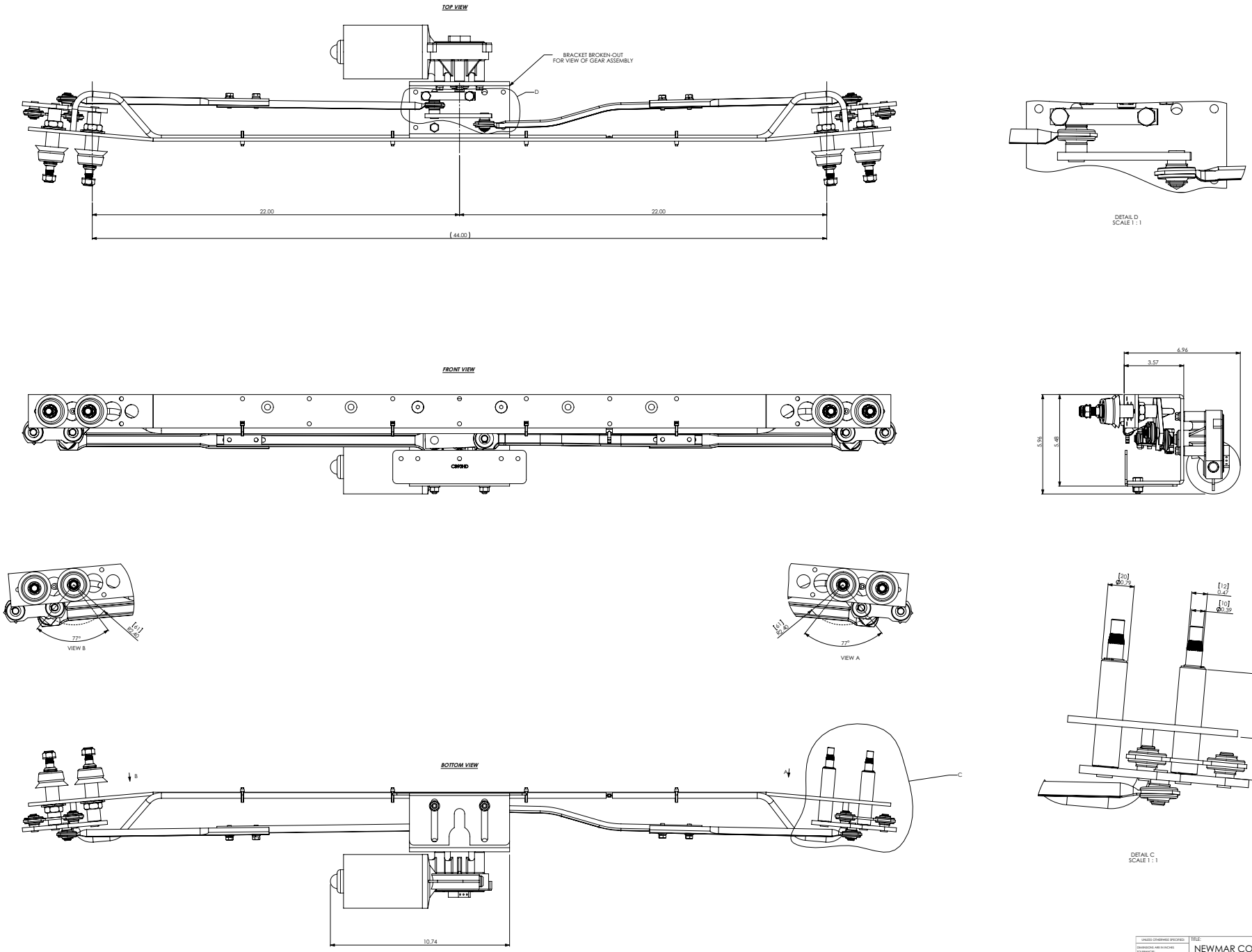

NOTES:
1. SOME ITEMS NOT SHOWN IN ALL VIEWS.
2. HIDDEN LINES REMOVED FOR CLARITY.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONAL ± ANGULAR: ± 0.5° TWO PLACE DECIMAL ± 0.010 THREE PLACE DECIMAL ± 0.005 PUNCHED HOLES ± 0.003	TITLE: NEWMAR CORPORATION		REV A
COMPANY TECHNICAL TOLERANCING PER:	DWG. NO. 95664		SIZE E
MATERIAL		NAME / DATE	WIPER TECHNOLOGIES BY DIESEL EQUIPMENT COMPANY
	DRAWN	S.M. 3-29-07	
FINISH	CHECKED	M.E.W. 4-2-07	
	ENG APPR.		
PROPRIETARY AND CONFIDENTIAL	MFG APPR.		
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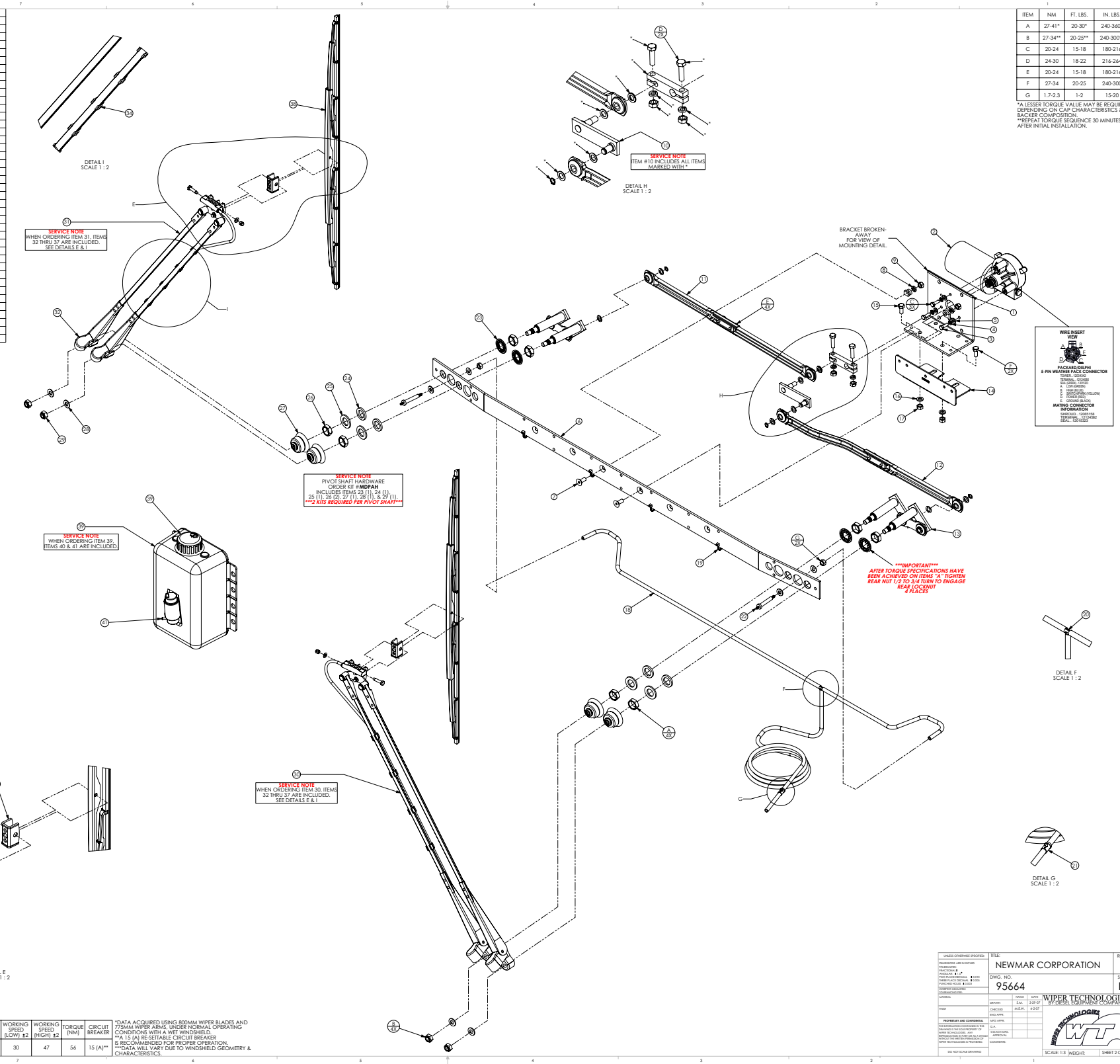
	CUSTOMER APPROVAL		
DO NOT SCALE DRAWING	COMMENTS:		
	SCALE: 1:2	WEIGHT:	SHEET 1 OF 2

95664 REV E

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	MDMBP03	PANTOGRAPH MOTOR BRACKET	1
2	ZD1631-12V	56NM WIPER MOTOR	1
3	M6-18CS	6MM BOLT	3
4	M6LW	METRIC 6mm LOCK WASHER	3
5	M6FW	METRIC 6mm FLAT WASHER	3
6	MDSPP03	STRINGER BRACKET	1
7	M8x1.25x20	8MM FLAT HEAD CAP SCREW	2
8	M8LW	METRIC 8mm LOCK WASHER	2
9	M8-125HN	METRIC NUT (8-1.25)	2
10	BGA1502	BICYCLE GEAR ASSEMBLY	1
11	MDPLA22	22" STRAIGHT LINK	1
12	MDPLA22B	22" BENT LINK	1
13	PA7061	DUEL DRIVE 59MM PIVOT ASSEMBLY	2
14	CB93HD	CHASSIS BRACKET	1
15	SC4000516000304	5/16" -18 x 3/4" BOLT	2
16	WB4000516	5/16" SAE FLAT WASHER	2
17	NW4000516	5/16" 18E LOCKNUT	2
18	77-216	3/16" I.D. TUBING	10
19	TY24MX	NYLON CABLE TIE	4
20	060382-0030	3/16" TEE	1
21	100755	ANTI-RETURN VALVE	1
22	TBF01	BRASS BARB	2
23	20MMLW	20MM LOCKING WASHER	4
24	20MMRW	20MM RUBBER WASHER	4
25	20MMFW	20MM FLAT WASHER	4
26	20MMHN	20MM HEX NUT	8
27	DB01	DUST BOOT	4
28	M10FW-1	10mm FLAT WASHER	4
29	M10X1.5LN	10mm LOCKNUT	4
30	PA775MD-L	PANTOGRAPH ARM	1
31	PA775MD-R	PANTOGRAPH ARM	1
32	MDHC	PLASTIC HEAD COVER	4
33	MDPSN	SPRAY NOZZLE	2
34	HC01	HOSE CLIP	8
35	TV77-216	TUBING	2
36	TBD3	PANTOGRAPH SHIM	2
37	MDBFH	BLADE HARDWARE	2
38	BA800P	800MM FLEX BLADE	2
39	065400	4 QT. WASHER FLUID RESERVOIR	1
40	063371	RESERVOIR CAP	1
41	066011	WASHER RESERVOIR PUMP	1

ITEM	NM	FT. LBS.	IN. LBS.
A	27-41*	20-30*	240-360*
B	27-34**	20-25**	240-300**
C	20-24	15-18	180-216
D	24-30	18-22	216-264
E	20-24	15-18	180-216
F	27-34	20-25	240-300
G	1.7-2.3	1-2	15-20

*A LESSER TORQUE VALUE MAY BE REQUIRED DEPENDING ON CAP CHARACTERISTICS & BACKER COMPOSITION.
**REPEAT TORQUE SEQUENCE 30 MINUTES AFTER INITIAL INSTALLATION.



WIPER MOTOR	POWER (W)	VOLTS	TEST VOLTS	EMPTY LOAD (LOW) ±2 (CPM)	EMPTY LOAD (HIGH) ±2 (CPM)	WORKING CURRENT (LOW)	WORKING CURRENT (HIGH)	WORKING SPEED (LOW) ±2	WORKING SPEED (HIGH) ±2	TORQUE (NM)	CIRCUIT BREAKER
ZD1631-12V	100	12	13.5	32	50	6 (A)	9 (A)	30	47	56	15 (A)**

*DATA ACQUIRED USING 800MM WIPER BLADES AND 775MM WIPER ARMS, UNDER NORMAL OPERATING CONDITIONS WITH A WET WINDSHIELD.
**A 15 (A) RE-SETTABLE CIRCUIT BREAKER IS RECOMMENDED FOR PROPER OPERATION.
***DATA WILL VARY DUE TO WINDSHIELD GEOMETRY & CHARACTERISTICS.

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: ± ±.5°
TWO PLACE DECIMAL ±0.030
THREE PLACE DECIMAL ±0.005
PUNCHED HOLES ±0.003
TERMINATE SHARP EDGES
DEBURR AND BREAK SHARP EDGES
MATERIAL
FINISH
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DO NOT SCALE DRAWING

TITLE: NEWMAR CORPORATION
REV: A
DWG. NO. 95664
SIZE: E

	NAME	DATE
DRAWN	S.M.	3-29-07
CHECKED	M.E.W.	4-3-07
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		

WIPER TECHNOLOGIES
BY DIESEL EQUIPMENT COMPANY
SCALE: 1:3 WEIGHT: SHEET 2 OF 2

95664 REV E