

SIP

SIMPLEX IDEAL PEERLESS



IDEAL 650 BED KNIFE GRINDER

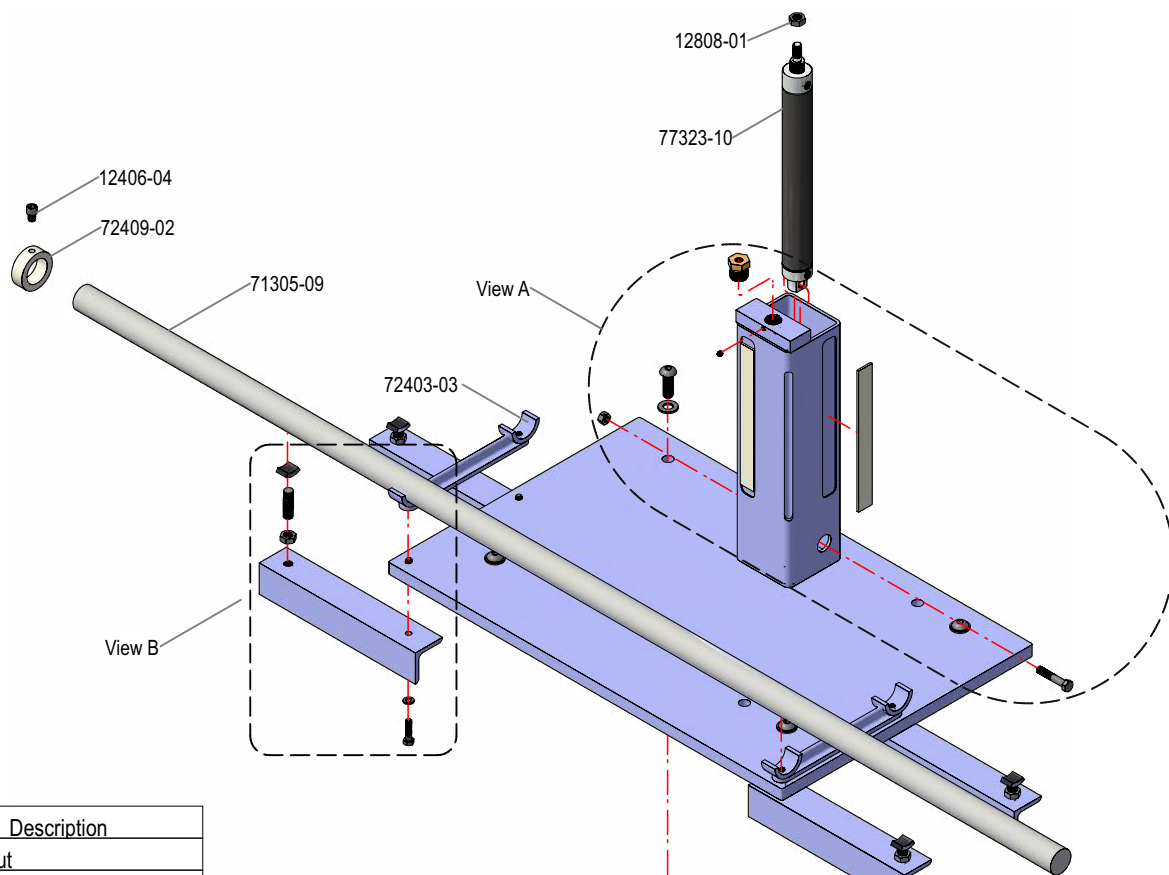
PARTS MANUAL

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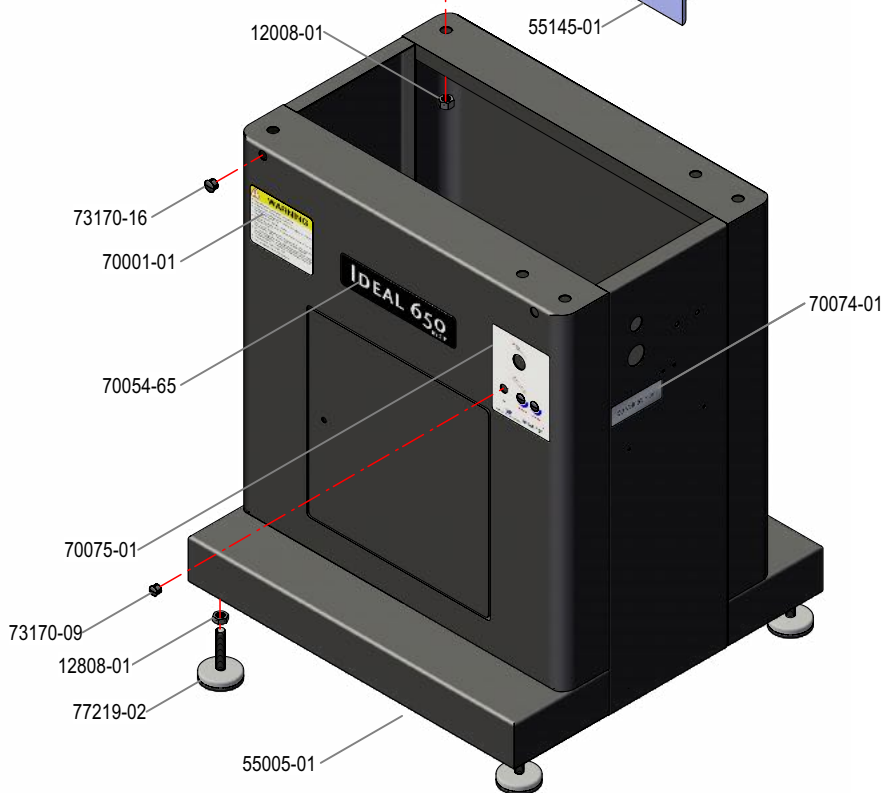
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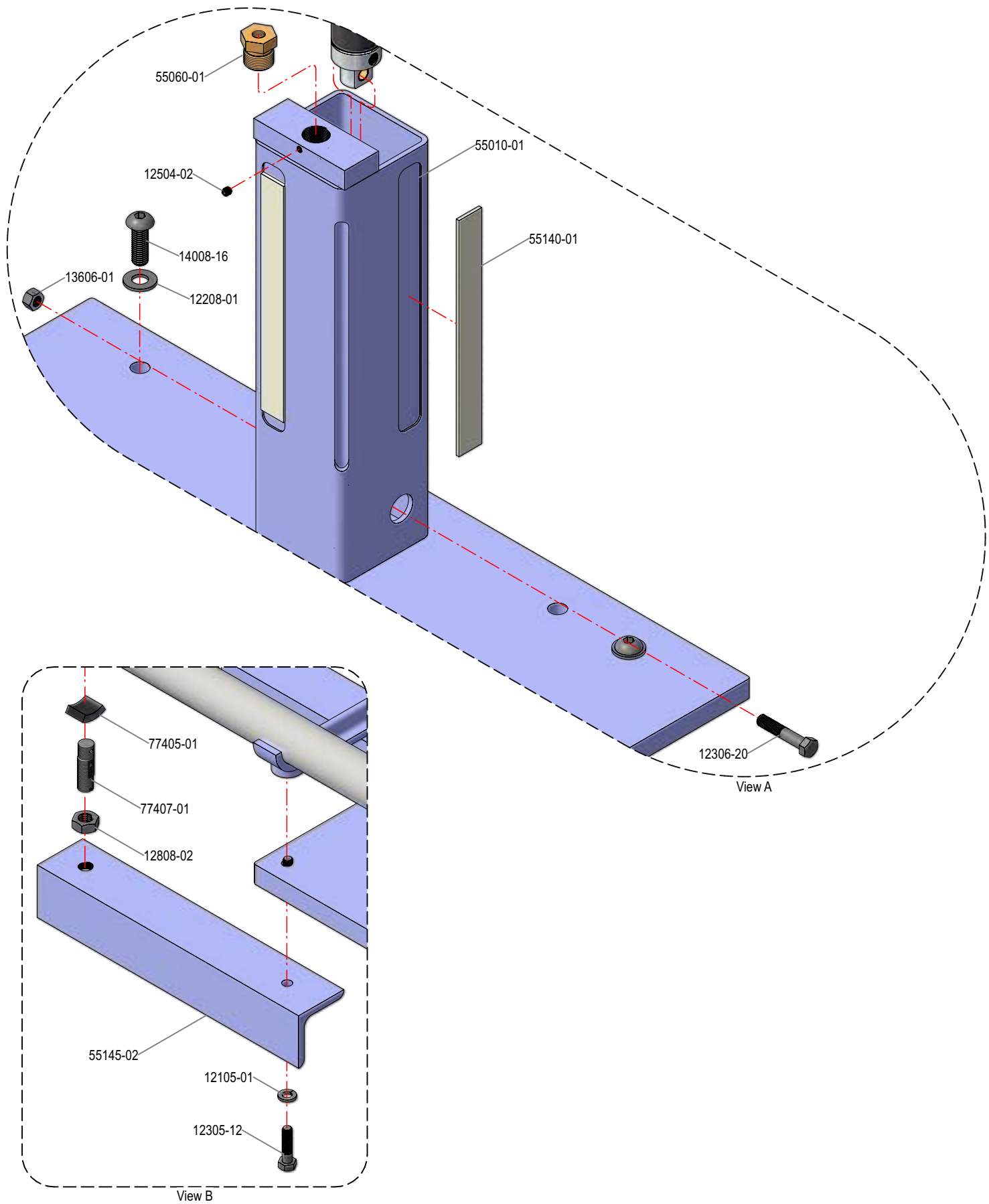
TABLE



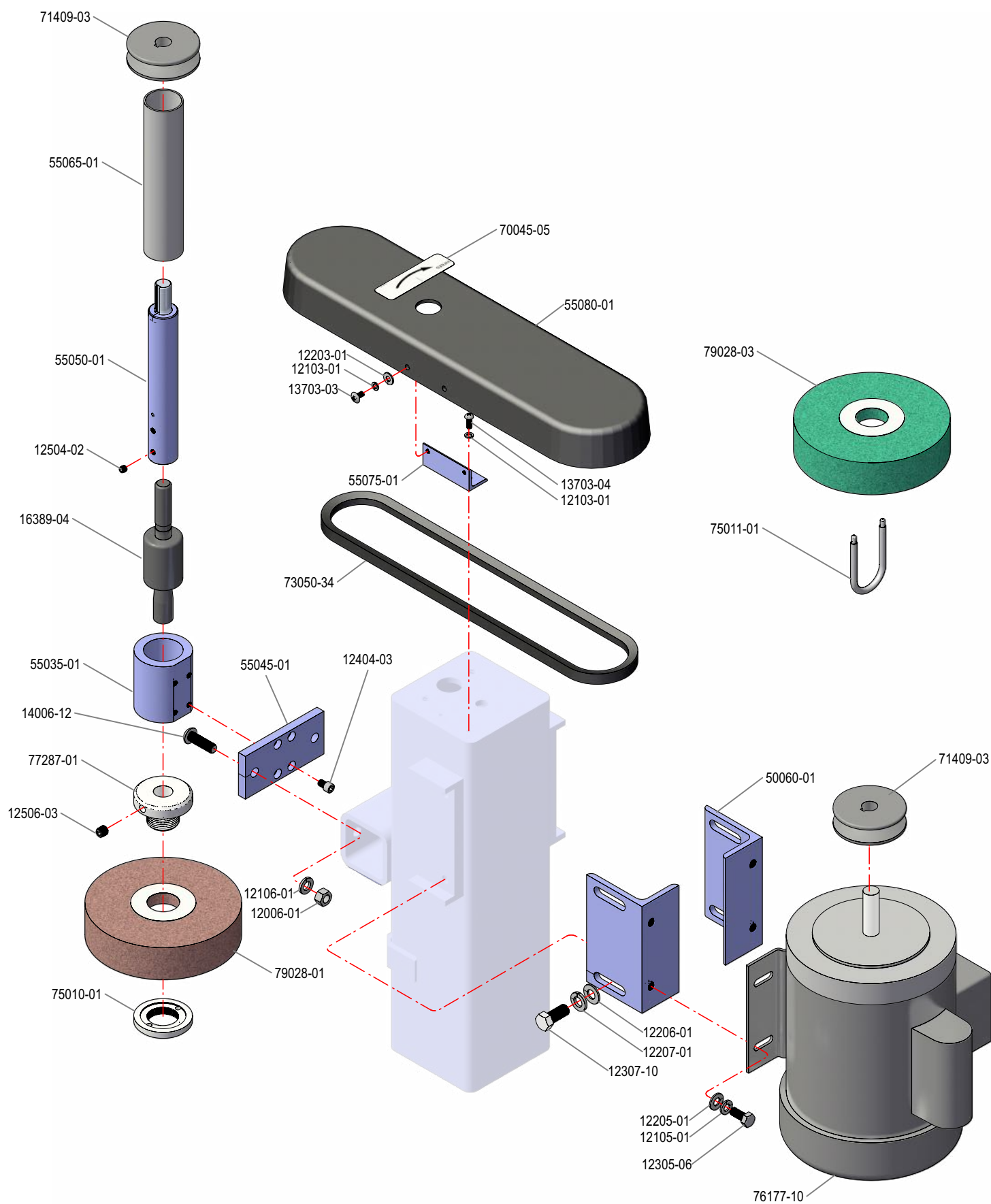
Part Number	Quantity	Description
12008-01	4 each	1/2-13 Nut
12105-01	4 each	5/16 Lock Washer
12208-01	4 each	1/2 Washer
12305-12	4 each	5/16-18 x 1-1/4 Bolt
12306-20	1 each	3/8-16 x 2 Bolt
12406-04	4 each	3/8-16 x 1/2 Socket Head Bolt
12504-02	1 each	1/4 x 1/4 Set Screw
12808-01	6 each	1/2-13 Hex Jam Nut
12808-02	4 each	1/2-20 Jam Nut
13606-01	1 each	3/8-16 Lock Nut
14008-16	4 each	1/2-13 x 1-3/4 Button Head Bolt
55005-01	1 each	Table
55010-01	1 each	Base
55060-01	1 each	Brass Feed Nut
55140-01	2 each	Guide Pad
55145-01	2 each	Right Wing
55145-02	2 each	Left Wing
70001-01	1 each	Warning Label
70054-65	1 each	650 Model Label
70074-01	1 each	Voltage Label
70075-01	1 each	Face Plate Label*
71305-09	2 each	Track Shaft
72403-03	2 each	Track Shaft Support
72409-02	4 each	Collar
73170-09	3 each	1/2 Plug
73170-16	1 each	9/16 Hole Plug
77219-02	4 each	Leveling Pad
77323-10	1 each	Cylinder
77405-01	4 each	Rail Pad
77407-01	4 each	Rail Support Stud



TABLE



GRINDING HEAD

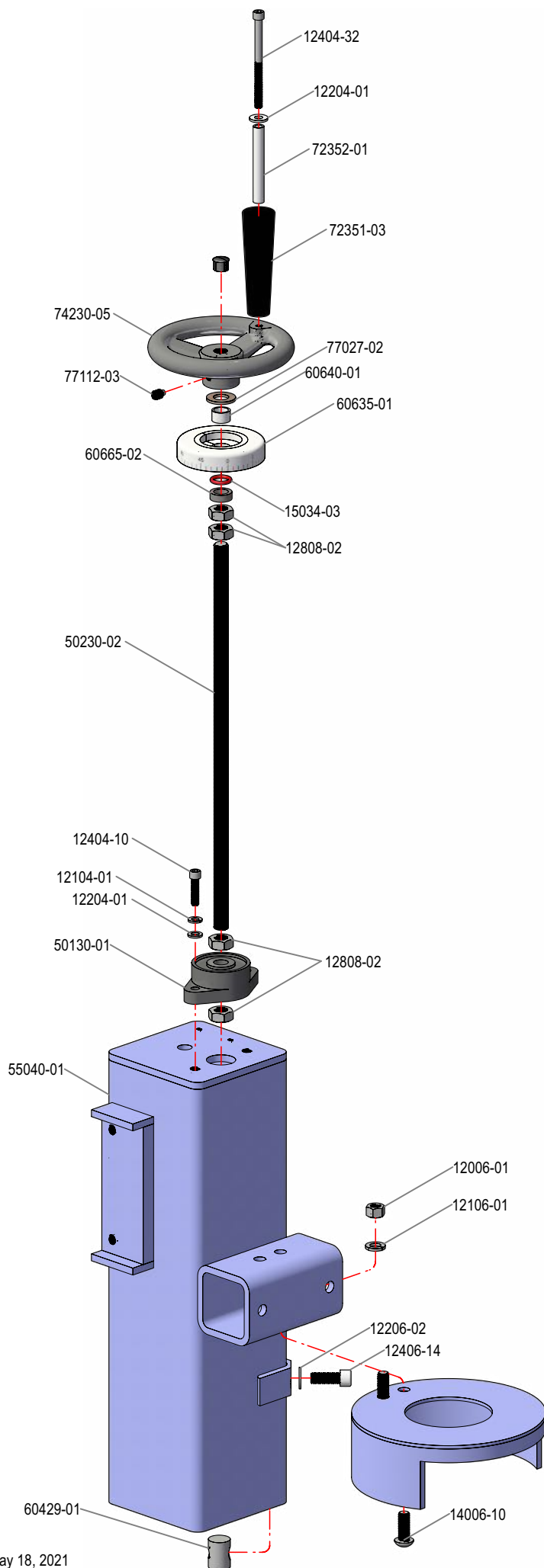


GRINDING HEAD

Part Number	Quantity	Description
12006-01	4 each	3/8-16 Nut
12103-01	8 each	#10 Lock Washer
12105-01	4 each	5/16 Lock Washer
12106-01	8 each	3/8 Lock Washer
12203-01	4 each	#10 Washer
12205-01	4 each	5/16 Washer
12206-01	4 each	3/8 Washer
12207-01	4 each	7/16 Lock Washer
12305-06	4 each	5/16-18 x 3/4 Bolt
12307-10	4 each	7/16-20 x 1 Bolt
12404-03	4 each	1/4-20 x 3/8 Socket Head Bolt
12504-02	1 each	1/4-20 x 1/4 Set Screw
12506-03	1 each	3/8-16 x 3/8 Set Screw
13703-03	4 each	#10-24 x 3/8 Machine Screw
13703-04	4 each	#10-24 x 1/2 Machine Screw
14006-12	2 each	3/8-16 x 1-1/4 Button Head Cap Screw
16389-04	1 each	Arbor Bearing
50060-01	2 each	Motor Support
55035-01	1 each	Bearing Housing
55045-01	1 each	Arbor Mounting Plate
55050-01	1 each	Extension Shaft
55065-01	1 each	Shaft Cover
55075-01	2 each	Belt Guard Bracket
55080-01	1 each	Belt Guard
70045-05	1 each	Dial Label
71409-03	2 each	Pulley
73050-34	1 each	V-Belt
75010-01	1 each	Nut
75011-01	1 each	U-Wrench
76177-10	1 each	Motor
77287-01	1 each	Hub
79028-01	1 each	Grinding Wheel
79028-03	1 each	Ceramic Grinding Wheel (Option)

GRINDING HEAD SUPPORT

Part Number	Quantity	Description
12006-01	1 each	3/8-16 Nut
12104-01	2 each	1/4 Lock Washer
12106-01	1 each	3/8 Lock Washer Washer
12204-01	3 each	1/4 Washer
12206-02	1 each	3/8 Hard Washer
12404-10	2 each	1/4-20 x 1 Socket Head Bolt
12404-32	1 each	1/4-20 x 3-1/4 Socket Head Bolt
12406-14	1 each	3/8-16 x 1 Socket Head Bolt
12808-02	4 each	1/2-20 Hex Jam Nut
14006-10	2 each	3/8-16 x 1 Button Head Cap Screw
15034-03	1 each	O-ring
50130-01	1 each	Flanged Bearing
50230-02	1 each	Feed Screw
55040-01	1 each	Ajustable Vertical Tube
60429-01	1 each	Clamp Nut
60635-01	1 each	Hand Wheel Dial
60640-01	1 each	Bushing
60665-02	1 each	Spacer
72351-03	1 each	Handle
72352-01	1 each	Tube
74230-05	1 each	Hand Wheel
77027-02	1 each	Fiber Washer
77112-03	1 each	Set Screw



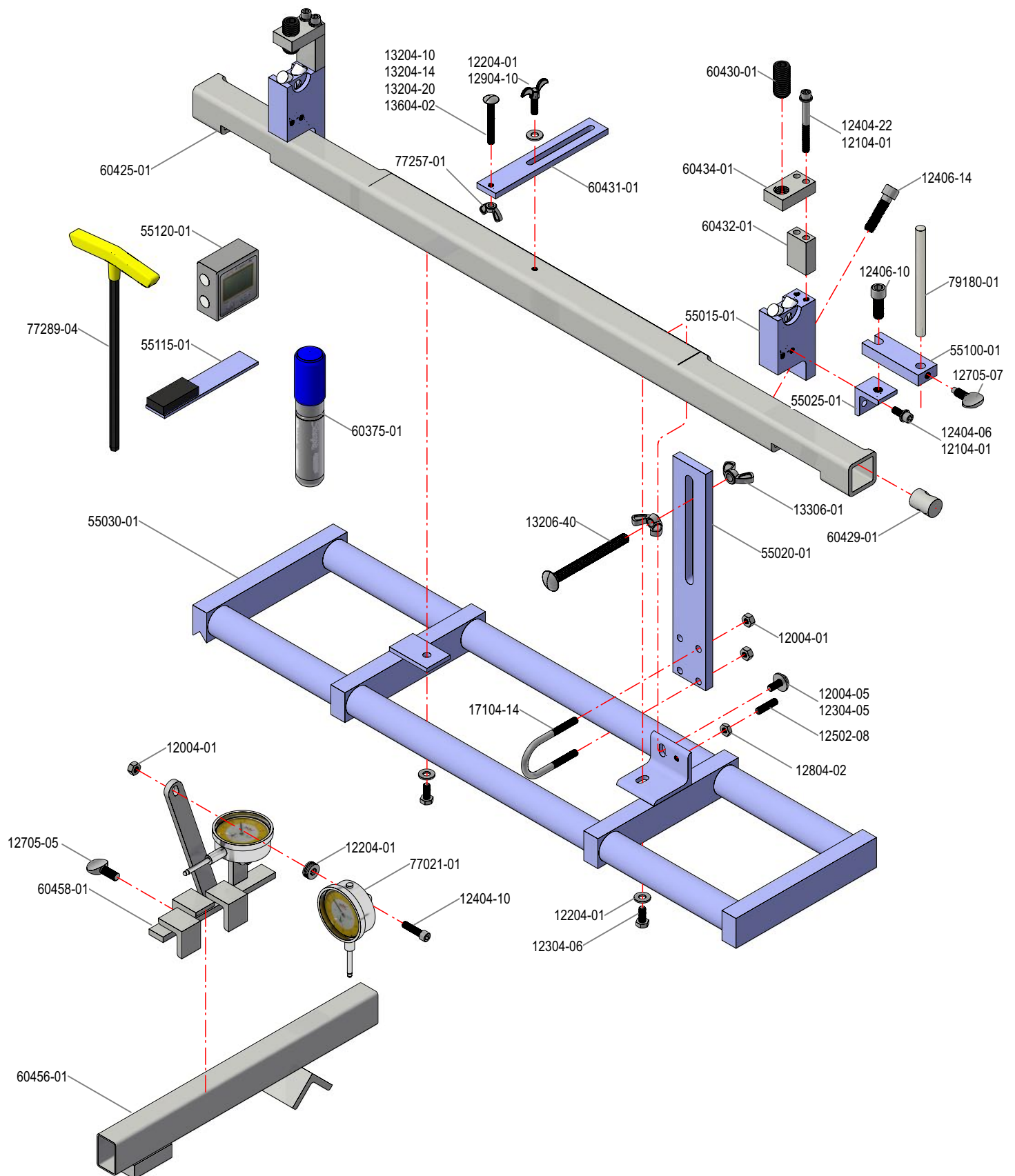
CARRIAGE

The diagram shows an exploded view of a carriage assembly. The main components are two long, angled support rails (60105-01) and a central carriage body (60110-01). The carriage body is composed of several sub-assemblies, including a top plate (60110-02), a side plate (60200-01), and a bottom plate (60120-02). Various fasteners, including screws (12004-01, 12104-01, 12208-03, 12404-01, 12404-04, 12404-05, 12404-06, 12504-02, 12705-07, 13802-04, 16129-01), bolts (60225-01, 60195-02, 60220-01, 73076-01), and washers (60110-01, 60110-02, 60120-02, 60195-02, 60220-01, 60225-01, 60240-01, 73076-01), are shown being assembled onto the carriage body. The carriage is also shown being assembled onto the support rails using a roller (12705-07) and a roller bracket (60240-01). The diagram includes a table of parts and their quantities.

Part Number	Quantity	
12004-01	2 each	1/4-2
12104-01	8 each	1/4 L
12208-03	4 each	1/2 V
12401-14	2 each	#6-3
12404-04	4 each	1/4-2
12404-05	4 each	1/4-2
12404-06	8 each	1/4-2
12404-11	4 each	1/4-2
12504-02	10 each	1/4-2
12705-07	2 each	5/16
13802-04	2 each	Roll
14004-04	2 each	1/4-2
16129-01	6 each	Bear
60105-01	1 each	Carri
60110-01	1 each	Carri
60110-02	1 each	Carri
60120-02	1 each	Palle
60195-02	2 each	Spring
60200-01	1 each	Align
60220-01	2 each	Palle
60225-01	2 each	Palle
60240-01	2 each	Palle
73076-01	6 each	Axle

Part Number	Quantity	Description
12004-01	2 each	1/4-20 Nut
12104-01	8 each	1/4 Lock Washer
12208-03	4 each	1/2 Washer
12401-14	2 each	#6-32 x 1-1/2 Socket Head Screw
12404-04	4 each	1/4-20 x 1/2 Socket Head Bolt
12404-05	4 each	1/4-20 x 5/8 Socket Head Bolt
12404-06	8 each	1/4-20 x 3/4 Socket Head Screw
12404-11	4 each	1/4-20 x 1-1/8 Socket Head Screw
12504-02	10 each	1/4-20 x 1/4 Set Screw
12705-07	2 each	5/16-18 x 1/2 Soft Tip Thumb Screw
13802-04	2 each	Roll Pin
14004-04	2 each	1/4-20 x 1/2 Button Head Screw
16129-01	6 each	Bearing
60105-01	1 each	Carriage
60110-01	1 each	Carriage End-Left
60110-02	1 each	Carriage End-Right
60120-02	1 each	Pallet Pivot Shaft
60195-02	2 each	Spring
60200-01	1 each	Alignment Spacer
60220-01	2 each	Pallet Clamp Bracket
60225-01	2 each	Pallet Clamp
60240-01	2 each	Pallet Stop
73076-01	6 each	Axle
73170-12	2 each	Hole Plug
77030-03	2 each	Locking Knob
77230-01	2 each	Brush Wipe
77232-02	6 each	Brush Wipe Bracket
77232-03	4 each	Knee

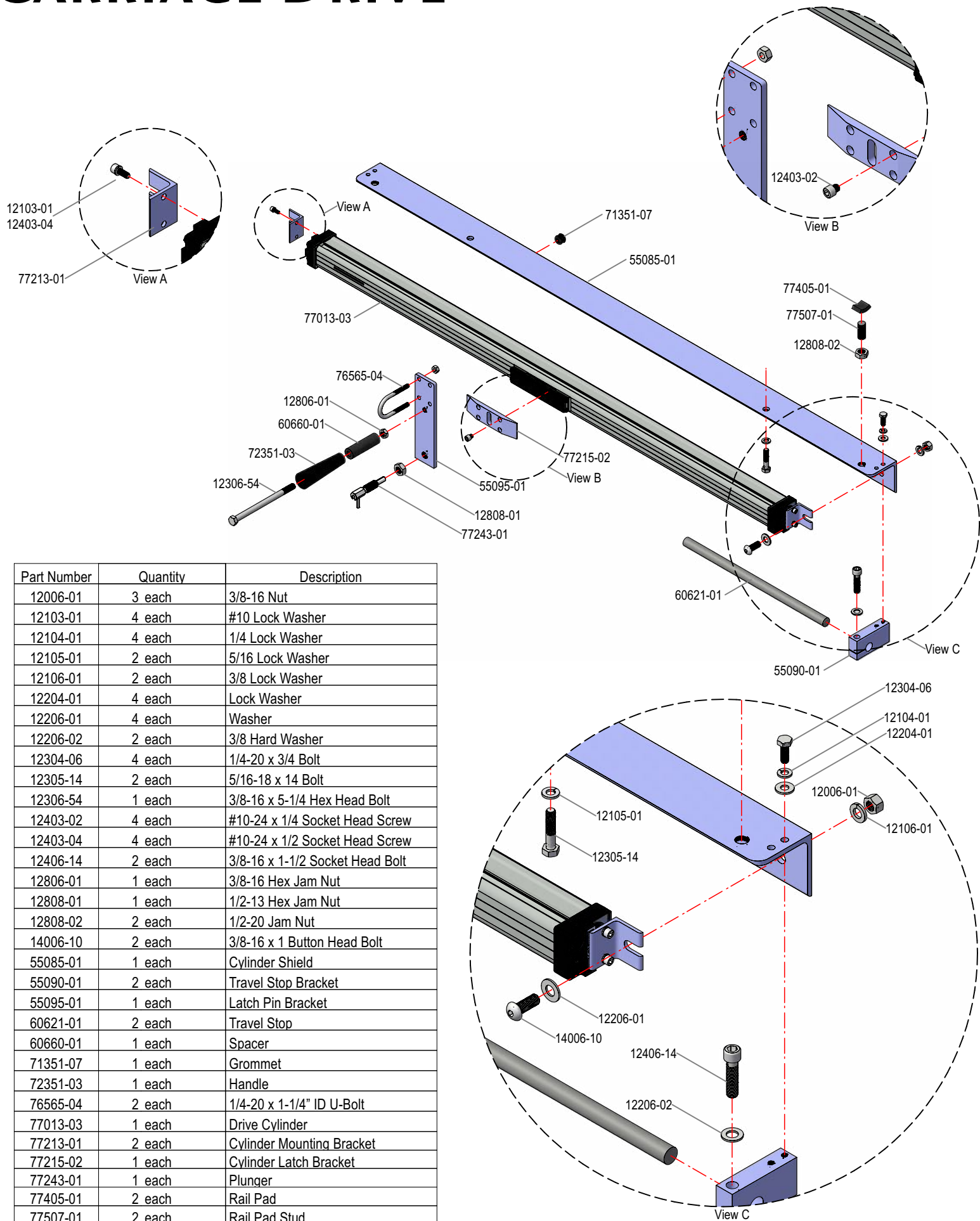
V-PALLET



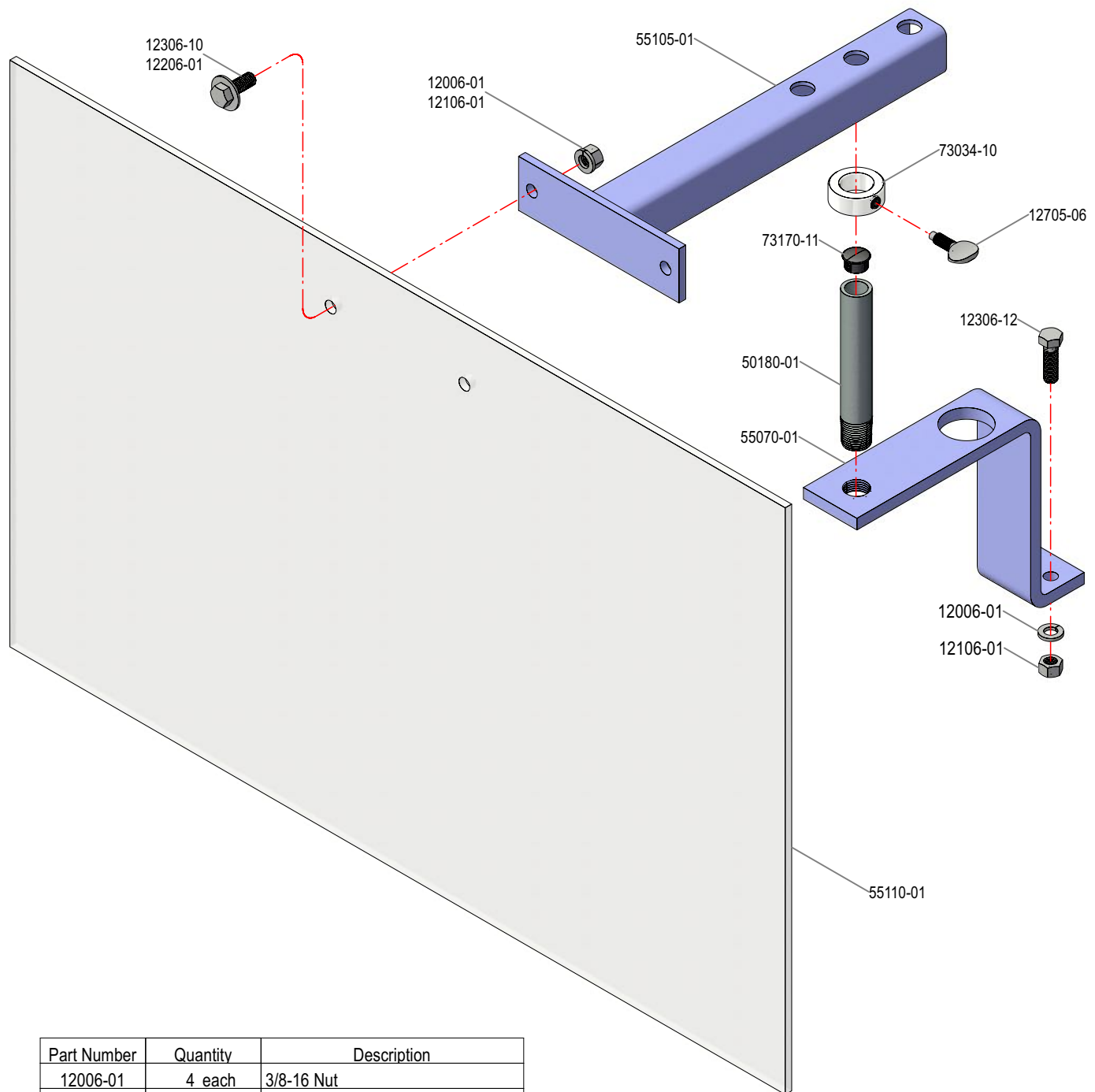
V-PALLET

Part Number	Quantity	Description
12004-01	5 each	1/4-20 Nut
12004-05	1 each	1/4-28 Hex Jam Nut
12104-01	6 each	1/4 Lock Washer
12204-01	2 each	1/4 Washer
12304-05	1 each	1/4-20 x 5/8 Hex Head Bolt
12304-06	1 each	1/4-20 x 3/4 Hex Head Bolt
12404-06	4 each	1/4-20 x .75 Socket Head Bolt
12404-10	2 each	1/4-20 x 1 Socket Head Bolt
12404-22	4 each	1/4-20 x 2.5 Socket Head Bolt
12406-10	2 each	3/8-16 x 1 Socket head Bolt
12406-14	2 each	3/8-16 x 1-1/2 Socket head Bolt
12502-08	1 each	1/4-28 x 1 Set Screw
12705-05	1 each	5/16-18 x 3/4 Thumb Screw
12705-07	1 each	5/15-18 x 1/2 Soft Tip Thumb Screw
12804-02	1 each	1/4-28 Hex Jam Nut
12904-10	1 each	1/4-20 x 1 Shoulder Thumb Screw
13204-10	2 each	1/4-20 x 1 Carriage Bolt
13204-14	2 each	1/4-20 x 1-1/2 Carriage Bolt
13204-20	3 each	1/4-20 x 2 Carriage Bolt
13206-40	1 each	3/8-16 x 4 Carriage Bolt
13306-01	2 each	3/8-16 Wing Nut
13604-02	6 each	1/4-20 Steel Lock Nut
17104-14	2 each	1/4-20 x 1-1/2 U-bolt
55015-01	1 set	Sliding Bracket Set
55020-01	1 each	Back Support Bracket
55025-01	1 each	Dresser Bracket
55030-01	1 each	Pallet Base
55100-01	1 each	Dresser Mount
55115-01	1 each	Angle Finder Mount
55120-01	1 each	Digital Angle Finder
60375-01	1 each	Marker
60425-01	1 each	Support Bar
60429-01	2 each	Sliding Bracket Nut
60430-01	2 each	Clamp Set Screw
60431-01	1 each	Center Support
60432-01	2 each	Set Screw Post
60434-01	2 each	Set Screw Mount
60456-01	1 each	Gauge Base
60458-01	1 each	Indicator Mount
77021-01	2 each	Dial Indicator
77257-01	2 each	1/4-20 Brass Knurled Nut
77289-04	1 each	5/16 Allen Wrench
79180-01	1 each	Diamond Dresser

CARRIAGE DRIVE

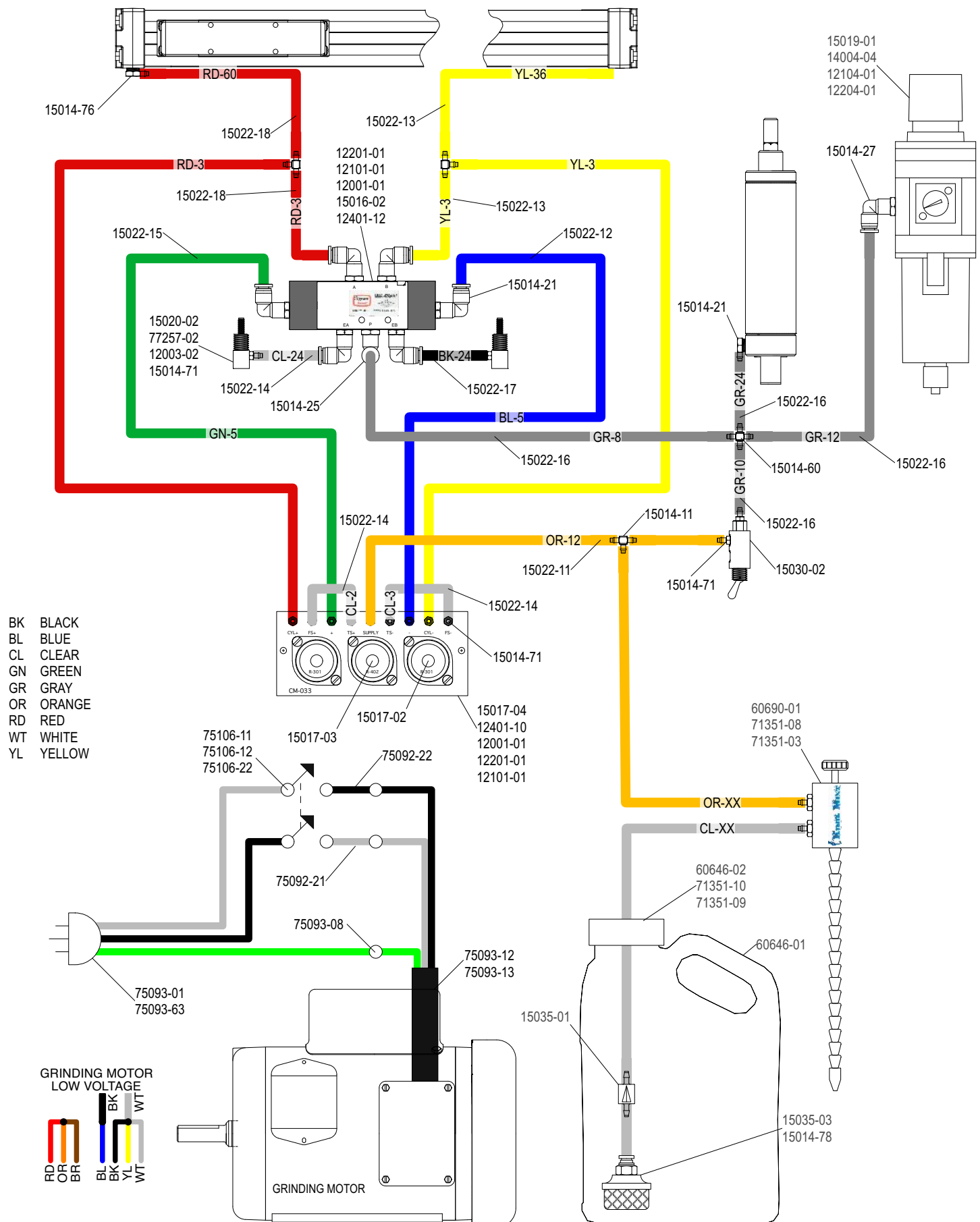


SHIELD



Part Number	Quantity	Description
12006-01	4 each	3/8-16 Nut
12106-01	4 each	3/8 Lock Washer
12206-01	2 each	3/8 Washer
12306-10	2 each	3/8-16 x 1 Hex Head Bolt
12306-12	2 each	3/8-16 x 1-1/4 Hex Head Bolt
12705-06	1 each	Thumb Screw
50180-01	1 each	Shield Mount Pin
55070-01	1 each	Shield Mount
55105-01	1 each	Shield Mount Arm
55110-01	1 each	Shield
73034-10	1 each	Collar
73170-11	1 each	Plug

WIRING AND PNEUMATICS



Part Number	Quantity	Description
12001-01	4 each	#6-32 Nut
12003-02	2 each	#10-32 Nut
12101-01	4 each	#6 Lock Washer
12104-01	2 each	1/4 Lock Washer
12201-01	4 each	#6 Washer
12204-01	2 each	1/4 Washer
12401-10	2 each	#6-32 x 1 Screw
12401-12	2 each	#6-32 x 1-1/4 Screw
14004-04	2 each	1/4-20 x 1/2 Button Head Bolt
15014-11	1 each	Union Tee
15014-21	5 each	1/8 x 1/4 NPT Male Swivel Elbow
15014-25	3 each	1/4 x 1/4 NPT Male Swivel Elbow
15014-27	1 each	1/4 x 3/8 NPT Male Swivel Elbow
15014-60	1 each	Union Cross Hose Barb
15014-71	13 each	1/8 x #10-32 Hose Barb
15014-76	2 each	1/8 x 1/8 NPT Elbow Hose Barb
15014-78	1 each	3/16 x 1/4 NPT Hose Barb
15016-02	1 each	Air Pilot Valve
15017-02	2 each	R301 Valve
15017-03	1 each	R402 Valve
15017-04	1 each	Acrylic Sub Base
15019-01	1 each	Filter Regulator
15020-02	2 each	Needle Valve
15030-02	1 each	On-Off Valve
15035-01	1 each	Check Valve
15035-03	1 each	Strainer
60646-01	1 each	Coolant Jug
60646-02	1 each	Coolant Jug Lid
60690-01	1 each	Kool Mist System
71351-03	1 each	Grommet
71351-08	2 each	Grommet
71351-09	1 each	Grommet
71351-10	1 each	Grommet
75093-01	1 each	Power Cord
75093-08	3 each	Wire Nut
75093-12	0.5 each	Coiled Cord
75093-13	1 each	Strain Relief
75093-63	1 each	Strain Relief
75106-11	1 each	Switch Body
75106-12	1 each	Mushroom Push Button
75106-22	1 each	NO Contact Block
77257-02	2 each	#10-32 Knurled Nut

Part Number	Quantity	Size	Description
15022-11	2 each	12 Inches	Tube Orange
15022-12	1 each	5 Inches	Tube Blue
15022-13	1 each	36 Inches	Tube Yellow
15022-13	2 each	3 Inches	Tube Yellow
15022-14	1 each	2 Inches	Tube Clear
15022-14	1 each	24 Inches	Tube Clear
15022-14	1 each	3 Inches	Tube Clear
15022-15	1 each	5 Inches	Tube Green
15022-16	1 each	8 Inches	Tube Gray
15022-16	1 each	12 Inches	Tube Gray
15022-16	1 each	24 Inches	Tube Gray
15022-16	1 each	10 Inches	Tube Gray
15022-17	1 each	24 Inches	Tube Black
15022-18	2 each	60 Inches	Tube Red
15022-18	2 each	3 Inches	Tube Red
75092-21	1 each	36 Inches	14 Gauge Wire White
75092-22	1 each	36 Inches	14 Gauge Wire Black