

Engine Supersession List

Woodward Diesel Systems Equipment

**Correlates Former Component Identification
(Typecode) with Current Identification**



General Precautions

Read this entire manual and all other publications pertaining to the work to be performed before installing, operating, or servicing this equipment.

Practice all plant and safety instructions and precautions.

Failure to follow instructions can cause personal injury and/or property damage.



Revisions

This publication may have been revised or updated since this copy was produced. To verify that you have the latest revision, check manual **26311**, *Revision Status & Distribution Restrictions of Woodward Technical Publications*, on the *publications* page of the Woodward website:

www.woodward.com/publications

The latest version of most publications is available on the *publications* page. If your publication is not there, please contact your customer service representative to get the latest copy.



Proper Use

Any unauthorized modifications to or use of this equipment outside its specified mechanical, electrical, or other operating limits may cause personal injury and/or property damage, including damage to the equipment. Any such unauthorized modifications: (i) constitute "misuse" and/or "negligence" within the meaning of the product warranty thereby excluding warranty coverage for any resulting damage, and (ii) invalidate product certifications or listings.



Translated Publications

If the cover of this publication states "Translation of the Original Instructions" please note:

The original source of this publication may have been updated since this translation was made. Be sure to check manual **26311**, *Revision Status & Distribution Restrictions of Woodward Technical Publications*, to verify whether this translation is up to date. Out-of-date translations are marked with ⚠. Always compare with the original for technical specifications and for proper and safe installation and operation procedures.

Revisions—Changes in this publication since the last revision are indicated by a black line alongside the text.

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Warnings and Notices

Important Definitions



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

- **DANGER**—Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
- **WARNING**—Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
- **CAUTION**—Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
- **NOTICE**—Indicates a hazard that could result in property damage only (including damage to the control).
- **IMPORTANT**—Designates an operating tip or maintenance suggestion.

WARNING

Overspeed / Overtemperature / Overpressure

The engine, turbine, or other type of prime mover should be equipped with an overspeed shutdown device to protect against runaway or damage to the prime mover with possible personal injury, loss of life, or property damage.

The overspeed shutdown device must be totally independent of the prime mover control system. An overtemperature or overpressure shutdown device may also be needed for safety, as appropriate.

WARNING

Personal Protective Equipment

The products described in this publication may present risks that could lead to personal injury, loss of life, or property damage. Always wear the appropriate personal protective equipment (PPE) for the job at hand. Equipment that should be considered includes but is not limited to:

- Eye Protection
- Hearing Protection
- Hard Hat
- Gloves
- Safety Boots
- Respirator

Always read the proper Material Safety Data Sheet (MSDS) for any working fluid(s) and comply with recommended safety equipment.

WARNING

Start-up

Be prepared to make an emergency shutdown when starting the engine, turbine, or other type of prime mover, to protect against runaway or overspeed with possible personal injury, loss of life, or property damage.

WARNING

Automotive Applications

On- and off-highway Mobile Applications: Unless Woodward's control functions as the supervisory control, customer should install a system totally independent of the prime mover control system that monitors for supervisory control of engine (and takes appropriate action if supervisory control is lost) to protect against loss of engine control with possible personal injury, loss of life, or property damage.

NOTICE**Battery Charging
Device**

To prevent damage to a control system that uses an alternator or battery-charging device, make sure the charging device is turned off before disconnecting the battery from the system.

Electrostatic Discharge Awareness

NOTICE**Electrostatic
Precautions**

Electronic controls contain static-sensitive parts. Observe the following precautions to prevent damage to these parts:

- Discharge body static before handling the control (with power to the control turned off, contact a grounded surface and maintain contact while handling the control).
- Avoid all plastic, vinyl, and Styrofoam (except antistatic versions) around printed circuit boards.
- Do not touch the components or conductors on a printed circuit board with your hands or with conductive devices.

To prevent damage to electronic components caused by improper handling, read and observe the precautions in Woodward manual **82715**, *Guide for Handling and Protection of Electronic Controls, Printed Circuit Boards, and Modules*.

Follow these precautions when working with or near the control.

1. Avoid the build-up of static electricity on your body by not wearing clothing made of synthetic materials. Wear cotton or cotton-blend materials as much as possible because these do not store static electric charges as much as synthetics.
2. Do not remove the printed circuit board (PCB) from the control cabinet unless absolutely necessary. If you must remove the PCB from the control cabinet, follow these precautions:
 - Do not touch any part of the PCB except the edges.
 - Do not touch the electrical conductors, the connectors, or the components with conductive devices or with your hands.
 - When replacing a PCB, keep the new PCB in the plastic antistatic protective bag it comes in until you are ready to install it. Immediately after removing the old PCB from the control cabinet, place it in the antistatic protective bag.

Chapter 1.

General Information

The information contained in this document has been produced in response to Distributor requests and comprises data which has been collated from historical records and general knowledge within the business.

With respect to complete products, we have included, where applicable, the former CAV Despatch Numbers, as well as the CAV Typecodes for those items that were transferred to Woodward responsibility. It should be noted that the inclusion of any item in the "New Range Typecode" or "Superseded By" columns does not imply current availability.

It is Woodward policy to update the information contained in this document periodically and to re-issue to Distributors, Operators and Engine Manufacturers as appropriate.

Supersession information which is not included can be obtained by contacting the Woodward Customer Services Department.

If you have a need for additional or change information to be included or for other applications to be added, please contact the Woodward Customer Services Department. Your requirements will then be considered at the next revision point.

Woodward Diesel Systems strives to achieve the maximum accuracy of the information provided within this document, but no liability can be accepted by Woodward for damage, loss or injury caused by any errors in the information within this publication.

To guarantee the safety, performance, and reliability of the equipment, only genuine Woodward spares must be used during rework.

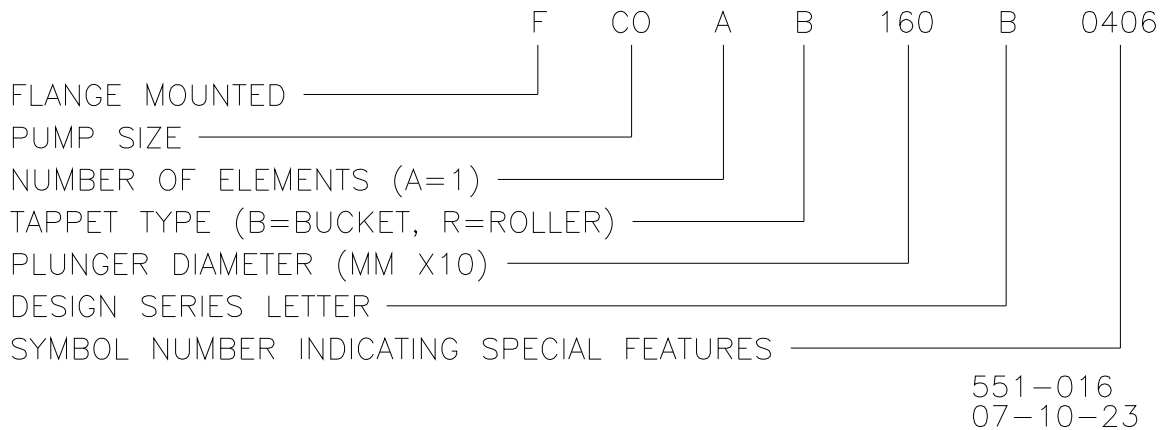
Service Bulletin Availability

Service bulletins (SB) referred to in this document are available on the Woodward website via e-Business (www.woodward.com). If you don't have a password for e-Business access, service bulletins can be obtained by contacting the Woodward Customer Services Department. See below for a list of current and obsolete service bulletins referenced in this publication.

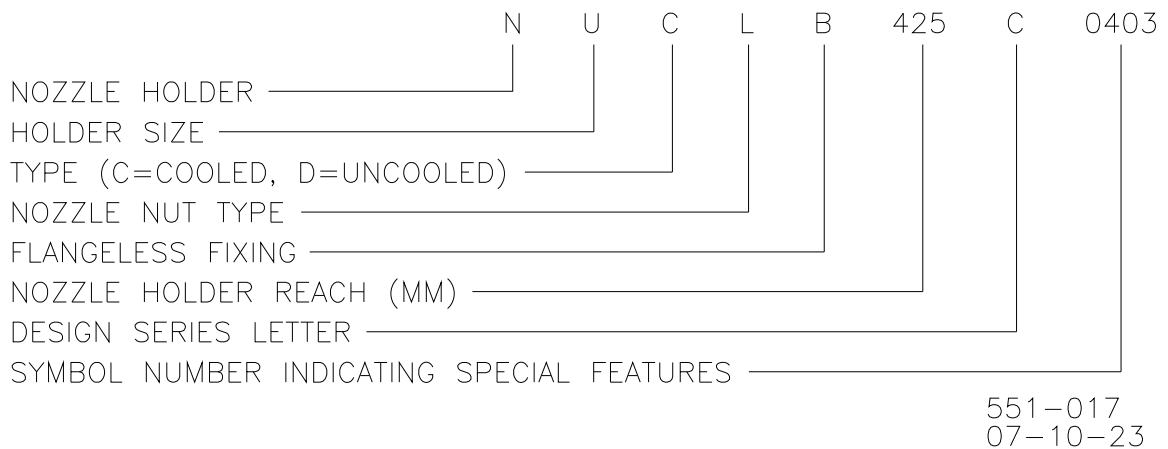
Old Number	New Woodward Number
192	01509
243	01513
245	01514
248	01515
256	01516
259	01517
268	01518
270	01549
274	01520
275	01521
279	01554
297	01530

Assembly Type Number Coding Structure

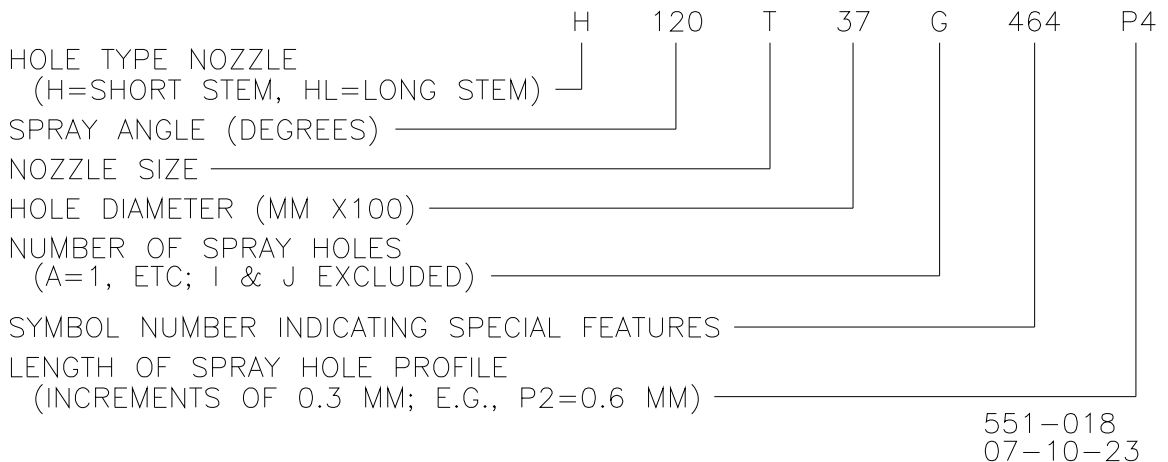
Pump Assembly Coding



Nozzle Holder Coding



Nozzle Assembly Coding (Hole Type)



Chapter 2. Pumps

C Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	A1AC120/9S158	FCOAB120B0158	Improved design
N/A	A1AC120/11S158	FCOAB120B0158	
N/A	A1AC140/9S55	FCOAB140B0055	Improved design
N/A	A1AC140/11S55	FCOAB140B0055	
N/A	A1AC140/9S64	FCOAB140B0064	Improved design
N/A	A1AC140/11S64	FCOAB140B0064	
N/A	A1AC140/9S85	FCOAB140B0055	
N/A	A1AC160/9S55	FCOAB160B0055	Improved design
N/A	A1AC160/11S55	FCOAB160B0055	
N/A	A1AC160/9S63	FCOAB160B0109	
N/A	A1AC160/9S104	FCOAB160B0125	Improved design
N/A	A1AC160/9S109	FCOAB160B0109	Improved design
N/A	A1AC160/11S85	FCOAB160B0085	
N/A	A1AC160/11S109	FCOAB160B0109	
N/A	A1AC160/9S124	FCOAB160B0125	Improved design
N/A	A1AC160/9S125	FCOAB160B0125	Improved design
N/A	A1AC160/11S125	FCOAB160B0125	
N/A	A1AC160/9S126	FCOAB160A0126	
N/A	A1AC160/9S147	FCOAB160B0147	Improved design
N/A	A1AC160/11S147	FCOAB160B0147	
N/A	A1AC160/11X324	FCOAB160B0324	
N/A	A1AC160/11S406	FCOAB160B0406	
N/A	A1AC160/11X338	FCOAB160X0338	
N/A	A1AC180/9S55	FCOAB180B0055	
N/A	A1AC180/11S55	FCOAB180B0055	
N/A	A1AC180/11S125	FCOAB180B0125	
N/A	A1AC180/9S147	FCOAB180B0147	
N/A	A1AC180/11S147	FCOAB180B0147	
N/A	A1AC180/11S262	FCOAB180B0262	
N/A	A1AC180/11S297	FCOAB180B0297	
N/A	A1BC150/11S94	FCOAB150B0094	
N/A	A1BC160/9S94	FCOAB160B0094	Improved design
N/A	A1BC160/11S94	FCOAB160B0094	
N/A	A1BC160/11S231	FCOAB160B0231	
N/A	A1BC180/9S94	FCOAB180B0094	Improved design
N/A	A1BC180/11S94	FCOAB180B0094	
N/A	A1BC180/11S231	FCOAB180B0231	
N/A	A1BC180/11S276	FCOAB180B0276	
4061080	BPF1C110BS65	FCOAB110C5065	
N/A	BPF1C120BS6369	FCOAB120C6369	
4061500	BPF1C140BS6590	FCOAB140C6590	
4061570	BPF1C140BS6603	FCOAB140C6603	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
4062200	BPF1C120BS617	FCOAB120C5617	
4062210	BPF1C120BS631	FCOAB120C5631	
N/A	BPF1C120AS590	FCOAB120C5671	
4062300	BPF1C120AS6084	FCOAB120C6084	
4062240	BPF1C120BS671	FCOAB120C5671	
4063010	BPF1C130B00	FCOAB130C0451	
4066370	BPF1C130BS6281	FCOAB130C6281	
4064010	BPF1C140B00	FCOAB140C0451	
N/A	BPF1C140BX1267	FCOAB140C6590	
4064290	BPF1C140BS6085	FCOAB140C0451	
4064320	BPF1C140BS6117	FCOAB140C0501	
N/A	BPF1C140BS6437	FCOAB140C6603	
4064690	BPF1C140BS6478	FCOAB140C6535	Improved design
4064730	BPF1C140BS6491	FCOAB140C6590	
4064750	BPF1C140BYS6495	FCOAB140C6536	Improved design
4064850	BPF1C140BS6528	FCOAB140C6528	
4064860	BPF1C140BS6535	FCOAB140C6535	
4064870	BPF1C140BS6536	FCOAB140C6536	
4065000	BPF1C140BS6561	FCOAB140C6590	
4061500	BPF1C140BS6590	FCOAB140C6590	
4061570	BPF1C140BS6603	FCOAB140C6603	
4066010	BPF1C160B00	FCOAB160C0451	
4066020	BPF1C160B03	FCOAB160C0489	
4066210	BPF1C160BS631	FCOAB160C5631	
4066330	BPF1C160BS6117L	FCOAB160C6117	
4066340	BPF1C160BS6179	FCOAB160C6179	
4066470	BPF1C160BS6416	FCOAB160C6589	Improved design
4066990	BPF1C160BS6528	FCOAB160C6528	
4067140	BPF1C180BS577	FCOAB180B0125 No longer made	CAV original design
4067930	BPF1C160BS6590	FCOAB160C6590	
N/A	FCOAB140C0514	FCOAB140C0574	
N/A	FCOAB180B0297	FCOAB180B0555	

CC Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	CC16AS339	FCCAB160B0339	
N/A	CC16AS348	FCCAB160B0348	
N/A	CC18AS335	FCCAB180B0335	
N/A	CC18AS339	FCCAB180B0339	
N/A	CC18AS370	FCCAB180B0370	
N/A	CC18AS376	FCCAB180B0376	
N/A	CC18AX304	FCCAB180X0304	
N/A	CC20AS275	FCCAB200B0275	
N/A	CC20AS335	FCCAB200B0335	
N/A	CC20AS339	FCCAB200B0339	
N/A	CC20AS346	FCCAB200B0346	
4072072	BPF1CC160CS6316	FCCAB160B0348	
4072112	BPF1CC160CS6436	FCCAB160B0339*	
4072120	BPF1CC160CS6436A	FCCAB160B0339	
4072312	BPF1CC160CS6533	FCCAB160B0348*	
4072461	BPF1CC160CS6570	FCCAB160B0339*	
4074112	BPF1CC180CS6436	FCCAB180B0339*	
4074120	BPF1CC180CS6436A	FCCAB180B0339* no longer made	* CAV original design
4074461	BPF1CC180CS6570	FCCAB180B0339*	
4074500	BPF1CC180CYS6594	FCCAB180B0370*	
4074700	BPF1CC180CYS6612	FCCAB180X0304*	
4074710	BPF1CC180CS6622	FCCAB180B0335*	
4075070	BPF1CC200CS6316	FCCAB200B0346*	
4075101	BPF1CC200CS6431	FCCAB200B0346*	
4075101	BPF1CC200CS6431	FCCAB200B0346*	
4075112	BPF1CC200CS6436	FCCAB200B0339*	
4075120	BPF1CC200CS6436A	FCCAB200B0339*	
4075302	BPF1CC200CSY6460	FCCAB200X0416*	
4075452	BPF1CC200CS6534	FCCAB200B0346* no longer made	* CAV original design
4075561	BPF1CC200CS6570	FCCAB200B0339*	
4075600	BPF1CC200YS6594	FCCAB200B0275*	
4075660	BPF1CC200CS6602	FCCAB200B0335*	
4075850	BPF1CC200CS6622	FCCAB200B0335*	
4075760	BPF1CC200CS6609	FCCAB200B0335*	
N/A	FCCAB160B0467	FCCAB160B0529	
N/A	FCCAB160B0481	FCCAB160B0592	
N/A	FCCAB180B0462	FCCAB180B0584	
N/A	FCCAB180B0608	FCCAB180B0723	
N/A	FCCAB200B0380	FCCAB200B0444	
N/A	FCCAB200B0442	FCCAB200B0511	
N/A	FCCAB200B0460	FCCAB200B0648	
N/A	FCCAB200B0467	FCCAB200B0532	
N/A	FCCAB200B0500	FCCAB200B0532	
N/A	FCCAB200B0532	FCCAB200B0551	
N/A	FCCAB200B0569	FCCAB200B0648	BR33829

CCR, CQ, CV, D, DPR, EO, EE, FF, and WVAR Size Pumps

CCR Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	FCCAR180M0499	FCCAR180M0603	
N/A	FCCAR180M0781	FCCAR180M0822	
N/A	FCCAR180X0576	FCCAR180X0598	

CQ Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	FCQAB170A0372	FCQAB170A0571	
N/A	FCQAB180A0372	FCQAB180A0565	

CV Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	FCVAB180B0769	FCVAB180B0838	
N/A	FCVAB180B0772	FCVAB180B0869	
N/A	FCVAB180B0838*	FCVAB180B0887 but original still avail.	OEM preferred S/S
N/A	FCVAB180X0509	FCVAB200B0629	
N/A	FCVAB200C0853	FCVAB200C0890	
N/A	FCVAB200X0509	FCVAB200B0629	
N/A	FCVAB200X0588	FCVAB200X0670	
N/A	FCVAB200X0627	FCVAB200X0664	
N/A	FCVAB200X0628	FCVAB220B0670	
N/A	FCVAB220X0618	FCVAB200B0683	
N/A	FCVAB220X0623	FCVAB220B0661	
N/A	FCVAB220X0638	FCVAB220B0684	
N/A	FCVAB220X0510	FCVAB220X0634	

D Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	A1AD80/8S123	FDOAB180A0206	
N/A	A1AD200/8S145	FDOAB200A0206	
N/A	A1AD200/8S206	FDOAB200A0206	
N/A	A1AD220/8S206	FDOAB220A0206	
N/A	A1AD250/9S214	FDOAB250B0214	
4092020	BPF1D180A03	FDOAB180C0530	
4092080	BPF1D180AS66	FDOAB180C5066	
4092510	BPF1D180AYS6461	FDOAB180C6461	
4094880	BPF1D220AYS6560	FDOAB220C6576	
4094900	BPF1D220AYS6576	FDOAB220C6576	

DPR Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	FDPAR300B0817	FDPAR320B0854	
N/A	FDPAR320B0854	FDPAR320B0879	

EO Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	E30AS249	FEOAB300B0249	Improved design
N/A	E30BS249	FEOAB300B0249	
N/A	E34AS249	FEOAB340B0249	Improved design
N/A	E34BS249	FEOAB340B0249	
N/A	E34AS340	FEOAB340B0340	Improved design
N/A	E34BS340	FEOAB340B0340	
N/A	FEOAB300C0426	FEOAB300C0464	See below
N/A	FEOAB300C0464	FEOAB300C0577	See below
N/A	FEOAB300C0577	FEOAB300C0621	

EE Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	FEEAB340A0905	FEEAB340A0855	BR41090

FF Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	FFOAB460X0635	FFOAB460X0646	
N/A	FFOAB460X0646	FFOAB460X0673	See below
N/A	FFOAB460X0673	FFOAB460A0720	

WVAR Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	FWVAR200X0667	FWVAR200X0699	See below
N/A	FWVAR200A0699	FWVAR200B0699	
N/A	FWVAR240A0872	FWVAR240C0872	

X and XX Size Pumps**X Size Pumps**

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	A1AX140/1S149	FXOAB140A0149	
N/A	A1AX160/3S96	FXOAB160B0096	
N/A	A1AX180/3S274	FXOAB180B0274	
N/A	A1AX180/3S332	FXOAB180B0332	
N/A	A1AX190/3S270	FXOAB190B0270	
N/A	A1AX190/3S331	FXOAB190B0331	
N/A	A1AX200/1S96	FXOAB200B0096	Improved design
N/A	A1AX200/3S96	FXOAB200B0096	
N/A	A1AX200/3S354	FXOAB200B0354	
N/A	A1AX200/3S274	FXOAB200B0274	
N/A	A1AX200/3X351	FXOAB200X0351	
N/A	A1AX240/1S96	FXOAB240B0357	Improved design
N/A	A1AX240/3S96	FXOAB240B0357	Improved design
N/A	A1AX240/3S198	FXOAB240B0198	
N/A	A1AX240/3S357	FXOAB240B0357	
N/A	A1BX180/1	FXOAB180B0182	
N/A	A1BX180/3S182	FXOAB180B0182	
N/A	A1BX180/1S242	FXOAB180B0182	
N/A	A1BX200/1S242	FXOAB200B0182	
4081100	BPF1X140AS6032	FXOAB140A0149 No longer made	CAV original design
N/A	BPF1X160AS6514	FXOAB160B0182	
4082020	BPF1X160A03	FXOAB160B0182	
4084020	BPF1X180A03	FXOAB180B0182	
4084230	BPF1X180AS6511	FXOAB180B0332*	
4084450	BPF1X180AS6592	FXOAB180B0332* No longer made	*CAV original design

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
4084600	BPF1X190AS6558	FXOAB190B0270*	
4084700	BPF1X190AS6593	FXOAB190B0270*	
N/A	FXOAB200B0354	FXOAB200B0274	
N/A	FXOAB200B0452	FXOAB200B0450	
N/A	FXOAB240B0096	FXOAB240B0357	

XX Size Pumps

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	XX26CS336	FXXAB260A0461	Improved design
N/A	XX26CS408	FXXAB260A0461	
N/A	XX28CS296	FXXAB280A0465	
N/A	FXXAB220A0472	FXXAB260A0595	
N/A	FXXAB240A0472	FXXAB260A0595	
N/A	FXXAB280A0296	FXXAB280A0465	
N/A	FXXAB260A0408	FXXAB260A0461	
N/A	FXXAB260A0422	FXXAB260A0476	
N/A	FXXAB280X0469	FXXAB280X0470	

Chapter 3. Injectors

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	99/13	99/235	
N/A	99/14	99/234	
N/A	99/16	99/231	
N/A	99/17	99/232	
N/A	99/34	99/293	
N/A	99/41	99/311	
N/A	99/87	99/306	
N/A	99/93	99/300	
N/A	99/135	99/336	
N/A	99/148	99/312	
N/A	99/150	99/249	
N/A	99/160	99/273	
N/A	99/161	99/320	
N/A	99/169	99/266	
N/A	99/177	99/233	
N/A	99/178	99/234	
N/A	99/179	99/320	
N/A	99/180	99/235	
N/A	99/184	99/212	
N/A	99/185	99/213	
N/A	99/186	99/249	
N/A	99/187	99/237	
N/A	99/190	99/250	
N/A	99/192	99/251	
N/A	99/193	99/332	
N/A	99/194	99/255	
N/A	99/195	99/256	
N/A	99/196	99/224	
N/A	99/197	99/333	
N/A	99/198	99/257	
N/A	99/199	99/307	
N/A	99/200	99/214	
N/A	99/201	99/294	
N/A	99/203	99/285	
N/A	99/204	99/396	
N/A	99/210	99/265	
N/A	99/216	99/268	
N/A	99/218	99/290	
N/A	99/219	99/319	
N/A	99/220	99/332	
N/A	99/223	99/286	
N/A	99/225	99/252	
N/A	99/226	99/267	
N/A	99/227	99/283	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	99/229	99/284	
N/A	99/236	99/320	
N/A	99/238	99/274	
N/A	99/239	99/275	
N/A	99/240	99/276	
N/A	99/241	99/277	
N/A	99/246	99/279	
N/A	99/247	99/280	
N/A	99/248	99/281	
N/A	99/253	99/396	
N/A	99/254	99/332	
N/A	99/259	99/269	
N/A	99/271	99/333	
N/A	99/272	99/282	
N/A	99/288	99/318	
N/A	99/298	99/—	LAO supply
N/A	99/304	99/343	
N/A	99/308	99/308S	
N/A	99/317	99/319	
N/A	99/321	99/401	
N/A	99/327	99/400	
N/A	99/334	99/322	See also SB243
N/A	99/337	99/354	
N/A	99/344	99/532S	
N/A	99/346	99/532S	
N/A	99/347	99/533S	
N/A	99/353	99/355	
N/A	99/354	99/439	
N/A	99/355	99/430	
N/A	99/356	99/414	
N/A	99/365	99/418	
N/A	99/367	99/552T	Currently on O.E. only (BR40908)
N/A	99/368	99/384	
N/A	99/369	99/385	
N/A	99/370	99/404	See below
N/A	99/374	99/402	
N/A	99/384	99/487U	See SB256
N/A	99/385	99/488U	See SB256
N/A	99/389	99/551T	Currently on O.E. only (DR 25657)
N/A	99/398	99/419	
N/A	99/401	99/426	
N/A	99/404	99/436	
N/A	99/431	99/421	
N/A	99/436	99/500S	See SB268
N/A	99/441	99/490T	
N/A	99/455	99/466	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	99/456	99/499T*	*On O.E. only See SB275
N/A	99/457	99/498T*	
BR40185	99/462	99/542T OR 543T	On O.E. only
N/A	99/478	99/501U	See below
N/A	99/479	99/502U	See SB274
N/A	99/481	99/550T	See SB297
N/A	99/483	99/549T	See SB297
N/A	99/501U	99/509U	See SB274
N/A	99/506t	99/544T	BR40185
N/A	99/518R	99/485R	
5167201	—	99/265	
5174401	—	99/268	
5174402	—	99/294	
5217606	—	99/209	
5222601	—	99/274	
5224602	—	99/272	
5249403	—	99/275	
5265001	—	99/276	
5273505	—	99/277	
5302202	—	99/228	
5302203	—	99/230	
5302301	—	99/287	
5366561	—	99/242	
5369101	—	99/244	
5366564	—	99/325	
5373161	—	99/245	
5391000	—	99/242	
5391002	—	99/243	
5391003	—	99/325	
5436901	—	N/A	LAO supply
5438361	—	99/279	
5435501	—	99/280	
5441061	—	99/318	
5448001	—	99/280	
5449502	—	99/281	
5515101	—	99/250	
5516601	—	99/258	
5516602	—	99/285	
5525202	—	99/269	
5535901	—	99/224	
5536502	—	99/333	
5537102	—	99/260	
5537201	—	99/292	
5537402	—	99/251	
5537404	—	99/252	
5537405	—	99/332	
5553101	—	99/257	
5553102	—	99/290	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
5554002	—	99/261	
5554702	—	99/262	
5555001	—	99/255	
5555002	—	99/256	
5557801	—	99/263	
5557804	—	99/264	
5723600	—	99/281	
N/A	Roto Diesel Type		
	LCR6732602C	99/521S	

Chapter 4. Nozzle Holders

T Size Nozzle Holders

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	B85TF388	NTDOB085F0388	
N/A	B125TF103	NTDOB125F0103	
N/A	B125TD205	NTDOB125G4644	
N/A	BL149TF261	NTDLB150F0261	
N/A	BL149TFX389	NTDLB150F0261	
N/A	B150TF103	NTDOB150F0103	
N/A	B150TF201	NTDOB150F0201	
N/A	B150TF218	NTDOB150F0218	
N/A	BL168TF325	NTDLB169F0325	
N/A	BL174TF103	NTDLB175F0103	
N/A	BL174TF237	NTDLB175F0237	
N/A	B175TF103	NTDOB175F0103	
N/A	B175TF220	NTDOB175F0220	
N/A	B175TF237	NTDOB175F0237	
N/A	B175T247	NTDOB175F0247	
N/A	B178TG343	NTDOB178G0343	
N/A	B178TG383	NTDOB178G0383	
N/A	BL199TD226	NTDLB200F0103	
N/A	BL199TF231	NTDLB200F0103	
N/A	BL199TF278	BL199T336	
N/A	BL199TF280	NTDLB198F0280	
N/A	BL199TF306	NTDLB200F0306	Improved design
N/A	BL199TF306A	NTDLB200F0306	
N/A	BL199TF331A	NTDLB200F0331	
N/A	BL199TF336	NTDLB200F0336	
N/A	B200TD103	NTDOB200F0103	
N/A	B200TD115	NTDOB200F0228	
N/A	B200TF228	NTDOB200F0228	
N/A	B200TG344	NTDOB200G0344	
N/A	BL208TFX391	NTDLB208F0391	
N/A	BL224TF231	NTDLB225F0103	
N/A	B250T396	NTDOB250F0396	
N/A	BL274TF247	NTDLB275F0247	
N/A	BL274TF328	NTDLB275F0328	
N/A	BL276TFX364U	NTDLB276X0364	
N/A	NTCLB157X0587	NTCLB157X0596	
N/A	NTCLB178X0461	NTCLB178X0504	
N/A	NTCLB200H0540	NTCLB200F0540	
N/A	NTDLB194X0560	NTDLB194X0588	
N/A	NTDLB200F0401	NTDLB200F0532	
N/A	NTDLB200F0480	NTDLB200F0533	
N/A	NTDLB200X0537	NTDLB200H0566	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	NTDLB200X0555	NTDLB200H0567	
N/A	NTDLB208F0391	NTDLB208F0546	
N/A	NTDLB238H0545	NTDLB256H0545	
N/A	NTDLB380X0535	NTDLB380X0543	
N/A	NTDLB552X0611	NTDOB552H0629	
N/A	NTDOB175G0402	NTDLB175H0464	
N/A	NTDOB175X0414	NTDOB175H0464	
N/A	NTDOB200G0399	NTDOB200G0495	
N/A	NTDOB200X0471	NTDOB200H0496	
N/A	NTDOB238H0544	NTDOB256H0544	
N/A	NTDOB380X0554	NTDOB380H0574	
55010	BKB50T45B	NTDOB050G4644	Improved design
55022	BKB50T106B	NTDOB050G4644	Improved design
55040	BKB50T644B	NTDLB050G4644	
55101	BKB80T45B	NTDLB080G4644	Improved design
55115	BKB80T98B	NTDOB080G4645	
55118	BKB80T106B	NTDOB080G4644	Improved design
55132	BKB80T523B	NTDOB080G4646	
55140	BKB80T541B	NTDOB080G4645	
55148	BKB80T645B	NTDOB080G4645	
55144	BKB80T644B	NTDOB080G4644	
55148	BKB80T645B	NTDOB080G4645	
55151	BKB80T646B	NTDOB080G4646	
55158	BKB80T5080B	NTDOB080G5168	Improved design
55166	BKB80T5168B	NTDOB080G5168	
55231	BKB125T45B	NTDOB125G4644	Improved design
55232	BKB125TD45B	NTDOB125G0427	
55238	BKB125T106B	NTDOB125G4644	Improved design
55241	BKB125T644B	NTDOB125G4644	
55252	BKB132T5169	NTDOB132G0408	
55269	BKB135T522B	NTDOB135G4522	
55301	BKB150T45B	NTDOB150G4644	Improved design
55306	BKB150TD60B	NTDLB150G5165	Improved design
55318	BKB150T106B	NTDLB150G4644	Improved design
N/A	BK150T540	NTDOB150G5067	
55330	BKB150T532B	BKB150T644B	See below
55347	BKB150T644B	NTDOB150G4644	
55356	BKB150T688	NTDOB150G5067	Improved design
55359	BKB150T5027B	NTDOB150G5027	
55365	BKB150T5067	NTDOB150G5067	
55371	BKB150T5129B	NTDOB150G5129	
55372	BKB157T5129B	NTDOB157G5129	
55374	BKB150T5132	NTDOB150G5132	
55383	BKB150TD5165B	NTDOB150G5165	
55402	BKB175TD45B	NTDOB175G0427	Improved design
55422	BKB175T586B	NTDOB175G4586	
55426	BKB175T627B	NTDOB175F0220*	
55429	BKB175TD644B	NTDOB175G0427*	*CAV original design No longer made

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
55430	BKB175T648B	NTDOB175F0220*	
55439	BKBL175T5001B	NTDLB175G5001	
55460	BKB175T5193B	NTDOB175G0402**	
55461	BKB175T5193BL	NTDOB175G0402**	**Improved design
55470	BKB175T5215B	NTDOB175G0402**	
N/A	BKB178TX564	NTDOB178G0383	
55496	BKB178T5094	NTDOB178G0343	
55501	BKB200T45B	NTDOB200G4644	Improved design
55505	BKB200T106B	NTDOB200G4644	Improved design
N/A	BK200T620B	NTDOB200G4658	
55527	BKB200T644B	NTDOB200G4644	
55531	BKB200T658B	NTDOB200G4658	
55540	BKB200T5011B	NTDOB200G5011	
55547	BKB200T5033	NTDOB200G5033	
55550	BKB200T5066	NTDOB200G0344	
55560	BKB200T5087B	NTDOB200G5228	Improved design
55633	BKB200T5123B	NTDOB200G5123	
55568	BKB200T5131B	NTDOB200G5228	Improved design
55575	BKB200T5157B	NTDOB200G5229	Improved design
55578	BKB200T5228B	NTDOB200G5228	
55579	BKB200T5229B	NTDOB200G5229	
55439	BKBL175T500B	NTDLB175G5001	

U Size Nozzle Holders

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	B150UB35	NUDOB150B0046	
N/A	B250UB46C	NUDOB250B0046	
N/A	B250UB268	NUCLB250B0268	
N/A	B300UB46C	NUDOB300B0046	
N/A	B348UBX352	NUDOB358X0352	
N/A	B350UB35	NUDOB350B0046*	*Can be superseded by NUDOB350B0439
N/A	B350UB46C	NUDOB350B0046*	See E.A.L. Mirrlees K Series 1
N/A	B350UB265	NUDOB350B0046*	
N/A	B350UB279	NUCLB350B0279	
N/A	B400UB46C	NUDOB400B0046	
N/A	B400UB316	NUDOB400B0316	
N/A	B425UC380	NUCLB425C0403	
N/A	B425UC395	NUDLB425C0404	
N/A	B425UC395	NUDLB425C0404	
51614	BKB100U43B	NUDOB100B0046	
51665	BKB200U43B	NUDOB200B0046	(APE Crossley)
51672	BKB200U558B	NUDOB200A4558	
51677	BKB211U5102B	NUDOB211A5102	
51724	BKB250U43B	NUDOB250B0046	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
51735	BKB250U670B	NUDOB250A5125	
51738	BKB250U5019	NUDOB250A5128	
51740	BKB250U5030B	NUDOB250A0405	
51744	BKB250U5125B	NUDOB250A5125	
51746	BKB250U5128	NUDOB250A5128	
51763	BKB275U692B	NUDOB275A4692	
N/A	BKB275U693B	NUCLB275A4693	
N/A	BKB312UX538B	NUDOB312X0421	
51825	BKB344U677B	NUDOB344A4677	
51843	BKB350U43B	NUDOB350B0046	
N/A	NUCLA275C0605	NUCLA250C0625	See line below
N/A	NUCLA250C0625	NUCLB250C0631	See SB274
N/A	NUCLB425C0403	NUCLB425C0437	
N/A	NUCLB425C0474	NUCLB425C0437	
N/A	NUCLB425C0485	NUCLB425C0590	See SB256
N/A	NUCLB425C0498	NUCLB425C485	
N/A	NUDLA275C0606	NUDLA250C0626	See SB274
N/A	NUDLB425C0404	NUDLB425C0438	
N/A	NUDLB425C0486	NUDLB425C0612	See SB256
N/A	NUDLB425C0499	NUDLB425C0486	
N/A	NUDOB100B0046	NUDOB100B0525	
N/A	NUDOB350B0046	NUDOB350B0439	See E.A.L. Mirrlees K Series 1

V Size Nozzle Holders

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	B160VD345	NVDOB60D0345	
N/A	B525VB330	NVDOB525C0330	
N/A	B525VB358	NVCOB525C0358	
51431	BKB250V43B	NVDOB250D4043	
51474	BKB263V530B	NVDOB263D4530	

Chapter 5. Nozzle Assemblies

T Size Nozzle Assemblies

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	H30T56B109P4	H60T59B109P5	
N/A	H36T45F197	H36T45F206P8	
N/A	H50T40E146P6	H50T40E149P6	
N/A	H50T50E146P6	H50T50E149P6	
N/A	H50T56B109P5	H60T59B109P5	
N/A	H110T38H205P5	H110T38H202P5	
N/A	H120T37G464P4	H120T37GP4	
N/A	H130T30F180P3	H130T30F372P3	
N/A	H140T32HP3	H140T32HP4	
N/A	H140T35H119	H140T35HP4	
N/A	H145T34K648	H145T35K648	
N/A	H145T36K648	H145T37K648	
N/A	H145T39K648	H145T40K648	
N/A	H145T39K707	H145T39K648	
N/A	H150T37H531P7	H150T38H531P7	See below
N/A	h150t38h464p4	H145T38H464P4	see SB259
N/A	H150T38H531P7	H150T38H833P7	See SB248
N/A	H150T38L929P4	H150T346H929P4	BR41109
N/A	H150T42FP4	H150T42F180P4	
N/A	H155T34H518P5	H155T35H736P5	See below
N/A	H155T35H736P5	H155T34HP5	
N/A	H157T34K493	H157T35K493	
N/A	H157T36K493	H157T37K493	
N/A	H157T39K648	H157T40K648	
N/A	H160T32H464P4	H160T32H696P4	See SB192
N/A	H160T32K842P7	H160T32K904AP7	
N/A	H160T32K842AP7		
N/A	H160T35K842P7	H160T35K904AP7	
N/A	H160T36H464P4	H160T36H696P4	See SB192
N/A	H160T37K842P7	H160T37K904AP7	
N/A	H160T38F464P3	H160T40F576	See below
N/A	H160T40F576	H160T40F464P3	
N/A	H160T40K842P7	H160T40K904AP7	
N/A	H160T42F464P4	H160T45F464P4	Some Mirrlees retain '42F' refer to E.A.L.
N/A	HL130T37H360P4	HL130T37H418P4	
N/A	HL130T40H200P4	HL132T40H200P4	
N/A	HL145T45H775P5	HL145T43H879P4	See SB297
N/A	HL145T50H775P5	HL145T50H863P5	
N/A	HL145T50H863P5	HL145T46H879P5	See SB297
N/A	HL150T35L549P4	HL150T36L642P4	See below
N/A	HL150T36L642P4	HL150T35L759P4	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	HL150T37H663P7	HL150T38H663P7	
N/A	HL150T40K775P4	HL150T38K775P4	See SB245
N/A	HL150T40K785P4	HL150T38K785P4	See SB245
N/A	HL150T40L200P8	HL150T40L748P8	See below
N/A	HL150T40L748P8	HL150T38L748P8	
N/A	HL155T36L549P4	HL155T36L642P4	
N/A	HL155T36L714P4	HL155T36L642P4	
N/A	HL155T36L737P4	HL155T36L642P4	
N/A	HL155T38K556P6	HL155T38K7325P6	
N/A	HL155T46K775P4	HL155T46K879P4	BR38739
N/A	HL155T46K785P4	HL155T46K880P4	BR38739
N/A	HL160T40FX653P3	HL160T40F637P3	
N/A	XHL145T40H775P5	HL145T35H775P4	
N/A	XHL150T45H718P5	XHL150T44H718P5	
N/A	XHL150T50H556P4	HL150T50G556P4	
5670050	BDL0T22	H0T110A649	
5671003	BDL120T2	H120T35EP6	
5671005	BDL130T16	H130T25EP5	
5671010	BDL120T20	H120T35EP6	
5671011	BDL130T20	H130T35EP6	
5671015	BDL110T28	H110T25DP5	
N/A	BDL130T30	H130T25FP5	
5671021	BDL145T30	H145T25FP5	
5671022	BDL160T30	H160T25FP5	
5671025	BDL120T86	H120T30EP6	
5671026	BDL130T86	H130T30EP6	
5671027	BDL155T86	H155T30EP6	
5671030	BDL135T91	H135T30FP3	
5671035	BDL30T122	H30T40C202P8	
5671039	BDL120T164	H120T20F122P3	
5671053	BDL100T225	H100T40G202P8	
5671058	BDL155T271	H155T30KP6	
5671084	BDL130T477	H130T30HP4	
5671093	BDL35T486	H35T50C202P6	
5671098	BDL36T530	H36T55D720P8	
5671103	BDL30T531	H60T59B109P5	
5671109	BDL150T537	H150T29HP4	
5671113	BDL145T540	H145T30F180P4	
5671124	BDL160T547	H160T45CP4	
5671127	BDL30T550	H60T55B463P5	
5671130	BDL150T563	H150T32F180P4	
5671138	BDL120T571	H120T25HP3	
5671140	BDL120T572	H120T25CP3	
5671143	BDL70T575	H70T30D59P4	
5611159	BDL80T581	H80T55CP8	
5671161	BDL80T585	H80T65C512P8	
5671163	BDL50T586	H50T35E202P6	
5671166	BDL50T587	H50T40E202P8	
5671175	BDL115T590	H115T27L202P5	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
5671180	BDL160T597	H160T35DP4	
5671187	BDL145T604	H145T40FP4	
5671190	BDL130T606	H130T30GP4	
5671193	BDL100T607	H100T38H202P5	
5671195	BDL150T610	H150T35CP4	
5671205	BDL150T622	H150T29HP4	
5671206	BDL150T622X	H150T29H474P4	
5671213	BDL130T626	H130T35H120P6	
5671217	BDL150T632	H150T29HP4	
5671222	BDL120T639	H120T35H118P2	
5671233	BDL124T653	H124T27L149P5	
5671247	BDL120T671	H120T40EP4	
5671251	BDL130T673	H130T40F118P4	
5671253	BDL110T674	H110T38H202P5	
5671256	BDL90T675	H90T35EP5	
5671259	BDL120T676	H120T35FP3	
5671265	BDL140T690	H140T32HP5	
5671280	BDL150T755	H150T35EP3	
N/A	BDL145T2719	H145T25HP3	
5671290	BDL30T6024	H30T35B654P5	
5671300	BDL130T6026	H130T30FP3	
5671303	BDL50T6030	H50T50E149P6	
5671306	BDL120T6031	H120T25EP3	
5671318	BDL86T6038	H86T37FP4	
5671324	BDL120T6040	H120T37FP4	
5671327	BDL140T6043	H140T35HP4	
5671330	BDL100T6044	H100T25FP3	
5671336	BDL150T6046	H150T35FP4	
5671344	BDL130T6050	H130T35FP4	
5671349	BDL86T6051	H86T46F202P4	
5671352	BDL30T6052	H30T30C149P6	
5671355	BDL30T6053	H30T38D202P7	
5671358	BDL130T6055	H130T35GP8	
5671360	BDL150T6056	H150T42F180P4	
5671365	BDL44T6058	H44T40F203P7	
5671378	BDL150T6077	H150T35EP6	
5671384	BDL150T6081	H150T25FP3	
5671390	BDL160T6087	H160T33FP6	
5671395	BDL36T6096	H36T45F206P8	
5671397	BDL36T6099	H36T40F149P7	
5671400	BDL44T6100	H44T40E205P7	
5671404	BDL160T6101	H160T40F576	
5671406	BDL150T6102	H150T43FP4	
5671409	BDL150T6108	H150T35FP3	
5671412	BDL130T6117	H130T32GP3	
5671413	BDL120T6117	H120T32GP3	
5671415	BDL145T6118	H145T25HP3	
5671418	BDL35T6128	H35T60C203P6	
5671420	BDL160T6135	H160T40F576	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
5671423	BDL140T6137	H140T32H472P6	
5671425	BDL120T6139	H120T30FP3	
5671428	BDL120T6140	H120T30GP3	
5671431	BDL157T6141	H157T42G473	
5671434	BDL160T6149	H160T30FP5	
5671437	BDL150T6154	H150T50E534	
5671443	BDL50T6167	H50T30C481P3	
5671445	BDL150T6168	H50T35C481P4	
5671449	BDL140T6177	H140T35H528	
5671452	BDL150T6210	H150T35F528	
5671455	BDL160T6212	H160T42EP4	
5671464	BDL150T6234	H150T38H529	
5671467	BDL100TY6239	H100T42H530P4	
5671470	BDL86T6245	H86T45F527P4	
5671475	BDL86T6248	H86T30FP4	
5671478	BDL145T6252	H145T42H531P6	
5671481	BDL160TY6269	H160T40F464P4	
5671484	BDL86TY6287	H86T50F527P4	
5671487	BDL150TY6293	H140T43F529	
5671500	BDL160T6311	H160T38H529	
5671503	BDL145T6313	H145T45H532P6	
5672000	BDL72T6321	H72T25C481P3	
5672005	BDL72T6322	H72T35C481P4	
5672010	BDL72T6323	H72T30C481P3	
5672016	BDL140T6332	H140T43F529	
5672020	BDL86T6340	H86T40F518P4	
5672025	BDL60T6359	H60T60C485P7	
5672030	BDL70T6360	H70T35D486P4	
5672035	BDL60T6361	H60T60C485P4	
5672040	BDL160T6362	H160T40F576	
5672045	BDL135TY6363	H135T40H530P6	
5672050	BDL120TY6374	H120T37FP4	
5672060	BDL100T6375	H100T42H503P4	
5672080	BDL140T6380	H140T25L530P3	
5672085	BDL150T6380	H150T25L530P3	
5672090	BDL150T6386	H150T40F533	
5672100	BDL120T6398	H120T37GP4	
5672120	BDL130T6404	H130T35G118P6	
5672130	BDL160T6412	H160T45F464P4	
5672135	BDL150T6425	H150T55E534	
5672136	BDL150T6426	H150T45DP3	
5672138	BDL150TY6428	H150T38F533	
5672142	BDL130TY6431	H130T30HP3	
5672180	BDL160TY6470	H160T40G464P4	
5672220	BDL150T6496	H150T53E535P6	
N/A	BDL160TX1342	H160T33FP6	
N/A	BDL82TX1679	H164T30CX557P7	
N/A	BDL120TX2075	H120T37FP4	
N/A	BDL36TX2118	H36T45F206P8	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	BDL115TX2155	H115T32L205P6	
N/A	BDL120TX2799	H120T32GP3	
N/A	BDL60TX2803	H60T55C485P4	
N/A	BDL140TX3023	H140T35FP3	
N/A	BDL70TX3065	H70T35D486P4	
N/A	BDL60TX3077	H60TC485P4	
N/A	BDL100TX3294	H100T42H503P4	
N/A	BDLL110TX3683	H110T42H503P8	
N/A	BDL160TX3785	H160T25FP5	
N/A	BDL90TX3911	H90T35EP5	
N/A	BDL36TX4385	H36T55BP5	
N/A	BDL110TX4399	H110T35FP4	
N/A	BDL150TX5343	H150T45DP3	
N/A	BDLL130TX4199	HL130T35H418P6	
N/A	BDLL150TX4236	HL150T35E200P6	
5673021	BDLL130T6331	HL130T35H418P6	
5673030	BDLL150T6373	HL150T35E200P6	
5660010	BDN000T511	BDN000T511	
5663001	BDN4T2	BDN4T2	
5663002	BDN8T2	P2T8	
N/A	DL140T1081	H140T38H531P7	
N/A	DL140T226	H140T34H531P7	
SKL	TA740-155-V35	H160T40G464P4	

U Size Nozzle Assemblies

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	H50U70G352P6	H50U70G461P5	
N/A	H54U45E205P6	H54U45E353P6	
N/A	H54U50E205P5	H54U50E353P5	
N/A	H60U70F351	H60U70F461P7	
N/A	H130U40GP4	H130U40G353P4	
N/A	H135U42G353P4	H135U42G353P5	
N/A	H135U45F354AP4	H135U45F422P4	
N/A	H135U45GP4	H135U45G353P5	
N/A	H135U45H246	H135U45H353P5	
N/A	H135U47H246	H135U47H353P5	
N/A	H135U50H353P4	H135U50H353P5	
N/A	H140U40HP4	H140U40H353P5	
N/A	H140U45FP4	H140U45F353P4	
N/A	H140U45HP4	H140U45H353P4	See below
N/A	H140U45H353P4	H140U45H353P5	
N/A	H150U45H353P8	H150U45H584P8	
N/A	HL-U-261AP-	HL-U-774P-	
N/A	HL135U64H429P6	HL135U66H634P6	
N/A	HL135U64H430P6	HL135U66H430P6	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
N/A	HL135U66H429P6	HL135U66H634P6	
N/A	HL135U66H430P6	HL135U67H430P6	
/A	HL135U66H634P6	HL135U67H634P6	
N/A	HL135U66H666P6	HL135U67H666P6	
N/A	XHL135U66H664P6	XHL135U67H664P6	
N/A	HL135U67H430P6 (HL135U67H820P6)	CP98/28	Refer to SB256
N/A	HL135U67H634P6 (HL135U67H821P6)	CP98/29	Refer to SB256
N/A	HL135U67H859P6	HL135U67H820P6P	
N/A	HL135U67H860P6	HL135U67H821P6P	
N/A	XHL135U67H664P6 (XHL135U67H860P6)	CP98/31	Refer to SB256
N/A	HL135U67H666P6 (HL135U67H859P6)	CP98/30	Refer to SB256
N/A	HL140U50H261AP5	HL140U50H774P5	
5680000	BDL120U147	H120U40E603	
5680005	BDL130U193	H130U50G353P8	
5680010	BDL130U196	H130U35G353P6	
5680015	BDL140U232	H140U40H353P8	
5680020	BDL150U246	H150U45H600	
5680025	BDL120U314	H120U40E353P4	
5680030	BDL100U437	H100U45E605	
5680040	BDL130U533	H130U50G598	
5680045	BDL150U557	H130F353P6	
5680050	BDL130U567	H130U40G353P5	
5680055	BDL120U570	H120U40F353P4	
5680056	BDL145U570	H145U40F597P4	
5680060	BDL100U573	H100U45E591P6	
5680065	BDL71U574	H71U-D599P5	
5680070	BDL120U579	H120U40H353P4	
5680075	BDL140U583	H140U45F353P4	
5680080	BDL140U584	H140U45H353P5	
5680085	BDL55U591	H55U65D353P3	
5680090	BDL120U593	H120U35C353P3	
5680095	BDL135U601	H135U45E595	
5680110	BDL145U614	H145U35H353P6	
5680115	BDL140U625	H140U37G353P6	
5680120	BDL150U637	H150U50H604P10	
N/A	BDL140U677	H140U34H597P5	
5680135	BDL150U680	H150U45H590	
5680145	BDL120U6015	H120U50H353P7	
5680150	BDL120U6029	H120U48H353P6	
5680155	BDL140U6060	H140U40H353P5	
5680160	BDL140U6066	H140U40H353P4	
5680165	BDL140U6068	H140U35L596	
5680170	BDL155U6090	H155U35K353P6	
5680175	BDL110U6111	H110U70H353P6	
5680180	BDL150U6112	H150U55H589	
5680185	BDL135U6115	H135U42G353P4	

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
5680190	BDL55U6126	H55U70D353P3	
5680195	BDL50U6127	H50U65D353P3	
5680200	BDL124U6132	H124U50H353P5	
5680205	BDL50U6143	H50U70G461P5	
5680206	BDL50U6143A	H50U69G461P5	
5680210	BDL150U6148	H150U4542208	
5680225	BDL60U6174	H60U65F461P7	
5680226	BDL60U6174A	H60U64F461P7	
5680230	BDL60U6178	H60U70F461P7	
5680231	BDL60U6178A	H60U69F461P7	
5680235	BDL50U6179	H50U75G461P5	
5680240	BDL50U6180	H50U65E461P5	
5680245	BDL60U6197	H60U65GX501P5	
5680250	BDL90U6219	HLU50L380P7	
5680270	BDL150U6242	H150U45L607	
5680275	BDL150U6243	H150U45H607	
5680276	BDL150U6243B	H150U45H606	
5680280	BDL110U6249	H110U50H353P6	
5680285	BDL60U6255	H60U75F461P7	
5680290	BDL50U6279	H50U55E461P5	
5680295	BDL110U6328	H110U57H353P6	
5680298	BDLL150U6338	HL150U43H587	
5680299	BDLL150U6339	HL150U45L610	
5680302	BDL110U6345	H110U57H353P6	
5680304	BDLL150U6339B	HL150U45L611	
5680318	BDL50U6368	H50U45D508P4	
5680320	BDL55U6371	H55U70F461P7	
5680321	BDL55U6371A	H55U69F461P7	
5680330	BDL150U6376	H150U50F353P7	
5680335	BDL150U6405	H150U50H609P5	
5680340	BDL150U6415	H150U50L588P5	
5680341	BDL150U6415B	H150U50L608P5	
N/A	BDU135U6416	HL135U50H610	
5680345	BDLL150U6416	HL150U50H610	
5680346	BDL140U6483	H140U30K602	
N/A	BDL150UX763	H150U50H604P10	
N/A	BDL60UX2423	H60U65GX501P5	
N/A	BDL80UX2943	H80U51F497P9	
N/A	BDL140UX3107	H140U30K602	
N/A	BDL50UX3141	H50U55E461P5	
N/A	BDL140UX3247	H140U45H353P6	
N/A	BDL45UX3251	H45U65F461P7	
N/A	BDL50UX3552	H50U65D461P5	
N/A	BDL90UX3579	H90U40E498P7	
N/A	BDL140UX3580	H140U57HX601	
N/A	BDL50UX3610	H50U50D461P5	
N/A	BDL110UX5186	H110U50G353P6	

V Size Nozzle Assemblies

Former Identification		Current Identification	
Despatch Number	Old Range Typecode	New Range Typecode	Remarks
5690000	BDL120V20	H120V35EP6	
5690005	BDL110V114	H110V45EP8	
5690011	BDL150V246	H150V45HP8	
5690012	BDL140V246	H140V45HP8	
5690015	BDL135V446	H135V45GP8	
5690020	BDL124V461	H124V85H681P8	
5690025	BDL100V544	H100V65E639P6	
5690030	BDL135V551	H135V46GP4	
5690040	BDL150V561	H150V45HP5	
5690105	BDL140V698	H140V47HP8	
N/A	BDL125V6010	H125V45GP8	
5690140	BDL110V6352	H110V60GP6	
N/A	BDL140VX2053	H140V47HX585P8	
N/A	BDL110VX3748	H110V63KP7	
N/A	BDL140VX3965	H140V47HP6	
N/A	BDL140VX4578	H140V47HP8	
N/A	H50V80F469P11	H50V80F594P11	
N/A	H50V90F469P11	H50V90F594P11	
N/A	HL135V72K900P6	HL135V76K905P6	
N/A	HL140V57LX367	HL140V57L401P6	
N/A	HL145V65KX417P6	HL145V65K562P6	
N/A	HL150V60HX367	HL150V60H401P6	
N/A	HL150V60HX401	HL150V60H401P6	

Chapter 6. Unit Injector Holders

Former Identification		Current Identification	
Despatch	Old Range	New Range	Remarks
Number	Typecode	Typecode	
N/A	KCCOT120A0004	KCCOT120A0016	
N/A	KCCOT120A0012	KCCOT120A0017	
N/A	KCCOT120X0021	KCCOT120A0020	BR40874
N/A	KCVOT150X0008	KCVOT150A0014	

Chapter 7.

Component Options

Item Ref	Description	Superseded By
3/67	D. VALVE	3/109 & 3/148
3/78	BANJO BOLT	3/153
3/108	PUMP BODY	3/4847
3/125	UNION NUT	7022/143
3/145	PINION	3/1
3/148	DISCHARGE UNION	3/193
3/153	BANJO BOLT	3/250
3/159	PINION	3/1
3/198	D/V ASSY	3/300
3/199	D.V. HOLDER	3/352 Supply Conv. Kit
3/234	RACK ASSY	3/229 & 3/230
3/310	D/V ASSY	3/352
3/316	D/V ASSY	3/352
3/320	D/V ASSY	3/352
3/321A	D/V ASSY	3/336
3/323	D/V ASSY	3/352
3/391	D/V HOLDER	3/499 & 3/498
3/398	D.V.H.	3/391 &
(D.V. GROUP)	SP. D. VALVE	25/15 &
	SEAL O RING	235/14 &
	SEAL HP	3/326 &
	D.V. ASSY	25/52
3/407A	D. VALVES	7022/173
3/407B	D. VALVES	7022/173B
3/407C	D. VALVES	7022/173A
3/410B	ELEMENTS	7022/74
3/410D	ELEMENTS	7022/76
3/411	ELEMENTS	7022/132
3/412C	ELEMENTS	7022/41
3/412E	ELEMENTS	7022/44C
3/412H	ELEMENTS	7022/44E
3/461	UNION BODY	3/462
3/3383A	BANJO	3/141A
3/3383B	BANJO	3/141B
3/3384	BANJO BOLT	3/153
3/4684	SPRING	3/178
3/4835D	ELEMENTS	3/298D
3/4835E	ELEMENTS	3/298E
3/4835F	ELEMENTS	3/298F
3/4835G	ELEMENTS	3/298G
3/4835K	ELEMENTS	3/298K
4/37	CONTROL SLEEVE	4/96
4/55	BANJO BOLT	7003/14B
4/55A	BANJO BOLT	7003/14B
4/181	D.V. GROUP	4/176A

Item Ref	Description	Superseded By
4/182	JOINT	4/41
4/207	D/V ASSY	4/199
4/208	RELIEF VALVE ASSY	4/223A
4/4393	UNION NUT	4/77
6/107	SP PLATE LOWER	36/9
6/108	SP PLATE UPPER	7022/232
6/113	CONTROL SLEEVE	6/349
6/115	CONTROL ROD	6/114
6/123	UNION BODY	6/362
6/124	SPRING PEG	21/286
6/134	UNION BODY	6/135
6/149	D. V. HOLDER	6/235
6/145-152	UNION BODY	6/154-160
6/193E	ELEMENT	6/110E
6/196	CONTROL ROD	6/275
6/225-232	UNION BODY	6/224A-H
6/233	SPRING PEG	3/426
6/235	UNION BODY	6/234
6/239	CASTING	6/426
6/248	ROLLER ASSY	6/500
6/258	STOP PLATE	6/422
6/267	DOWTY SEAL	6/263
6/271	CONTROL ROD	6/421
6/277	CONTROL ROD ASSY	6/319
6/314	CONTROL SLEEVE	36/22
6/252	ROLLER PIN ASSY	6/509
6/335 & 6/340	D. VALVE	6/343
6/337	UNION BODY	6/339
6/341	D. V. SEAT ASSY	6/344
6/352	TALLY PLATE	6/352A
6/381 A/G	SHIMS	XP10564 A/G
6/409	CONTROL ROD	6/434
6/412	PUMP HOUSING	6/433
6/430	CONTROL SLEEVE	6/349A
7/104D	ELEMENTS	7/139D
10/250	D. V. SPRING	13/157
13/157	D. V. SPRING	7032/7
15/12	WASHER	15/91
15/69	SPRING	7029/182
15/75	PINION	15/74
15/228B	D. VALVE	7029/17B
15/232	ELEMENT	7029/181
20/66	FILTER ASSY	20/103
21/5	TAPPET	21/5A
21/14	BANJO	NA18
21/19F	ELEMENT	21/194F
21/18	DIS. UNION	21/143
21/35	SPRING	21/8 & 21/7
21/64A, B	CONTROL SLEEVE	21/249 A, B

Item Ref	Description	Superseded By
21/110	ELEMENT	21/110F
21/128	SPRING PEG	21/265
21/180-187	UNION BODY	21/131-137
21/209	RACK STOP CAP	6/116
21/211	UNION BODY	21/213
21/216	UNION BODY	21/217
21/235-241	UNION BODY	21/228-234
21/265	SPRING PEG	21/321A
21/273-279	UNION BODY	21/314-320
21/180/285	D. V. HOLDER	21/308-313
21/286	SPRING PEG	21/321B
21/288-293	D.V. GROUP	21/302-307
21/314-320	UNION BODY	21/308-313
22/21	A-T ELEMENT (not official)	22/158 A-T
22/21D	ELEMENT	22/158D
22/21E	ELEMENT	22/158E
22/21S	ELEMENT	22/158S
22/21T	ELEMENT	22/109
22/22A	PINION	22/95A
22/22B	PINION	22/95B
22/39	D. V. ASSY	22/91E
22/41	D. V. ASSY	22/91G
22/50	SPRING PEG	22/117
22/54	D. V. HOLDER	22/119
22/57	D. V. HOLDER	22/122
22/65	PLUNGER SPRING	22/89
22/66B	SP. PLATE LWR	22/84B
22/67	SP. PLATE UPR	22/96
22/86T	ELEMENT	22/109
22/91B	D. V. ASSY	22/114
22/113	ELEMENT	22/141
22/114	D. VALVES	22/91A
22/117	SPRING PEG	34/51
22/122	D.V.H. SUPPLY	22/170 & 34/51
22/125-132	UNION BODY	22/165-172
22/145	UNION BODY	22/164
22/146	D.V.H. SUPPLY	22/170 & 34/51
22/147	PUMP HOUSING	22/180
22/163	D. VALVES	22/115
23/133	HOUSING	23/198 (See below)
23/134	PUMP HOUSING/SUB ASSY	23/197 (See below)
23/138	D.V. HOLDER	23/138A
23/170	D.V. HOLDER	23/170A
23/197	PUMP HOUSING/SUB ASSY	23/227
23/198	PUMP HOUSING	23/228
23/210	PUMP HOUSING SUB ASSY	23/229
23/211	PUMP HSG	23/230
25/9	SPRING PEG	6/233
32/4	PUMP BODY	32/54

Item Ref	Description	Superseded By
32/8	D.V. ASSY	32/47
32/21	D.V. ASSY	32/46
32/36D	ELEMENT ASSY	32/92D
32/36F	ELEMENT ASSY	32/92F
32/48	SCREW	32/109
32/85	CONTROL ROD ASSY	32/112
32/89F	ELEMENT ASSY	32/92F
32/100	CONTROL SLEEVE	32/110
32/122D	ELEMENT} SUPPLY}	32/150D}
32/147D	ELEMENT} IN LIEU}	32/150D}
33/19	PUDV	33/40
33/20	DVH	33/41
33/21	SPRING PRO FLOW VALVE	33/35
33/22	BALL CARRIER	33/36
33/23	SPRING PEG	33/33
33/24	SPRING CONTRA FLOW VALVE	33/38
33/33	STOP CONTRA FLOW VALVE	33/37
33/48C	ELEMENT	33/4C
34/6	RETAINING RING	34/68 (See below)
34/9	CONTROL SLEEVE	34/71
34/30	SCREW	402/0830
34/31	SCREW	402/0845
34/43	UNION BODY	34/52
34/45	DVH SUPPLY	34/51 & 31/52
34/62	RETAINING RING	34/68
34/68	RETAINING RING	34/6
35/2	PUMP HOUSING SUB ASSY	35/36 ref SB279
35/11	CONTROL ROD	35/40 ref SB279
35/32BK	ELEMENT	35/38BK ref SB279
36/21	CONTROL SLEEVE	6/349
36/22	CONTROL SLEEVE	6/576
36/59E	ELEMENT ASSY	36/112E
36/73	SPRING	36/31
51/396	CAP NUT	51/407Z
51/409F	SPINDLE - Identical	To 7008/49F (LAO supply)
51/415B	DOWEL	51/415A
51/415C	DOWEL	51/415A
51/449	CAP NUT	51/466
51/450	RUBBER BUNG	51/466
52/107	SPRING	52/259
52/125	FEED PIPE	52/168
52/127	BANJO CONN.	NA1/5 (LAO supply)
52/173A	HOLDER BODY	52/230N
52/179	LOCKING PLATE	52/216
52/181	FEED PIPE ASSY	52/218
52/182A etc.	HOLDER BODY	52/121A etc.
52/190	VENT SCREW	52/398
52/241	FEED PIPE	52/246
52/267	NOZZLE HOLDER 0497	Ref SB270

Item Ref	Description	Superseded By
52/279	ADJ SCREW	52/391
52/289	INLET CONNECTOR	52/371A
52/308A-H	SHIMS	5339-290A-H
52/330	HOLDER BODY	52/336
52/348	HOLDER BODY	52/121H
52/350	INLET CONNECTOR	52/529
52/362	NOZZLE NUT	52/489
52/385	HOLDER BODY	52/385A
52/473	NOZZLE NUT	52/480
52/4844	VENT SCREW	52/72A & 113/29
52/10 etc	SPINDLE	53/115 etc
53/17	EDGE FILTER	53/56
53/41	AIR VENT SCREW	53/61
53/63A	N.H. BODY	53/292
53/75	LEAK OFF UNION	51/379
53/142G	SPRING SPINDLE	53/115G
53/169A	TOP CAP	53/257A
53/174A	ONE PIECE SPINDLE	53/255
53/175A	TWO PIECE SPINDLE (See also 53/176)	53/255
53/175B,C,D	SPINDLE	53/174B,C,D
53/176	L. SPRING CAP (Used with 53/175A)	53/255
53/177A	GASKET	53/177B
53/177B	GASKET	53/261
53/187	INLET CONNECTOR	53/244
53/192	TOP CAP	53/257B
53/194	TOP CAP	53/295
53/196A	HOLDER BODY	53/254A
53/196B	HOLDER BODY	53/254B
53/251	INLET CON.	53/264
53/285A	HOLDER BODY	53/293
53/4687	UP. SPR. CAP	53/88
64/27	LEAK OFF PIPE	64/36
73/104	ELEMENT ASSY.	73/199
75/27	T149	7044/72
75/124	VALVE EXTRACTOR	75/123
75/188	REFER TO LAO	N/A
75/192	NOZZLE CL. KIT	75/188
75/194	NOZZLE CL. KIT	75/193
75/606	REFER TO LAO	99/610
75/616	CAMBOX	75/616A
75/617	TEST TROLLEY	75/617A/B
75/773	TEST INJECTOR	75/786
80/230D	ELEMENT ASSY	22/138
81/S362	STUD	81/101/47
81/S422	NUT	345/4
81/098/28	UNION NUT	7022/143
81/098/29	WASHERS	106/28
81/100/09	D.V. HOLDER	3/193

Item Ref	Description	Superseded By
81/100/14	CONTROL SLEEVE	3/1B
81/100/15	CONTROL ROD	3/69
81/100/16	CL ROD LCTG	123/9
81/100/20	ADJUSTING LINERS	81/100/442
81/100/23	VALVE SPR.	3/115
81/100/24	VALVE STOP	3/116
81/100/28	DVH WASHER	3/66
81/100/30	D.V. ASSY	81/101/34 (See below)
81/100/35	ELEMENT	3/256G
81/100/43	VENT SCREW	3/155
81/100/44	VENT. SC. WA.	106/5
81/100/49	SPILL PLUG	122/3
81/100/50	CL. ROD POIN.	3/2 or 3/2A or B (Build list indicates 3/2 is correct)
81/100/51	CL. ROD. POIN.	297/203
81/100/52	WASHERS	106/1A-E
81/100/94	SPILL PLUG	113/62
81/100/424	SP. ANCHOR LCTG. SCREW	81/100/497 & 498
81/100/435	EXT. CIRCLIP	237/3/4
81/100/436	EXT. CIRCLIP	237/1/4
81/100/451	D.V. SEAL	6/219
81/100/454	H. P. SEAL	6/137
81/100/463	SPRING	25/15
81/100/465	RACK	6/212
81/100/466	RACK GUIDE	13/9
81/100/472	SEAL O RING	359/139
81/100/473	CIRCLIP	6/215
81/100/474	DOWEL	6/125
81/100/487	EXT. CIRCLIP	237/M25
81/100/489	L. SP. PLATE	6/216
81/100/491	PUMP ASSY	ASR1 MKII
81/100/501	PUMP HSG.	6/207
81/100/505	CONT. SLEEVE	6/213
81/100/506	SPILL. PLATE	6/214
81/100/510	TAPPET	6/217
81/100/511	SP. PLUG	3/228
81/100/518	TAPPET	6/278
81/100/519	ELEMENTS	6/346A
81/101/16	U SP PL SCREW	297/402
81/101/20	LINER	81/100/442
81/101/25	NUT	81/101/45
81/101/26A	PLATE	81/101/46
81/101/34	D. V. ASSY	3/109
81/101/37	SEAL	3/4699
81/101/40	NUTS	81/101/45
100/8	AIR VENT SCREW	291/410
101/1	SCREW	298/004
101/12	SCREW	298/004
102/1	RACK POINTER	297/203
102/24	SCREW	297/012

Item Ref	Description	Superseded By
103/6	SCREW	294/306
103/21	SCREW	294/306
104/29	BOLT	295/404
104/40	BOLT	226/404
104/68	BOLT	295/505
106/9	WASHER	106/62
106/26	WASHER	106/37
106/62	WASHER	NW5/12
106/80	WASHER	Z5339/259B
106/110	WASHER	113/99
106/111	CLAMP PL	395/270
107/12	SHAKEPROOF WASHER	107/20H
109/6	GROOVED PIN	284/408 (BR35512)
109/7	PIN	284/1224
109/15	DOWEL	284/808
110/5	STEEL BALL	200/10
111/8	NUT B.S.F.	342/6
112/12	NUT	5330/96
112/5035	NUT	345/6
113/1	WASHER	113/18
113/8	WASHER	113/62
113/33	WASHER	113/62
113/50	WASHER	113/22
113/72	SEAL	130/90
113/73	WASHER	NW5/65
113/74	WASHER	113/18
113/3419	WASHER	113/34
113/3460	WASHER	113/3460A
113/3694A	WASHER	113/22
113/4690	WASHER	106/83
113/4690A	WASHER	106/83
114/2	WASHER	113/23
114/3	WASHER INJ	113/32
114/7	BANJO CONNR	130/91T
114/8	WASHER	5936/258
114/3414	BANJO CONNR	130/90
114/4750	WASHER	NW5/65
116/4645C	PROTECTIVE PLUG	320/1A
120/4/1	OIL CUPS	ASR1
120/6	OIL CUP	ASR1
122/4	SPIILL PLUG	6/464
122/21P	SCREW	244/005
122/27	SCREW	104/79
123/12	SCREW	123/8
124/25	CIRCLIP EXT	237/M22
124/27	CIRCLIP	237/1,1/8
124/41	CIRCLIP	237/M15
124/54	CIRCLIP UPR	3/4683
126/1	PRESSURE PLUG	353/2

Item Ref	Description	Superseded By
128/6	PROT PLUG	320/9A
128/7	PROT CAP	319/9A
128/9E	PROT PLUG	7111/357A
130/6	O RING	234/107
130/11	O RING	234/116
130/14	O RING	234/176
130/15	O RING	234/139
130/17	O RING	234/190
130/24	O RING	234/147
130/25	O RING	234/180
130/28	O RING	234/208
130/29	O RING	234/110
130/30	O RING	234/135
130/31	O RING	264/114
130/32	O RING	264/122
130/33	O RING	234/124
130/34	O RING	234/128
130/35	O RING	234/136
130/36	O RING	234/144
130/37	O RING	234/146
130/44	O RING	234/140
130/45	O RING	262/133
130/46	O RING	234/149
130/51	O RING	234/150
130/52	O RING	234/132
130/56	O RING	234/142
130/58	O RING	234/217
130/59	O RING	234/215
130/60	O RING	234/213
130/62	O RING	234/179
130/63	O RING	234/206
130/64	O RING	234/192
130/67	O RING	234/152
130/75	O RING	234/110
130/78	O RING	234/113
130/80	O RING	234/188
130/84	O RING	234/141
130/85	O RING	234/103
130/87	O RING	262/168
130/89	O RING	262/116
130/91R	WASHERS	7022/180
130/94	O RING	262/120
130/99	U RING	130/110
130/100	BACKING RING	130/11
130/104	U RING	130/107
130/106	SPLIT RING	130/109
130/108	O RING	130/116
138/17	COUPG. ASSY	138/4
142/1	FLUID	142/2

Item Ref	Description	Superseded By
143/2	CAP SCREW	311/614
160/1	NAMEPLATES	161/1
160/2	NAMEPLATES	160/1 (See above)
162/-	NAMEPLATES	164/1
163/-	"	See
165/-	"	BR35056
164/17	NAMEPLATES	165/3
191/4	WASHER INJ	59/93
203/6	NUT B.S.F	342/6
203/8	NUT	342/8
216/8	LOCKNUT	345/8
219/2	NUT	333/2
223/205	SCREW	297/203
225/1	LOCKNUT	225/4
225/2	LOCKNUT	225/5
226/205	BOLT	104/81
233/5	NUT	310/8
234/115	SEAL O RING	5855/30BQ
234/139	SEAL O RING	359/139
235/41	SEAL O RING	235/33
235/46	SEAL O RING	235/59
2365/8	SEAL O RING	236/M16
237/1	SEAL O RING	237/M25
250/1	SCREW	250/1SF
262/116	O RING	359/116
262/153	O RING	359/153
262/155	O RING	372/25
262/165	O RING	359/165
262/172	O RING	359/172
262/179	O RING	359/179
267/SERIES	SCREW	246/5-SERIES
295/518	FEED TANK	295/520
295/520	BOLT	104/82
319/6 ETC	PROT CAP	319/6A ETC
320/1	PROT PLUG	320/1A
342/4	NUT	111/16
342/5	NUT	111/7
350/210	FILTER	BRYB5F1
359/139	O RING	372/20
359/144	O RING	372/19
359/155	O RING	372/25
363/7	PROT PLUG	320/26A
372/37	O RING	372/40
372/54	O RING	372/13
372/70	O RING	372/20
380/0515	SCREW POINTER	380/0516
383/0518	BOLTS	383/0516
386/1	LOCKNUT	398/8
401/25	SEAL O RING	372/25
4265/10B	NOZZLE NUT	7024/182

Item Ref	Description	Superseded By
4976/3432	PROT. CAP EQUIV. TO	128/13
5001/31A	WASHER LOCK	205/5
5148/9C	SCREW POINT	NS73/8Y1
5244/22	LOCKING WASHER	205/3
5244/22A	WASHER LOCK	5244/22
5330/75	NUT	NU7/23
5330/77	NUT	NU7/37
5330/78	NUT	NU7/9Y1
5330/86	LOCKNUT ADJ SCREW	NU7/20Y1
5330/86A	LOCKNUT ADJ SCREW	NU7/20Z1
5330/96	NUT	386/4
5330/183	LOCKNUT	51/407Z
5330/298	LOCKNUT	410/10
5334/59	SCREW	NS53/25
5335/310A	SCREW	2/3
5339/132	VENT SCREW WASHER	5936/58W
5339/135	WASHER	NW5/16
5339/137	D.V. JOINT	5339/862
5339/161	LEAK OFF	NW5/11
5339/174	WASHER	NW5/49
5339/226	WASHER	113/22
5339/250	WASHER	NW2/21
5339/251	WASHER	NW2/22
5339/252	WASHER	NW2/23
5339/253	WASHER	NW2/25
5339/254	WASHER	NW2/27
5339/254A	WASHER	NW2/27
5339/258	WASHER	106/22
5339/259	WASHER	NW2/85
5339/259B	WASHER	NW2/63
5339/265	WASHER	NW5/5
5339/283	PIPE RINGS	NW2/86
5339/283B	WASHER	21/199
5339/290A	WASHER	NW2/77
5339/290B	WASHER	NW2/78
5339/290C	WASHER	NW2/80
5339/290D	WASHER	NW2/81
5339/290E	WASHER	NW2/82
5339/290F	WASHER	NW2/83
5339/290G	WASHER	NW2/79
5339/290H	WASHER	NW2/76
5339/314	WASHER	NW5/22W4
5339/314A	WASHER	NW5/21
5339/324	WASHER	NW2/53
5339/334	WASHER	NW5/60
5339/334A	WASHER	113/9
5339/342&A	JOINT	5936/22
5339/383	WASHER	NW5/32
5339/393	WASHER	NW5/41W4

Item Ref	Description	Superseded By
5339/398	WASHER	NW5/12
5339/420	WASHER INJ	113/23
5339/421	WASHER	NW5/65
5339/422	WASHER	NW5/56
5339/423	WASHER	NW5/43W4
5339/433	WASHER	NW5/32W4
5339/470	SHIM	NW2/37
5339/470A	SHIM	NW2/38
5339/470B	SHIM	NW2/39
5339/470C	SHIM	NW2/41
5339/470D	SHIM	NW2/42Y1
5339/470E	SHIM	NW2/43Y1
5339/470F	SHIM	NW2/44Y1
5339/470G	SHIM	NW2/40
5339/512	WASHER	NW5/50W4
5339/542	SEAL	NW5/59
5339/543	WASHER	NW5/17
5339/593	WASHER	NW2/101
5339/605	WASHER	NW5/67
5339/662	WASHER	NW2/67Y1
5339/833	WASHER	NW5/18W4
5339/833A	WASHER	5339/833
5339/835	JOINT	5936/95C
5339/988	INLET CONN	114/4755
5557/1	NUT	7097/47
5557/3	NUT	7022/143
5855/30K	O RING	234/110
5855/30L	O RING	359/139
5855/30P	O RING	234/133
5855/30S	O RING	234/142
5855/30Z	O RING	234/120
5855/30AC	O RING	234/149
5855/30AH	O RING	262/145
5855/30AJ	O RING	262/137
5855/30AQ	O RING	262/136
5855/30AR	O RING	262/140
5855/30AT	O RING	234/122
5855/30BF	O RING	235/41
5855/30BP	O RING	234/103
5855/30BQ	O RING	234/115
5855/30CA	O RING	234/179
5855/30CB	O RING	234/184
5936/56	WASHER INJ	NW5/65
5936/95C	WASHER	106/83
5936/95F	WASHER	5936/400
5936/168	INLET CONN	106/83
5936/232	WASHER	5936/95H
5936/298	WASHER	51/414
7003/7A	DEL VALVE	7003/7

Item Ref	Description	Superseded By
7003/14	BANJO BOLT	7003/14B
7003/58	D/V JOINT	7003/13
7003A/70	PUMP HOUSING	7003A/70A
7003/75A	POINTER	7003/75
7003/81	BANJO	NA1/22
7003/88	CIRCLIP	4/4397
7003/116A	VENT SCREW	7019/116A
7003/156C	ELEMENT ASSY	7003/106C
7003/156D	ELEMENT ASSY	7003/106E
7006/25	UNION NUT	4/77
7006/25B	UNION NUT	21/200
7006/25A	UNION NUT	4/80
7008/5	INLET CONN	7169/28C
7008/7	SPRING INJ.	51/413
7008/9	SPRING HSG	REF TO CAV
7008/14	N NUT	7008/443K
7008/21B	SPRING CAP	52/483 (See also 7008/36F)
7008/25	FILTER ROD	7169/28C
7008/31	FEED PIPE	7169/28C
7008/34	NUT	7008/429
700/36F	ADJ SCREW	52/483 (See also 7008/21B)
7008/36H	ADJ SCREW	52/279
7008/36J	SCREW ADJ	52/279
7008/36K	ADJ SCREW	52/279
7008/38	SPINDLE	7008/49CM
7008/40	UNION NUT	7008/466
7008/47	SPINDLE	51/409CN
7008/49	SPINDLE ASSY	51/409
7008/49B	SPINDLE	51/409DF
7008/49C	SPINDLE	51/409DA
7008/49E	SPINDLE	51/409E
7008/49F	SPINDLE	51/409F
7008/49H	SPINDLE	51/409H
7008/49K	SPINDLE	51/409K
7008/49R	SPINDLE	51/409R
7008/49V	SPINDLE	51/409V
7008/49CN	SPINDLE	51/409CN
7008/49CT	SPINDLE	51/409CT
7008/49CU	SPINDLE	51/409CU
7008/49CV	SPINDLE	51/409CV
7008/49DA	SPINDLE	51/409DA
7008/49DB	SPINDLE	51/409
7008/49DC	SPINDLE	51/409E
7008/49DD	SPINDLE	51/409F
7008/49DF	SPINDLE	51/409DF
7008/54	INLET CONN	7169/28
7008/68	UNION NUT	2/143
7008/187	NOZZLE NUT	51/410
7008/189	BANJO	NA1/1

Item Ref	Description	Superseded By
7008/198	NOZZLE NUT	51/441
7008/226&A	CAP NUT	51/507
7008/228	NH BODY	7008/239C
7008/236	BANJO	NA1/2
7008/253	SPRING INJ.	51/413
7008/366	PROT PLUG	7014/242
7008/428A	DOWEL	51/415A
7008/428B	DOWEL	51/415B
7008/428C	DOWEL	51/415C
7008/428D	DOWEL	51/415A
7008/428E	DOWEL	51/415B
7008/428F	DOWEL	51/415C
7008/429D	CAP NUT	7008/429
7008/599A	DOWEL	51/408A
7008/599C	SPRING HOUSING	51/408C
7008/599F	SPRING CAP	51/408F
7008/670	NOZZLE NUT	7008/860
7008/705	SPRING	52/278
7008/826	FILTER	7169/39
7008/827	FILTER	7169/39
7008/848	ADAPTOR & FILTER ASSY	7169/39
7008/848A	INLET CONN	7169/39
7008/902	CAP NUT	51/407
7008/931	FILTER	7169/39
7008/1045	PROT CAP	7169/34
7014/95	PROT. CAP	7014/243
7014/243A	PROT. CAP	319/9A
7019/27	PROT. CAP	357/1632
7019/98	NUT	7019/213
7019/114A	CLOSING PLUG	7019/114
7019/116B	VENT SCREW	7019/118A
7022/3AF	HOUSING	7022/3AJ
7022/6	D. VALVE	3/405
7022/7E	RACK	7022/93E
7022/13	TAPPET	7022/84
7022/14	CIRCLIP	3/3361
7022/18	BANJO	NA1/16
7022/19	BANJO BOLT	3/153
7022/19A	BANJO BOLT	3/250
7022/22A	SCREW SUPPLY	7022/22D
7022/23	D.V.H.	7022/53
7022/40	ELEMENT	3/412B
7022/42	ELEMENT	3/412D
7022/44	ELEMENT	3/412G
7022/48	D. V. HOLDER	7022/53
7022/49	CIRCLIP	3/3361
7022/53	D. V. HOLDER	3/491
7022/58	ELEMENT	3/412K
7022/78	ELEMENT	7022/132

Item Ref	Description	Superseded By
7022/85A	D/V JOINT	7035/96
7022/99	INTER-CHANGE WITH	7022/99B
7022/100	LCTG. SCREW	7022/100B
7022/106	DOWEL	6/125
7022/108	SP PLATE	7022/232
7022/109	SP PL LOWER	6/107
7022/110	CIRCLIP	6/105
7022/111	PLUNGER SPRING	6/109
7022/112	PLUNGER GUIDE	7022/220
7022/114	JOINT	7022/221
7022/119B	INDEX POINTER	7003/75
7022/120	ELEMENT	6/170
7022/120A	ELEMENT	6/171
7022/120B	ELEMENT	6/172
7022/158	D. V. ASSY	3/405
7022/180	DOWTY SEAL	130/91R
7022/184	INLET WASHER	130/90
7022/186C	ELEMENT ASSY	3/412B
7022/186E	ELEMENT ASSY	3/412D
7022/186G	ELEMENT ASSY	3/412G
7022/186J	ELEMENT	7022/44C
7022/189A	ELEMENT	7022/72
7022/189B	ELEMENT	7022/73
7022/189C	ELEMENT	7022/74
7022/189D	ELEMENT	7022/75
7022/189E	ELEMENT	7022/76
7022/189F	ELEMENT	7022/77
7022/189G	ELEMENT	7022/132
7022/191	ELEMENT	7022/132
7024/12	AIR VENT SCREW	7024/207
7024/18	INLET CONN	7024/58
7024/26	CAP NUT	7008/429
7024/39	SC ASSY VENT	7024/207
7024/39A	SC ASSY VENT	7024/207
7024/58E	INLET CONN	52/328
7024/58F	INLET CONN	52/327
7024/59	EDGE FILTER	7024/57 & 58
7024/74A	BODY	7024/74B
7024/102	SPINDLE ASSY	7024/155
7024/109B	SP PL UPPER	7024/109A
7024/143	SPRING HOUSING	7024/209
7024/147	INLET CONN	7024/116 & 7024/57A
7024/194	SP PLATE	52/237
7024/195	EDGE FILTER	52/164
7024/196	GRUB SCREW	52/122
7024/197	FEED PIPE	52/235
7024/198	FEED PIPE	52/236
7024/199	SPRING	526/89
7025/16	DOWEL	7025/16A,B,C,D

Item Ref	Description	Superseded By
7025/48	FEELER PIN	7025/49
7027/12B	ADAPTOR	7027/12
7027/12G	ADAPTOR (BR35538)	7027/12
7027/13	BANJO BOLT	1/4621
7027/13C	BANJO BOLT	1/4621
7027/13D	BANJO BOLT	1/4621
7027/16	BANJO	NA1/10
7027/16A	BANJO	NA1/8
7027/16B	BANJO	NA1/7
7027/16C	BANJO	NA1/9
7027/17	WASHER	114/4755
7027/26	VALVE	7027/171
7029/14	BANJO	52/127
7029/14A	BANJO	NA1/4
7029/14B	BANJO	NA1/3
7029/17	D. VALVE	15/228
7029/44	ELEMENT	15/231B
7029/45	ELEMENT	15/231C
7029/46	ELEMENT	15/231D
7029/46A	ELEMENT	15/231E
7033/183	BANJO	NA1/6
7041/34	UNION BODY	7029/57
7044/68	BRUSH	75/116
7054/41	JOINT	114/7
7054/86A	SPIRIT PLUG	7054/105
7054/93	INLET UNION	21/195
7054/99	IDENTIFICATION PLATE	21/198
7097/47	UNION NUT	refer to LAO
7129/65A	ELEMENT ASSY	19/1
7129/102	BANJO	NA1/25
7134/27	PIN	7134/34
7134/31	SPRING	5/62
7144/417	CLEANING KIT	7244/10
7169/34	WASHER	319/6A
7169/68A	N.H.B.	51/443A & B
7169/72	CAP NUT	51/444
7169/185	WASHER	319/61A
NA1/5	BANJO	LAO supply
NA1/2	BANJO	LAO supply
NC2/13	BALL RACE	132/26
NC6/3	BEARINGS	132/18
NC7/8	STEEL BALL	200/M50
ND1/69	PIN	284/812
NJ1/47	SPLIT PIN	206/828
NK1/6	KEY	105/505
NR21/2	DRIVE SCREW	315/0006
NR21/4	DRIVE SCREW	315/004
NR21/8	DRIVE SCREW	315/206
NS16/7S1	SCREW	409/0506

Item Ref	Description	Superseded By
NS16/7W	SCREW	409/0506
NS16/18Y1	SCREW	409/0516
NS17/14Y1	SCREW	NS16/18Y1
NS22/14Y1	SET SCREW	409/0816
NS22/30Y1	SET SCREW	409/0830
NS37/5	SCREW	223/203
NS43/17	SCREW	383/0516
NS43/17Y1	BOLT	NS43/17
NS52/16	SCREW	NS52/20
NU3/1	NUT	342/4
NU3/3	NUT	342/5
NU3/6	NUT	342/6
NU3/10	NUT	342/8
NU7/23	LOCKNUT	398/8
NW2/21,22 23,25,27	SHIM POINTER	106/1A,B,C,D,E
NW2/77	SHIM WASHER	5339/290A
NW2/86	WASHER Similar to	106/30
NW2/113	WASHER	21/199
NW5/8	WASHER	5339/226
NW5/17W4	WASHER	NW5/17
NW5/22	WASHER	5339/314
NW5/22W4	WASHER	NW5/22
NW5/39	WASHER	5339/308
NW5/43	WASHER INJ	NW5/43W4
NW5/49W4	WASHER	NW5/49
NX1/1	PROT CAP	319/6A
NX1/2	PROT CAP	319/8A
NX1/12	PROT CAP	319/17A
NX1/14	CAP	319/21A
NX1/39	PROT CAP	319/22A
NX2/2	PROT CAP	128/1
SK 9017	EROSION PLUG	4/234
UFN205T	LOCKNUT	UFN 023302

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