

349845
275664
256411

336954
285095
249994

320496
290238
244781

315578
289624
233577

315774
293451
231224

299425
293452
220825

293454
293453
[215397]

350044
353111
353904

3D GEOM: 215397

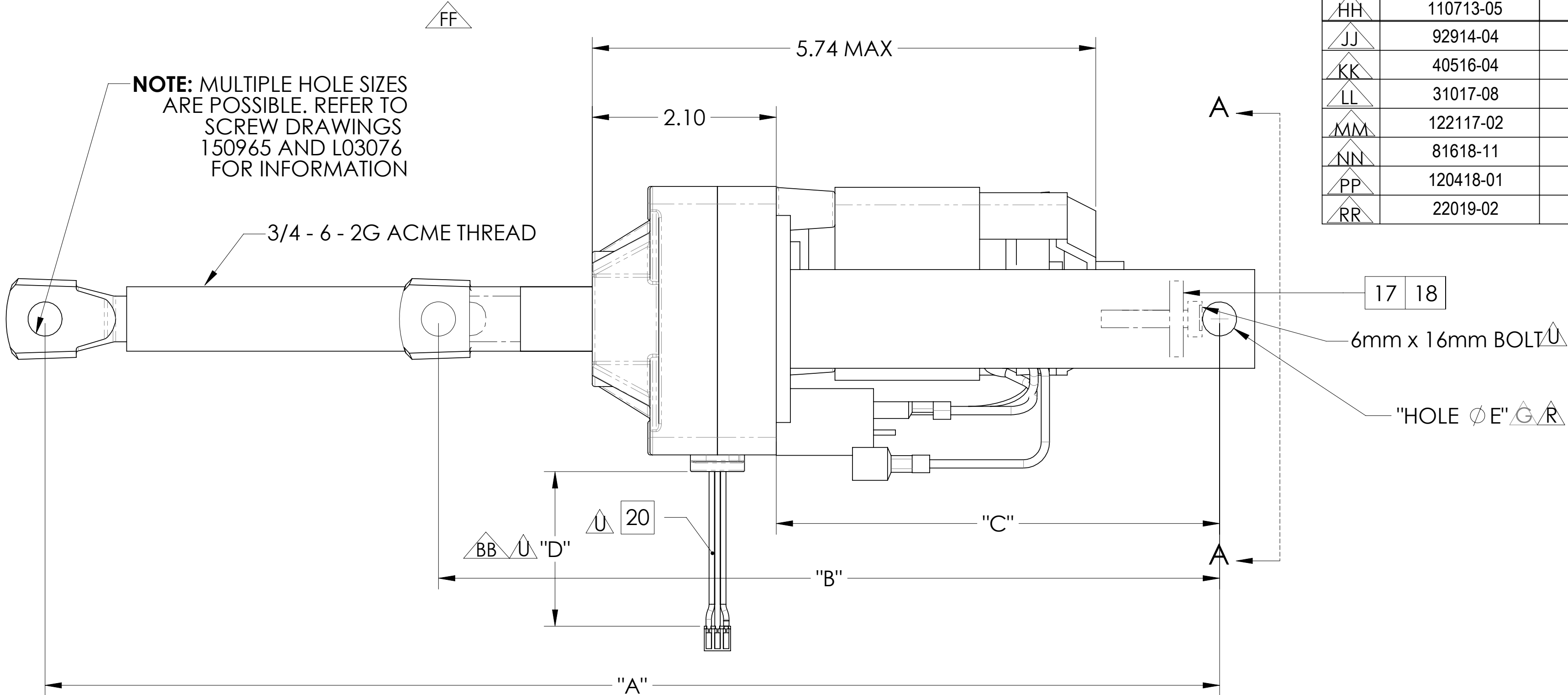
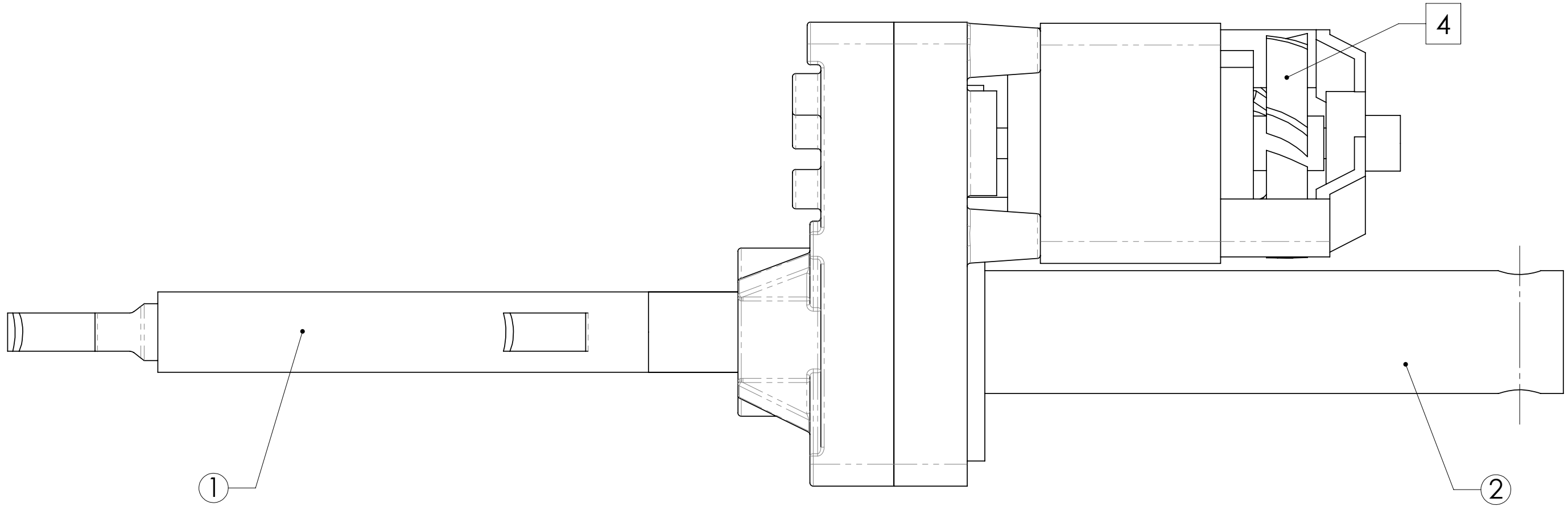
NOTES:

1. RATED VOLTAGE: 120VAC, 60HZ.
2. SPEED: 27 RPM±10% @ 120 VAC, 60 HZ.,
WITH A 900 LB LOAD.
3. DUTY CYCLE: INTERMITTENT
4. FAN IS REQUIRED.
5. RATED CURRENT: 1.55 MAX, 120 VAC, 60 HZ.
6. STALL CURRENT: 5 AMP MAXIMUM.
7. 10 MICROFARAD CAP, 250 VAC MIN.
8. MINIMUM LIFTING CAPACITY: 900 LB
9. MINIMUM BRAKING CAPACITY: 900 LB
10. PART NUMBER MUST BE CLEARLY MARKED ON MOTOR.
11. UNIT TO CONTAIN 2 VARISTOR DEVICES,
EACH IN PARALLEL WITH MOTOR WINDINGS.
12. THIS MOTOR DEVELOPS MAX TORQUE WHEN RETRACTING.
13. THIS MOTOR DEVELOPS MAX TORQUE WHEN EXTENDING.
14. THIS MOTOR HAS THRUST BEARINGS LOCATED
ON BOTH SIDES OF DRIVE GEAR.
15. CLASS F INSULATION REQUIRED.
16. THIS MOTOR USES 18 AWG. WIRE RATED AT 105°C
300V. UL APPROVED, WITH QTY=4 AMP. #2-520183-2
CONNECTERS.
17. MACHINED WASHER: PULL MOTORS
DIMENSIONS: O.D. = .945±.005
I.D. = .245±.005
THICKNESS = .159±.005
18. PLAIN WASHER: PUSH MOTORS
DIMENSIONS: O.D. = .865±.005
I.D. = .270±.005
THICKNESS = .155±.005

19. ON THIS MOTOR, HOLE ORIENTATION IS 90° FROM "HOLE Ø E"
AS SHOWN.
20. THIS MOTOR USES A HALL EFFECT SENSOR WIRE.
HALL EFFECT WIRE CONNECTION GUIDE:

POSITION	WIRE COLOR	IF WIRE ALL BLACK	FUNCTION
1	RED	+++	5V
2	BLACK	---	GROUND
3	GREEN	x x x	SIGNAL

21. FOR LIFT MOTORS WITH JST CONNECTORS:
(SEE ZE1224 FOR APPROVED ALTERNATES)
CONNECTOR ASSEMBLY COMPRISES THE FOLLOWING PARTS:
XAP-03V-1 (QTY 1), SXA-0IT-P0.6 (QTY 2)
22. 0.025 MAX ENDPLAY WITH 50 LB LOAD, MEASURED BETWEEN
MOUNTING HOLES AT APPROXIMATELY MID-STROKE WITH
COMPRESSION AND TENSION.
23. **LIFT MOTOR ASSEMBLY ON IQC TEST FIXTURE TEST CRITERIA**
NOISE MEASURED WITH 411 lbs LOAD, AT 36in AWAY, AND A
40 dB AMBIENT NOISE WIEGHTED A: EXTENDED AND
RETRACTED MUST MEASURE LESS THAN 65 dB WEIGHTED A.
24. FOR LIFT MOTORS WITH AMP CONNECTORS:
AMP PN 640440-3 (NO ALTERNATES)
25. THIS MOTOR INCLUDES INTEGRATED STOP BRACKET PARTS
AS INDICATED IN TABLE AND ON SECTION B-B



REVISIONS			
DRAWINGS PREVIOUS TO LAST REVISION DATE ARE OBSOLETE			
REV	DESCRIPTION OF CHANGE	DATE	BY
AA	ADD PN 22082510/20/09	10/20/09	AD
BB	ADD PART NO. 2310247/05	07/05/05	BB
CC	ADD PN 23357708/09/05	08/09/05	CC
DD	ADD NOTES 08/12/05	08/12/05	DD
EE	DROPPED REV 09/22/05	09/22/05	EE
FF	ADD PART NO. 244781/06	08/09/06	FF
GG	ADD PN 4249994 AND 102605	02/05/06	GG
HH	RETRACTED LENGTH	07/11/07	HH
II	256411 TO TABLE 14/07	07/14/07	II
JJ	ADD PART# 275664/10/08	10/08/08	JJ
KK	ADD 285095 6/25/09	06/25/09	KK
LL	ADD 8580, 163893; ADD 353903	06/09/09	LL
MM	ADD PART# 29023824/09	08/24/09	MM
NN	ADD PART # 28962429/09	09/29/09	NN
OO	UPDATE NOTES 10/20/09	10/20/09	OO
PP	ADD PN 2993851, 293452, 293453, 293454	05/10/10	PP
QQ	ADD 299425 5/10/10	05/10/10	QQ
RR	UPDATE NOTES 1/27/11	01/27/11	RR
SS	ADD PN 3157744/28/11	04/28/11	SS
TT	ADD PN 315578 5/9/11	05/09/11	TT
UU	STROKE TO 5.127" 11	08/11/11	UU
VV	ADD 320496 8/8/11	08/08/11	VV
WW	ADD PN 315578 "STROKE"	08/08/11	WW
AA	80212-11	8/23/12	AA
BB	10213-05	ADD LENGTH & WIRE COLUMNS	01/24/13
CC	53013-07	ADD PN 349845	6/5/13
DD	62613-05	ADD 350044	7/2/13
EE	81913-09	ADD 353111	8/22/13
FF	90413-03		9/10/13
GG	100113-08	ADD 353904	10/4/13
HH	110713-05	UPDATE 336954 LENGTH	11/13/13
II	92914-04	UPDATE TITLE	10/2/14
KK	40516-04	ADD NOTE 21	4/18/16
LL	31017-08	UPDATE LEAD SCREW, ADD NOTE	3/29/17
MM	122117-02	ADD NOTE 23	1/4/18
NN	81618-11	ADD JST CONNECTOR	10/16/18
PP	120418-01	ADD 410265 & 410316	12/12/18
RR	22019-02	CHG NOTE 22,UPDT TABLE	3/7/19

RELEASE APPROVALS		DATE	PRODUCTS	TOLERANCES	TITLE: MTR,AC,LIFT,PUSH/PULL
DRAWN BY	S. HARSTON	6/17/04	— AEROBIC	METRIC .X ± 0.8	BASE PRODUCT: 29507
CHECKED BY	6/22/04		— ANAEROBIC	.XX ± 0.76	SCALE: 1:1
ENG. APP.	Q FERRE	06/23/04	— XTREADMILLS	.XXX ± .010	SHEET: 1 OF 3
MANUFACTURING APP.	06/23/04		— OTHER	ANGLES ± 1°	
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3D GEOM:

TABLE OF LIFT MOTORS

REVISIONS

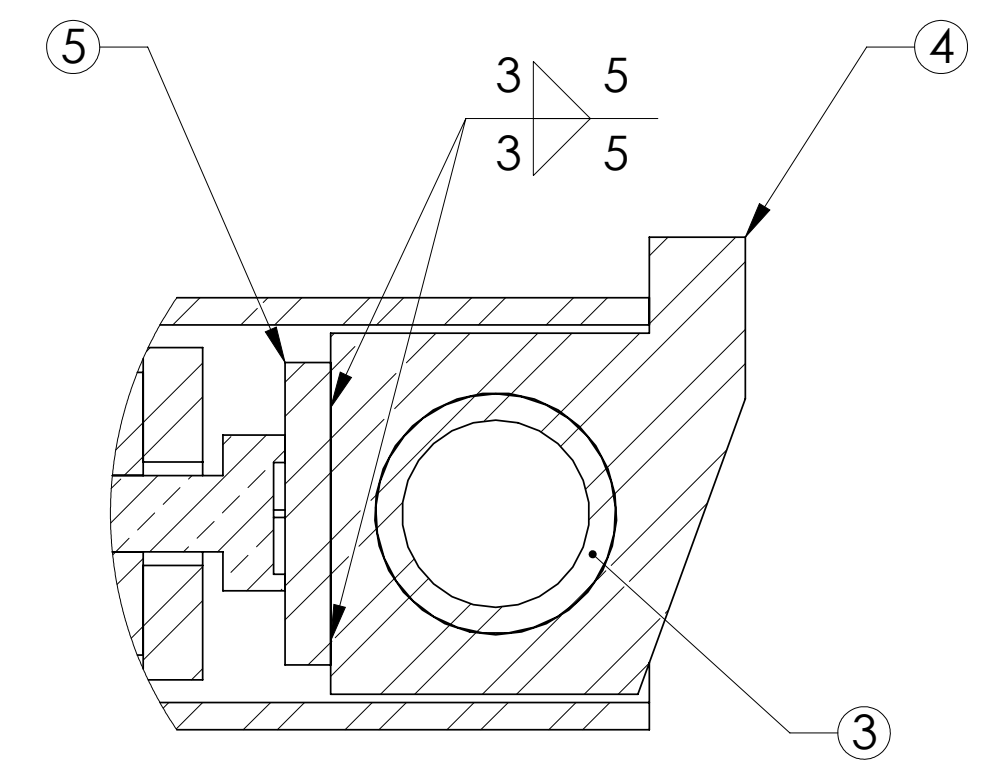
DRAWINGS PREVIOUS TO LAST REVISION DATE ARE OBSOLETE

DESCRIPTION OF CHANGE

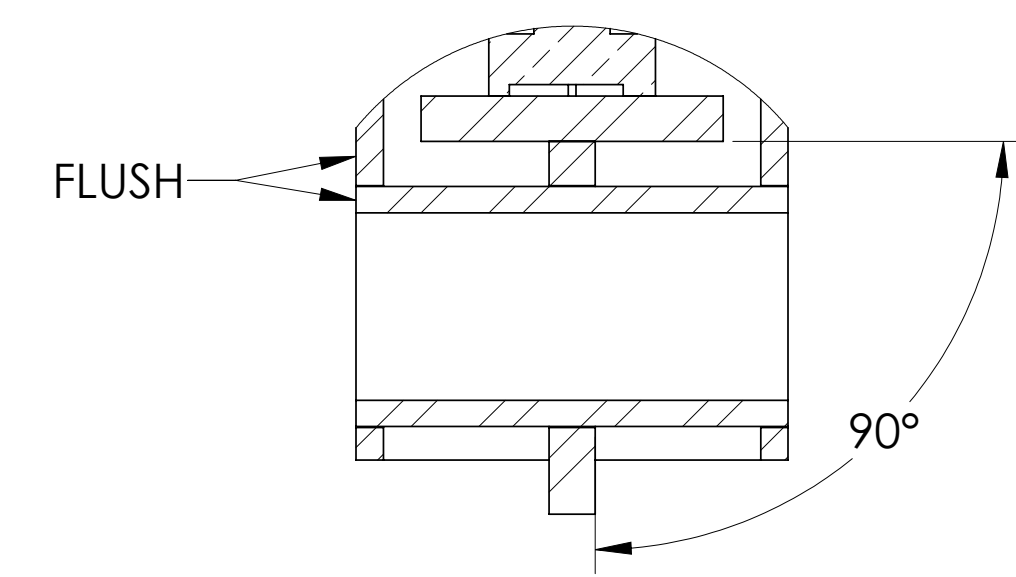
<div><div>21</div>LIFT MOTOR PART NO WITH JST CONN.</div>		<div><div>24</div>LIFT MOTOR PART NO. WITH AMP CONN.</div>		①	②	③	④	⑤	EXTENDED "A"	RETRACTED "B"	LENGTH "C"	LENGTH "D"	STROKE	NOTES				⑥
406057		215397		148444	215765				13.40	8.91	5.06	24.0	4.49	13	14	18		20
406058		<div>△A</div> 220825		209572	149045				12.91	8.535	4.94	24.0	4.37	13	14	18		20
406059		<div>△B</div> 231224		148444	148443				12.47	8.91	4.13	24.0	3.56	13	14	18		20
NA		<div>△C</div> 233577		157205	148443				10.67	7.11	4.13	24.0	3.56	12	14	17		
NA		<div>△S</div> 293454		157205	148443				10.67	7.11	4.13	24.0	3.56	12	14	17		20
406060		<div>△F</div> 244781		157205	148443				10.67	7.11	4.13	24.0	3.56	13	14	18		20
NA		<div>△G</div> 249994		M03168	250317				12.05	7.88 △H	4.74	24.0	4.17 △X	13	14	18	19	
NA		<div>△S</div> 293453		M03168	250317				12.05	7.88	4.74	24.0	4.17 △X	13	14	18	19	20
NA		<div>△J</div> 256411		M03168	250317				12.05	7.88	4.74	24.0	4.17 △X	12	14	17	19	
406061		<div>△S</div> 293452		M03168	250317				12.05	7.88	4.74	24.0	4.17 △X	12	14	17	19	20
NA		<div>△K</div> 275664		157205	168500				10.67	7.11	4.13	24.0	3.56	12	14	17	19	
406062		299425		157205	168500				10.67	7.11	4.13	24.0	3.56	12	14	17	19	20
406063		<div>△L</div> 285095		285096	285097				12.79	8.79	4.57	24.0	4.00	13	14	18		20
NA		<div>△T</div> <div>△N</div> 290238		290239	290240				10.67	7.11	4.18	24.0	3.56	12	14	17		
406064		<div>△S</div> 293451		290239	290240				10.67	7.11	4.18	24.0	3.56	12	14	17	19	20
406065		<div>△P</div> 289624		192701	148443				11.84	8.28	4.13	24.0	3.56	13	14	18		20
406066		<div>△Z</div> <div>△W</div> 315578		315579	250317				12.05	7.88	4.74	24.0	<div>△Z</div> 4.17	13	14	18	19	20
406067		<div>△V</div> 315774		315776	315775				<div>△V</div> 18.64	14.33	5.06	24.0	<div>△V</div> 4.31	13	14	18	19	20
406068		<div>△Y</div> 320496		320497	320498				13.47	8.60	5.44	24.0	4.87	13	14	18		20
406069		336954		337276	<div>△AA</div> 337275				16.44	10.14	6.92	24.0 △HH	6.30	13	14	18		20
406070		349845		320497	<div>△CC</div> 349844				13.47	8.60	5.44	24.0	4.87	12	14	17	19	20
406071		350044		148444	<div>△DD</div> 315775				13.40	8.91	5.06	24.0	4.49	12	14	17	19	20
406072		353111		303532	<div>△EE</div> 353112				17.86	10.50	7.93	24.0	7.36	13	14	18		20
406073		353904		353905	<div>△GG</div> 320498				13.47	8.60	5.44	24.0	4.87	13	14	18		20
410316		410265		410266	410267	410268	410269	379949	17.86	10.85	7.93	24.0	7.01	13	14	18		22

REVISIONS

DESCRIPTION OF CHANGE



SECTION B-B
SCALE 2 : 1



SECTION C-C
SCALE 2 : 1

RELEASE APPROVALS		DATE	PRODUCTS		TOLERANCES		TITLE: MTR.AC,LIFT,PUSH/PULL	
DRAWN BY	S. HARSTON	6/17/04	AEROBIC		METRIC X ± 0.8		BASE PRODUCT: 29507	
CHECKED BY		06/22/04	ANAEROBIC		XX ± 0.250.76			
ENG. APP.	Q FERRE	06/23/04	XTREADMILLS		ENGL XX ± .03		SCALE: 1:1	
MANUFACTURER		06/23/04	OTHER		XXX ± .010		SHEET: 3 OF 3	
ICON					ANGLES ± 1°			
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