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PURCHASED COMPONENTS

<u>Catalog No.</u>	<u>Description</u>
AB Renewal Parts 505	Full Voltage Reversing Starter Size 2, Series A Construction
AB Renewal Parts 509	Full Voltage Starter, Size 2, Series A Construction
AB Instructions 700	Type P-AC relays-Time Delay-Latch Units
AB Instructions 836-837	Pressure Switch-Temperature Switch
Aro Section M40 Manual 36	Operators Manual, Parts List and Service Instructions for 'O' Series Power Motors (0 & 2200 Series Gearing)
Double A Products 9065-S	Solenoid Operated Directional Valve WM-3-0-10A1
Eaton ML-318	Installation & Maintenance of Airflex Hydraulic Clutches
Flow Ezy SS-100	All Metal Sump Strainers
Ruthman Machinery 780101	Gusher Coolant Pump Model 6-P3
Wilkerson CJ-CB1-9SM	Service Manual - Utilized Filter Regulator Lubricator Combination Model CB1-00-000

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-34325 Strainer A-56089 Pan plate A-59022 Front sump cover A-59027 Sump cover gasket A-96153 Filler block A-96154 Sump cover rear A-98355 Front splash guard A-99840 Bedway A-99848 #3 legend plate A-99850 Shim A-100016 Rack A-100018 Side splash guard A-100019 Rear splash guard A-100020 Coolant manifold A-101745 Rear shim A-101746 Front shim A-102652 Stop rod bracket A-102653 Stop rod A-105473 Pump bracket B-32063 Screw plug B-36694 Stop rod screw	2			
REF: CONSTRUCTION DRAWINGS: L-99870, L-100022, L-100023 TITLE: Bed, Pan & Legs				
Bardons & Oliver, Inc. - Cleveland, Chio U.S.A.				3-1-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-50305 Spring B-85939 Oil lever gage B-88671 Filler breather cap B-91330 Filter B-92238 Sump cover gasket B-95019 Feed lever stud B-95020 Knob B-96155 Block gasket B-100024 Right leg gasket B-100025 Left leg gasket B-100026 Bedway stud B-101133 Oil change plate B-102654 Stop rod plunger B-102804 Motor/pump unit B-106219 Splash guard support B-106887 Oiler C-788 Strainer knob L-100012 Bed L-100014 Right leg L-100015 Left leg L-105472 Pan	2 2 24 2	Century Detroit 8575-T Flo-Ezy AM-1100-3 Flo-Ezy 10-1-100 Dimco 238 Viking GPO519-A00-M Gits 502-G		
REF: CONSTRUCTION DRAWINGS: L-99870, L-100022, L-100023				
TITLE: Bed, Pan and Legs				3-1-P

BARDONS & OLIVER	PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-86066	Bearing closer	2			
A-86067	Bearing closer				
A-86083	Shaft				
A-86124	93T gear				
A-86817	59T gear				
A-86820	49T gear				
A-86821	27T gear				
A-86828	99T gear				
A-86831	Pinion shaft				
A-86931	61T clutch gear				
A-86932	71T clutch gear				
A-86933	71T clutch gear				
A-86934	95T clutch gear				
A-86937	AS450 clutch hub	2			
A-86938	AS600 clutch hub	2			
B-85944	Spray head	2	Spraco V-182		
B-86074	Spacer				
B-86079	Spacer	2			
B-86082	Spacer				
B-86131	Spacer				
B-86203	Spacer				

REF: CONSTRUCTION DRAWINGS:
L-90558, A-97313

TITLE:
Head

3-2-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-88024 Spacer shim	6			
B-88152 Spacer shim	7			
B-91176 Bearing		MRC 1911-S		
B-91177 Bearing	2	MRC 212-S		
B-91178 Bearing		MRC 213-SF		
B-91179 Bearing	2	MRC 208-S		
B-91180 Bearing	2	MRC 5209-K		
B-91181 Bearing	2	MRC 5212-K		
B-91182 Bearing		MRC 307-SF		
B-91183 Bearing		MRC 5309		
B-91184 AS 450 clutch				
B-91185 AS 600 clutch				
REF: CONSTRUCTION DRAWINGS: L-90558, A-97313				
TITLE: Head				3-2-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-54658 Spindle gear nut				
A-54659 Adjusting nut				
A-85059 Nameplate				
A-86826 37T gear				
A-86843 AS700 clutch hub				
A-92209 Front bearing closer				
A-92210 Rear bearing closer				
A-92211 Spindle				
A-92212 87T gear				
A-92213 48T gear				
A-92214 Bearing spacer				
A-92215 Bearing spacer				
A-99847 Housing cover				
B-37291 Driving button				
B-86885 Key	2			
B-90220 Bearing retainer	4			
B-92489 AS clutch				
B-92490 Bearing cup		Timken 752		

REF: CONSTRUCTION DRAWINGS: L-91880, L-106236

TITLE: Spindle

3-3-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-92491 Bearing cone B-92492 Bearing cup B-92493 Bearing cone B-92494 Bearing B-100203 5'-10' lg, 1/4" O-ring strip L-99845 Head L-106235 Housing		Timken 760 Timken 572 Timken 581 MRC 9218-S		
REF: CONSTRUCTION DRAWINGS: L-91880, L-106236				
TITLE: Spindle				3-3-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-93691 Handwheel				
A-95863 Switch bracket				
A-95864 Chart plate				
A-95865 Control plate				
A-95866 Shaft				
A-95867 Dial drum				
A-97329 Handwheel cup dial				
A-99868 Drum chart 30/1600				
A-99869 Drum chart 39/2000				
B-31937 Clip	8			
B-74747 Spacer	4			
B-74796 Index lever				
B-74797 Roller				
B-74799 Spring				
B-74806 Spacer	2			
B-74807 Spacer	2			
B-90287 Bushing				
B-95870 Arm	2			
B-95871 Pivot				
B-95872 Closer				
B-95873 Bushing				
REF: CONSTRUCTION DRAWINGS: L-95885, B-103976				
TITLE: Preselector				3-4-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-95874 Sprocket B-95875 Spacer B-95876 Spacer B-95878 Cam #2 B-95881 Stud B-95882 Key B-95883 Bearing B-95884 Switch B-99865 Cam #1 B-99866 Cam #3 B-99867 Cam #4 L-95862 Cover	4 4	MRC 202-SZ Micro-Switch BZ-2RM22-A2		
REF: CONSTRUCTION DRAWINGS: L-95885, B-103976				
TITLE: Preselector				3-4-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-96005 Lever				
A-96260 Manifold gasket				
A-99862 Manifold				
A-100429 Control housing				
A-100430 Lever guard				
A-100431 Housing cover				
A-100433 Collar				
A-100434 Guide				
A-100435 Lever plate				
A-100436 Lever				
A-101924 Manifold				
A-107652 Lever hub				
B-40728 Spring (1-3/32 lg)				
B-48061 Spring				
B-92351 Handle		Reid Tool Supply BTH-9		
B-95755 Breather		Arrow ASP-2BV		
B-95884 Switch		Micro Switch BZ-2RM22-A2		
B-96016 Bushing				
B-96017 Directional valve	3	Double A QM-3-0-10A1		
B-96018 Bearing	2	MRC R-4-A-4		

REF: CONSTRUCTION DRAWINGS: L-99863, L-102012

TITLE: Spindle Control

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Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-100328 Spring B-100437 Shaft B-100438 Plunger B-100439 Stop plate B-100441 Pin B-100444 Bushing B-100445 Bushing B-102696 Legend plate B-105451 Switch plate B-105560 Limit switch B-106671 Directional valve B-106734 Adjusting screw B-107384 Bushing B-107652 Brake detent B-107654 Detent dog B-107657 Detent plate L-96006 Manifold	2			

REF: CONSTRUCTION DRAWINGS: L-99863, L-102012

TITLE: Spindle Control

3-5-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

REPAIR CODE	
SOURCE CODE	
VENDOR CODE	
QTY	
BARDONS & OLIVER PART NUMBER	A-100004 Motor plate
REF: CONSTRUCTION DRAWINGS: L-100007	
TITLE: Motor Drive	

3-6-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-100213 Control enclosure A-100214 Enclosure bracket A-100215 Support arm				
REF: CONSTRUCTION DRAWINGS: L-100212				
TITLE: Electrical Equipment				3-7-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-36758 Collet pads (Standard 2")	2			
A-42589 Collet (Standard 2")				
A-62790 Wedge	2			
A-69766 Abutment sleeve				
A-69767 Finger holder	2			
A-70711 Finger				
A-92103 Collet hood	2			
A-99969 Yoke				
A-99970 Yoke bracket	2			
A-99979 Collet hood guard				
A-99986 Cylinder	2			
B-36830 Finger pivot pin				
B-44274 Finger holder friction	2			
B-62784 Finger roller				
B-62785 Roller pin	2			
B-69795 Finger adjusting ring				
B-83823 Adjusting sleeve extension	2			
B-86841 Plunger				
B-86866 Spindle guard pin	2			
B-95245 Hinge				

REF: CONSTRUCTION DRAWINGS: L-99980, A-106350

FINGER ASSEMBLY - A-101209

TITLE:

Collet Chuck

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Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-97805 Collet pad screw (Std. 2")	4			
B-98019 Handle				
B-98856 Spring plunger	2	Vlier M-62		
B-98863 Wedge shoe	2			
B-99971 Cylinder bracket				
B-99987 Yoke pivot pin				
B-99988 Yoke link pin				
B-99989 Cylinder pivot pin				
B-99990 Cylinder link				
B-100208 Wedge shoe stud	2			
B-103292 Bushing				
B-106021 Oiler		Oilrite DOSF		
L-99968 Rear spindle guard				
— OPTIONAL —				
1-1/2" CAPACITY				
C-2382 Collet pad screw				
A-35135 Collet pads				
B-49704 Collet				

REF: CONSTRUCTION DRAWINGS:

L-99980, A-10635

FINGER ASSEMBLY A-101209

TITLE:

Collet Chuck

3-8-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
- Collet Chuck - A-95274 Brace A-97270 Bracket A-99986 Air cylinder B-88698 Speed control muffler B-95900 Air valve B-96926 R.F.L. unit	2 2	Sheffer 5AC3K4 Schrader 4504-0004 Numatics 12DSA4410-011B Willkerson CB1-04-F00		
REF: CONSTRUCTION DRAWINGS: A-99998				
TITLE: Pneumatic Equipment				3-9-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-95159	Handwheel				
A-95160	Feed screw				
A-99878	Cross slide				
A-99919	Cross slide gib				
A-1000329	Front carriage cap				
A-106191	Dovetail guard				
B-31937	Clip	6			
B-34399	Gib screw	2			
B-37754	Gib stud				
B-40580	Gib nut				
B-42168	Rear carriage cap				
B-42171	Rear cap gib				
B-42854	Dial				
B-44797	Wiper	2			
B-47908	Wiper cover	2			
B-62363	Compensating nut				
B-62365	Clamp	2			
B-62366	Feed screw gear				
B-62367	Bearing spacer	2			
B-62368	Bearing spacer				
B-62805	Wiper cover				
REF: CONSTRUCTION DRAWINGS:		L-99876			
		Sub assembly B-96070			
TITLE:		Cross slide and carriage			3-11-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-62806 Wiper	2	Dimco #238		
B-63151 Wiper cover				
B-63545 Stop				
B-66118 Tee bolt				
B-68691 Handle stud				
B-95020 Knob				
B-95162 Trip dog				
B-95164 Feed screw nut				
B-95902 Binder hub				
B-96066 Stud				
B-96660 Nylon tip	3	MRC #7303 Gits #1232		
B-97333 Knob assembly				
B-99879 Trip pin				
B-100330 R.H. front gib				
B-100331 L.H. front gib				
B-100375 Bearing	2			
B-106889 Oiler				
B-107766 Shims				
C-2162 Washer				
C-2252 Brass shoe	2			
C-2281 Brass shoe				
L-99877 Carriage	7			
REF: CONSTRUCTION DRAWINGS: L-99876 Sub assembly B-96070				
TITLE: Cross slide and carriage				3-11-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-65259	Triple cluster gear	6			
A-69817	Stop screw				
A-71323	Stop screw roll				
A-94824	Cross feed lever				
A-94826	Gear shift lever				
A-94991	Front gasket				
A-94992	Left side gasket	3			
A-94993	Right side gasket				
A-94994	Cam shaft				
A-94995	Gear shift cam				
A-94996	Hollow shaft				
A-94997	Shaft				
A-94998	Handwheel	2			
A-95000	Clutch bolt				
A-95836	Carriage apron top gasket				
A-96032	Tooth clutch gear				
A-99520	Chip guard				
A-105367	Pinion shaft				
A-106085	Carriage dial				
A-106086	Dial marker				
REF: CONSTRUCTION DRAWINGS: L-107139, L-107140 SUB ASSEMBLY B-95325, B-96536, B-96537					
TITLE: Carriage Apron					3-12-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-107144 Right side cover				
A-107145 Left side cover				
A-107146 Long feed lever				
A-107147 Right side gasket				
B-31760 Knockout spring				
B-31917 Feed lever spring				
B-31918 Reverse lever spring				
B-37754 Stud				
B-41719 Feed arrow				
B-45759 Spring				
B-52222 Spring	6			
B-59673 Brake valve spring				
B-62521 Spacer	2			
B-65293 Clutch bolt nut	2			
B-65295 Spacer	2			
B-65302 Feed lever plunger	2			
B-65306 Double cluster gear				
B-65307 Double cluster gear				
B-65308 Double cluster gear				
B-65310 Idler gear				
B-65311 Worm				

REF: CONSTRUCTION DRAWINGS: L-107139, L-107140
SUB ASSEMBLY B-95325, B-96536, B-96537

TITLE: Carriage Apron

3-12-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 2 of 7

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-65312	40T gear	6			
B-65319	Bushing				
B-95322	Spacer				
B-65339	Bushing				
B-65340	Sleeve				
B-95341	Screw				
B-65342	Shift pin	2			
B-65352	Bearing spacer				
B-67045	Lever guard				
B-67046	Feed lever cam	2			
B-69183	Clutch plug	3			
B-70631	Spacer	2			
B-73036	Bushing				
B-81534	Pin				
B-92351	Handle	3	Reid Tool Supply BTH-9		
B-93655	Knob		Reid Tool Supply BD-2		
B-94759	Plunger		Jergens 26908		
B-95001	Lever	2			
B-95005	KO rod plug 15/16				
B-95006	Lever stop				
B-95008	Detent plate				
REF: CONSTRUCTION DRAWINGS: L-107139, L-107140 SUB ASSEMBLY B-95325, B-96536, B-96537					
TITLE: Carriage Aprox					3-12-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-95009 Cam spacer				
B-95010 Feed dial				
B-95012 Idler gear stud				
B-95013 Sleeve				
B-95014 Bearing spacer	3			
B-95015 25T gear				
B-95016 Spacer				
B-95018 KO rod plug 1-1/16				
B-95019 Feed lever stud	2			
B-95020 Knob	2			
B-95022 Pinion shaft gear				
B-95024 Retainer	2			
B-95025 Spring	8			
B-95026 Spacer	2			
B-95027 Pin	4			
B-95028 Cross feed lever rod				
B-95065 Reversing gear shaft rod				
B-95748 Seals		Victor 62302		
B-95749 Seals		Victor 60096		
B-95750 Seals		Victor 62314		
B-95753 Sight gage		Bijur B-5734		

REF: CONSTRUCTION DRAWINGS: L-107139, L-107140
SUB ASSEMBLY B-95325, B-96536, B-96537

TITLE:

Carriage Apron

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Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 4 of 7

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-95754 Lube pump	4	Bijur KIC-C-2367		
B-95756 Bushing				
B-95755 Breather				
B-95757 Bearing	2	MRC 202S		
B-95758 Bearing		MRC-207S		
B-95759 Bearing	2	MRC R4		
B-95760 Bearing	3	MRC 104KS		
B-95761 Bearing		MRC 107KS		
B-95762 Bearing	2	Aetna E-7		
B-95767 Bearing	3	MRC 204S		
B-95855 Gib				
B-96021 Clutch bushing				
B-96031 Tooth clutch				
B-96033 Bearing		Torrington NTA-1828		
B-96034 Plate		Torrington TRC-1828		
B-96127 Dial feed plate				
B-96138 Lever stop				
B-97382 Detent holder				
B-100231 Adjusting nut				
B-105347 Spacer				
B-105348 Cap gasket				

REF: CONSTRUCTION DRAWINGS: L-107139, L-107140

SUB ASSEMBLY B-95325, B-96536, B-96537

TITLE:

Carriage Apron

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Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 5 of 7

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-105349 Cap		Torrington HJ-162412 & 1R121612		
B-105350 Bearing				
B-105456 Knockout shim				
B-105457 Knockout button				
B-105458 Feed disengage pin				
B-105459 CS knockout rod				
B-105547 Spring				
B-106084 Handwheel shaft				
B-106165 Thrust washer	2	TRA-1423		
B-106166 Thrust washer	2	TRA-1828		
B-106167 Spacer				
B-106890 Oiler				
B-106891 Oiler				
B-101547 Nut		BH02		
B-107035 Nut		BH04		
B-107037 Nut		BH07		
B-107148 Guide sleeve				
B-107149 Shifter block				
B-107150 Shifter pin				
REF: CONSTRUCTION DRAWINGS: L-107139, L-107140 SUB ASSEMBLY B-95325, B-96536, B-96537				
TITLE: Carriage Apron				3-12-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-107151 212 O-ring L-107142 Carriage apron L-107143 Apron cover				
REF: CONSTRUCTION DRAWINGS: L-107139, L-107140 SUB ASSEMBLY B-95325, B-96536, B-96537				
TITLE: Carriage Apron				3-12-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-41138 Locating ring A-59751 Saddle way - rear A-59753 Rack A-59757 Slide cap - front A-59759 Saddle cap - rear A-60721 Saddle way - front A-62940 Tumbler A-65243 Lockbolt center A-74321 Turret clamp A-74322 Slide cap - rear A-99926 Saddle cap - front B-12004 Stop screw carrier nut B-31760 Knockout spring B-34166 Turret bevel gear B-34177 Lever roller B-34178 Lever washer B-34179 Lockbolt spring B-34184 Pawl pivot				

REF: CONSTRUCTION DRAWINGS: A-74328, A-79335, A-83197
SUB ASSEMBLY A-59187 L-106519-20-21

TITLE: Turret Slide & Saddle

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BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-39246 Pawl spring	12			
B-41820 Chip guard				
B-41825 Chip guard support				
B-42367 Steel way screw				
B-42668 Turret cover				
B-43630 Bevel gear				
B-47906 Lockbolt bushing				
B-58855 Oil plug				
B-59747 Taper gib				
B-59748 Taper gib				
B-59749 Straight gib				
B-59752 Saddle way - front	6			
B-59754 Slide cap - front				
B-59755 Slide clamp cap				
B-59760 Block				
B-59764 Ind. stop shaft				
B-59765 Stop rod				
B-59766 Stop shaft collar				
B-59767 Clamp nut				

REF: CONSTRUCTION DRAWINGS:

Sub assembly A-59187

L-106519,20,21, A-74328, A-74335, A-83197

TITLE: Turret Slide & Saddle

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Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 2 of 6

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-59769 Stop screw	6			
B-59773 Bevel gear nut				
B-60136 Gib screw	2			
B-62194 Stop				
B-62326 Lockbolt				
B-62938 Lockbolt lever				
B-63016 Left front gib				
B-63347 Lever washer				
B-65368 Locating pin	2			
B-65416 Lever pin				
B-70536 Stop screw carrier				
B-70941 Lockbolt sleeve				
B-70942 Spring retainer				
B-71971 Tumbler seat				
B-74326 Spacer				
B-74296 Clamp stud				
B-74302 Washer				

REF: CONSTRUCTION DRAWINGS:

SUB ASSEMBLY A-59187

L-106519-20-21, A-74328, A-74335, A-83197

TITLE:

Turret Slide & Saddle

3-13-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 3 of 6

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-74303 Set screw block				
B-74323 Release trip				
B-74324 Clamp release				
B-74325 Link				
B-74327 Guard				
B-75553 Ratchet				
B-77660 Clamp ring locator	2			
B-80810 Knockout rod plug				
B-80811 Jam nut				
B-92239 Binder hub				
B-92325 Binder handle				
B-92351 Binder handle				
B-95169 Knockout rod		Reid Tool Supply BTH-9		
B-95170 Clamp stud				
B-95516 Latch				
B-95739 Spacer				
B-95914 Lock screw				
B-99927 Binder bolt	6			
B-100376 Bearing cone		Timken 387		
B-102149 Pawl				
B-102973 Spring bolt				
B-103146 Bushing				
REF: CONSTRUCTION DRAWINGS:		A-74328, A-74335, A-83197		
SUB ASSEMBLY A-59187		L-106519-20-21		
TITLE: Turret Slide & Saddle				3-13-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-104523 Tumbler screw				
B-105038 Spring	4			
B-105465 Shim				
B-105457 Knockout button				
B-106470 Knockout rod				
B-106522 Latch pivot				
B-106887 Oiler				
B-106895 Oiler	2			
B-107271 Lock screws				
B-107275 Brass shoe				
C-299 Dowel pin				
C-370 Soft pin				
C-1053 Washer				
C-1066 Washer				
C-1069 Washer				
C-1071 Washer	6			
C-1146 Brass shoe	2			
C-2247 Plug	6			
C-2253 Brass shoe				
C-2254 Brass shoe	2			
C-2261 Brass shoe	6			
REF: CONSTRUCTION DRAWINGS: A-74328, A-74335, A-83197 Sub assembly A-59187 L-106519, L-106520, and L-106521				
TITLE: Turret Slide & Saddle				3-13-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
C-2317 Pin L-74319 Slide L-106469 Saddle L-99923 Hex turret	2			

REF: CONSTRUCTION DRAWINGS:

A-74328, A-74335, A-83197

L-106519, L-106520, L-106521

Sub assembly A-59187

TITLE:

Turret Slide & Saddle

3-13-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 6 of 6

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-65808 Triple cluster gear A-69916 Cam A-94831 Turnstile sleeve A-94994 Cam shaft A-95122 Front gasket A-95125 Hollow shaft A-95126 Shaft A-95127 Clutch bolt A-95129 Dial A-95422 Top cover A-107237 Power feed lever A-107239 Front cover A-107240 Right side cover A-107241 Left side cover A-96064 Left side gasket A-96065 Right side gasket A-98921 Lever A-99520 Chip guard A-100092 Pinion shaft B-31917 Spring	2			
REF: CONSTRUCTION DRAWINGS: L-107232, L-107233, L-107234 Sub Assembly B-96538 TITLE:				
Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.				3-14-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-42100 Feed arrow	3			
B-52222 Spring				
B-62521 Spacer	2			
B-65293 Clutch bolt nut				
B-65306 Double cluster gear				
B-65307 Double cluster gear				
B-65308 Double cluster gear				
B-65311 Worm				
B-65322 Spacer	2			
B-65340 Sleeve				
B-65341 Screw				
B-65342 Shift pin	2			
B-65386 Bushing	2			
B-65803 Lever				
B-65817 Lever screw				
B-65822 Feed lever plunger				
B-65834 Rear cover				
B-65836 Rear gasket				
REF: CONSTRUCTION DRAWINGS: L-107232, L-107233, L-107234 Sub assembly B-96538				
TITLE: Saddle Apron				3-14-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-67045 Lever guard				
B-67046 Feed lever cam				
B-69183 Clutch plug	3			
B-73036 Bushing				
B-92351 Handle	5	Reid Tool Supply BTH-9		
B-93655 Knob	3	Reid Tool Supply BD-2		
B-94759 Plunger		Jergens #26908		
B-95006 Lever stop				
B-95009 Cam spacer				
B-95019 Feed lever stud				
B-95020 Knob		Dimco #238		
B-95024 Retainer				
B-95025 Spring	4			
B-95026 Spacer				
B-95027 Pin	2			
B-95028 Feed lever rod				
B-95130 Gasket				
B-95131 Feed dial				
B-95132 Dial feed plate				
B-95133 Detent plate				
B-95134 Spacer				
REF: CONSTRUCTION DRAWINGS: L-107232, L-107233, L-107234				
Sub assembly B-96538				
TITLE: Saddle Apron				3-14-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-96031 Tooth clutch B-96138 Lever stop B-97309 Clutch bushing B-100091 Turnstile hub B-101547 Nut BH-04 B-105416 Dial marker B-106165 Thrust washer B-106891 Oiler B-107037 Nut BH-07 B-107242 Guide sleeve B-107243 Guide sleeve B-107244 spacer C-1049 Brass shoe C-1066 Brass shoe C-2246 Brass shoe C-2281 Brass shoe L-107236 Apron	2	TRA-1423 Gits 302		
REF: CONSTRUCTION DRAWINGS: L-107232, L-107233, L-107234 Sub assembly B-96538				
TITLE: Saddle Apron				3-14-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-94875	Ball valve	2	Apollo 70-103-01		
B-97341	Swivel adapter	4	Parker 1/2 NPT 52202-8-8		
B-101027	Nozzle		American Flexible hose type F2		
B-102852	Nozzle		American Flexible hose type F2		
B-106208	Coolant pump		Gusher 6-P3		
REF: CONSTRUCTION DRAWINGS: L-106632					
TITLE:		Coolant Pump & Piping			3-15-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-69148	Pin	2	Reid Tool Supply BD-2		
B-70163	Lever				
B-70187	Bar				
B-70191	Stand hd. washer	2			
B-107718	Adjuster				
B-93655	Handle				
B-96105	Motor bracket	2			
B-96106	Chain extension				
B-96108	Idler shaft				
B-96109	Drive shaft	2	Boston 40B14-3/4-15014		
B-96111	Chain guard				
B-96129	14T sprocket				
B-96130	Pillow block	4	Boston 64536-XL 3/4		
B-96131	Coupling				
B-96132	Air motor				
B-96503	Air valve	2	ARO 8228-10A Numatics 12DSA5410-011B MRC 114-KS		
B-100377	Bearing				
B-106398	Chain				
B-106899	Link	2	Diamond RC40- $\frac{1}{2}$ -A3S-6131 x 141 Lg. Link Belt 40- $\frac{1}{2}$ -C-4466CL-08		
B-106900	Offset link				

REF: CONSTRUCTION DRAWINGS:

L-107720, L-100075

TITLE:

2" CAP - Bar Feed

3-16-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 1 of 3

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-66303				
A-66304				
A-70147				
A-95691				
A-95692				
A-96104				
A-100065				
A-100066				
A-107719				
A-100070				
-100073				
A-101687				
A-103596				
A-103610				
B-69146				
B-36018				
B-36028				
B-66313				
B-66315				
B-69145				

REF: CONSTRUCTION DRAWINGS: L-107720, L-100075

TITLE: 2" CAP - Bar Feed

3-16-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
C-1058 Washer L-100068 Front stand L-101688 Center stand A-107596 RH chuck jaw A-107597 LH chuck jaw	8 4			
REF: CONSTRUCTION DRAWINGS: L- 107720, L-100075				
TITLE: 2" Cap - Bar Feed				3-16-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-56325	Square turret	4			
A-58493	Base				
A-61146	Tumbler				
B-32046	Lockbolt bushing				
B-32049	Lockbolt spring				
B-32055	Screw plug				
B-34234	Lockbolt				
B-34235	Lockbolt sleeve				
B-34243	Bottom plate				
B-34248	Binder lever collar				
B-34249	Spring plunger				
B-42144	Binder lever				
B-42145	Lever shaft				
B-42146	Lever bushing				
B-42147	Lever collar				
B-42148	Lever collar				
B-42149	Bakelite ball				
B-43646	Indexing plate				
B-43648	Center stud				
B-51196	Center bushing				
B-51197	Center sleeve				
REF: CONSTRUCTION DRAWINGS: A-58574					
TITLE: Square Turret					3-17-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-58482 Pivot screw				
B-58483 Tumbler plunger				
B-63351 Lockbolt lever				
B-63352 Lockbolt cam				
B-63945 Tee nut	2			
B-73527 Spring				
B-95803 Oiler	2	Gits 00522		
C-2072 Set screw	12			
C-2075 Spring	2			
C-2397 Plug	2			
REF: CONSTRUCTION DRAWINGS: A-58574				
TITLE: Square Turret				3-17-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-34407	Wedge	2			
B-43583	Body				
B-63945	Tee nut				
C-2081	Sq. hd. set screw	2			
REF: CONSTRUCTION DRAWINGS: A-43582					
TITLE: Rear Tool Post					3-18-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-34811	Base	2			
A-34816	Swivel slide				
A-63199	Tool slide	2			
B-34399	Gib screw				
B-34813	Tool slide taper gib	2			
B-34814	Swivel slide taper gib				
B-34815	Follower	2			
B-34819	Yoke				
B-34817	Swivel plate	2			
B-34821	Tool slide stud				
B-34822	Swivel stud	2			
B-63945	Tee nut				
B-84883	Spacer	2			
B-97265	Stud				
B-102118	Bracket	2			
C-1068	Washer				
C-2072	Sq. head set screw	4			
C-2198	Washer				

REF: CONSTRUCTION DRAWINGS: L-34520

TITLE: Cross Slide Taper Attachment

3-20-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-71286 Bracket				
A-71289 Leader				
A-71292 Follower rack				
A-71859 Lg. fd. lever				
B-32079 Leader nut				
B-48061 Spring				
B-52312 Kickout plun. spring				
B-56121 Spring				
B-71290 Leader bushing				
B-71291 Follower				
B-71293 Closer				
B-71294 Disengage block				
B-71297 Kickout plunger				
B-71298 Stop lever				
B-71299 Knockout adjustment				
B-71301 Bushing				
B-71302 Knockout rod				
B-71303 Lever catch				
B-71304 Detent				
B-71305 Knockout rod plunger				
REF: CONSTRUCTION DRAWINGS: L-71300				
TITLE: Carriage Thread Chasing Attachment				3-21-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-71306 Pin				
B-71307 Lever pivot				
B-71319 Cover				
B-71858 Pinion shaft				
B-95020 Knob		Dimco #238		
B-95810 Lever rod				
B-102209 Lever				
B-102953 Spacer				
B-106893 Oiler		Gits #2201		
REF: CONSTRUCTION DRAWINGS: L-71300				
TITLE: Carriage Thread Chasing Attachment				3-21-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-71511	Follower	2			
A-71547	Cam				
A-97772	Lever				
A-97773	Spacer				
A-97774	Right side cover				
A-97786	Cover gasket				
A-97787	Apron gasket				
A-99435	Follower bracket				
A-99436	Follower bracket cover				
A-99437	Leader				
A-99438	Splined shaft	2			
A-99439	Spacer				
A-100333	Lever bracket				
B-48009	Spring				
B-31917	Spring				
B-52222	Spring				
B-71513	Feed screw gear				
B-71514	Bearing closer				
B-71515	Washer				
B-71518	Bushing	2			
B-71520	Washer	2			
REF: CONSTRUCTION DRAWINGS: SUB ASSEMBLY A-107036 L-97789, L-97792, L-97793					
TITLE: Turret Loading Attachment					3-22-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-71521 Spacer B-71522 30T gear B-71523 Splined shaft B-71525 20T gear B-71526 Coupling B-71528 Closer B-71530 Spring retainer B-71531 12T gear B-71532 Collar B-71534 Cover B-71536 Feed lever plunger B-71539 Eccentric pin B-71540 42T gear B-71541 36T gear B-71542 Rack B-71543 Roller B-71545 Cover B-73454 Bushing B-79065 Spring	2			
REF: CONSTRUCTION DRAWINGS: SUB ASSEMBLY A-107036 L-97789, L-97792, L-97793				
TITLE: Turret Leading Attachment				3-22-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-83937				
Shear pin				
B-95019				
Feed lever stud				
B-95020		Dimco 238		
Knob				
B-95748		Garlock: 92x7518		
Seal	3			
B-95760		MRC 104KS		
Bearing	2			
B-95768		MRC 203S		
Bearing	2			
B-97775				
Bearing closer				
B-97779				
Seal spacer				
B-97780				
Shift rod				
B-97781	2			
32T gear				
B-97782				
8T pinion				
B-97784	2			
Gear stud				
B-97785				
Closer gasket				
B-99440				
Cover				
B-100341				
Feed shaft				
B-104877	4	MRC 107KSD		
Bearing				
B-104964				
Binder hub				
B-104965				
Binder handle				

REF: CONSTRUCTION DRAWINGS:

SUB ASSEMBLY A-107036

L-97789, L-97792, L-97793

TITLE:

Turret Leading Attachment

3-22-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
*A-101034 Hood *A-101035 Guard B-84088 Knob C-1054 Washer *NOTE: If machine also has a cross slide taper attachment, use A-106791 in place of A-101034 and A-106792 in place of A-101035.	2			
REF: CONSTRUCTION DRAWINGS: L-101033				
TITLE: Chuck Guard				3-23-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-106875 Long feed lever B-106887 Oiler B-107623 Shim B-107762 Oiler C-1721 Washer C-2246 Brass shoe L-97769 Gear housing	2 2 2	Gits 502 Gits 501		
REF: CONSTRUCTION DRAWINGS: L-97789, L-97792, L-97793 SUB ASSEMBLY A-107036				
TITLE: Turret Leading Attachment				3-22-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-36758 Collet pads	2			
A-42589 Collet				
A-62790 Wedge	2			
A-69766 Abutment sleeve				
A-69767 Finger holder	2			
A-70711 Finger				
A-92103 Collet hood	2			
A-99969 Yoke				
A-99970 Yoke bracket	2			
A-99979 Collet hood guard				
A-99986 Cylinder	2			
B-36830 Finger pivot pin				
B-44274 Finger holder friction	2			
B-62784 Finger roller				
B-62785 Roller pin	2			
B-69795 Finger adjusting ring				
B-83823 Adjusting sleeve extension	2			
B-86841 Plunger				
B-86866 Spindle guard pin	2			
B-95245 Hinge				

REF: CONSTRUCTION DRAWINGS: L-99980, A-99981

FINGER ASSEMBLY - A-101209

LAST USED
LOT 451-12

TITLE:

Collet Chuck

3-8-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 1 of 2

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-97805 Collet pad screw	4			
B-98019 Handle				
B-98856 Spring plunger	2	Vlier M-62		
B-98863 Wedge shoe	2			
B-99971 Cylinder bracket				
B-99987 Yoke pivot pin				
B-99988 Yoke link pin				
B-99989 Cylinder pivot pin				
B-99990 Cylinder link				
B-100208 Wedge shoe stud	2			
B-103292 Bushing				
B-106021 Oiler		Oilrite DOSF		
L-99968 Rear spindle guard				

REF: CONSTRUCTION DRAWINGS:

L-99980, A-99981

FINGER ASSEMBLY A-101209

TITLE:

Collet Chuck

3-8-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 2 of 2

2

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
- Collet Chuck - A-95274 Brace A-97270 Bracket A-99986 Air cylinder B-88698 Speed control muffler B-95900 Air valve B-96926 R.F.L. unit Options on 2 of 2	2 2	Sheffer 5AC3K4 Schrader 4504-0004 Numatics 12DSA4410-011B Wilkerson CBI-04-F00		
REF: CONSTRUCTION DRAWINGS: A-99995, A-99998				
TITLE: Pneumatic Equipment				3-9-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
OPTIONAL				
BAR FEED				
B-88698 Speed control muffler	2	Schrader 4504-0004		
B-91243 Pressure regulator		Wilkerson R20-04-P00		
B-94279 Pressure gage		Wilkerson GRP-95-229		
B-96132 Air motor		ARO 8228-10B		
B-96503 Air valve		Numatics 12DSA5410-011-B		
OPTIONAL				
POWER RAPID TRAVERSE				
B-85914 Needle valve		Manatrol N-400-B-11		
B-88698 Speed control muffler	2	Schrader 4504-0004		
B-91243 Pressure regulator		Wilkerson R20-04-P00		
B-94279 Pressure gage		Wilkerson GRP-95-229		
B-96503 Air valve		Numatics 12DSA5410-011-B		
B-101949 Air motor		Aro 8228-6A		

REF: CONSTRUCTION DRAWINGS: A-99995, A-99998

TITLE: Pneumatic Equipment

3-9-P

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-69148	Pin	2	Reid Tool Supply BD-2		
B-70163	Lever				
B-70187	Bar				
B-70191	Stand hd. washer	2			
B-83717	Center plug				
B-93655	Handle				
B-96105	Motor bracket	2			
B-96106	Chain extension				
B-96108	Idler shaft				
B-96109	Drive shaft	2	Boston 40B14-3/4-15014		
B-96111	Chain guard				
B-96129	14T sprocket				
B-96130	Pillow block	4	Boston 64536-XL 3/4		
B-96131	Coupling				
B-96132	Air motor				
B-96503	Air valve	2	ARO 8228-10A Numatics 12DSA5410-011B MRC 114-KS		
B-100377	Bearing				
B-106398	Chain				
B-106899	Link	2	Diamond RC40-1/2-A3S-6131 x 141 Lg. Link Belt 40-1/2-C-4466CL-08		
B-106900	Offset link				

REF: CONSTRUCTION DRAWINGS:

L-100074, L-100075

TITLE:

2" CAP - Bar Feed

3-16-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 1 of 3

Lost Lot 451-10

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-66303				
A-66304				
A-70147				
A-95691				
A-95692				
A-96104				
A-100065				
A-100066				
A-100069				
A-100070				
A-100073				
A-101687				
A-103596				
A-103610				
B-36017				
B-36018				
B-36028				
B-66313				
B-66315				
B-69145				
B-69146				

REF: CONSTRUCTION DRAWINGS: L-100074, L-100075

TITLE: 2" CAP - Bar Feed

3-16-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
C-1056 Washer C-1058 Washer L-100068 Front stand L-101688 Center stand	8 4			
REF: CONSTRUCTION DRAWINGS: L-100074, L-100075				
TITLE: 2" Cap - Bar Feed				3-16-P R

BARDONS & OLIVER PART NUMBER		QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-69148	Pin	2	Reid Tool Supply BD-2		
B-70163	Lever				
B-70187	Bar				
B-70191	Stand hd. washer				
B-107718	Adjuster	2			
B-93655	Handle				
B-96105	Motor bracket				
B-96106	Chain extension				
B-96108	Idler shaft	2	Boston 40B14-3/4-15014		
B-96109	Drive shaft				
B-96111	Chain guard				
B-96129	14T sprocket				
B-96130	Pillow block	4	Boston 64536-XL 3/4		
B-96131	Coupling				
B-96132	Air motor				
B-96503	Air valve				
B-100377	Bearing	2	ARO 8228-10A Numatics 12DSA5410-011B MRC 114-KS Diamond RC40- $\frac{1}{2}$ -A3S-6131 x 141 lg. Link belt 40- $\frac{1}{2}$ -C4466CL-08 Link belt 40- $\frac{1}{2}$ -C-7466		
B-106898	Chain				
B-106899	Link				
B-106900	Offset link				

REF: CONSTRUCTION DRAWINGS:

L-107720, L-100075

TITLE:

2" CAPACITY - BAR FEED

NAVY

3-16-P

Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A.

Sheet 1 of 3

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
A-66303				
A-66304				
A-70174				
A-95691				
A-95692				
A-96104				
A-100065				
A-100066				
A-107719				
A-100070				
A-100073				
A-101687				
A-103596				
A-103610				
A-107596				
A-107597				
B-36018				
B-36028				
B-66313				
B-66315				
B-69145				

REF: CONSTRUCTION DRAWINGS:

L-107720, L-100075

NAVY

TITLE:

2" CAPACITY - BAR FEED

3-16-P

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B-69146 Collar C-1056 Washer C-1069 Washer L-100068 Front stand L-101688 Center stand	8 4			
REF: CONSTRUCTION DRAWINGS: L-107720, L-100075 NAVY TITLE: 2" CAPACITY - BAR FEED 3-16-P Bardons & Oliver, Inc. - Cleveland, Ohio U.S.A. Sheet 3 of 3				

BARDONS & OLIVER PART NUMBER	QTY	VENDOR CODE	SOURCE CODE	REPAIR CODE
B- 97306	6	McMaster 94323D 191		
B-97330	6	New Era Unidial U.16.025		
B-107614				
B-107615				
B- 97306				
B-97330				
B-107614				
B-107615				
B- 97306				
B-97330				
B-107614				
B-107615				
B- 97306				
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