COND. SECTION 6
PAGES 355, 355-a

SPRING TYPE TUBE BENDERS




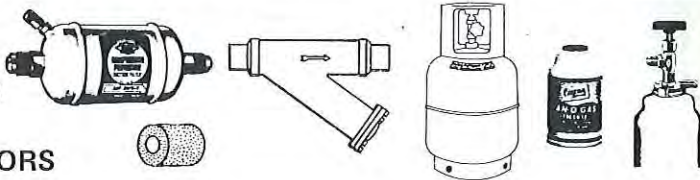
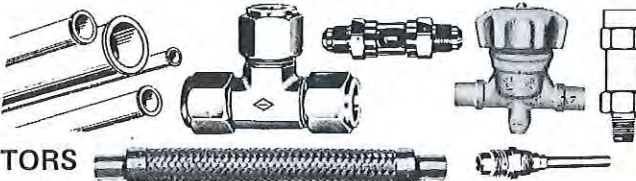


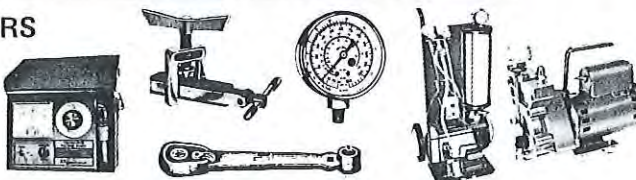

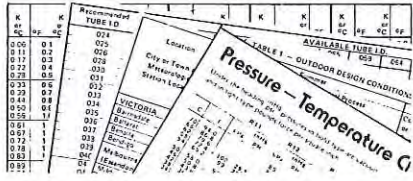
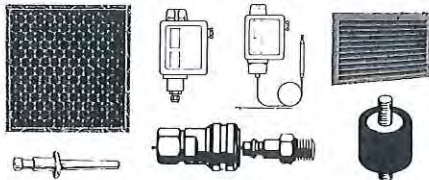
REFER REFRIG./AIR COND. SECTION 6
PAGE 355.

PICK-UP COUNTERS EVERYWHERE

AS WE GO TO PRESS THERE ARE 30 LARGE WAREHOUSES THROUGHOUT AUSTRALIA WITH STOCK FOR IMMEDIATE PICK-UP INCLUDING FAST COUNTER SERVICE. THE COMPLETE LISTING IS AT THE FRONT OF THIS CATALOGUE. IN MOST CASES THESE BRANCHES ARE IN LOCATIONS WITH FREE PARKING.

ACTROL PARTS CATALOGUE & TECHNICAL MANUAL NO. 4
COMPILED, TYPESET AND PRODUCED BY:-
TECHNICAL MARKETING RESOURCES PTY. LTD., MELB.
PRINTED BY:- RAMSAY WARE STOCKLAND PTY. LTD., MELB.

QUICK REFERENCE TABLE OF CONTENTS

tion	Section Index Colour	INDEX
1	Blue	<p>VALVES – AX/TX/REG./SOLENOID/ REVERSING/HOT GAS REFRIG. DISTRIBUTORS PRESS./TEMP. CONTROLS T'STATS, TIME CONTROLS</p> 
2	Purple	<p>FILTERS, DRIERS, STRAINERS DRYING AGENTS, DESICCANTS REFRIGERANTS, OILS, TEST KITS REFRIGERANT SERVICE AIDS CLEANERS, SOLVENTS, PROTECTORS</p> 
3	Yellow	<p>LINE FITTINGS & TUBING PIPE INSULATION & ADHESIVES VALVES – CHECK, RELIEF, AMMONIA LIQUID/MOISTURE INDICATORS SIGHT GLASSES, VIBRATION ELIMINATORS</p> 
4	Orange	<p>CABINET ACCESSORIES – HARDWARE COMPRESSORS & COND. UNITS – PARTS ADHESIVES, SEALANTS, MASTICS, TAPES INSULATION, COOL ROOM EQUIP. – FDC's SYSTEM COMPONENTS – AIR CURTAINS</p> 
5	Pink	<p>FAN BLADES & MOTORS, EXHAUST FANS MOTORS & STARTERS TERMINALS, BATTERIES RELAYS, OVERLOADS, CAPACITORS BOOKS, ELECTRICAL APPLIANCES</p> 
6	Red	<p>INSTRUMENTS, TOOLS, THERMOMETERS PRESSURE GAUGES, ELECT. METERS SOLDERS, BRAZING ALLOYS, FLUXES LEAK DETECTORS, VACUUM PUMPS SERVICING & CHARGING EQUIPMENT</p> 
7	White	<p>ENGINEERING & TECHNICAL DATA METRIC CONVERSION DESIGN INFORMATION FORMULAE, TABLES, CHARTS A USEFUL & PRACTICAL SECTION</p> <div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p style="font-weight: bold;">Metric Conversion</p>  </div> <div>  </div> </div>
7	Green	<p>INDUSTRIAL EQUIPMENT – CONTROLS, SWITCHES VALVES, PUMPS, COUPLINGS, WATER TREATMENT OIL BURNER CONTROLS, ELECTRONIC COMPONENTS NOISE & VIBRATION CONTROL PRODUCTS, GRILLES FILTERS/FILTER MEDIUM, LABELS, FASTENERS</p> 
8	Gold	<p>AUTOMOTIVE AIR CONDITIONING COMPRESSORS, CONDENSERS, EVAPORATORS VALVES, SWITCHES, RECEIVER-DRIERS CLUTCHES, FAN BLADES, ADAPTOR KITS TOOLS, EQUIPMENT & ACCESSORIES</p> 