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Terex Crane RT230-1 Electrical And Hydraulic Schematic
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OPTIONAL INDEPENDENT REAR STEERING

SWIVEL ASSEMBLY

INDEPENDENT REAR STEERING VALVE

DIVERTER VALVE 717 0523
2350 PSI (162.2 BAR)
(TO OR EXT/RET VALVE)

SWING DRIVE 711 0295
2000 PSI (137.9 BAR)
6.2 CIR MOTOR

BOOM HOIST 711 0233
11.0" BORE (279.4 mm)
5.5" ROD (139.7 mm)
51.75" STROKE (1314.5 mm)
EXPECTED CYCLE TIME:
EXTEND 30±5 SEC
RETRACT 30±5 SEC

BOOM TELESCOPE 709 7807
7.5" BORE (190.5 mm)
5.5" ROD (139.7 mm)
253.0" STROKE (6426.2 mm)
EXPECTED CYCLE TIME:
EXTEND 100±10 SEC
RETRACT 75±20 SEC

TO RLI (RED)
TO RLI (GREEN)
4000 PSI THERMAL (275.9 BAR)
25 PSI (1.72 BAR)
VELOCITY FUSE 717 0880
BOOM HOLD VALVE 711 0234

SUN HYD P/N CBGH-LJN
10:1 PILOT RATIO
4000 PSI RELIEF (276 BAR)

OPTIONAL AUX WINCH 726 0006
MAIN WINCH 726 0005
BRAKE, BRADEN
FULL RELEASE @ 621 PSI
ZERO TORQUE @ 383 PSI
MOTOR: SAUER DANFOSS
4.86/3.05 OD
SERVO PRESSURE PORT
GAGE PORT
HOLD VALVE — SUN HYDRAULICS
CARTRIDGE, CBGG-LJN-4700
PILOT RATIO 4.5, SET POINT 4700 PSI

R.F. R.R. L.F. L.R.
STEERING VALVE
4" BORE (101.6 BAR) (4)
1.5" ROD (38.1 BAR)
7.5" STROKE (190.5 BAR)

SWING VALVE 720 0071
2000PSI (137.9 BAR)
Vent
Pilot

721 0205 SHUTTLE REDUCING MANIFOLD
3500 PSI WORKING PRESSURE ON BOOM HOIST (241.4 BAR)
3900±100 PSI
3250±25 PSI
BOOM VALVE 720 0069
RELIEF VALVE 12019-779
500 PSI

AUX WINCH
MAIN WINCH
WINCH VALVE 723 0011

STEERING CONTROL UNIT 718 0722
17.8 CIR
LS CF EF
2600 PSI (179.3 BAR)
STEERING PRIORITY VALVE 708 2350

NOTE:
HYD HEAT & AC AND HYD AC OPTIONS TO BE APPLIED IN THIS AREA WHEN APPLICABLE (SEE SCHEMATIC OPTIONS)

SWIVEL ASSY 725A0011

AXLE LOCKOUT
5.0" BORE (127 mm) (2)
2.5" ROD (63.5 mm)
7.38" STROKE (187.5 mm)
707 4952

5.0" BORE (127 mm) (4)
3.5" ROD (88.9 mm)
22.0" STROKE (559 mm)
LOCK VALVE W/THERMAL RELIEF INTEGRAL W/JACK CYLINDER
709 7551

OPTIONAL BI-DIRECTIONAL GROUND DRIVEN STEERING
1.97 CIR

OPTIONAL HYD HEAT & AC (KENWAY)
DH DL OUT IN MD CD SD P
OVER TEMP
0.40DIA
69 CID
.25 CID
TO TEE IN ROTARY MANIFOLD, PORT "8"
REMOVE FOR HYD. HEAT AND A.C.
TO PORT "P" IN -12 SWING VALVE
TO PORT "EF" IN STEERING PRIORITY VALVE

OPTIONAL FRONT MOUNTED WINCH
OUTRIGGER EXT-RET
12 CIR HI SPD
24 CIR LO SPD

OPTIONAL HYD AC (KENWAY)
.25 CID
MOTOR CASE DRAIN, TO TEE IN ROTARY MANIFOLD, PORT "8"
REMOVE FOR HYD. A.C.
TO PORT "P" IN -12 SWING VALVE
TO PORT "EF" IN STEERING PRIORITY VALVE

DIVERTER VALVE 717 0523
2350 PSI (162.2 BAR)
451TC-12

OUTRIGGER EXT-RET 708 2210

3:1 PILOT RATIO
600±50 PSI (37.9 TO 44.8 BAR)
OUTRIGGER

4.0" BORE (101.6 mm)
2.0" ROD (50.8 mm)
7.5" STROKE (190.5 mm)
710 0645
(4)

(63.5 mm) 2.5" BORE (4)
(44.5 mm) 1.75" ROD
77.32" STROKE
709 6531

(75.7 LPM)
(145.7 LPM) (201.0 LPM)
2500 RPM
20.0 GPM
38.5 GPM
53.1 GPM
OUTRIGGER-STEERING-SWING PUMP 708 2216
WINCH-BOOM PUMP 708 2221

100 MESH
5 MICRON NOMINAL
2.5-3.0 PSI (.17-.21 BAR)
7 PSI (0.5 BAR) CRACK
27 PSI (1.9 BAR) OPEN
HYDRAULIC RESERVOIR 709A7882
91 GAL (344.5 LITERS) TO FULL LEVEL

NOTE:
1. 168 GAL (636 LITERS) (EST) SYSTEM VOLUME
2. ENGINE SPEC: 130HP (97KW) GROSS @2500 RPM FULL LOAD GOV.
3. ALL DASH SIZES REFER TO THE HOSE SIZE ONLY (NOT PORT SIZES).

SIMILAR TO: 703 1472
Inch [mm]

REV. LET.	L.E.N. DATE	CHANGE — ALL CHANGES MUST BE MADE ON CAD.	E.C.N.
--	3-7-05	PRODUCTION RELEASE	

TEREX CRANES
WAVERLY OPERATIONS
Waverly, Iowa 50677

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Concentricity of Cylindrical Machined Surfaces to be kept to within .010 T.I.R. and Parallelism or Angularity between Machined Surfaces and/or Drilling or Boring Center Lines to be kept within 0° – 7' (.002 per in.) unless otherwise specified.

All Dimensions In Inches. Tolerance-Unless Noted: .x = ±.12 .xx = ±.06 .xxx = ±.020

Spec. 2500 Tolerancing | Spec. 2117 Welding

Remove Objectionable Weld Splatter, Burrs & Sharp Edges

Model RT230-1

DRAWN | DATE | SCALE: Do Not Scale Print
CHK'D | DATE | WT.
APP'D | DATE
MATERIAL
PRODUCT: ☒TEREX ☐MARKLIFT ☐OTHER
DRAWN ON: ☒AUTOCAD ☐PRO/ENGINEER ☐EUCLID 3 ☐OTHER

SIZE E

TITLE: SCHEMATIC, HYDRAULIC

NUMBER: 703 1497

REV. — SHEET 1/1

Item	Part No.	Description	Qty.	Wt.	Item	Part No.	Description	Qty.	Wt.	Item	Part No.	Description	Qty.	Wt.	Item	Part No.	Description	Qty.	Wt.	Item	Part No.	Description	Qty.	Wt.