

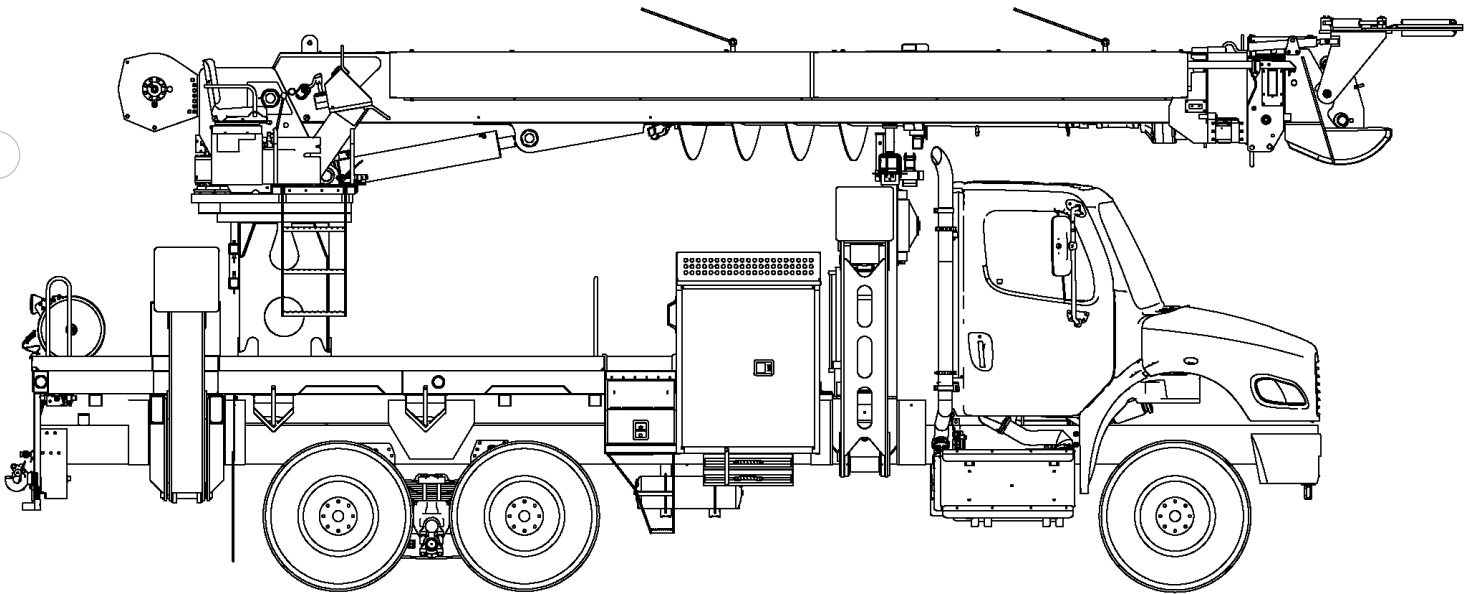


TEREX®

TECH TIPS

GENERAL LOAD CHART

NO. 200



**SERVICE CALL:
GENERAL LOAD CHART**



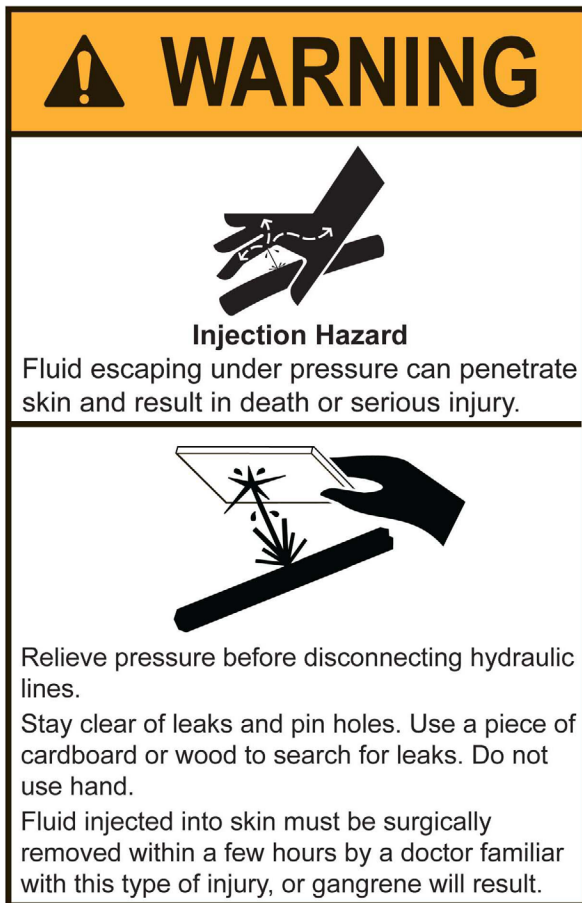
**MODEL(S):
GENERAL DD**



**TOOLS NEEDED:
NONE**

TEREX UTILITIES TECHNICAL SUPPORT TEAM

PHONE: 1-844-TEREX4U (1-844-837-3948) | EMAIL: UTILITIES.SERVICE@TEREX.COM



DANGER

Failure to obey the instructions and safety rules in the appropriate Operator's Manual and Service Manual for your machine will result in death or serious injury.

Many of the hazards identified in the Operator's Manual are also safety hazards when maintenance and repair procedures are performed.

DO NOT PERFORM MAINTENANCE UNLESS:

- ✓ You are trained and qualified to perform maintenance on this machine.
- ✓ You read, understand and obey:
 - manufacturer's instructions and safety rules
 - employer's safety rules and worksite regulations
 - applicable governmental regulations
- ✓ You have the appropriate tools, lifting equipment and a suitable workshop.

The information contained in this Tech Tip is a supplement to the Service Manual. Consult the appropriate Service Manual of your machine for safety rules and hazards.



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Use the load chart below to answer the following questions.

FORM #3405F-1

Example 1

Using the load chart on Page 4 and the information below, what is the gross and net capacity when lifting off the side of the truck?

Boom Angle	50°	Radius	N/A
Rigging:	100 lbs.	Load Weight	N/A
2nd Section	Extended	Third Section	Half Extended
4th Section	Half Extended		

STEP 1

Determine which section of the load chart is used. According to the table, the 2nd Section is extended and the 3rd and 4th sections are half extended. We will be using this section of the load chart.

2ND EXT, 3RD & 4TH HALF EXT			
LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES	
		ZONE A	ZONE B
9.4	66.4	20850	20850
14.0	65.3	15180	15180
28.1	59.7	7360	7360
39.6	50.8	4120	4120
48.3	39.2	2950	2950
53.8	25.8	2180	2180
55.6	11.4	1440	1440
54.7	1.8	810	810

STEP 2

According to the table, the boom angle is 50°. Since 50° is not listed on the load chart, move to the next lower angle of 45°.

Boom Angle	50°	Radius	N/A
Rigging:	100 lbs.	Load Weight	N/A
2nd Section	Extended	Third Section	Half Extended
4th Section	Half Extended		

BOOM ANGLES IN DEGREES	2ND RET, 3RD & 4TH HALF EXT				2ND EXT, 3RD & 4TH HALF EXT			
	LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES		LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES	
			ZONE A	ZONE B			ZONE A	ZONE B
80	6.8	51.6	20850	20850	9.4	66.4	20850	20850
75	10.1	50.8	20850	20850	14.0	65.3	15180	15180
60	19.5	46.7	12050	12050	28.1	59.7	7360	7360
45	29.0	40.2	7390	7390	39.6	50.8	4120	4120
30	35.3	31.7	5720	5790	48.3	39.2	2950	2950
15	39.3	21.9	4650	4650	53.8	25.8	2180	2180
0	40.6	11.4	3610	3610	55.6	11.4	1440	1440
-20	39.9	4.4	2750	2750	54.7	1.8	810	810

STEP 3

The question indicated we are lifting off the side of the truck. This means we will be lifting in Zone B.

The gross capacity as shown on the load chart is 4120 lbs.

The net capacity is the gross capacity - rigging = 4120 - 100 = 4020 lbs.

BOOM ANGLES IN DEGREES	LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES		LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES	
			ZONE A	ZONE B			ZONE A	ZONE B
80	4.4	36.4	35280	35280	7.0	51.2	21710	21710
75	6.6	35.9	35280	35280	10.5	50.4	20880	20880
60	12.7	33.3	19830	19830	20.2	46.2	10870	10870
45	17.9	29.1	13170	13170	28.5	39.7	6730	6730
30	21.9	23.8	10550	10550	34.9	31.3	5030	5030
15	24.4	17.6	8850	8850	38.9	21.5	3940	3940
0	25.2	11.0	7340	7340	40.2	11.0	2900	2900
-20	24.7	6.6	5920	5920	39.5	4.0	2020	2020

WARNING:
IF DERRICK IS MODIFIED IN ANY WAY OR
REMOVED, TEREX TELELECT MUST BE NOTIFIED
AS CAPACITIES SHOWN MAY BE AFFECTED.

2ND RET, 3RD & 4TH HALF EXT				2ND EXT, 3RD & 4TH HALF EXT				2ND, 3RD, & 4TH EXT				
BOOM ANGLES IN DEGREES	LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES		LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES		LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES	
			ZONE A	ZONE B			ZONE A	ZONE B			ZONE A	ZONE B
80	6.8	51.6	20850	20850	9.4	66.4	20850	20850	12.0	81.1	16150	16150
75	10.1	50.8	20850	20850	14.0	65.3	15180	15180	17.9	79.8	11470	11470
60	19.5	46.7	12050	12050	28.1	59.7	7360	7360	35.6	72.6	5490	5490
45	29.0	40.2	7390	7390	39.6	50.8	4120	4120	50.2	61.4	2990	2990
30	35.3	31.7	5720	5790	48.3	39.2	2950	2950	61.3	46.7	2090	2090
15	39.3	21.9	4650	4650	53.8	25.8	2180	2180	68.3	29.7	1480	1480
0	40.6	11.4	3610	3610	55.6	11.4	1440	1440	70.6	11.4	900	900
-20	39.9	4.4	2750	2750	54.7	1.8	810	810	69.5	-0.8	400	400

CAUTION: MULTIPLE-PART LINES ARE
REQUIRED FOR LOADS ABOVE 8820 LBS.
-SYNTHETIC OR ROTATION RESISTANT WIRE
ROPE MUST HAVE 48200 LB. BREAKING
STRENGTH AND 2.8% MAXIMUM STRETCH AT
9640 LB SAFE WORKING LOAD.
-WIRE ROPE OTHER THAN ROTATION
RESISTANT MUST HAVE 33740 LB. BREAKING
STRENGTH.
-CAPACITIES ARE BASED ON AN UNLOADED
VEHICLE WEIGHT OF NOT LESS THAN 46760
LBS. AND ARE 85% OF TIPPING LOADS. ALL
OUTRIGGERS MUST BE EXTENDED AND SET
FIRMLY ON THE GROUND BEFORE OPERATING
THE DERRICK. DERRICK MUST BE MOUNTED
ACCORDING TO TEREX TELELECT
INSTALLATION INSTRUCTIONS.
-WARNING: ALWAYS REFER TO UPPER
CONTROL LOAD CHART FOR OPERATION FROM
BOOM TIP CONTROLS.

REF:

OPTIONS: STL HYD 3RD & 4TH, ESK,
AUG 24, TRANS TPP, X-BOOST

FORM 02080F 1

Example 2

Using the load chart on Page 4 and the information below, what is the maximum radius that a transformer weighing 2900 lbs. can be placed off the back of the truck?

Boom Angle	N/A	Radius	N/A
Rigging:	100 lbs.	Load Weight	2900 lbs.
2nd Section	N/A	Third Section	N/A
4th Section	N/A		

STEP 1

The net load is the total weight of the load + rigging. In this case the net load is:

$$2900 + 100 = 3000 \text{ lbs.}$$

Lifting off the back of the truck puts the load in Zone A. The load chart on the next page shows maximum radius the weight can be lifted in each configuration.

The maximum radius is 40.6 feet with the 2nd retracted and the 3rd and 4th half extended.

DIGGER DERRICK

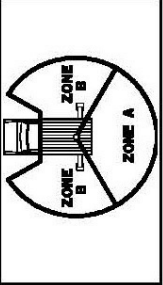
General

TM WINCH

Sample

-CAUTION: MULTIPLE-PART LINES ARE REQUIRED FOR LOADS ABOVE 8820 LBS.
 -SYNTHETIC OR ROTATION RESISTANT WIRE ROPE MUST HAVE 48200 LB. BREAKING STRENGTH AND 2.8% MAXIMUM STRETCH AT 9640 LB SAFE WORKING LOAD.
 -WIRE ROPE OTHER THAN ROTATION RESISTANT MUST HAVE 33740 LB. BREAKING STRENGTH.
 -CAPACITIES ARE BASED ON AN UNLOADED VEHICLE WEIGHT OF NOT LESS THAN 46760 LBS. AND ARE 85% OF TIPPING LOADS. ALL OUTRIGGERS MUST BE EXTENDED AND SET FIRMLY ON THE GROUND BEFORE OPERATING THE DERRICK. DERRICK MUST BE MOUNTED ACCORDING TO TEREX TELELECT INSTALLATION INSTRUCTIONS.
 -WARNING: ALWAYS REFER TO UPPER CONTROL LOAD CHART FOR OPERATION FROM BOOM TIP CONTROLS.

TEREX TELELECT



WARNING:
IF DERRICK IS MODIFIED IN ANY WAY OR REMOUNTED, TEREX TELELECT MUST BE NOTIFIED AS CAPACITIES SHOWN MAY BE AFFECTED.

2ND SECTION EXTENDED				
BOOM ANGLES IN DEGREES	LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES	
			ZONE A	ZONE B
80	4.4	36.4	35280	35280
75	6.6	35.9	35280	35280
60	12.7	33.3	19830	19830
45	17.9	29.1	13170	13170
30	21.9	23.8	10550	10550
15	24.4	17.6	8850	8850
0	25.2	11.0	7340	7340
-20	24.7	6.6	5920	5920

2ND EXT, 3RD & 4TH HALF EXT				
BOOM ANGLES IN DEGREES	LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES	
			ZONE A	ZONE B
80	9.4	66.4	20850	20850
75	14.0	65.3	15180	15180
60	28.1	59.7	7360	7360
45	39.6	50.8	4120	4120
30	48.3	39.2	2950	2950
15	53.8	25.8	2180	2180
0	55.6	11.4	1440	1440
-20	54.7	1.8	810	810

2ND, 3RD, & 4TH EXT				
BOOM ANGLES IN DEGREES	LOAD RADIUS IN FEET	SHEAVE HEIGHT IN FEET	LOAD CAPACITIES	
			ZONE A	ZONE B
80	12.0	81.1	16150	16150
75	17.9	79.8	11470	11470
60	35.6	72.6	5490	5490
45	50.2	61.4	2990	2990
30	61.3	46.7	2090	2090
15	68.3	29.7	1480	1480
0	70.6	11.4	900	900
-20	69.5	-0.8	400	400

FORM #3405F 1

REF:

OPTIONS: STL HYD 3RD & 4TH, ESK, AUG 24, TRANS TPP, X-BOOST



FOR FURTHER ASSISTANCE,
CONTACT THE TEREX UTILITIES TECHNICAL SUPPORT TEAM
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