



QTY.	ITEM	DESCRIPTION
1	1	TIE BAR ASSEMBLY (BY OTHERS)
2	2	ROD END
2	3	S-MODEL CYLINDER
2	4	TILLER ASSEMBLY
1	5	RFU-2000 (RUDDER FEEDBACK UNIT)
4	6	TILLER PIN
4	7	3-WAY ISOLATION VALVE
8	8	FLEX HOSE
4	9	SHUT-OFF VALVE (BY OTHERS)
1	10	DARB (DOUBLE ACTING RELIEF & BYPASS) VALVE
2	11	HPU (HYDRAULIC POWER UNIT)
2	12	MSA (MOTOR STARTER & ALARM) BOX
1	13	SP-36-2 (STARTER PANEL)
4	14	AP-66 (ALARM PANEL)
1	15	TP-36-2 (TEST PANEL)
3	16	RAI-300 (RUDDER ANGLE INDICATOR)
2	17	LC100 (LEVER CONTROLLER)
1	18	DH36 (DIGITAL HELM)
1	19	CP-36-1 (MODE CONTROL PANEL)
1	20	ROI300 (RUDDER ANGLE INDICATOR)
1	21	MCP (MODE CONTROL PROCESSOR)
1	22	DSC (DIGITAL STEERING CONTROLLER)
1	23	WHEEL (BY OTHERS)
1	24	JO100 (JOG LEVER)
2	25	TOS-1 (TAKE OVER SWITCH)
1	26	DHM (DIGITAL HELM PUMP MANIFOLD)

NOTE:
 SOLID LINES REPRESENT PIPING
 DASH LINES REPRESENT WIRING
 FUNCTION (NOT CABLE REQUIREMENTS)

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TOLERANCES: (UNLESS SPECIFIED OTHERWISE)			
X.X	+/- 0.1	FRACTION	+/- 1/64
X.XX	+/- 0.01	ANGULAR	+/- 0.5 DEG.
X.XXX	+/- 0.005	SURFACE FINISH	✓
ALL DIMENSIONS IN INCH(mm)			

REV.	DATE	DRAWING/DESIGN CHANGE No.	BY
Justram			
487 Mountain Highway North Vancouver, B.C. Canada V7J 2L3 Tel: (604) 986-0714 Fax: (604) 986-0334			
DATE: 30-04-04	SCALE: N.T.S.	DRAWN: G.Q.	APPR.
TITLE: S-MODEL, TIE BAR SYSTEM WITH DIGITAL HELM CONTROLS			DRAWING NUMBER: D-S00218