

**IMPROVEMENTS & UPGRADES TO
EXISTING SKYLAUNCH MAIN WINCHES**

Customer: _____ Date: ___/___/___ Serial No. _____ Job No. _____

REF NO/ LOCATION		FITTED TO WINCH	IMPROVEMENT	FITTED STD FROM CHASSIS NO
A1	AX		8 PLY COMMERCIAL TYRES	
A2	AX		CHOCK PIVOTS FINE PITCH THREADS	0030
A3	AX		GUILLOTINE BELLCRANK CLEVIS PIVOT	
B1	BB		BEVEL BOX MAGNETIC SUMP PLUG	0025
B2	BB		BEVEL BOX NEUTRAL POSITION-DEEPEN CENTRE DIMPLES	0025
B3	BB		BRAKE CALLIPER MOUNT BOLTS UPGRADED	
B4	BB		DOUBLE KEYWAYS ON DRUM SHAFTS	
B5	BB		DRIVE COUPLINGS GRUB SCREWS ENLARGED	
B6	BB		GRUB SCREWS IN DRUM HUBS	
B7	BB		VENTED DISC BRAKES & CALPIERS CONVERSION	
B8	BB		AUTOMATIC CABLE TOW-OUT BRAKE SYSTEM CONNECTED TO DRUM SELECTOR. ELIMINATES ORIGINAL SEPARATE LEVER SYSTEM WITH WARNING BUZZER SYSTEM	0045
B9	BB		NYLON BUSHES ON NEUTRAL LIGHT SWITCH PEG	
B10	BB		CONVERT EXISTING AUTO BRAKE BUZZER SYSTEM TO FULL-TIME LIVE WITH MASTER OFF AND ONE RELAY, 2 SWITCH SYSTEM	

C1	CA		BRIGHT REPEATER LAMP FOR SIGNAL LIGHT	
C2	CA		CAB DOOR GAS STRUT BALL END SWIVELS (AND MOVE DOOR FIXING TO CLEAR DRUM COVERS)	
C3	CA		CAB GRAB HANDLES BENT FORWARD	0025
C4	CA		BRAKE LEVER RETURN SPRING	0033
C5	CA		DELETE FAN LIGHT / CHANGE INSTRUCTION	0030
C6	CA		DRIVE LEVER – IN/OUT DRIVE STOPS	0030
C7	CA		DRUM COVER LATCH HOOKS – STRONGER REPLACEMENT SUPERSEDED SEE K9	
C8	CA		DRUM SELECTOR LEFT/RIGHT DRUM AND NEUTRAL LIGHT SYSTEM (OPTIONAL)	_____
C9	CA		DRUM SELECTOR – ‘NEUTRAL’ LIGHT (includes wiring loom for gas tank solenoids)	
C10	CA		MICRO-SWITCH BRACKET (UNDER DASH PANEL) MODIFICATION TO INCREASE TRAVEL ON MICRO –SWITCHES	0033
C11	CA		ONE DOUBLE POLE MICRO-SWITCH (UNDER DASH PANEL) REPLACING TWO SEPARATE MICRO-SWITCHES	
C12	CA		EXTENSION RING FOR PAY-OUT SPRING SUPERSEDED SEE B8	
C13	CA		FUSE BOX REMOVED AND REPLACED BY DC BREAKERS ON THE SIDE OF DASH CONSOLE	
C14	CA		IMPROVED DRIVE KEYWAYS ON BRAKE LEVER PIVOT AND PLATE – RENEW BOTH ITEMS	0025
C15	CA		IMPROVED PAY-OUT BRAKE CAM DETENT SUPERSEDED B8	
C16	CA		MODIFY DASH COWLING FOR BETTER LAMP VISION	

C17	CA		CAB REAR SIDE AND VERTICAL SILL JOINED TOGETHER (TO ELIMINATE LOOSE CABLE SNAGGING) LEFT AND RIGHT HAND	
C18	CA		LARGER SHAFT SIZE GUILLOTINE LEVER AND ARM WITH BRONZE BUSH & MODIFY BULKHEAD	0025
C19	CA		LEFT/RIGHT DRUM LIGHTS KIT – OPTIONAL	_____
C20	CA		MODIFIED AND SHORTENED PAY-OUT BRAKE LEVER SUPERSEDED SEE B8	
C21	CA		MOVE DOOR GAS STRUT FIXINGS FOR DRUM COVER ACCESS	
C22	CA		NEW TYPE IGNITION SWITCH AND KEY WITH START POSITION INTERLOCK TO PREVENT STARTING WHILST ENGINE RUNNING	0043
C23	CA		PANEL REINFORCEMENT FOR DRUM COVER LATCH BUNG MOUNTING ON CAB SIDES	0030
C24	CA		RED/GREEN WATER TEMP GAUGE AND SENDER	
C25	CA		VINYL GRIPS ON LEVERS – COLOUR CODED	0031
C26	CA		SIGNAL LAMPS GATER KIT (EARLY MODELS)	UP TO 0025
C27	CA		THREAD INSERTS IN SIGNAL LAMP SWIVEL – (EARLY MODELS)	UP TO 0025
C28	CA		DRUM INSPECTION WINDOW SURROUNDS – BOLT IN TYPE (NOT GLUE IN)	
C29	CA		A+ POSITION FOR THROTTLE GUIDES AND NEW CLAMP PLATE	
C30	CA		RUBBER NOISE SHIELD FITTED ON BONNET TO COVER BULKHEAD OPENING	0055
C31	CA		CONVERT TRAINING SEAT FRAME INTO STORAGE BOX WITH HINGING OPEN SEAT BASE	
C32	CA		240MM X 150MM REAR OPENING HATCH VENTS FITTED ONTO CAB REAR UPPER SIDE PANELS	
C33	CA		YELLOW POINTERS TO INDICATE DRUM SELECTOR LEVER LEFT/RIGHT ENGAGE POSITIONS	

D1	CH		GUILLOTINE RESETTER C BRACKETS ANTI SNAG RAMP	
D2	CH		NEW IMPROVED TOW HITCH ASSEMBLY WITH OVER CENTRE HANDBRAKE	
D3	CH		ROLLER BOX DAMPER MOUNTS – TOP ANTI-SNAG CAPS	0030
D4	CH		TOW HITCH STAND – NEW HEAVY DUTY BOX SECTION STAND	0021
D5	CH		TRACE TRAY EXHAUST GUARDS (BOLT ON)	0035
D6	CH		CABLE RAMP REPLACED WITH BOLT ON FUNNEL PLATES TO CONTAIN LOOSE CABLE AND ALLOW FOR LARGER DIAMETER AND LIGHTER CABLES / ROPES ETC – NOTE ONLY FITTED IN CONJUNCTION WITH K11 (PA)	
E1	CK		CHOCK 'DIGGING' FRONT EDGE EXTENSIONS	0025
F1	DR		4 YELLOW EXTRA DRUM ROTATION LABELS	
F2	DR		48 EXTRA DRUM REINFORCEMENT WEBBS (TWIN DRUM)	
F3	DR		96 x REINFORCEMENT WEBS ON DRUM CATCH RAIL SPOKES (TWIN DRUM)	
F4	DR		DRILL AND TAP DRUM EXTRACTING HOLES IN CENTRE PLATES OF BOTH DRUMS	
G1	ET		10 DEGREES C LOWER ENGINE FAN SWITCH	0015
G2	ET		AIR FILTER – PAPER TYPE INCLUDING NEW HOUSINGS ETC.	0030
G3	ET		ENGINE FAN – INCREASE FAN SPEED	0015
G4	ET		ENGINE FAN – STRENGTHENED IDLER PIVOT MOUNT	UPTO 0015

G5	ET		LATER TYPE 9 BLADE ENGINE FAN (15% INCREASE IN AIR FLOW)	0030
G6	ET		NEW TYPE V BELT FOR ALTERNATOR	
G7	ET		MODIFICATION TO OIL STRAINER IN SUMP	
G8	ET		SOLENOID FUEL SHUT OFF VALVES ON LPG TANKS (AND WIRING LOOM TO SUIT)	
G9	ET		STARTER RELAY, FITTED TO ENGINE POST	
G10	ET		PCV VALVE – CHANGE TO ¾" HOSE & ELBOW	0055
G11	ET		SHORT MACHINED TYPE TRANSMISSION DIPSTICK	
G12	ET		SILICONE RADIATOR HOSES – BOTTOM (ONE PIECE)	0025
G13	ET		THROTTLE SPRING – 10mm EXTENSION SUPERSEDED SEE G19	
G14	ET		RENEW M8 BELT TENSIONERS WITH M10 UNITS	0030
G15	ET		RPM LIMITER UPGRADED TO 5000 Rpm	
G16	ET		SPECIAL GM STARTER BOLTS AND FRONT END BRACE KIT SUPERSEDED SEE G17	0041
G17	ET		NEW TYPE LIGHT WEIGHT GEAR REDUCTION STARTER	0045
G18	ET		LATER TYPE COMPLETE ENGINE FAN / PULLEY / CLUTCH ASSEMBLY	0015
G19	ET		THROTTLE ACCELERATION CONTROL DAMPER SYSTEM WITH CABLE CONVERSION	0045
G20	ET		RE-ROUTE VACUUM PIPES WITH T –PIECE & BLANK CARB PORT	
G21	ET		INSULATE NO 7 PLUG LEAD	0055
G22	ET		RELAY FOR MAIN ENGINE FAN SENDER AND CONTROL PANEL FUSED AT 10AMP	0064

G23	ET		LATER DESIGN IGNITION DISTRIBUTER WITH LARGER DIAMETER CAP AND VACUUM ADVANCE SYSTEM	
H1	GU		ADJUSTABLE GUILLOTINE TRIGGER ASSEMBLIES	0030
H2	GU		GUILLOTINES - CAST 2 PIECE WITH BEARINGS TYPE (EARLY MODELS)	
H3	GU		GUILLOTINE RESETTER SWIVELLING HANDLE	
H4	GU		GUILLOTINE TRIGGER MOUNT BOSSES – M10 TO M12 AND 16Ø TO 20Ø	
H5	GU		LARGER DIAMETER FIRST AND SECOND GUILLOTINE LINKAGE RODS	
H6	GU		LARGER DIAMETER GUILLOTINE CROSSBAR WITH PLUMBER BLOCK BEARINGS OR MODIFY EXISTING	0030
J1	MI		LATEST 2 PART OPERATOR AND MAINTENANCE MANUALS WITH PHOTOS, GLIDER LISTINGS, SCHEDULES ETC (approx 140 pages)	
K1	PA		CAB SIDE AND RUNNING BOARDS PROTECTOR STRIPS	
K2	PA		DRUM COVERS – NEW HEAVY DUTY LATCHES - DOUBLE LOCK SUPERSEDED SEE K9	
K3	PA		EASY ACCESS HATCH FOR ENGINE AIR FILTER	0030
K4	PA		ENGINE COVERS – MORE VENTILATION	
K5	PA		FOOT STEPS – NEW TYPE STEPS FITTED BETWEEN TYRES	
K6	PA		NON SLIP COATING ON RUNNING BOARDS	0030
K7	PA		REAR COVER VENTILATION PANEL	

K8	PA		RUNNING BOARD COVERS – DELETE BUNG MOUNTS AND FIT WEIGHTS	0030
K9	PA		DRUM COVER AND HOOK SYSTEM REMOVED FOR RUBBER BONNET FASTENERS (2 EACH SIDE)	0042
K10	PA		FRONT CORNER PANELS ON CHASSIS (BOLT ON NOT WELD ON)	
K11	PA		BOX SECTION CAB TO RUNNING BOARD JOINER BRACKET – LEFT AND RIGHT HAND (In conjunction with D6) ADD PANEL REINFORCER BOLTS	
K12	PA		ENGINE COVER BUMP STOPS – BOLT ON (NOT WELD ON) REINFORCEMENT	0030
K13	PA		GUILLOTINE GUARD 2 ND FASTENING TO PREVENT GAP EXPOSED	
K14	PA		DRUM COVER HINGE NYLON FRICTION WASHERS REPLACED WITH STEEL ONES TO INCREASE FRICTION	
L1	RA		NEW TYPE RADIATOR AND SEPARATE HEADER TANK / NEW BONNET SCOOP TO SUIT	
L2	RA		RADIATOR FAN 3 PIECE COWLINGS (EARLY MODELS)	
L3	RA		AUXILARY RADIATOR COOLING FAN SYSTEM, 385MM ELECTRIC FAN WITH THERMO SWITCH	
M1	RB		REDUCE SMALL ROLLER TOP/BOTTOM BRACKET WIDTH BELOW ROLLER DIAMETER	
M2	RB		FIX ROLLERBOX AT TILTED ANGLE	
M3	RB		WELD ROUND BAR TO BOTTOM OF ROLLER BOX TO PREVENT CABLE SNAG	
M4	RB		NEW DESIGN SWIVELLING ROLLER BOX FOR USE WITH DYNEEMA OR SKYROPE	

M5	RB		MODIFY ROLLER BOXES AND PIVOTS SO ROLLER BOX FOLLOWS CABLE ANGLE AT TOP OF LAUNCH, AFTER RELEASE. PREVENTS DAMAGE TO ROLLERBOX AND CABLE.	
----	----	--	---	--

KEY FOR ABOVE - REF NO / LOCATION

A-AX – AXLES	G-ET – ENGINE / TRANS
B-BB – BEVEL BOX	H-GU – GUILLOTINE
C-CA – CAB	J-MI – MISCELLANEOUS
D-CH – CHASSIS	K-PA – PANEL WORK
E-CK – CHOCKS	L-RA – RADIATOR
F-DR – DRUMS	M-RB – ROLLER BOX

KEY FOR ABOVE - FITTED TO WINCH

E – ESSENTIAL TO PREVENT FUTURE PROBLEMS
R – RECOMMENDED
N – ONLY REQUIRED IF THERE IS A PROBLEM (OR SUSPECTED PROBLEM)
YES – WILL BE DONE (IF NOT ALREADY DONE)
MAY – WILL BE DONE IF THERE IS A PROBLEM (OR SUSPECTED PROBLEM)
AF - ALLREADY FITTED
FOR EURO PRICES PLEASE MULTIPLY UK POUNDS (£) BY 1.25

REPAIRS/PAINTING REQUIRED

SERIAL	PARTS&LABOUR COST	DESCRIPTION
N1		
N2		
N3		
N4		
N5		
N6		
N7		
N8		
N9		
N10		
N11		
N12		
N13		
N14		
N15		
N16		
N17		

SERVICE REQUIRED – REFER TO SERVICE SCHEDULE

SERIAL	PARTS&LABOUR COST	DESCRIPTION
O1		
O2		
O3		
O4		
O5		
O6		

OTHERS

SERIAL	PARTS&LABOUR COST	DESCRIPTION
P1		
P2		
P3		
P4		
P5		
P6		
P7		
P8		
P9		
P10		
P11		
P12		

STANDARD PROCEDURES FOR WINCH UPGRADES

Final drive Semi Fluid Grease Checks L/R
Weld in Chassis Number + Repaint
Check Water Pump and Alternator Bearings
LPG Model only – Blank off Engine Water Pump Bypass hose

Note: Prices do not include VAT

Please allow a contingency for any other (small) problems we may find once we start stripping the winch down.