SECTION 1. SPECIFICATIONS

1.1 CAPACITIES

Mast Speed

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2.3 INSPECTION AND PREVENTIVE MAINTENANCE SCHEDULE

Table 2-1. Inspection and preventive maintenance schedule

AREA	INTERVAL					
	Pre-Start[1] Inspection	Weekly Preventive maintenance	Monthly Preventive Maintenance	Pre-Delivery[2] or Frequent[3] Inspection	Annual[4] (yearly) Inspection	Every 2 Years
PLATFORM ASSEMBLY	1					
Platform	2				2	
Railing	2				2	
Gate	1				1	
Floor	7					
Lanyard Anchorage Points	2			2-9		
JIB ASSEMBLY	1					
Tie Rod Weldments				1-2-4	1-2-4	
Pivot Pins and Pins Retainers	1			1-2-13	1-2-13	
Hose, Cable Installation				1-2-8-11	1-2-8-11	
MAST ASSEMBLY	1					
Mast Sections	2			2-4-13	2-3-4-13	
Roller Pin Bronze Spacers				12	12	
Pulleys				2	2	
Chains / Chain Yokes	13			12-13	12-13	
Power Bridge / Hose / Cable Installation				1-2-8-11	1-2-8-11	
TURNTABLE	1					
Swing Drive System	5		8	5-8	5-8	
Swing Bearing Bolts					14	
Hoods, Hood Props, Hood Latches				5	1-2-5	
CHASSIS ASSEMBLY	9					
Chassis Weldment					4	
Tires	1-15	16-17		15-16-17	15-16-17	
Wheel Nuts	1	14		14	14	
Steering Knuckles Weldments				2-4	2-4	
Steering Knuckles Thrust Washers				12	12	
Steer Components			1			
Drive Motors			8	8	8	
Drive Brakes				5	5	
Hoods, Hood Props, Latches				5	1-2-5	
FUNCTIONS / CONTROLS						
Platform Controls	5-6-9	5-6-9		5-6-9	5-6-9	
Ground Controls	5-6-9	5-6-9		5-6-9	5-6-9	
Manual / Breakdown Controls	5-9	5-9		5-9	5-9	
Footswitch	1-5			5	5	
Emergency Stop Switches (Ground & Platform)	5			5	5	

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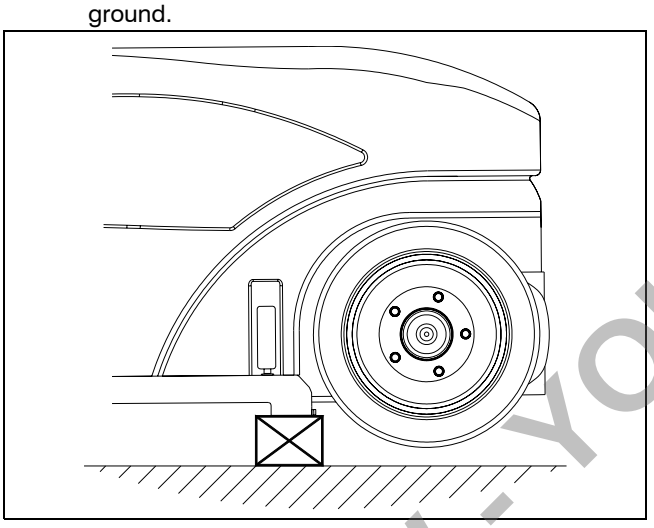
SECTION 3. CHASSIS

3.1 DRIVE MOTORS

The final drive consists of two hydraulic radial pistons motors propelling the rear axle. Each motor is fitted with an integrated holding brake applied through lack of pressure.

Drive motor removal

1. Place the machine on a flat and level surface. Chock both front wheels. Shut the machine down and remove chassis hoods.
2. Lift the work platform chassis with a jack and place a suitable block under the chassis pad. The block must not contact the tire. The wheel must be off the ground.



3. Unscrew wheel lug nuts. Remove the wheel. Reinstall the lug nuts on motor studs not to damage the threads.
4. Tag, disconnect and cap the drain line at the branch tee on tank port. Tag, disconnect and cap the brake release line at motor brake release port. Remove fitting from brake release port and plug port. Tag, disconnect and cap hydraulic lines from motor inlet / outlet ports. Remove fittings from motor's ports and plug ports.
5. Remove hardware securing the motor to the chassis and slide the motor off the chassis mounting plate.
6. Place the motor vertically on its studs (protected by the lug nuts). Disconnect the hose from drain port. Remove fitting from drain port. Plug drain port.

Drive Motor Installation

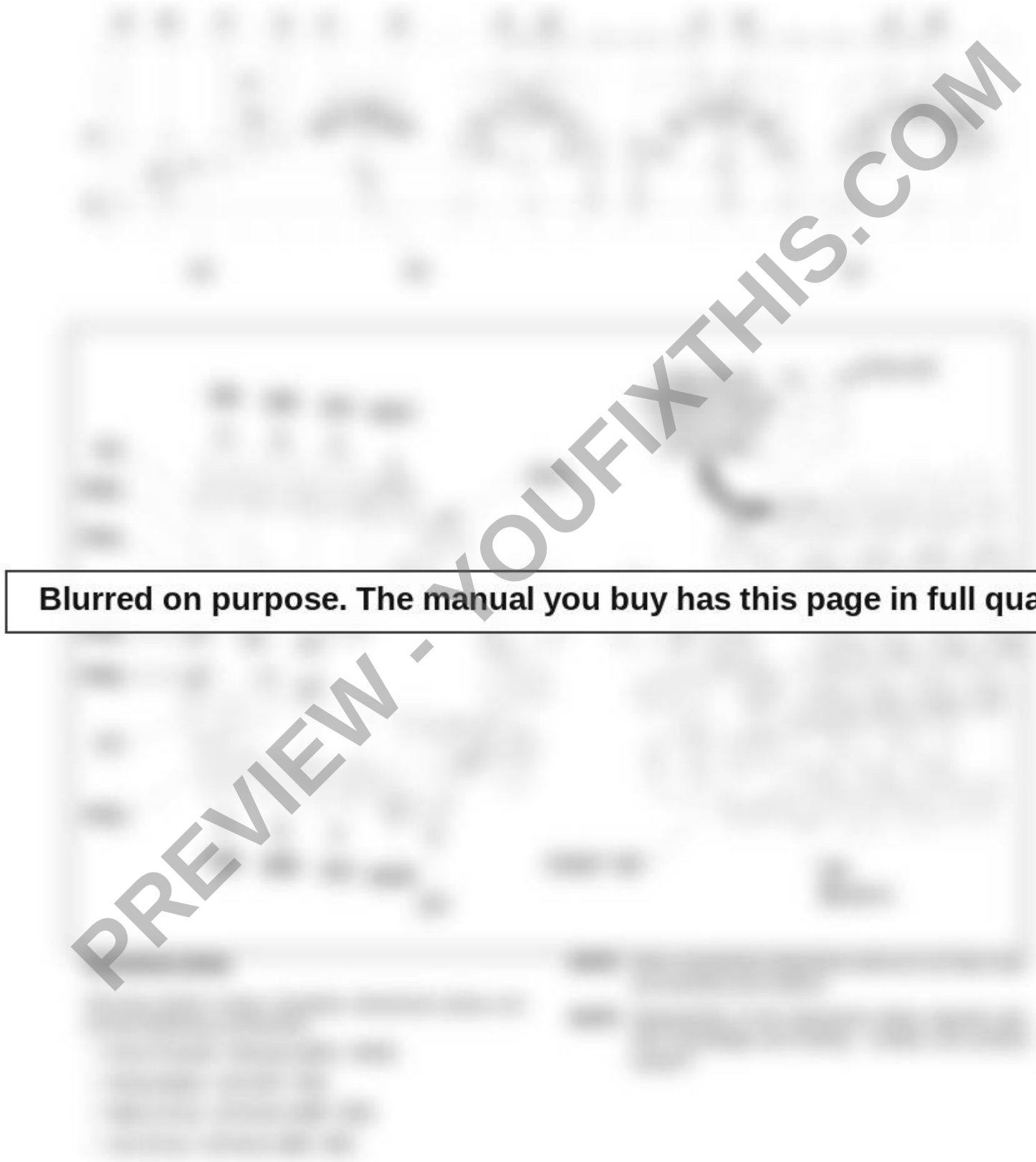
1. Place the motor vertically on its studs (lug nuts must be present to protect stud end threads).
2. Fill motor casing with specified clean hydraulic fluid through port "2" (drain port - see § 6.9).
3. Install fitting on drain port. Connect drain hose (90° elbow). Cap hose free end to prevent casing oil from spilling during motor installation.
4. Route the drain hose through the motor mounting hole. Install the motor onto the chassis. Secure the motor to its mounting plate. Torque the screws 70 to 76 lb ft (96 to 104 Nm).
5. Connect drain line to the branch tee on the tank.
6. Install fitting on brake release port and connect brake release hydraulic line.
7. Install fitting on motor's inlet / outlet ports and correctly install hydraulic lines as previously tagged.
8. Install the wheel and secure with lug nuts as specified (see § 3.5).
9. Remove blocking under the chassis.
10. From platform control station, operate drive function. Check for correct operation and hydraulic leaks. Secure as necessary.
11. Check hydraulic fluid level and adjust accordingly.

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6.5 FUNCTIONS MANIFOLD

The function manifold is located at the front of the chassis.



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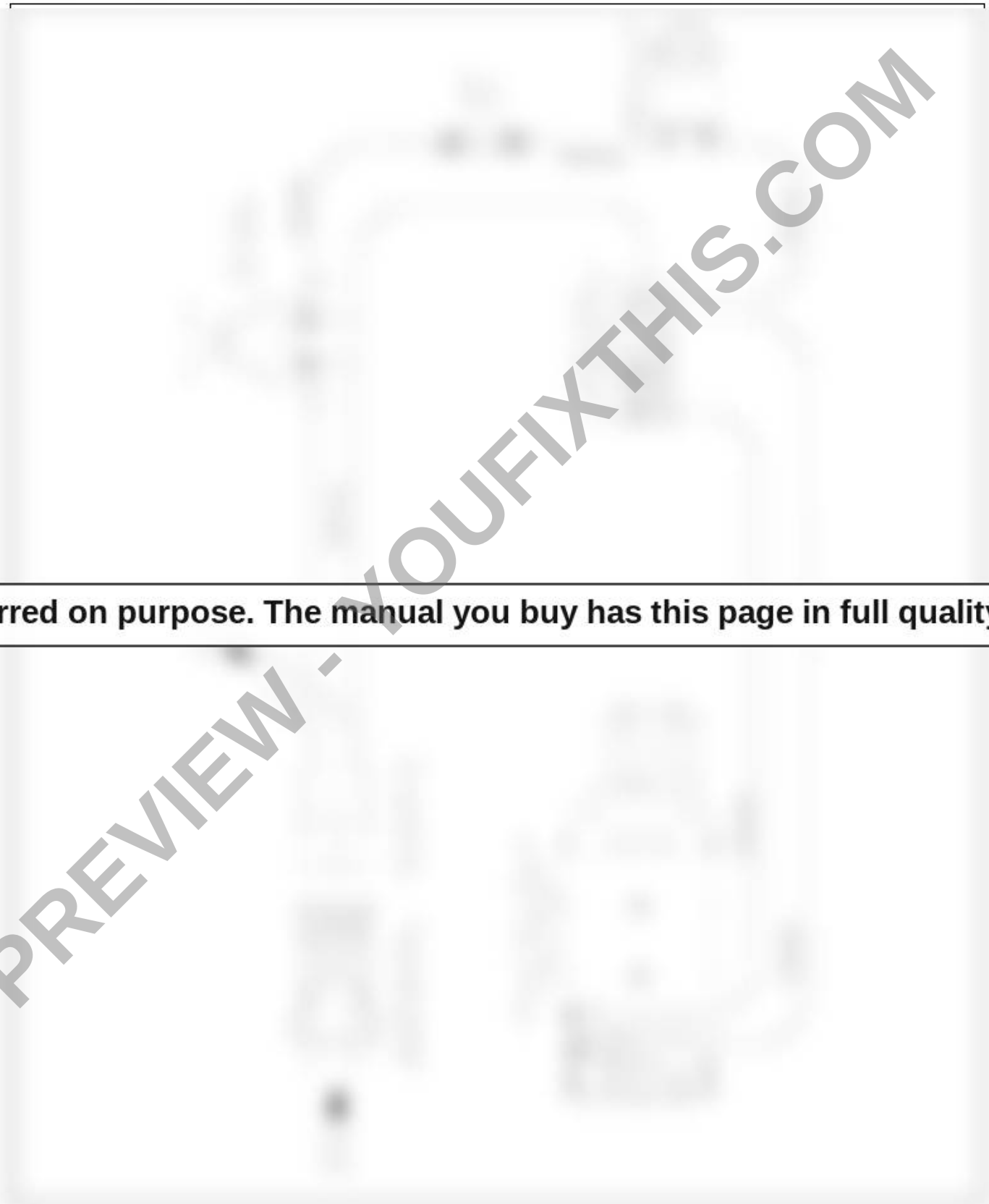
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SECTION 9. SCHEMATICS

9.1 ELECTRICAL CIRCUIT OVERVIEWS

Overview of electrical power circuit - E18MJ



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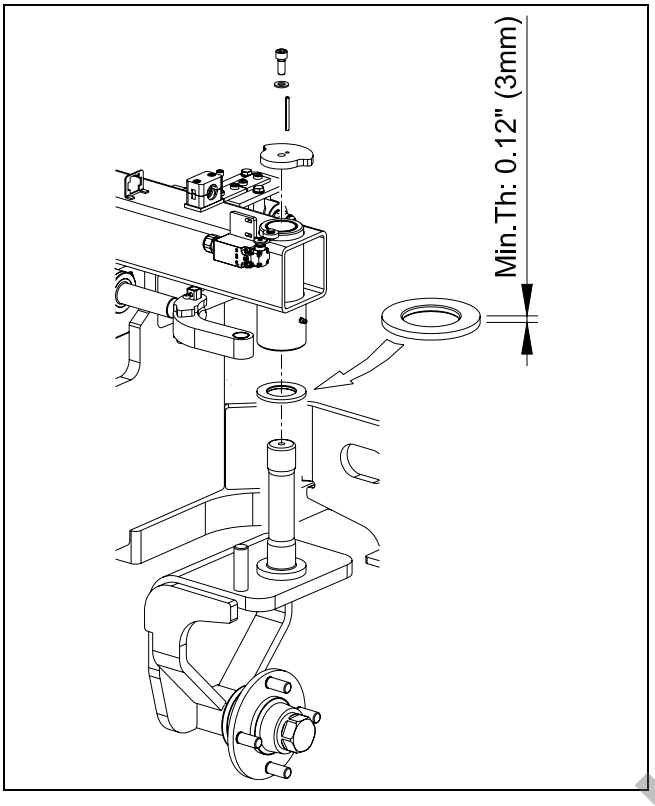
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3.2 STEERING KNUCKLES



Steering Knuckle Removal

1. Using a forklift truck or an adequate lifting device, lift the work platform until suitable cribbings of a minimum height of 8" (200 mm) can be placed under the chassis for support.

⚠ CAUTION

ENSURE THE WORK PLATFORM IS STABLE ON THE CRIBBINGS BEFORE PROCEEDING.

2. Remove the front wheels.
3. Should both right and left knuckles be removed, tag the steering cams (right/left).
4. Using a suitable sling or support, secure the knuckle.
5. Unscrew the socket head bolt securing the knuckle. Remove the cam. Remove the knuckle from chassis.

Cleaning and Inspection

1. Clean thoroughly all parts with a suitable cleaning solvent.
2. Check knuckle thrust washer thickness. Replace washer if its thickness is less than 0,12 in (3 mm).
3. Check condition of bushings of chassis barrel(s). Replace as necessary.
4. Check condition of tie rod(s) bushing. Replace as necessary.

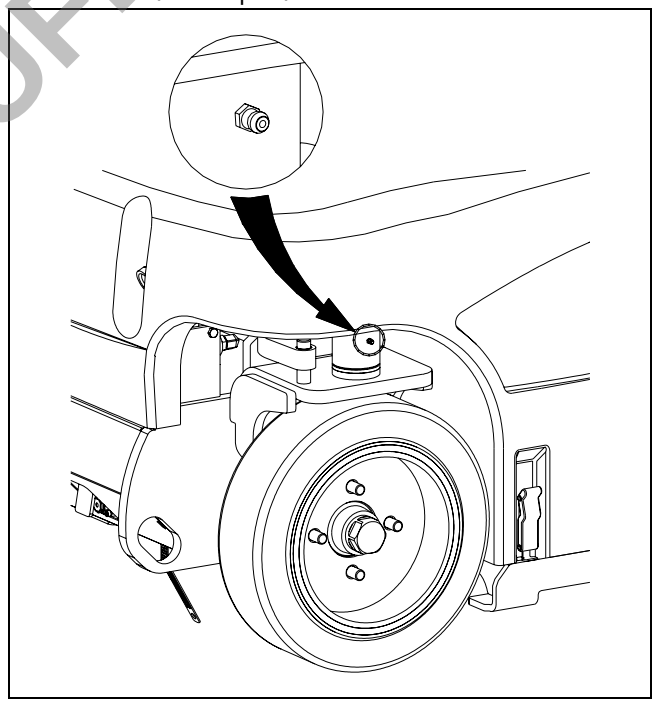
Steering Knuckle Installation

NOTE: *Coat inside diameter of chassis barrel(s) and steering tie-rod(s) bushings with specified lubricant prior to assembly.*

1. Using a suitable sling or support, install the knuckle onto the chassis while driving the tie-rod pin (welded on the knuckle) through the tie-rod hole.
2. Install the steering cam and secure the knuckle with hardware.
3. Using a grease pump, lubricate through the grease fitting on the chassis's barrel until grease extrudes.
4. Install the wheel and secure with lug nuts as specified (see § 3.5).
5. Remove the cribbings.
6. Control steering movements to check for proper operation. Adjust steering limit switches as specified if necessary (see § 8.1).

Steering Knuckle Lubrication

Each steering knuckle pivot is fitted with a grease nipple. Steering knuckle pivots have to be lubricated every 250 hours of machine operation.



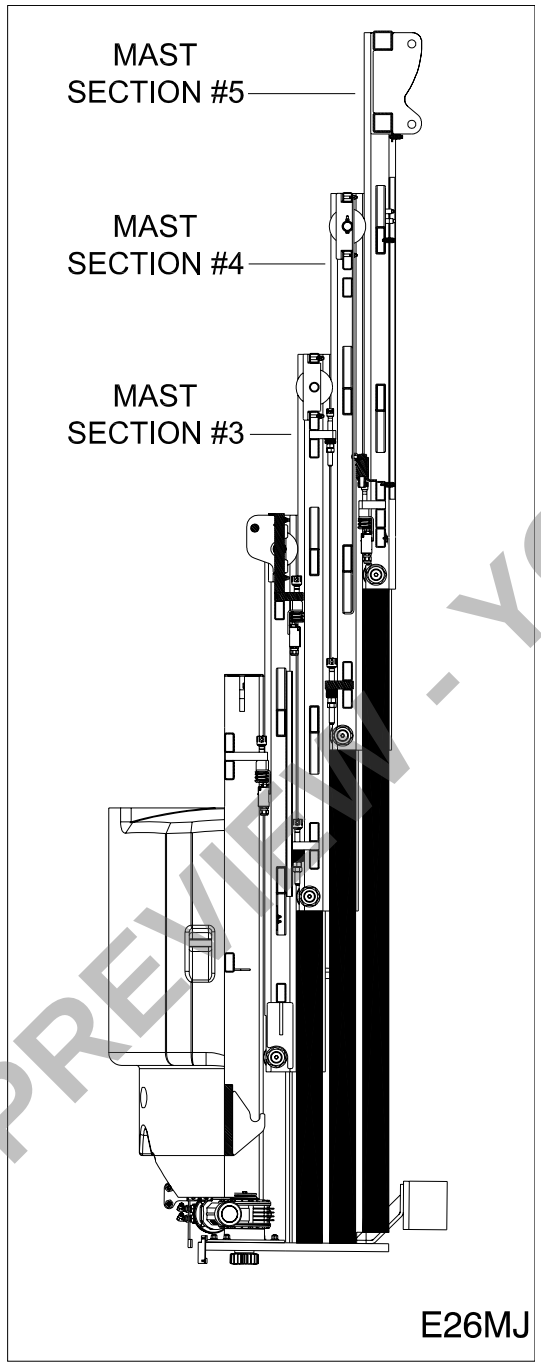
Apply specified lubricant with a grease gun until grease extrudes.

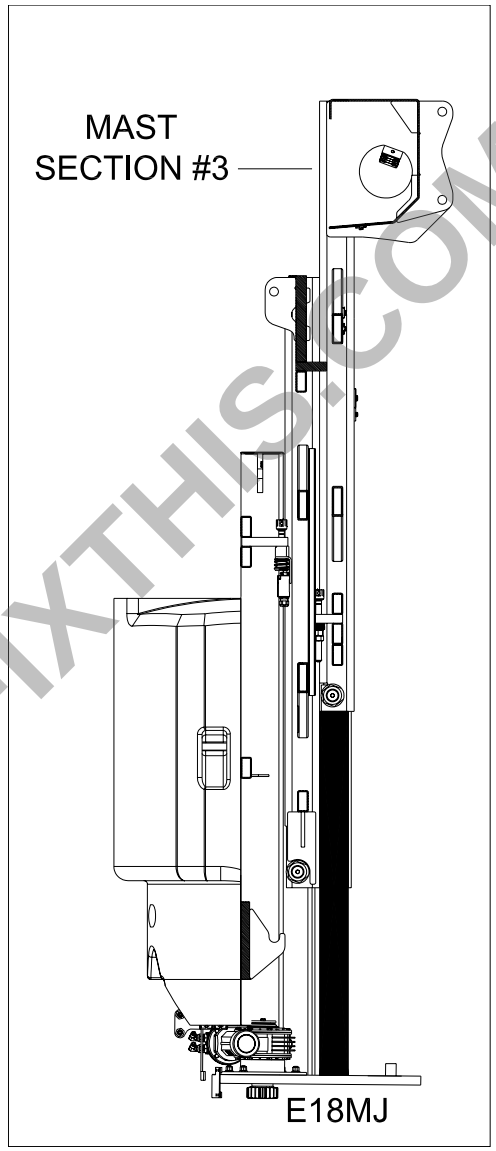
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1st chains stage removal

1. Using the ground control station, raise the mast to gain access to chain attachments #1 and #2.
2. Support efficiently mast sections #3, #4 and #5 with 3 couples of suitable blockings as indicated below : (on E18MJ models, only a couple of blocking have to be installed to support mast section #3). The blockings must rest on the turntable circular base plate.





3. Using the ground control station, lower the mast until the mast sections rest on blockings. Secure the blockings in place with C-clamps.
4. Remove the locknut, attachment nut and bevel washers (and the plate washer - E18MJ models only), from a chain anchor at attachment #2.
5. If installed, remove the chain slack detection assembly from the other end of the chain. If not installed, remove the locknut and the attachment nut (and the plate washer - E18MJ models only) from the other end of the chain.
6. Remove one of the chains anchors so that the chain can be removed from the pulley groove (if necessary).
7. Install and tension a new chain before removing the other one.

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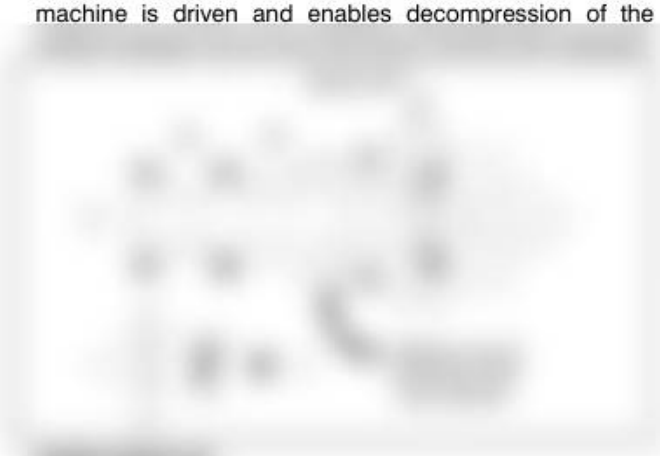
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Piloted 2 way spool (2)

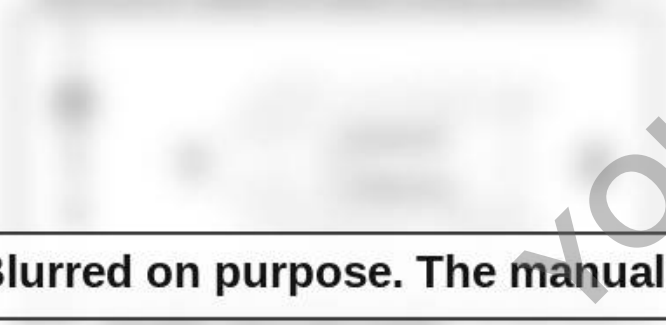
The screw in cartridge prevents oil flow delivered to the brakes release circuit from returning to the tank when the machine is driven and enables decompression of the

Pressure Relief Valve [PR8]

The built-in relief valve [PR8] limits the pressure (therefore the wheel motors torque) in the drive circuit when the machine is driven at slow speed (

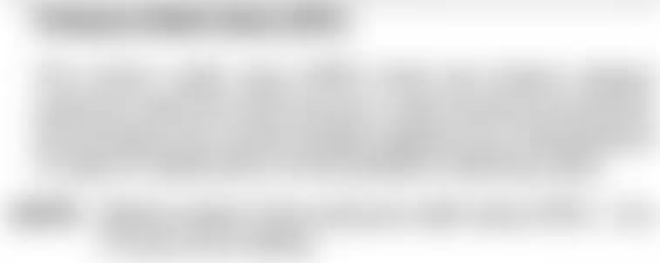










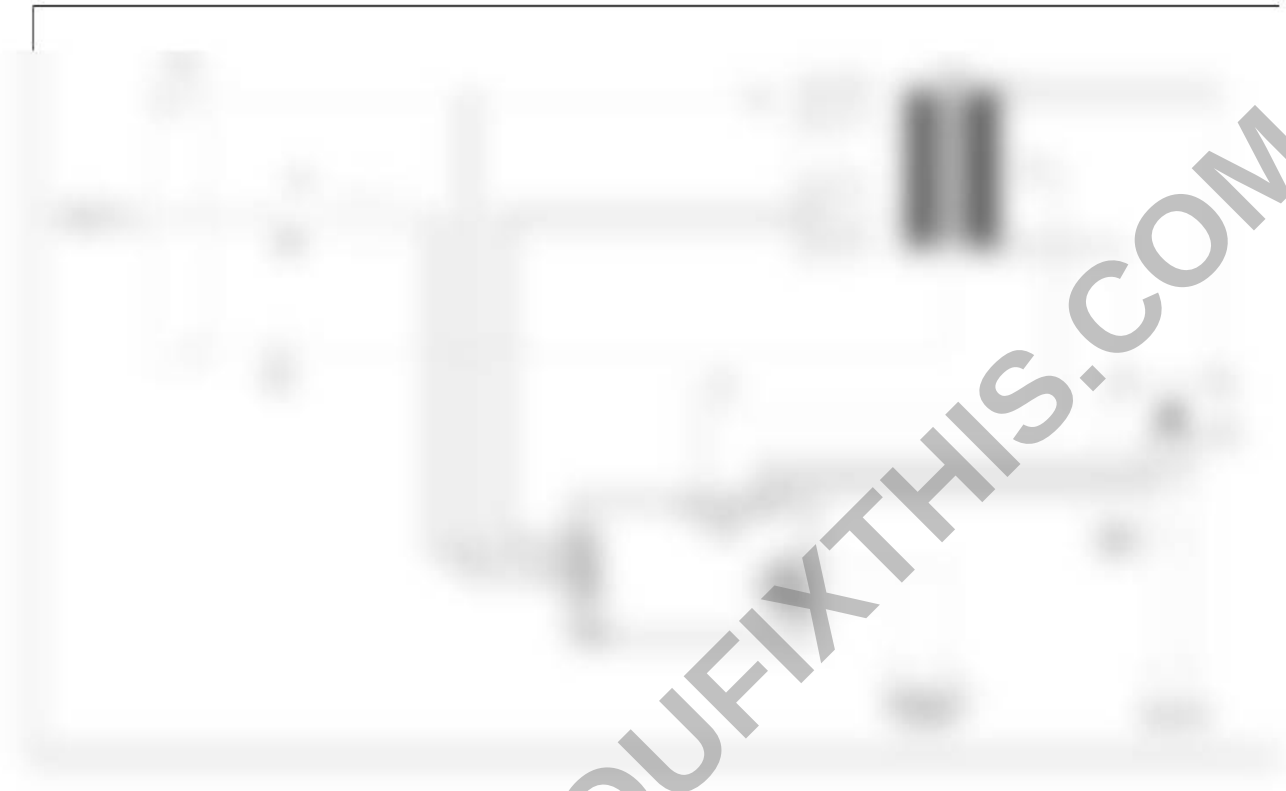


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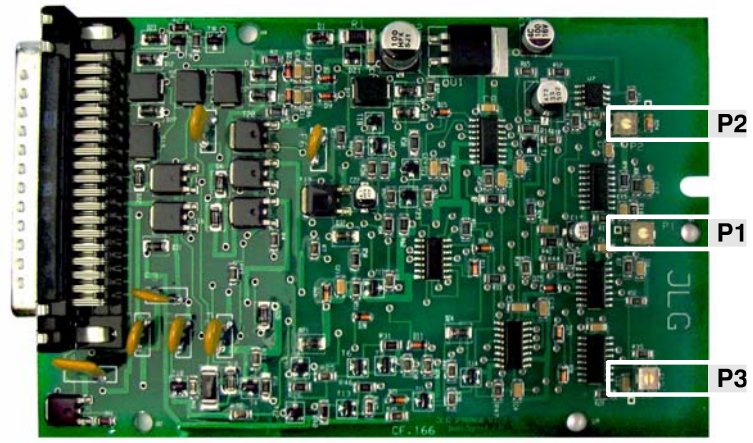
Standard Charger Basic Schematic



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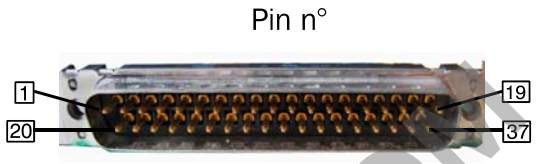


Table 8-5. Drive management module I/O description

Input	Output	Pin n	Description	Comment
E1		16-34	Module supply +24V	
E2		19-33-37	Module supply 0V	
E3		1	Drive FWD	
E4		20	Drive RWD	
	E5	27	Output signal for drive cut out function	
	E6	18	Supply to "Pump inhibit" function of motor speed controller	
E7		22	Drive cut out function activation	
	E8	11	Supply to coil [MAV]	
	E9	29	Supply to coil [MAR]	
E10		24	Accelerator Input	Analogical input [1]
	E11	12	Supply to coil [HI/LO] (-)	
E12		8	Posi-track mode	
	E13	36	Speed 1 enable (motor speed controller) with 100% acceleration valve	
E14		3	2nd or 3rd gear selection	
	E15	17	Speed 6 enable (motor speed controller)	
E16		4	Overload detection	Not used
	E17	30	Supply to coil [EVF] (-)	
E18		5	Structure movement control	
	E19	28	Supply to coil [DV] (+)	
	E20	10	Supply to coil [DV] (-)	
E21		26	Supply override to coil [DV]	Not used
E22		2	Mast fully lowered	Not used
	E23	23	Overload detection override	Permanently overrided on E18MJ & E26MJ models
E24		21	Lift down movements combination authorization	Permanently overrided on E18MJ and E26MJ models
E25		25	Jib lift down	
E26		6	Mast lift down	
E27		13	Supply to coil [DB]	
E28		32	Supply to coil [DM]	

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