

OPTIONAL EQUIPMENT SPECIFICATIONS  
SWAB "Skidder" SKAL-106  
ALL-ALUMINUM BRUSH/UTILITY BODIES  
Updated 2/2003

6200. OPTIONAL CHASSIS ITEMS:

6201. **Exterior Cab Painting, Single Color** - Chassis cab painted per customer specified color. Chassis cab preparations for painting to include proper sanding procedures for prime painting, Sherwin Williams Jet Seal non-sanding primer and three (3) coats of Sherwin Williams Acrylyd acrylic enamel with Poly-Sol urethane additive. Paint break line to be drip moulding above body side compartments. Painting to include door jams.

6202. **Exterior Cab Painting, Two Tone** - Chassis cab painted per customer specified colors (2). Chassis cab preparations for painting to include proper sanding procedures for prime painting, Sherwin Williams Jet Seal non-sanding primer and three (3) coats of Sherwin Williams Acrylyd acrylic enamel with Poly-Sol urethane additive. Paint break line to be at cab windows and above. Painting to include door jams.

6203. Aluminum Tread Plate Running Boards - One (1) pair of Delta III bright aluminum treadplate running boards installed on cab per manufacturer's installation instructions.

6204. **Grille Guard** – One (1) Manik Products #333350ASP polished stainless steel grille guard, installed per manufacturers instructions with required/supplied hardware.

6205. **Front Bumper Extension/ Deck with Gravel Shield** - Front chassis frame rails to be extended 15" and chassis bumper reinstalled with original brackets and mounting hardware. .125 bright aluminum treadplate gravel shield installed between front bumper and engine cowl. Gravel shield to include skirts on side between front bumper and front fender area.

6206. **Front Electric Winch** - One (1) Ramsey Model RE12000 electric winch installed between front chassis frame rails. Winch to be 12,000 LB rated with 125' of 3/8" galvanized aircraft cable, replaceable clevis hook, 4-way roller fairlead, 12' remote control switch. Electrical jack/connector for remote control installed on left hand side of front bumper. Winch connected to chassis electrical system with required wire and connectors as specified by winch manufacturer.

6207. **Stainless Steel Wheel Covers** - One (1) set of RealWheels Classic Series #RW1901-3CK stainless steel wheel covers installed on front and rear wheels.

6208. **Seats, Inc. "911" Seats** – Chassis rear bench seat removed and two (2) or three (3) Seats, Inc. "911" seats, model #175776CG38, installed. Seats to be installed on Swab-built frame using existing safety belts. Seat fabric to be Cordura with color to match chassis interior. \***Note** – item requires 4-door, crew cab chassis.



6300. OPTIONAL BODY/COMPARTMENT ITEMS:

6301. **Rear-Facing Compartment** - equipment storage compartment installed to utilize space under skid unit to include full-length x full-width .125 smooth aluminum under-unit body floor and aluminum tread/brightplate access door with paddle latch. Height of compartment to be 4".

6302. **Wheelhousing Liners** - .125 aluminum 180-degree full width inner body wheelhousing liners with mounting flanges / undercoated. Wheelhousing liner option includes installation of (1) set of SWAB black rubber mud flaps.



6303. **Fenderetts** - One (1) pr. C/P polished aluminum fenderetts installed at rear body wheelhousing openings.

6304. **Adjustable Compartment Shelving** – One (1) adjustable compartment shelf installed in customer specified compartment. Adjustable shelf to have 1-1/2" double break lips with welded corners. Shelf is to be installed on Kindorf "C" type plated sidewall stanchions and have 1-1/4" x 1-1/4" x 1/8" full width side brackets with end gussets. Kindorf rail clips and fasteners provided for each bracket.

6305. **Compartment Slide-Out Deck** - One Slide-out deck installed on compartment floor of customer specified location. Slide-out deck to have 300 lb. capacity Grant triple track, plated slide rails with closed position latch. Frame for deck to be fabricated from aluminum angle. Deck to be fabricated with 3/4" birch veneer solid wood core plywood. Deck finish to be clear coat.

6306. **Compartment Slide-Out Drawer** - One slide-out drawer installed on compartment floor of customer specified location. Aluminum angle framework fabricated to support removable drawer. Aluminum drawer to have 4"-6" sides and be mounted on 300 lb. capacity Grant triple track, plated slide rails with closed position latch.

6307. **Rear Body Grab Rails** - One (1) pair - 30.00" long x 1.250" ribbed aluminum NFPA type grab rails installed - one (1) each side of rear body aisleway and reinforced to rear body panel with chrome plated South Park stanchions.

6308. **Painted Roll-up Doors** – Body ROM roll-up doors to be painted customer specified color #\_\_\_\_\_. Door painting to be performed by ROM Corporation during door manufacturing process with paint materials supplied to ROM by Swab Wagon Co. Paint to be same acrylic enamel used for body painting.

#### 6400. OPTIONAL 12VDC ELECTRICAL ITEMS:

6401. **Emergency Service Package** – Package to include one (1) Formica-covered, floor-mounted/ between-seat switch console installed with forward hinged switch panel and rearward open map/book area. Console to be constructed of 1/2" industrial-grade plywood with lid constructed of .080" smooth aluminum. Lid hinged at rear for access into console. Console side Formica color to match cab interior as closely as possible with black Formica lid. Console to include lighted type rocker switches with back-lite labels for all specified 12VDC loads. Two (2) 100 amp continuous duty rated solenoid shall be provided. One (1) shall control all warning light circuits, the second shall control all other utility circuits. These solenoids shall be controlled by two (2) separate lighted rocker switches identified as "Warning Master" and "Utility Master" (when applicable). Console to also provide space for mounting of siren and radio heads. One (1) ventilated enclosure to house all 12-volt relays, circuit breakers, and power supplies constructed and installed in bottom of compartment R-1 (unless otherwise specified). Each component identified by number/color and function and listed within control panel.



Main service cable shall be 1/0 stranded insulated cable, rated to 210 amps continuous service and protected by a 200 amp automatic reset circuit breaker. Enclosure to provide for ease of transfer of

body/equipment to new chassis. Enclosure constructed of Formica covered ¼” plywood with .125” smooth aluminum top and sides with .125” aluminum removable lid. Aluminum to have “D/A” matte finish to match inside of compartment box. Two (2) 4” round metal louvers installed in lid for proper ventilation of enclosure.

One (1) Transportation Safety Devices CDR-350 automatic battery switch mounted in enclosure and connected to chassis batteries and 12VDC system.

All circuits in excess of 10 amps shall be operated by means of a 30 amp 12 VDC automotive type relay. Relays shall be ground controlled by lighted rocker switches in cab radio/switch console and connected by twenty (20) gauge stranded cable. One main automatic reset circuit breaker and individual automotive-type automatic reset circuit breakers installed in enclosure for each circuit.

\***Note** - center console requires front bucket-type seats in cab with space between seats for console.

6402. **Ground Lights** - Six (6) Weldon Model 9185 sealed lights installed under unit for ground illumination. Light mounted to under side of unit with stainless steel bracket and rubber grommet to provide shock-free mounting. Ground lights interfaced with ignition switch and transmission neutral safety switch. Lights will activate when ignition switch is on and unit transmission is placed in park/neutral.

6403. **Compartment Lights with Door Open Indicators** - Two (2) compartment lights installed in each exterior body compartment. Peterson #389, 5" diameter, surface-mount lights installed with automatic door switch and self contained light switch. Lights spaced on compartment box side walls contingent upon placement of shelving, roll-out trays, and other items in compartment box to provide maximum amount of illumination. Two door open indicator lights interfaced with door switches and installed in cab.

6404. **Rear Scene Lights** – Two (2) Whelen 700 series halogen Opti-Scene lights, one (1) mounted on each upper rear body panel. Lights installed with manufacturers chrome flange rings and wired to switch(s) in cab switch panel.

#### 6500. OPTIONAL 110VAC ELECTRICAL ITEMS:

6501. **Raven Engine-Driven Generator with Load Center** – One (1) Raven Blackbird 5.0KW engine-driven generator, installed in the chassis engine bay and connected to chassis engine per manufacturers installation instructions with supplied hardware and serpentine belt. The system has an electric clutch; stock alternators remain in place and the Blackbird does not interfere with the vehicle’s DC system. The Blackbird™ will deliver continuous 5kW/42 amps pure sine 120 Volt AC at any fixed or changing shaft speed from 3,000 to 10,000 rpm at the generator. The system includes the generator, installation bracketing, drive components, control box which measures 4”x4”x8” and a small “command module.” Total system weight is approximately 100lbs. The Blackbird™ produces 120 VAC pure sine power; 60hz power frequency is maintained within +/- .5%. Voltage is regulated to within +/- 1% over entire load/speed range. The generator starts induction motors as large as ¾ HP. The Blackbird™ can deliver up to 65 amps during motor starting. Large inductive loads require power factor correction using a “SmartCord™ (included) installed between our generator and the particular load. The Blackbird™ has no field serviceable parts. Periodic inspection of the drive belt is advised, although belt service life should be comparable to belts on the particular engine. The system is covered by a three year parts and labor warrantee. Raven generator connected to one (1) Square D model #QO6-12L100DS circuit breaker load center installed in bottom of compartment L-1 or R-1. Load center to have a total capacity of 6 individual breakers for 110 volt circuits. Required Square D circuit breakers of proper amperage

installed for each optional receptacle, equipment and lighting circuit specified. All wiring to be minimum 12 3 solid strand/BX type cable installed with required under body junction boxes, box connections and wiring clips. Wiring to be installed in high temperature zip loom with rubber grommets installed where wiring passes through body panels. Switch to control Raven to be located on cab switch panel.

**NOTICE** – For all Ford Motor Company vehicles, the following is from the 2006 Ford Body Builders Layout Book, page 4 “Definitions of Terms”:

“**Ambulance** – ...Ford Motor Company also includes within its definition of ambulance any vehicle that is used for transporting life-support equipment, for rescue operations, or for non-emergency patient transfer if the engine of the vehicle is equipped with a ‘throttle kicker’ device, which enables an operator to increase engine speed over normal idle speed when the vehicle is not moving.”

Due to the required shaft speed of the Raven generator unit, which requires use of a “throttle kicker” to operate the generator at maximum output, Ford Motor Company therefore considers this vehicle to be an ambulance. **Vehicle thus requires the optional Ford Ambulance Prep. Package.**

6503. **2.6KW Inverter with Load Center** – One (1) Vanner model ITE-12-2600 inverter installed in compartment L-1 (unless otherwise specified). Inverter connected to chassis batteries with proper gauge stranded cable installed in plastic loom. One (1) Square D model #QO6-12L100DS circuit breaker load center installed in same compartment. Load center to have a total capacity of 6 individual breakers for 110 volt circuits. Inverter electrical system connected to circuit breaker load center. Required breaker installed for each optional receptacle, equipment and lighting circuit specified. All wiring to be minimum 12 3 solid strand/BX type cable installed with required under body junction boxes, box connections and wiring clips. Wiring to be installed in high temperature zip loom with rubber grommets installed where wiring passes through body panels. \***Note** – **Inverter output rating contingent upon chassis alternator amperage output and other 12VDC electrical loads.**

6504. **Telescoping Pole Lights** - Two (2) Tele-Lite telescoping pole lights, Model #15, installed on front body panels. Telescoping pole to be bottom raise with 4" offset brackets. Lighthouse to be 1500 watt quartz halogen. Each light wired to individual weatherproof switch installed adjacent to light on front body panel and individual breaker in load center.

6506. **Battery Charger w/ Auto-Eject** - One (1) Vanner Model 30-10 fully automatic battery charger/conditioner installed in customer specified location. One (1) Kussmaul #091-20WP-120 120VAC 20 amp shoreline with weather-proof cover installed on left/front body panel (unless otherwise specified). One (1) 110VAC duplex receptacle installed at conditioner location. Conditioner wired to batteries as required.

6507. **110V Outlet** - One (1) 110 volt AC duplex or twist-lock outlet installed in customer specified location. Each outlet to be rated at 110VAC/15amp. Outlet wired to dedicated circuit breaker in load center. Outlet to include BWT weatherproof cover if installed on exterior body panel.

#### 6600. OPTIONAL WARNING LIGHTS & SIRENS:

6601. **Strobe Grille/Intersection/Warning Light Package** – Six (6) Whelen 400 series strobe lights installed, two (2) in chassis grille, one (1) on each front fender or on apron of optional gravel shield of front bumper extension deck, and one (1) on each wheelhousing panel area. Two (2) Whelen 700 series strobe lights installed, one (1) on each upper rear body panel. Lights installed with manufacturer's chrome flange rings unless installed in other type of housing. Lights connected to one (1) Whelen UPS158 strobe power supply module. Lights controlled by switch(s) on cab center console/switch panel.

6602. **Halogen Grille/Intersection/Warning Light Package** - Six (6) Whelen 400 series halogen warning lights, (2) installed in chassis grille, (1) on each front fender or on apron of optional gravel shield of front bumper extension deck, and (1) on each wheelhousing panel area. Two (2) Whelen 700 series halogen lights installed, one (1) each upper rear body panel. Lights installed with manufactures chrome flange rings unless installed in other type of housing. Lights connected to two (2) Whelen UMF8 halogen flashers. Lights controlled by switch(s) on cab center console/switch panel.

6603. **LED Warning Light Package** - Six (6) Whelen 400 series red LED lights installed, (2) in chassis grille, (1) on each front fender or on apron of optional gravel shield of front bumper extension deck, and (1) on each wheelhousing panel area. Two (2) Whelen 700 series red LED lights installed, one (1) each upper/rear body panel. Lights installed with manufactures chrome flange rings unless installed in other type of housing. Lights controlled by switch(s) on cab center console/switch panel.

6604. **Federal Signal Front Light Bar** - One (1) Federal Model VC4801 Vector lightbar installed on cab roof with permanent mount kit. Light bar to be wired to switch(s) in cab switch panel. Light bar to be configured as follows:

- 48” Vector 7 pod light bar
- Pods 1, 3, 5, 7 - standard (95 fpm) rotating light [V-ROT]
- Pods 2, 4, 6 – fast (195 fpm) rotating light [V-MED]

6605. **Code III Front Light Bar** - One (1) Code 3 XL5000 light bar installed on cab roof with permanent mount kit. Light bar to be wired to switch(s) in cab switch panel. Light bar to be configured as follows:

- Model 556A3 light bar with clear domes
- 56" length
- Light bar to include:
- four (4) 50w rotators with colored filters
- two (2) diamond mirrors
- two (2) two-step cascade mirrors
- one (1) 50w fast rotator

6606. **Whelen Edge Light Bar** - One (1) Whelen Edge Model #9M14200F light bar installed on cab roof with permanent mount kit. Light bar to be wired to switch(s) in cab switch panel. Light bar to be configured as follows:

- four (4) front facing strobes
- 52" length
- two (2) PRM2CCC twin oscillating lamps
- two (2) 9MTD2 halogen take-down lights

6607. **Federal Siren with Code 3 Speaker** – One (1) Federal PA-300 Siren installed in cab center radio/switch console. Siren wired to one (1) Code 3 #SL-100, 100-watt speaker installed behind front bumper.

6608. **Federal Siren with Cast Products “in-the-bumper” Speakers** - One (1) Federal PA-300 Siren installed in cab center radio/switch console. Siren wired to two (2) Cast Products #SAD4302 in-the-bumper siren speakers, one (1) located each side of chassis front bumper.

6609. **Load Manager with Light Sequencer** - One (1) Kussmaul Model 091-32 load manger with light sequencer installed and interfaced with warning lights (5 circuit maximum) and chassis electrical system. Load manger has low voltage monitoring capabilities to prevent electrical overloads. Load manager will automatically sequence lights on/off depending on voltage reading. Load manager includes switch panel mounted indicator to signal which mode unit is in, and a remote manual override switch to be installed in cab switch panel.

6700. OPTIONAL AUXILIARY EQUIPMENT:

6701. **Hannay Cable Reel** - One (1) Hannay electric cable reel, Model CR1616-17-18 with 150' of 10/3 cable, cable stop, roller guides, electric rewind motor and rewind switch. Reel to have oven-cured enamel finish. Reel suspended from compartment ceiling in customer specified compartment. Reel pre-connected to 110VAC electrical system load center and protected by circuit breaker of proper amperage. Electric rewind motor interfaced with body 12VDC electrical system and rewind switch located at reel.

6800. OPTIONAL LETTERING/STRIPING - quotations upon request.

6900. SKID UNITS:

Per attached CFP/Waterous-Pneumax specifications.

7000. WATEROUS/PNEUMAX OPTIONS

7011. **Front Ground Sweep Nozzles** – One (1) pair of ground sweep nozzles installed on underside of chassis front bumper. One (1) Asco 8210G4-12VDC 1" solenoid valve installed with control switch located on cab radio/switch panel. Piping installed to valve and front bumper and connected to two (2) Elkhart #NTS-C 3/4" fixed nozzles, one located on each under side of bumper. Drain valve installed at "T" location behind front bumper.