



“Distributor of Fassi Articulated Cranes”
Maintenance Schedule - SE Cranes - 90 Day
F390SE.22

Crane Model	F390SE.22	Serial Number		Today's Date	
End User Company		Location		Truck/Unit #	
Crane In Service Date		Warranty Period			
Service Provider		Phone		Fax:	
Address		City, State, Zip			
Inspected by (Print Name)		Inspected by (Signature)			

Note: (1) Pump Flow, Pressure Settings, and Operating Times shall be checked with the Truck Engine RPM at the Proper Operating Speed (not at idle), and with the Hydraulic Oil at a Proper Operating Temperature of 45 - 50°C / 115° - 122°F.
 (2) Proper Pump Flow Must be Established Prior to Setting Operating Pressures.

TRUCK RPM	Dealer Specification	Actual	Adjusted
RPM Setting (Operating)			

PUMP FLOW:	lpm (gpm)		
Distributor #1	60 – 68		
Distributor #2	(16 - 18)		

Note: Operate crane functions to stroke end and monitor pump flow to ensure flow is maintained.

PRESSURE SETTINGS: Bar (PSI)

Distributor Bank #1: Rotation, Inner Ram, Extension			
Main Relief Valve	290 (4200)		
Fork Rotation (Fork not supplied by Fassi – See Manufacturer's Specs)			
Clockwise	155 (2250)		
Counter Clockwise	155 (2250)		
Inner Ram			
Open (Up)	290 (4200)		
Descent (Down)	140 (2000)		
Rotation			
Clockwise	240 (3450)		
Counter Clockwise	240 (3450)		
Inner Boom Extensions			
Exit	170 (2450)		
Re-Enter	290 (4200)		

Distributor Bank #2: Fork Open/Close, Outer Ram, Fork Rotation			
Main Relief Valve	290 (4200)		
Outer Boom Extensions			
Exit	165 (2400)		
Re-Enter	290 (4200)		
Outer Ram			
Open (Up)	290 (4200)		
Descent (Down)	290 (4200)		
Fork Open/Close (Fork not supplied by Fassi – See Manufacturer's Specs)			
Open	2900		
Close	2900		

Fassi Specification	Actual	Adjusted
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PRESSURE SETTINGS: Bar (PSI)

Outrigger Distributor			
Setting	140 (2150)		

Pressure Switch (P1)			
Setting	200 (2900)		

LMLD Valve Setting			
Above Horizontal	300 (4350)		
Below Horizontal	300 (4350)		

AGS DATA & SETTINGS

Pump Model	KFAS-1	Serial No:	
Pump Model	KFGS3-5W1+912	Serial No:	
tPA (Time Pause)	1.0 (hr)		
tCO (Time Contact)	3.0 (min)		
Oh (Operating Hrs)			
Fh (Fault Hrs)			

	As Received	As Released
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AGS Grease Level	Empty - 1/4 - 1/2 - 3/4 - Full	
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LMLD Exclusion Tap

Danfoss – LMLD or FX000ELMLD		
LMLD Excluded	Yes - No	
Lead Wire Seal in Place	Yes - No	



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					Action Completed

FORK & ROTATOR		Follow Dealer's/Manufacturer's Instructions/Recommendations		(Not Covered By Fassi Warranty)	
Rotator	Check Link/Crane Connection Pin /Tighten if Loose				
	Check Rotator/Crane Connection Pin /Tighten if Loose				
	Visually Inspect for Hydraulic Oil Leaks				
	Visually Inspect Hoses for Wear/Damage				
	Check Fork/Rotator Bolts /Tighten if Loose				
Wallboard Forks	Check For Oil Leaks				
	Inspect Hoses for Wear/Damage				
	Inspect Fork Ram for Leaks				
	Inspect Fork Wear Pads/Rollers for Wear/Damage				
	Grease Fittings (8 typical)				

OUTER BOOM EXTENSION BOOMS		Boom Integrity, Guide Shoes, Pins			
Extension Boom #4 Located on extension # 3 NON AGS	Visually Inspect for Unusual Wear Marks				
	Visually Inspect Extension Boom Base Weld				
	Check that Upper/Lower Guide Shoes in Place				
	Check that Upper Guide Shoe Bolts are Tight				
	Check that Side Guide Shoes in Place				
Extension Boom #3 Located on extension # 2 NON AGS	Lubricate Extension Boom				
	Visually Inspect for Unusual Wear Marks				
	Visually Inspect Extension Boom Base Weld				
	Check that Upper/Lower Guide Shoes in Place				
	Check that Upper Guide Shoe Bolts are Tight				
Extension Boom #2 Located on extension # 1 NON AGS	Check that Side Guide Shoes in Place				
	Lubricate Extension Boom				
	Visually Inspect for Unusual Wear Marks				
	Visually Inspect Extension Boom Base Weld				
	Check that Upper/Lower Guide Shoes in Place				
Extension Boom #1 Located on outer boom NON AGS	Check that Upper Guide Shoe Bolts are Tight				
	Check that Side Guide Shoes in Place				
	Lubricate Extension Boom				
	Visually Inspect for Unusual Wear Marks				
	Visually Inspect Extension Boom Base Weld				

HOSE PROTECTION DEVICES (TRAYS) ON OUTER BOOM EXTENSIONS					
Hose Trays	Visually Inspect Hose Trays for Cracks				
	Visually Inspect Hose Tray Supports for Cracks				
	Visually Inspect Hose Trays for Proper Alignment/Clearance during Operation				
E-Chain	Visually Inspect for Missing/Broken Links				
	Manually Inspect for Flexibility/Easy Movement				
Hoses & Pipes	Visually Inspect for Hydraulic Leaks				
	Visually Inspect for Wear/Damage				
	Visually Inspect Hoses for Proper Lie				

OUTER BOOM EXTENSION RAMS		Cylinder, Rod, Piston, Seals, Hoses, Holding Valve			
	Load Test Extension Rams Holding Valve				
	Inspect For Hydraulic Leaks				
	Inspect Hoses & Pipes				
	Inspect Ram Rods for Damage				



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OUTER BOOM Boom Integrity/Pins/Bushings					
	Visually Inspect Outer Boom for Cracks				
	Visually Inspect Outer Boom Welds for Cracks				
	Check that Upper/Lower Guide Shoes in Place *CHECK THAT 380909 SHIM PLATE IS PRESENT*				
	Check that Upper Guide Shoe Bolts are Tight				
OUTER RAM Cylinder, Rod, Piston, Seals, Hoses, Holding Valve					
	Inspect for Hydraulic Leaks				
	Visually Inspect Hoses for Wear/Damage				
	Inspect Outer Ram Rod for Damage				
	Load Test Outer Ram Holding Valve				
Outer Ram Guard	Outer Ram Guard In Place				
	Operates Smoothly				
	Fixing Bolts are Tight				
INNER BOOM EXTENSION BOOMS Boom Integrity, Guide Shoes, Pins					
Extension Boom #2	Visually Inspect for Unusual Wear Marks				
	Visually Inspect Extension Boom Base Weld				
	Check that Upper/Lower Guide Shoes in Place				
	Check that Upper Guide Shoe Bolts are Tight				
	Check that Side Guide Shoes in Place				
NON AGS	Lubricate Extension Boom				
Extension Boom #1	Visually Inspect for Unusual Wear Marks				
	Visually Inspect Extension Boom Base Weld				
	Check that Upper/Lower Guide Shoes in Place				
	Check that Upper Guide Shoe Bolts are Tight				
	Check that Side Guide Shoes in Place				
NON AGS	Lubricate Extension Boom				
INNER BOOM EXTENSION RAMS Cylinder, Rod, Piston, Seals, Hoses, Holding Valve					
	Load Test Extension Rams Holding Valve				
	Inspect For Hydraulic Leaks				
	Inspect Hoses & Pipes				
	Inspect Ram Rods for Damage				
HOSE PROTECTION DEVICES (TRAYS) ON OUTER BOOM EXTENSIONS					
Hose Trays	Visually Inspect Hose Trays for Cracks				
	Visually Inspect Hose Tray Supports for Cracks				
	Visually Inspect Hose Trays for Proper Alignment/Clearance during Operation				
E-Chain	Visually Inspect for Missing/Broken Links				
	Manually Inspect for Flexibility/Easy Movement				
Hoses & Pipes	Visually Inspect for Hydraulic Leaks				
	Visually Inspect for Wear/Damage				
	Visually Inspect Hoses for Proper Lie				
Carters (Covers)	Visually Inspect Carters (Covers) for Cracks				
INNER BOOM Boom Integrity/Pins/Bushings					
	Visually Inspect Inner Boom for Cracks				
	Visually Inspect Inner Boom Welds for Cracks				
	Check Pipe Condition on Top of Boom				
	Check Pipe Holding Clamps on Top of Boom				
Inner /Outer Boom Connection	Check Pin for Wear/Damage/Movement				
	Check Bushings for Wear/Damage/Movement				
	Check Pin Nuts & Locking Bolts are Tight				
NON AGS	Lubricate Column/Inner Boom Connection Pin				



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INNER RAM Cylinder, Rod, Piston, Seal, Hoses						
NON AGS NON AGS	Inspect for Inner Ram for Leaks					
	Inspect Inner Ram Rod for Damage					
	Inspect Hydraulic Hoses/Pipes for Wear/Leaks					
	Load Test Inner Ram Holding Valve					
	Lubricate Inner Ram/Column Fitting (1)					
	Lubricate Inner Ram/Inner Boom Fitting (1)					
COLUMN Column Integrity/Pins/Bushings						
NON AGS	Visually Inspect Column for Cracks					
	Visually Inspect Welds on Column for Cracks					
	Column/Inner Boom Connection	Check Pin for Wear/Damage/Movement				
		Check Bushings for Wear/Damage/Movement				
		Check Pin Nuts & Locking Bolts are Tight				
	Lubricate Column/Inner Boom Connection Pin					
ROTATION CYLINDERS Cylinders, Pistons, Seals						
	Inspect Rotation Cylinders for Leaks					
	Inspect Piping and Hosing for Leaks					
CRANE BASE Base, Base Bushings, Rack, Compensator						
Base/Outrigger Beam	Visually Inspect Welds on Base/Outrigger Beam for Cracks					
Base	Visually Inspect Cast Steel Base for Cracks					
Upper Bushing (10 mm, 0.400") NON AGS	Determine Upper Bushing Wear (max: 3.0 mm/0.125") via dial indicator					
	Lubricate (2 fittings)					
Lower Bushing (2.5 mm, 0.100") NON AGS	Determine Lower Bushing Wear (max: 1.5 mm/0.060") via dial indicator					
	Lubricate (2 fittings)					
Rack AGS	Lubricate (2 fittings)					
Compensator NON AGS Hosing through Base	Lubricate (1 fitting)					
	Check Hydraulic Hoses for Wear/Leaks					
	Check Hydraulic Hose Swivels for Movement					
HYDRAULIC OIL TANK Inspect for Hydraulic Oil Leaks						
	Inspect for Hydraulic Oil Leaks					
	Check Tank Straps/Tighten if Loose					
Oil Return Filters (2)	Clean/Replace (50 micron)			Note: Clean Once/ then Replace		
Fluid Level	Check Hydraulic Fluid Level (Cold) with Crane in Stowed Position / Fill as Required					
	Change oil annually unless semi annual testing is done with results supplied					
HYDRAULIC OIL COOLER						
	Oil Cooler Starts Operating at Correct Temperature (95°F, 104°F, or 135°F - Sensor Dependent)					
	Check Hose Connections for Leaks					
	Check Mounting Bolts/Tighten if Loose					
CRANE/OUTRIGGER DEVIATOR						
	Inspect for Hydraulic Oil Leaks					
	Inspect for Easy Movement with Oil at Operating Temperature					
	Check Linkage and Pipes					
OUTRIGGERS (STABILIZERS) Outrigger Extension Beams and Rams						
Outrigger Safety Locks	Check Functional Operation					
Extension Rams & Beams	Guide Shoes in Place					
	Inspect Extension Beam Hoses for Leaks/Wear					
	Grease Extension Beams					
Stabilizer Rams	Visually Inspect for Bent Rod/Other Rod Damage					
	Visually Inspect Ram for Leaks					
	Visually Inspect Hosing for Leaks/Wear					



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Stabilizer Pads	Inspect Pads for Cracks			
	Locking System Functional			
	Travel Lock Down Functional			

OIL FILTERS – PRESSURE

Oil Filters (Pressure) - 1	Check for Leaks			
	Indicator in Place			
	Indicator Color (Green/Red)			
	Replace Filter IF NEEDED			
Oil Filters (Pressure) - 2	Check for Leaks			
	Indicator in Place			
	Indicator Color (Green/Red)			
	Replace Filter IF NEEDED			

SUBFRAME/RISER

Structure & Fixing Rods	Check Fixing Rod Bolt Tightness/Tighten if Loose			
	Check Shear Plates Bolt Tightness/Tighten if Loose			

MOUNTING BOLTS: Fassi Specification		Actual	Adjusted
	Nm (ft lbs)		
Check Tightness	1800 (1330)		

PUMP / PTO Follow Dealer's/Manufacturer's Instructions/Recommendations (Not Covered By Fassi Warranty)

	Check for Leaks			
	Check Splines and Lubricate			

OUTRIGGER DISTRIBUTORS

Drivers Side Outrigger Distributor				
	Visually Inspect for Hydraulic Oil Leaks			
	Visually Inspect Hoses for Wear			
Extension Operating Lever	Check for Smooth Operation			
	Lever Returns to Center			
Stabilizer Ram Operating Lever	Check for Smooth Operation			
	Lever Returns to Center			
Passenger Side Outrigger Distributor				
	Visually Inspect for Hydraulic Oil Leaks			
	Visually Inspect Hoses for Wear			
Extension Operating Lever	Check for Smooth Operation			
	Lever Returns to Center			
Stabilizer Ram Operating Lever	Check for Smooth Operation			
	Lever Returns to Center			

CRANE DISTRIBUTORS

CRANE DISTRIBUTOR 1				
	Inspect for Hydraulic Oil Leaks			
	Fixing Screws Tight			
Rotation Lever	Smooth Operation			
	Return to Center			
Inner Boom Lever	Smooth Operation			
	Return to Center			
Extension Foot Pedal	Check Foot Pedal Linkage for Proper Stroke			
	Smooth Operation			
	Return to Center			
NON AGS	Lubricate (1 grease fitting)			
CRANE DISTRIBUTOR 2				
	Inspect for Hydraulic Oil Leaks			
	Fixing Screws Tight			
Fork (Open/Close) Foot Pedal	Check Foot Pedal Linkage for Proper Stroke			
	Smooth Operation			
	Return to Center			
NON AGS	Lubricate (1 grease fitting)			
Outer Boom Lever	Smooth Operation			



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Fork Rotator Lever	Return to Center			
	Smooth Operation			
	Return to Center			

LMLD (LIFTING MOMENT LIMITING DEVICE) Valves, Pressure Switches, Electro-Valves				
	Check Overload System for Proper Operation			
	Check LMLD Pressure			
	Check for Oil Leaks			
	Security Lead Seal in Place			

AGS SYSTEM Grease Specification (Nils Grease – Nilex NLGI#1 or Lubriplate "730" NLGI#1)				
System Types	Standard Base System (7/8 fittings)			
	Extended System w/o Foot Pedals (13 fittings)			
	Extended System w/ Foot Pedals (15 fittings)			
Check Pump Operation	When Powered:			
	Standard Horn Sounds			
	Auxiliary Horn Sounds			
	Light Illuminates on Junction Box			
Manually Cycle the Pump	Operate DK Switch on Junction Box			
	Operate DK Button on Pump Display			
Cycle Switch Operation	System Faults (Alarms) after 3 Cycles with CS Cable DISCONNECTED.			
Grease Delivery Hoses	Check Hose Type (80 bar/800 bar)			
	Check Grease Hoses for leaks			
	Check Grease Hoses connections			
	Check for plugged Grease Hoses			
Grease Reservoir	Fill with Approved Grease			

PLATFORM & LADDER ASSEMBLY				
	Inspect Ladder Step Treads			
	Inspect Assembly Welds for Cracks			
	Check Assembly Bolts / Tighten if Loose			
	Check Cross Rod Bolts / Tighten if Loose			

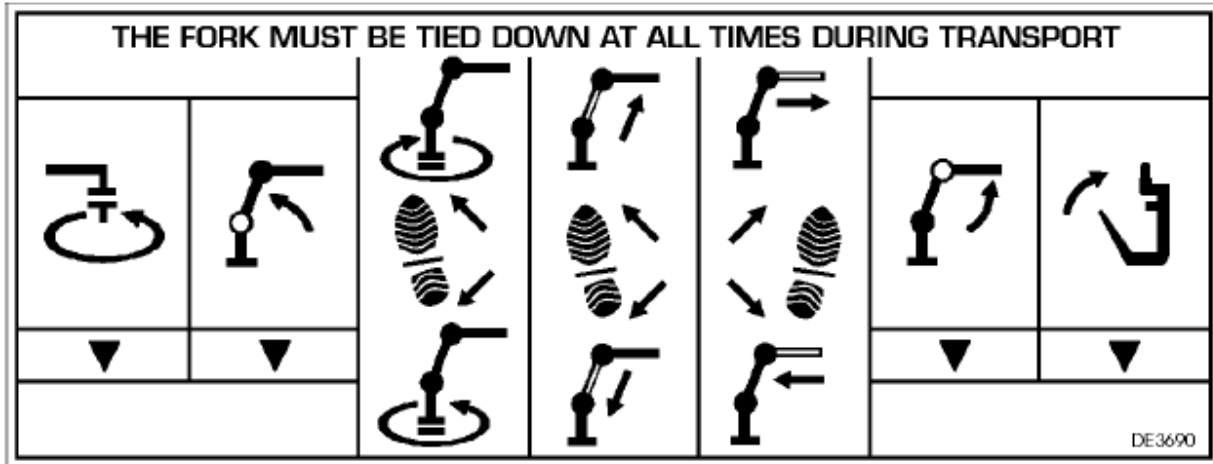
RADIO REMOTE CONTROL IF EQUIPED				
Radio/Manual Switch	Check Functional Operation			
Rotation Lever / Joystick	Check Radio/Lever Stroke & Movement			
Inner Boom Lever / Joystick	Check Radio/Lever Stroke & Movement			
Extension Lever / Joystick	Check Radio/Lever Stroke & Movement			
Fork (Open/Close) Lever / Joystick	Check Radio/Lever Stroke & Movement			
Outer Boom Lever / Joystick	Check Radio/Lever Stroke & Movement			
Fork Rotator Lever / Joystick	Check Radio/Lever Stroke & Movement			
Emergency Stop	Check Functional Operation			

OPERATOR TOP SEAT (IF EQUIPED)				
	Inspect Top Seat for operation and for damage			
	Confirm that Seat cannot recline backwards past safety stop – if so repair or replace Seat			



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DECALS Decals are In Place And Legible						
DE4472A	Capacity Plate (Lifting Chart) F390SE.22					
DE 2676	Instruction Plate And Safety Norms					
DE 2327	Warning Plate To Stabilize The Vehicle Before Using The Crane					
DE 3771	Instruction Plates To Stabilize The Vehicle					
DE 3772	Instruction Plates To Stabilize The Vehicle					
DE 3690	Crane Controls Plate - Danfoss (Lever) – Top Seat					
DE 1067	Do Not Walk Or Stay Under A Suspended Load & For Unauthorized Persons To Be Within The Working Area.					
DE 2100	Danger Plate For Crushing Of Lower Limbs.					
DE 1686	Do Not Walk Or Stop Under A Suspended Load.					
DE 1683	Do Not Operate In Proximity Of Electric High-Tension Lines.					
DE 2361	Do Not Operate In Proximity Of Electric High-Tension Lines.					
DE 1679	Do Not Step On.					
DE 1680	Do Not Use Water To Extinguish Fire.					
DE 1681	Greasing Points With Brush.					
DE 1682	Greasing Points At Pressure.					
DE 1574	Do Not Weld The Fixing Rods.					
R5763	DANGER: Loading Truck Payload Above This Decal Can Be Dangerous (2)					



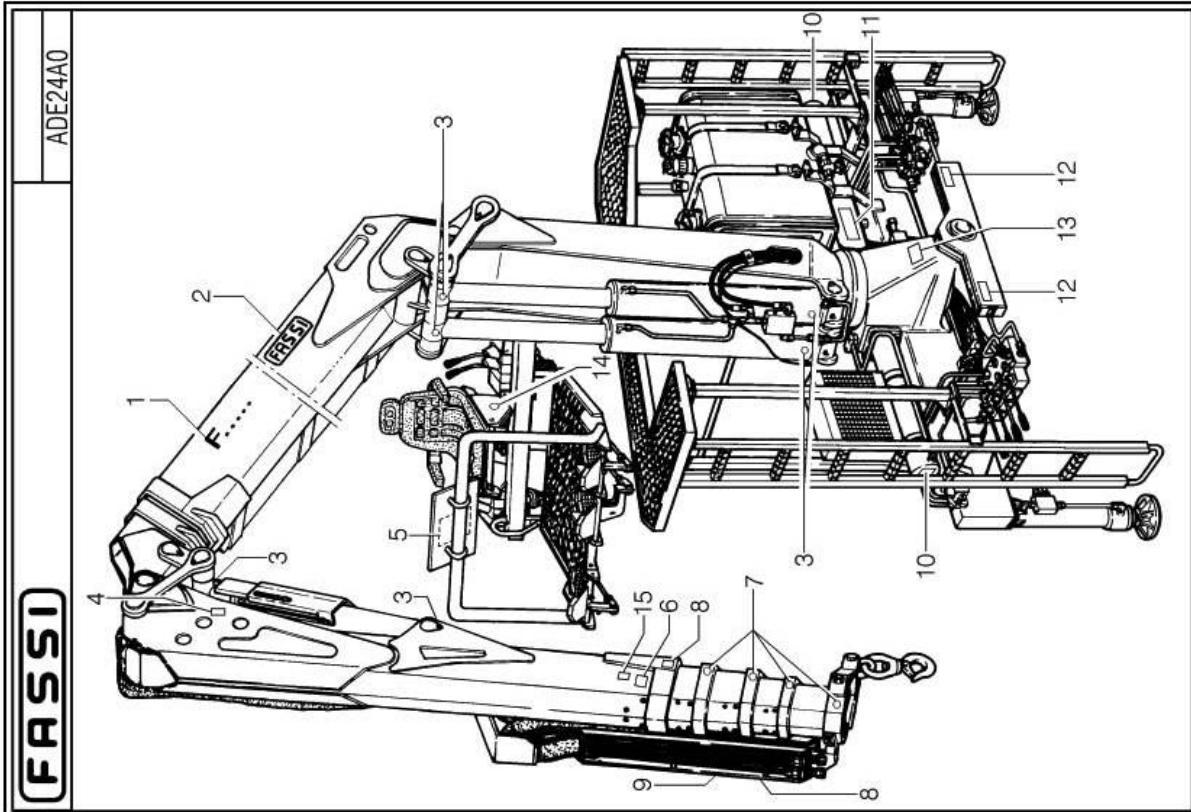
DE390 CRANE CONTROLS



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DECAL LOCATIONS

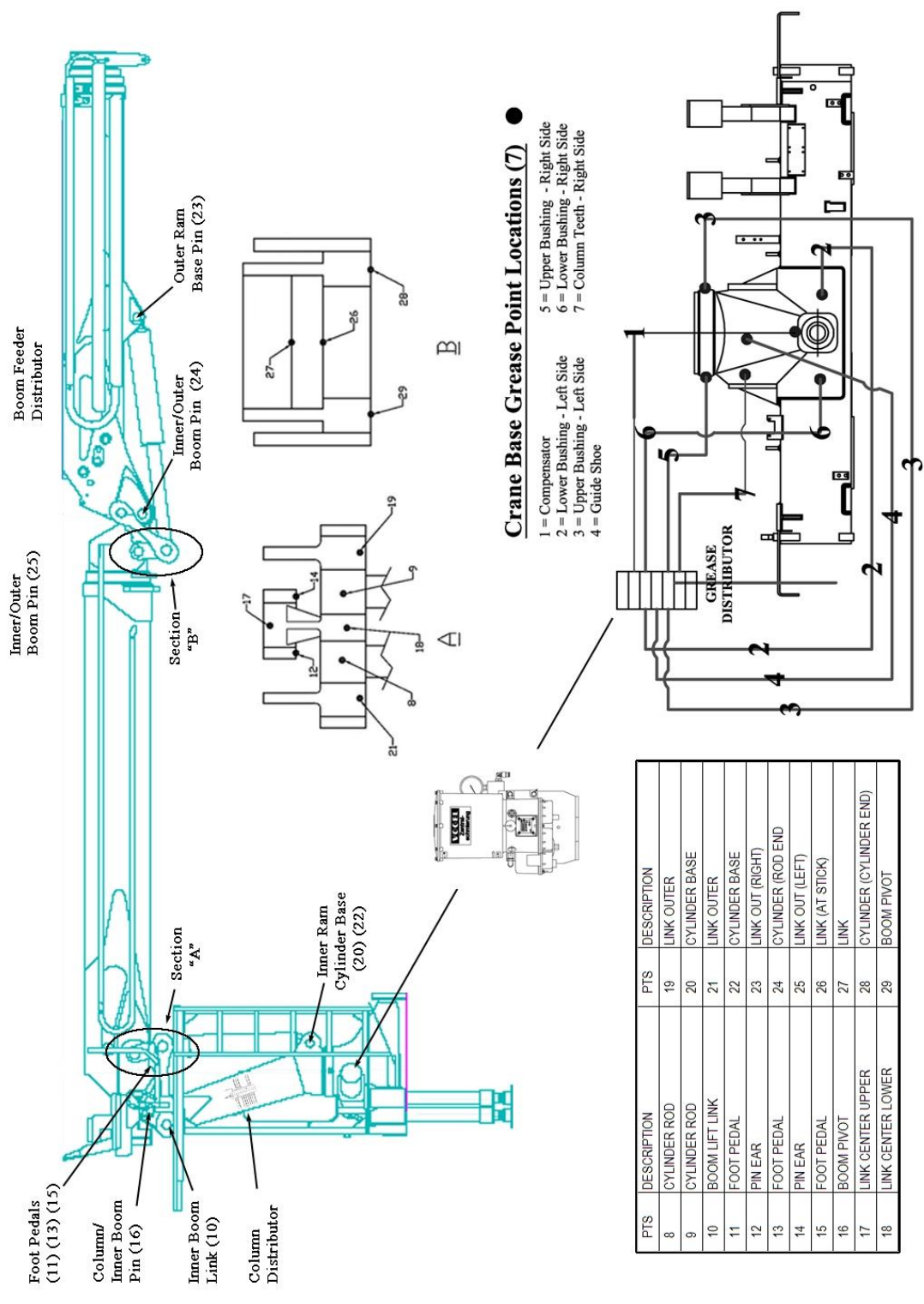


TARG TARG003 F390SE PLATE	
1	DEF390SE TARGA F390SE
2	DE619 -FASSI- PLATE
2	DE621 -FASSI- PLATE
3	DE1682 GREASING PLATE
4	DE4779 SHEARING WARNING PLATE
5	DE4472 TARGA PORTATE F390SE.24
5	DE5217 TARGA PORTATE F390SE.22
6	DE1067 FORBIDDEN PLATE
7	DE1681 GREASING PLATE
8	DE2361 DANGER PLATE
9	DE1679 FORBIDDEN PLATE
10	DE6723 PLATE
11	DE2676 CRANE USE INSTRUCTIONS PLATE
12	DE1574 FORBIDDEN PLATE
13	DE815 FORBIDDEN PLATE
14	DE1680 FORBIDDEN PLATE
15	DE1686 DANGER PLATE

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GREASE ZERK LOCATIONS

Fassi "SE" Grease Zerk Locations (29)



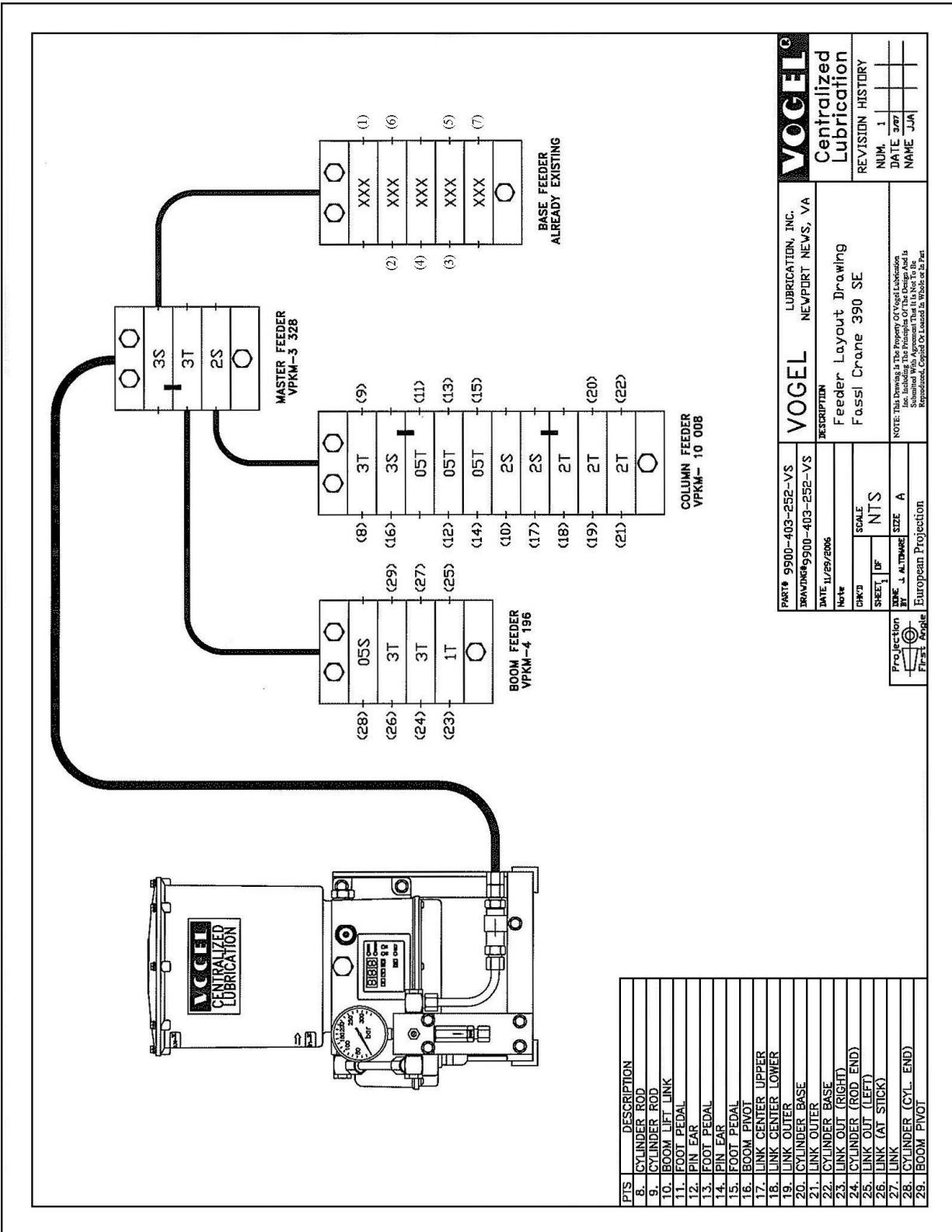
PTS	DESCRIPTION	PTS	DESCRIPTION
8	CYLINDER ROD	19	LINK OUTER
9	CYLINDER ROD	20	CYLINDER BASE
10	BOOM LIFT LINK	21	LINK OUTER
11	FOOT PEDAL	22	CYLINDER BASE
12	PIN EAR	23	LINK OUT (RIGHT)
13	FOOT PEDAL	24	CYLINDER (ROD END)
14	PIN EAR	25	LINK OUT (LEFT)
15	FOOT PEDAL	26	LINK (AT STICK)
16	BOOM PIVOT	27	LINK
17	LINK CENTER UPPER	28	CYLINDER (CYLINDER END)
18	LINK CENTER LOWER	29	BOOM PIVOT



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VOGEL GREASE ZERK LOCATIONS



VOGEL LUBRICATION, INC.
 NEWPORT NEWS, VA

VOGEL Centralized Lubrication

Feeder Layout Drawing
 Fassi Crane 390 SE

REVISION HISTORY

NUM.	1
DATE	3/07
NAME	JJA

NOTE: This Drawing is the Property of Vogel Lubrication, Inc. Including the Principles of the Design And is Submitted With Agreement That It is Not to Be Reproduced, Copied or Used in Any Manner.

PART: 9900-403-252-VS
 DRAWING: 9900-403-252-VS
 DATE: 11/29/2006

SCALE: NTS
 SHEET: 1 OF 1
 BY: J. ALTMANN
 SIZE: A
 European Projection

Pro Jection
 First Angle