



DANGER

Danger of electrical shock, burns or death. Always remove all power sources before attempting any repair, service or diagnostic work. Power can be present from shore power, generator, inverter or battery. All power sources must be disabled and secured before performing any service.

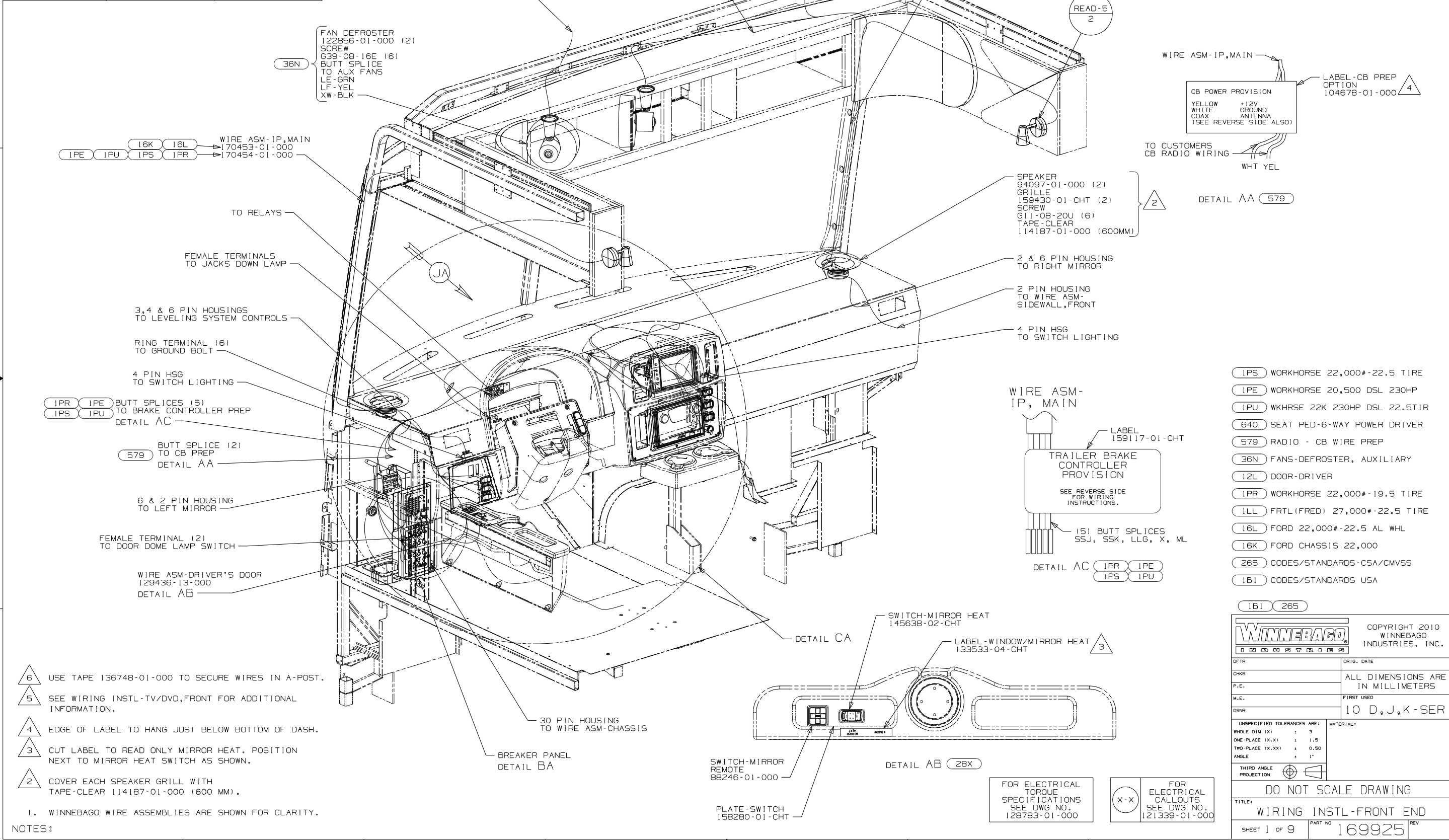


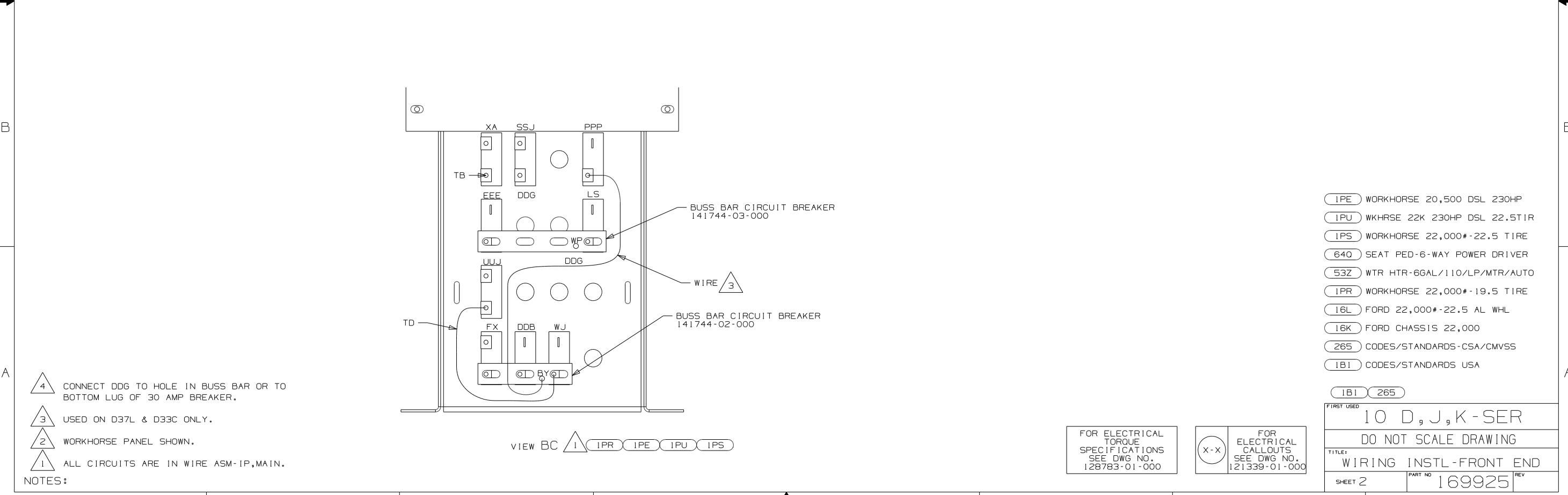
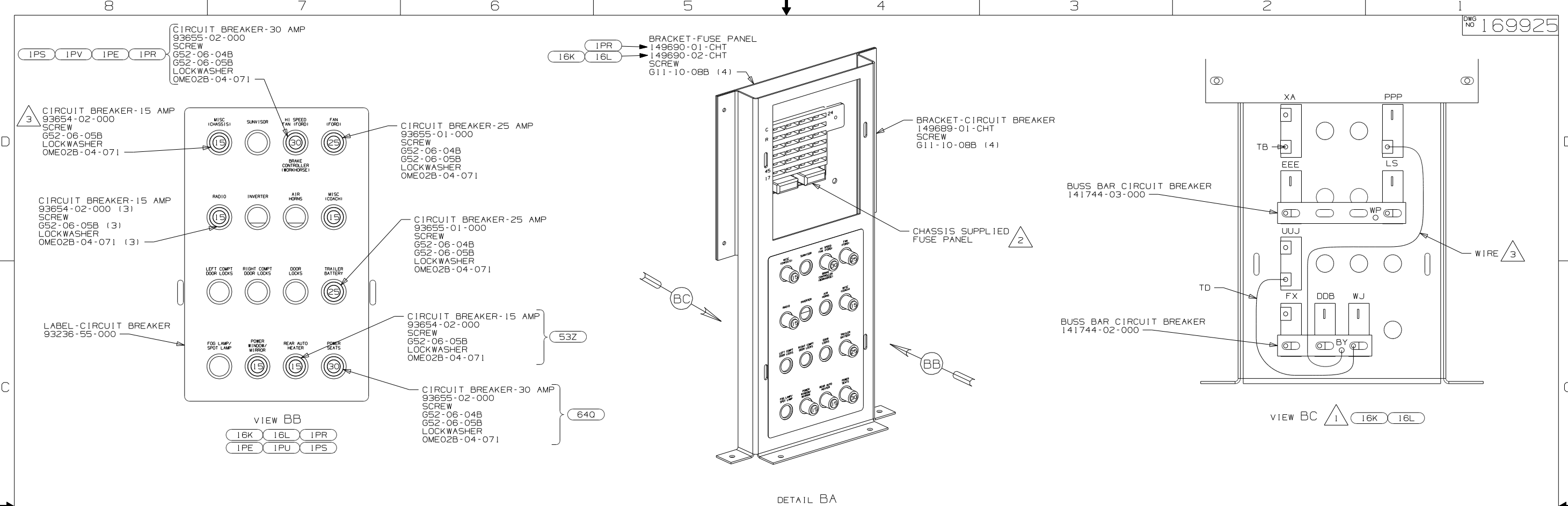
CAUTION

If you lack the skills, tools or equipment to perform diagnostic or repair work leave such work to an authorized Winnebago Industries dealer or other qualified shop.

DRAWING NO.	MODEL	SHEETS
169925-01	D-SERIES	1,2,3,4,9
169925-02	J-SERIES	5,6,7,8,9
169925-03	K-SERIES	5,6,7,8,9

RELEASE	REV DATE	DWG NO	169925
REV ZONE	REVISION RECORD	DATE	01/10/16





- 4 CONNECT DDG TO HOLE IN BUSS BAR OR TO BOTTOM LUG OF 30 AMP BREAKER.
- 3 USED ON D37L & D33C ONLY.
- 2 WORKHORSE PANEL SHOWN.
- 1 ALL CIRCUITS ARE IN WIRE ASM-IP,MAIN.

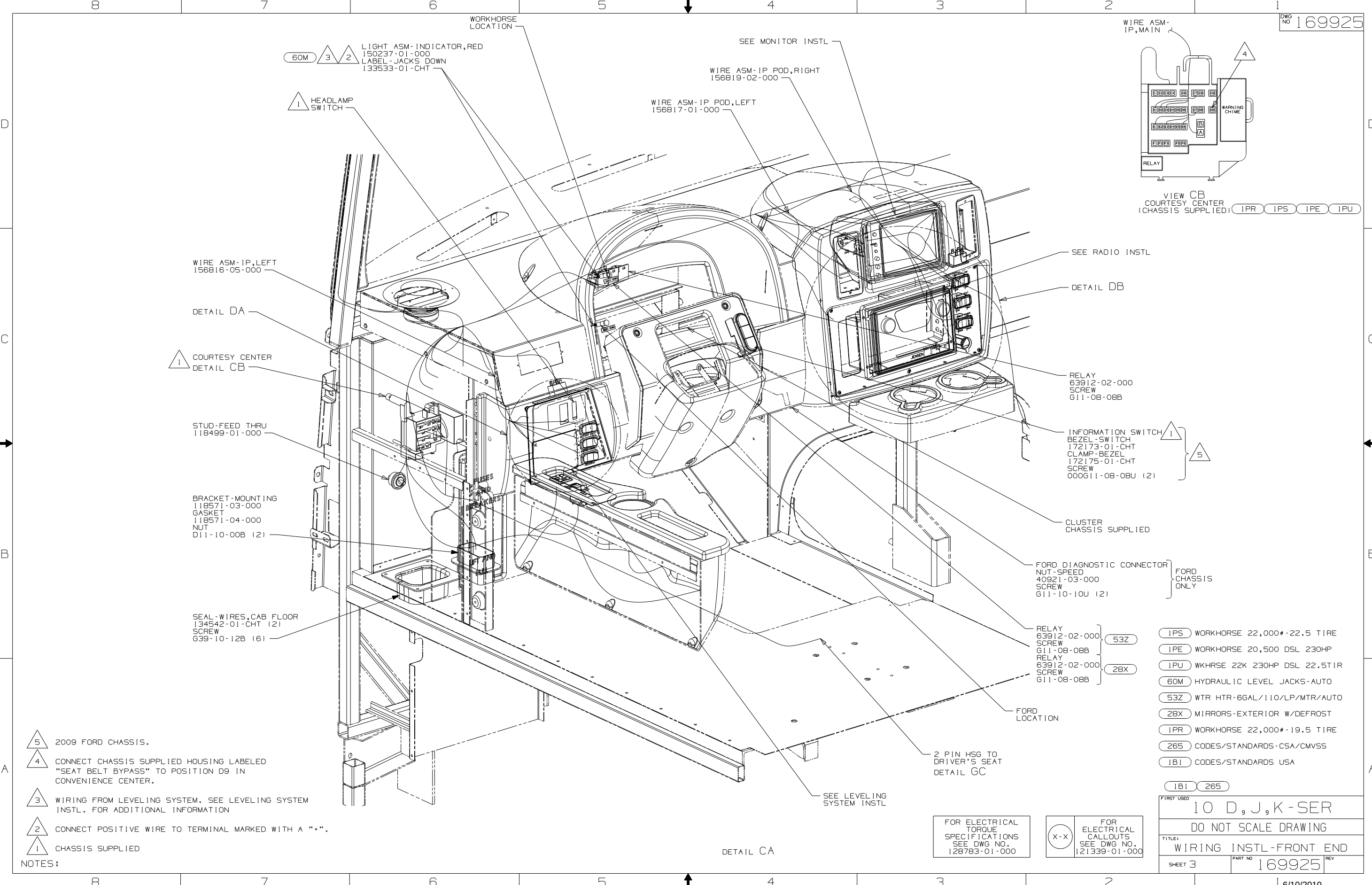
NOTES:

FOR ELECTRICAL
TORQUE
SPECIFICATIONS
SEE DWG NO.
128783-01-000

FOR
ELECTRICAL
CALLOUTS
SEE DWG NO.
121339-01-000

- 1PE WORKHORSE 20,500 DSL 230HP
- 1PU WKHRSE 22K 230HP DSL 22.5TIR
- 1PS WORKHORSE 22,000#-22.5 TIRE
- 640 SEAT PED-6-WAY POWER DRIVER
- 53Z WTR HTR-6GAL/110/LP/MTR/AUTO
- 1PR WORKHORSE 22,000#-19.5 TIRE
- 16L FORD 22,000#-22.5 AL WHL
- 16K FORD CHASSIS 22,000
- 265 CODES/STANDARDS-CSA/CMVSS
- 1B1 CODES/STANDARDS USA

10 D, J, K-SER	
DO NOT SCALE DRAWING	
TITLE: WIRING INSTL-FRONT END	
SHEET 2	PART NO 169925



8	7	6	5	4	3	2	1
169925							
VIEW CB COURTESY CENTER (CHASSIS SUPPLIED)							
IPR IPS IPE IPU							
RELAY 63912-02-000 SCREW 611-08-08B							
INFORMATION SWITCH BEZEL-SWITCH 172173-01-CHT CLAMP-BEZEL 172175-01-CHT SCREW 000611-08-08U (2)							
CLUSTER CHASSIS SUPPLIED							
FORD DIAGNOSTIC CONNECTOR NUT-SPEED 40921-03-000 SCREW 611-10-10U (2)							
FORD CHASSIS ONLY							
RELAY 63912-02-000 SCREW 611-08-08B RELAY 63912-02-000 SCREW 611-08-08B							
53Z 28X							
FORD LOCATION							
2 PIN HSG TO DRIVER'S SEAT DETAIL GC							
SEE LEVELING SYSTEM INSTL							
DETAIL CA							
FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 128783-01-000							
FOR ELECTRICAL CALLOUTS SEE DWG NO. 121339-01-000							
X-X							
FIRST USED 10 D, J, K-SER DO NOT SCALE DRAWING TITLE: WIRING INSTL-FRONT END SHEET 3 PART NO 169925 REV							
16/10/2010							

5 2009 FORD CHASSIS.

4 CONNECT CHASSIS SUPPLIED HOUSING LABELED "SEAT BELT BYPASS" TO POSITION D9 IN CONVENIENCE CENTER.

3 WIRING FROM LEVELING SYSTEM. SEE LEVELING SYSTEM INSTL. FOR ADDITIONAL INFORMATION

2 CONNECT POSITIVE WIRE TO TERMINAL MARKED WITH A "+".

1 CHASSIS SUPPLIED

NOTES:

LAMP ASM
157655-01-CHT
STRAP
120840-24-CHT
SCREW
611-10-20U (2)

INSERT-SWITCH
155589-02-CHT
WASHER
E13-10-00U (4)
NUT
D65-08-00U (4)
APPLIQUE
156292-08-CHT

LAMP ASM
157655-01-CHT
STRAP
120840-24-CHT
SCREW
611-10-20U (2)

INSERT-SWITCH
155589-04-CHT
MOUNT-HEADLAMP-SWITCH
155516-01-CHT
SEAL
155523-01-CHT
WASHER
E13-10-00U (7)
NUT
D65-08-00U (7)
APPLIQUE
156292-10-CHT

1A4
PLATE
134149-01-CHT
APPLIQUE
156292-11-CHT
SCREW
611-08-12U (4)

SWITCH-BATTERY BOOST
145638-04-CHT

SWITCH-GRADE BRAKE
145638-01-CHT
DETAIL DE

SWITCH-OVERDRIVE
145638-14-CHT
DETAIL DF

SWITCH-BATTERY BOOST
145638-04-CHT

1A4
PLATE
134149-01-CHT
APPLIQUE
156292-11-CHT
SCREW
611-08-12U (4)

DETAIL DA (IPR)

DETAIL DA (16L)

LAMP ASM
157655-01-CHT
STRAP
120840-24-CHT
SCREW
611-10-20U (2)

SWITCH-BLANK
145754-01-CHT

INSERT-SWITCH
155589-08-CHT
WASHER
E13-10-00U (4)
NUT
D65-08-00U (4)
APPLIQUE
156292-21-CHT

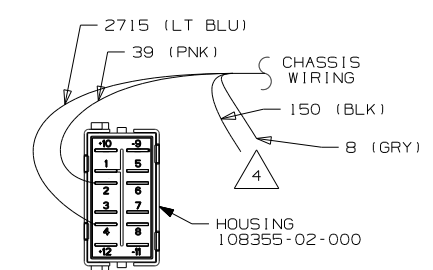
HEADLAMP-SWITCH
REF
NUT
D27-08-00U (3)

SWITCH-BATTERY BOOST
145638-04-CHT

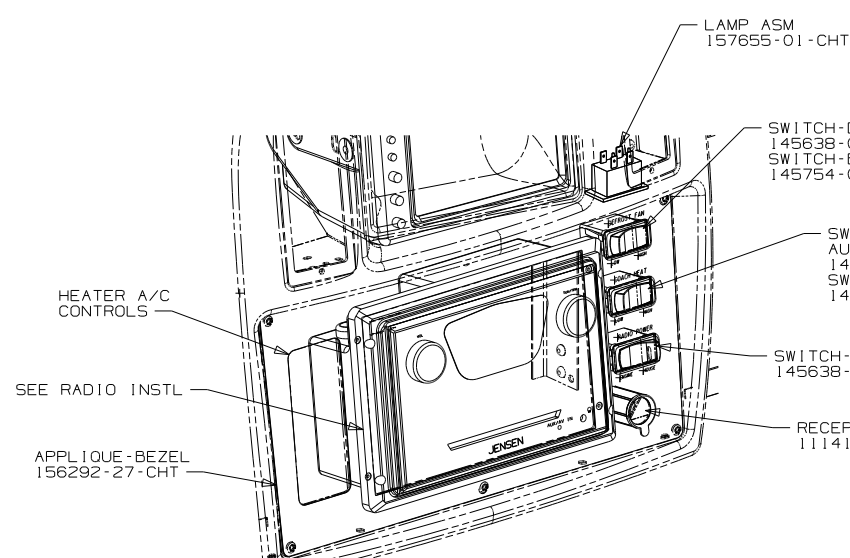
SWITCH-EXHAUST BRAKE
145638-08-CHT
WIRE ASM-EXHAUST BRAKE
157534-02-000

1A4
PLATE
134149-01-CHT
APPLIQUE
156292-11-CHT
SCREW
611-08-12U (4)

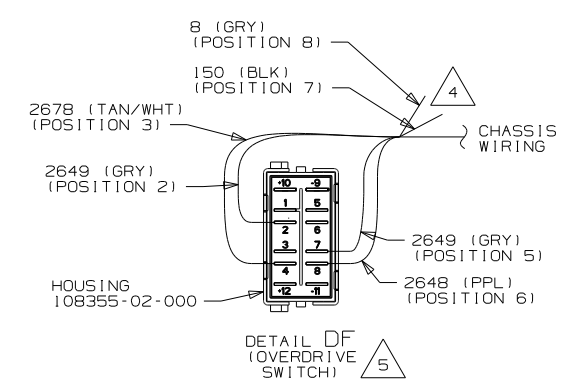
DETAIL DA (ILL)



DETAIL DE
(GRADE BRAKE
SWITCH)

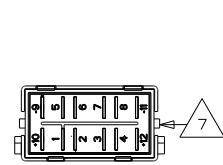


DETAIL DB

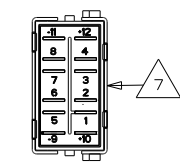


DETAIL DF
(OVERDRIVE
SWITCH)

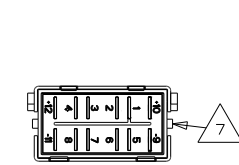
- NOTES:
- 7 WITH SWITCH INSTALLED THIS SIDE OF SWITCH WILL FACE LEFT SIDEWALL.
 - 6 DETAIL IS LOOKING AT SWITCH FROM THE BACK SIDE OF SWITCH AS ITS INSTALLED.
 - 5 POSITIONS NOTED IN PARENTHESIS ARE LOCATIONS IN WORKHORSE SUPPLIED HOUSING.
 - 4 REMOVE TERMINALS & TAPE BACK TO LOOM.
 - 3 WITHOUT (36N)
 - 2 SEE DETAIL DC FOR ORIENTATION.
 - 1 SEE DETAIL DD FOR ORIENTATION.



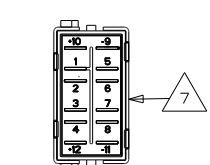
DETAIL DC
(MOUNTED
HORIZONTALLY)



DETAIL DC
(MOUNTED
VERTICALLY)



DETAIL DD
(MOUNTED
HORIZONTALLY)



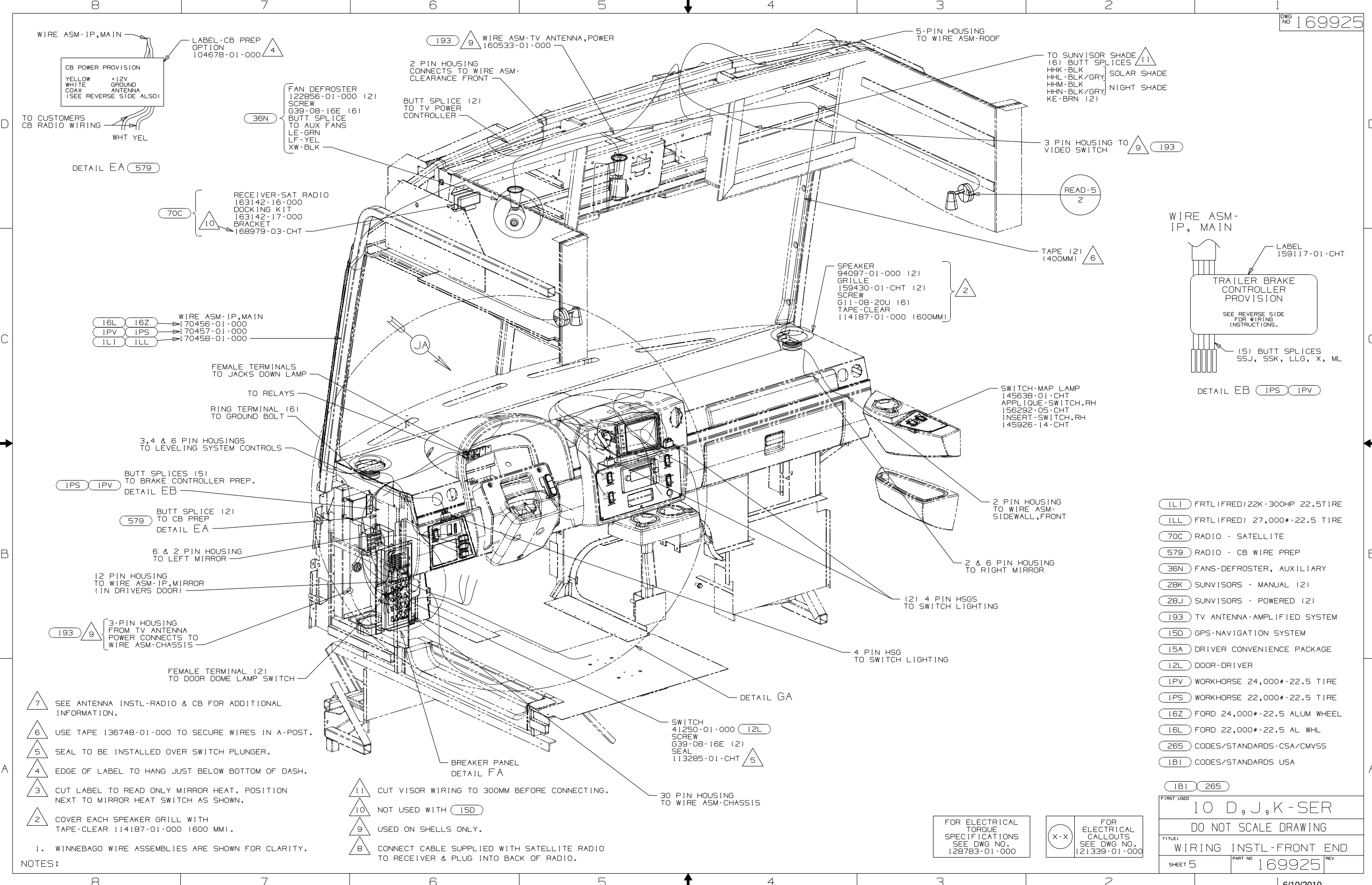
DETAIL DD
(MOUNTED
VERTICALLY)

FOR ELECTRICAL
TORQUE
SPECIFICATIONS
SEE DWG NO.
128783-01-000

FOR ELECTRICAL
CALLOUTS
SEE DWG NO.
121339-01-000

- 53Z WTR HTR-6GAL/110/LP/MTR/AUTO
- 53F WATER HEATER-ELEC. IGNITION
- 36N FANS-DEFROSTER, AUXILIARY
- 1A4 LEVELING JACK WITHOUT
- 1PR WORKHORSE 22,000#-19.5 TIRE
- 1LL FRTL(FRED) 27,000#-22.5 TIRE
- 16L FORD 22,000#-22.5 AL WHL
- 16K FORD CHASSIS 22,000
- 265 CODES/STANDARDS-CSA/CMVSS
- 1B1 CODES/STANDARDS USA

FIRST USED		10 D, J, K-SER	
DO NOT SCALE DRAWING			
TITLE:		WIRING INSTL-FRONT END	
SHEET 4		PART NO 169925	
		REV	



8 7 6 5 4 3 2 1

WIRE ASM-IP, MAIN

CB POWER PROVISION

YELLOW +12V

WHITE GROUND

COAX ANTENNA

(SEE REVERSE SIDE ALSO)

TO CUSTOMERS CB RADIO WIRING

WHT YEL

DETAIL EA 579

70C

RECEIVER-SAT RADIO

163142-16-000

DOCKING KIT

163142-17-000

BRACKET

168979-03-CHT

16L 16Z

1PV IPS

1LI 1LL

WIRE ASM-IP, MAIN

70456-01-000

70457-01-000

70458-01-000

FEMALE TERMINALS TO JACKS DOWN LAMP

TO RELAYS

RING TERMINAL (6) TO GROUND BOLT

3, 4 & 6 PIN HOUSINGS TO LEVELING SYSTEM CONTROLS

BUTT SPLICES (5) TO BRAKE CONTROLLER PREP. DETAIL EB

IPS IPV

579

BUTT SPLICE (2) TO CB PREP DETAIL EA

6 & 2 PIN HOUSING TO LEFT MIRROR

12 PIN HOUSING TO WIRE ASM-IP, MIRROR (IN DRIVERS DOOR)

193 9

3-PIN HOUSING FROM TV ANTENNA POWER CONNECTS TO WIRE ASM-CHASSIS

FEMALE TERMINAL (2) TO DOOR DOME LAMP SWITCH

7

SEE ANTENNA INSTL-RADIO & CB FOR ADDITIONAL INFORMATION.

6

USE TAPE 136748-01-000 TO SECURE WIRES IN A-POST.

5

SEAL TO BE INSTALLED OVER SWITCH PLUNGER.

4

EDGE OF LABEL TO HANG JUST BELOW BOTTOM OF DASH.

3

CUT LABEL TO READ ONLY MIRROR HEAT. POSITION NEXT TO MIRROR HEAT SWITCH AS SHOWN.

2

COVER EACH SPEAKER GRILL WITH TAPE-CLEAR 114187-01-000 (600 MM).

1. WINNEBAGO WIRE ASSEMBLIES ARE SHOWN FOR CLARITY.

NOTES:

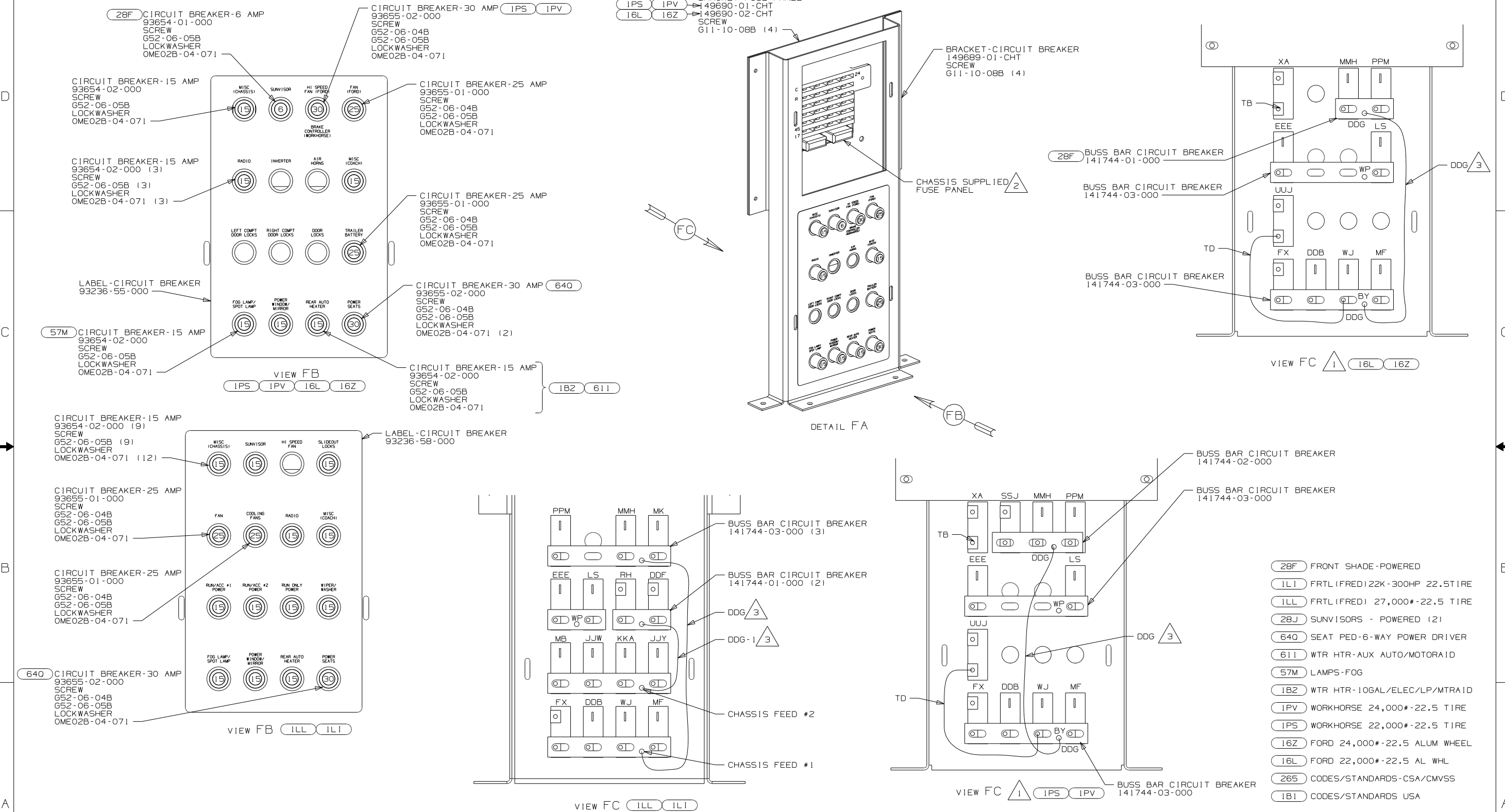
- 11 CUT VISOR WIRING TO 300MM BEFORE CONNECTING.
- 10 NOT USED WITH 15D
- 9 USED ON SHELLS ONLY.
- 8 CONNECT CABLE SUPPLIED WITH SATELLITE RADIO TO RECEIVER & PLUG INTO BACK OF RADIO.

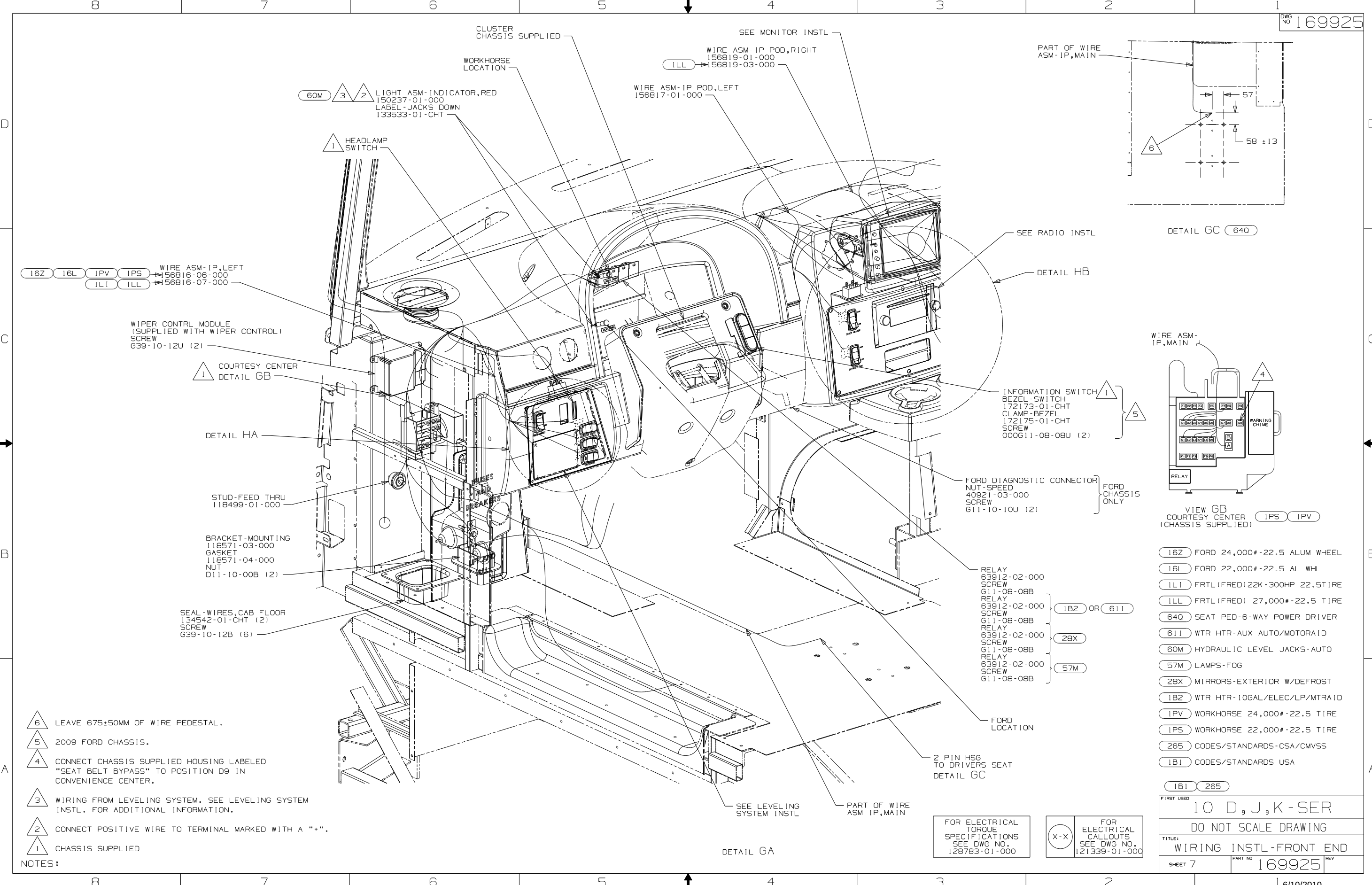
FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 128783-01-000

FOR ELECTRICAL CALLOUTS SEE DWG NO. 121339-01-000

- 1LI FRTL(FRED)22K-300HP 22.5TIRE
- 1LL FRTL(FRED) 27,000#-22.5 TIRE
- 70C RADIO - SATELLITE
- 579 RADIO - CB WIRE PREP
- 36N FANS-DEFROSTER, AUXILIARY
- 28K SUNVISORS - MANUAL (2)
- 28J SUNVISORS - POWERED (2)
- 193 TV ANTENNA-AMPLIFIED SYSTEM
- 15D GPS-NAVIGATION SYSTEM
- 15A DRIVER CONVENIENCE PACKAGE
- 12L DOOR-DRIVER
- 1PV WORKHORSE 24,000#-22.5 TIRE
- 1PS WORKHORSE 22,000#-22.5 TIRE
- 16Z FORD 24,000#-22.5 ALUM WHEEL
- 16L FORD 22,000#-22.5 AL WHL
- 265 CODES/STANDARDS-CSA/CMVSS
- 1B1 CODES/STANDARDS USA

FIRST USED		
10 D, J, K -SER		
DO NOT SCALE DRAWING		
TITLE: WIRING INSTL-FRONT END		
SHEET 5	PART NO 169925	REV





16Z 16L 1PV 1PS
1L1 1LL
WIRE ASM-IP, LEFT
156816-06-000
156816-07-000

WIPER CONTRL MODULE
(SUPPLIED WITH WIPER CONTRL)
SCREW
639-10-12U (2)

1
COURTESY CENTER
DETAIL GB

DETAIL HA

STUD-FEED THRU
118499-01-000

BRACKET-MOUNTING
118571-03-000
GASKET
118571-04-000
NUT
D11-10-00B (2)

SEAL-WIRES, CAB FLOOR
134542-01-CHT (2)
SCREW
639-10-12B (6)

- 6 LEAVE 675±50MM OF WIRE PEDESTAL.
- 5 2009 FORD CHASSIS.
- 4 CONNECT CHASSIS SUPPLIED HOUSING LABELED "SEAT BELT BYPASS" TO POSITION D9 IN CONVENIENCE CENTER.
- 3 WIRING FROM LEVELING SYSTEM. SEE LEVELING SYSTEM INSTL. FOR ADDITIONAL INFORMATION.
- 2 CONNECT POSITIVE WIRE TO TERMINAL MARKED WITH A "+".
- 1 CHASSIS SUPPLIED

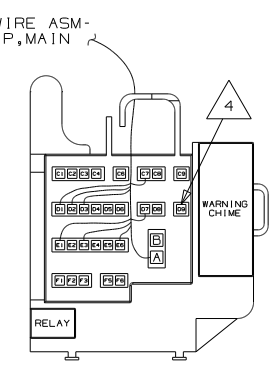
NOTES:

DETAIL GA

FOR ELECTRICAL
TORQUE
SPECIFICATIONS
SEE DWG NO.
128783-01-000

FOR ELECTRICAL
CALLOUTS
SEE DWG NO.
121339-01-000

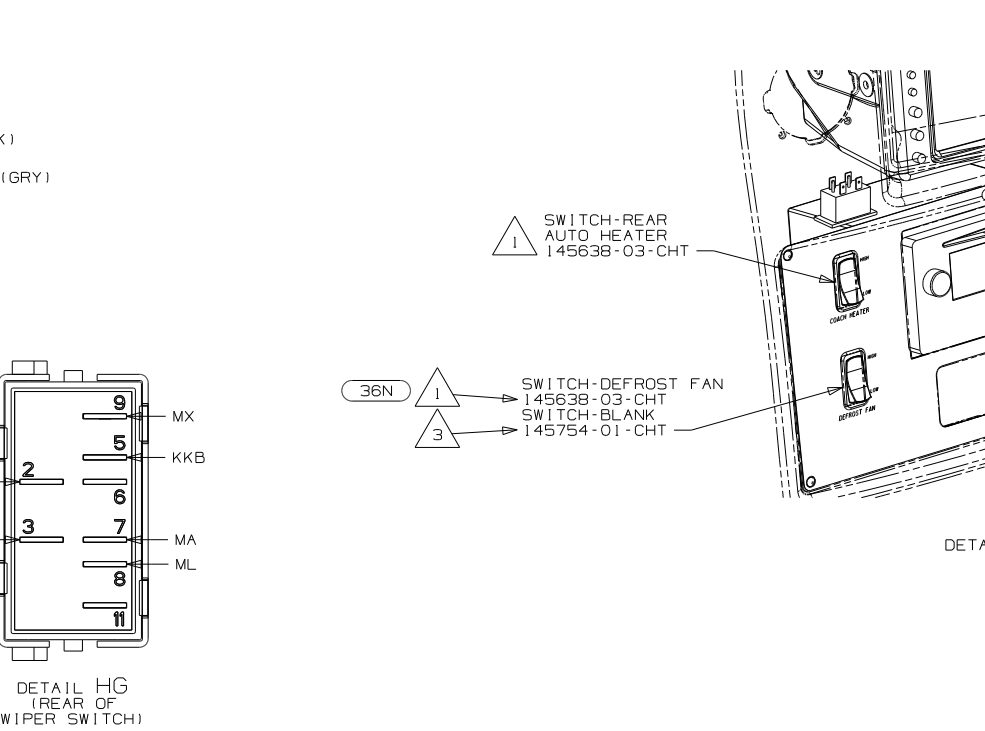
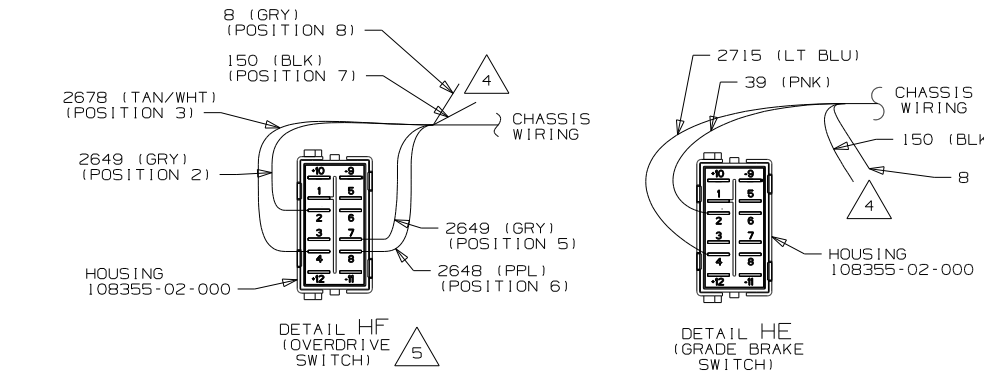
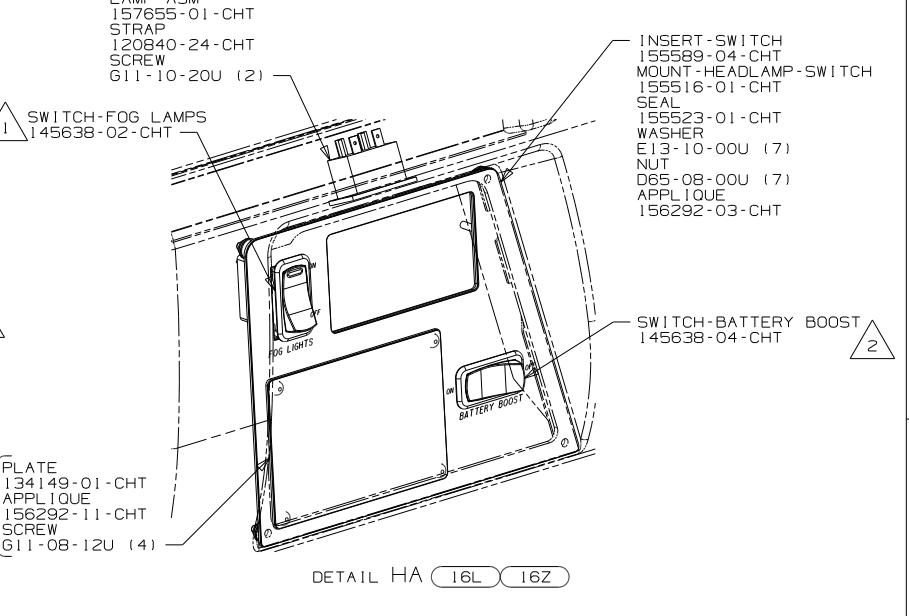
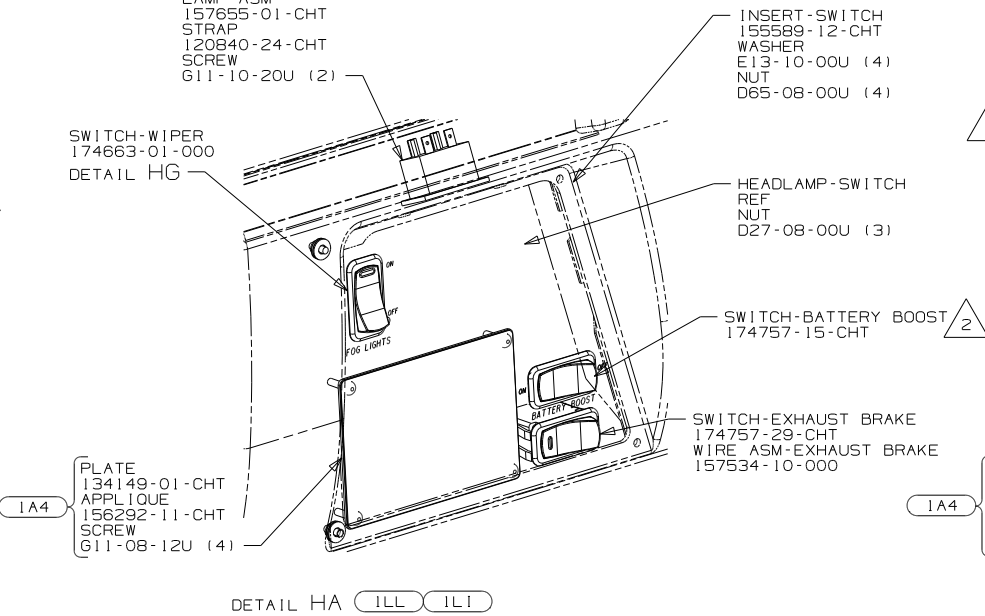
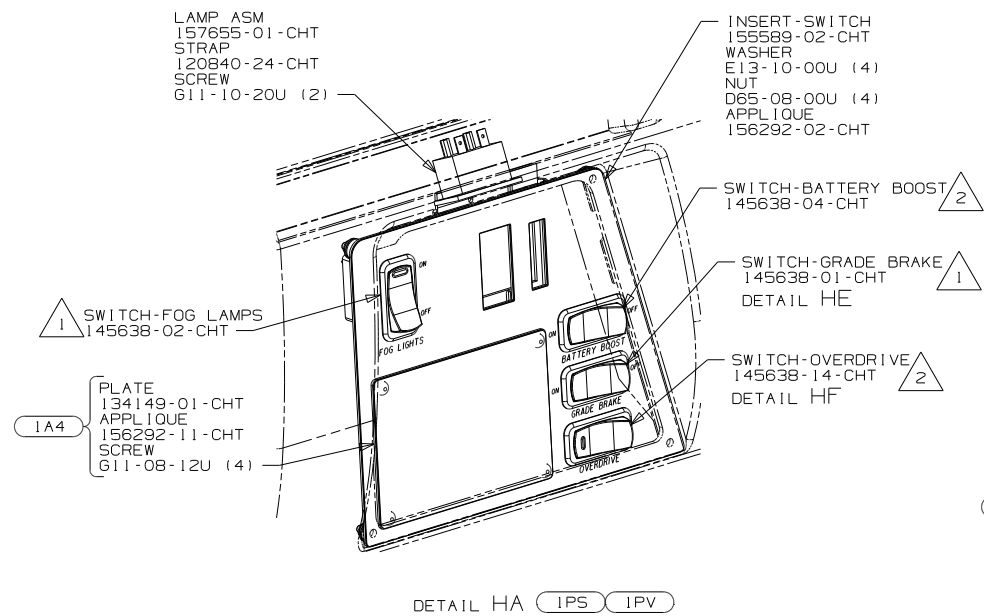
DETAIL GC 640



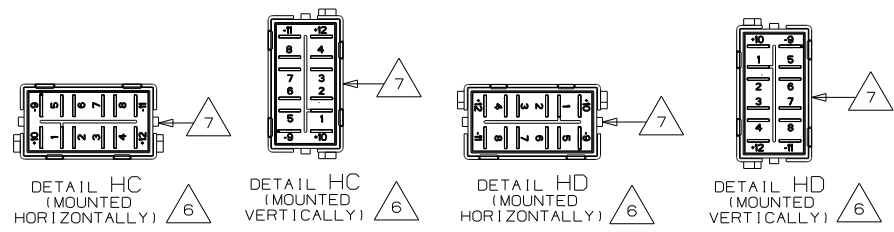
VIEW GB
COURTESY CENTER
(CHASSIS SUPPLIED)

- 16Z FORD 24,000#-22.5 ALUM WHEEL
- 16L FORD 22,000#-22.5 AL WHL
- 1L1 FRTL(FRED) 22K-300HP 22.5TIRE
- 1LL FRTL(FRED) 27,000#-22.5 TIRE
- 640 SEAT PED-6-WAY POWER DRIVER
- 611 WTR HTR-AUX AUTO/MOTORAID
- 60M HYDRAULIC LEVEL JACKS-AUTO
- 57M LAMPS-FOG
- 28X MIRRORS-EXTERIOR W/DEFROST
- 1B2 WTR HTR-10GAL/ELEC/LP/MTRAID
- 1PV WORKHORSE 24,000#-22.5 TIRE
- 1PS WORKHORSE 22,000#-22.5 TIRE
- 265 CODES/STANDARDS-CSA/CMVSS
- 1B1 CODES/STANDARDS USA

FIRST USED	
10 D, J, K-SER	
DO NOT SCALE DRAWING	
TITLE:	
WIRING INSTL-FRONT END	
SHEET 7	PART NO 169925



- NOTES:
- 7 WITH SWITCH INSTALLED THIS SIDE OF SWITCH WILL FACE LEFT SIDEWALL.
 - 6 DETAIL IS LOOKING AT SWITCH FROM THE BACK SIDE OF SWITCH AS ITS INSTALLED.
 - 5 POSITIONS NOTED IN PARENTHESIS ARE LOCATIONS IN WORKHORSE SUPPLIED HOUSING.
 - 4 REMOVE TERMINALS & TAPE BACK TO LOOM.
 - 3 WITHOUT (36N)
 - 2 SEE DETAIL HC FOR ORIENTATION.
 - 1 SEE DETAIL HD FOR ORIENTATION.

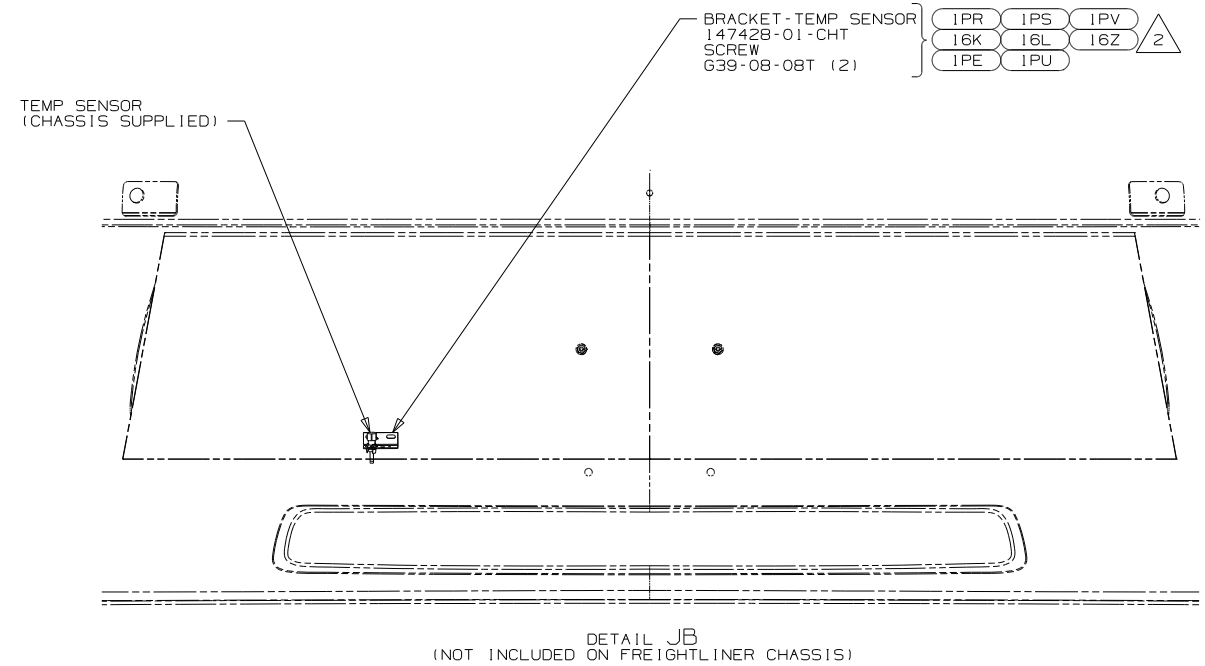
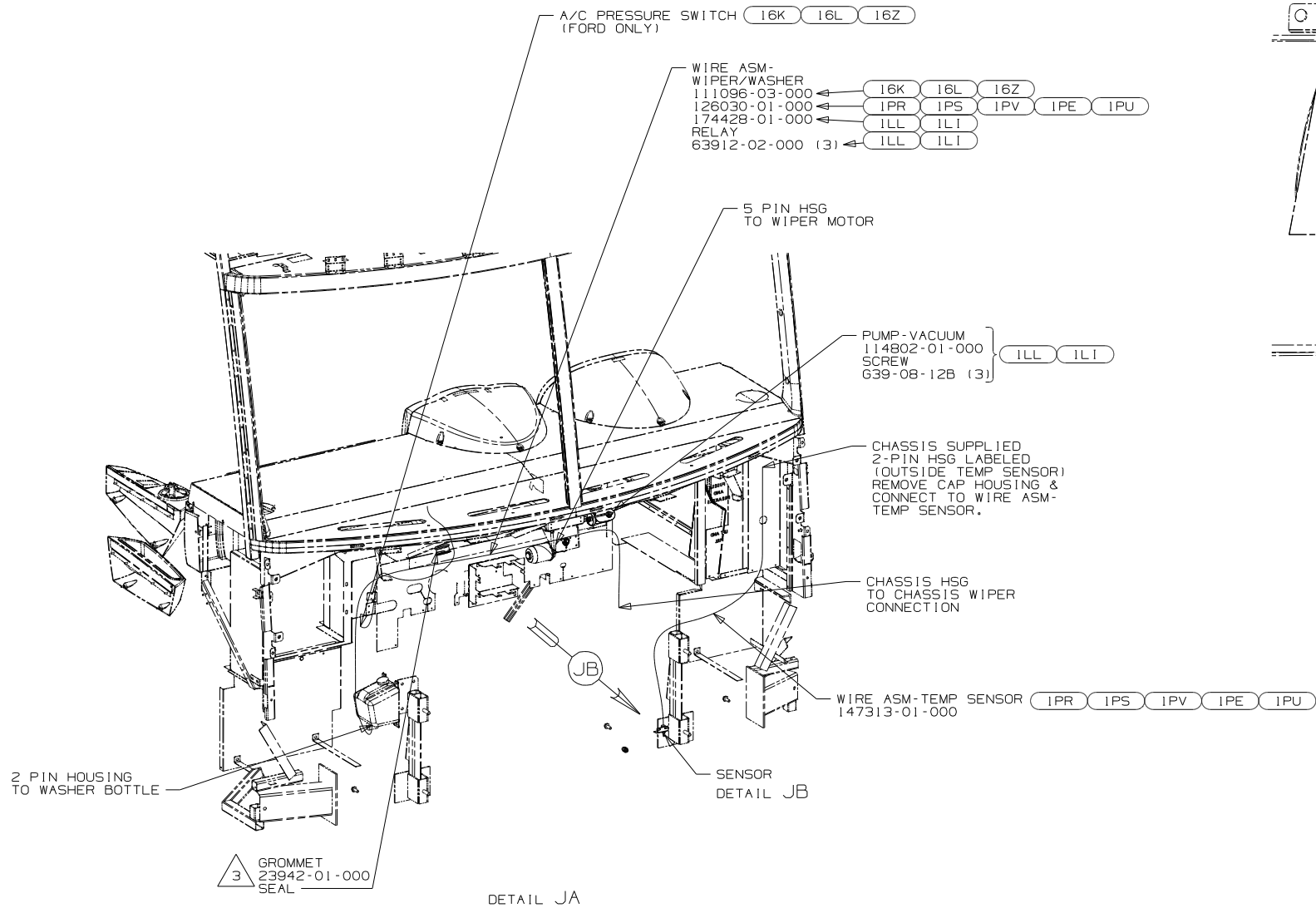


- (1L1) FRTL(FRED)22K-300HP 22.5TIRE
- (1LL) FRTL(FRED) 27,000#-22.5 TIRE
- (36N) FANS-DEFROSTER, AUXILIARY
- (1A4) LEVELING JACK WITHOUT
- (1PV) WORKHORSE 24,000#-22.5 TIRE
- (1PS) WORKHORSE 22,000#-22.5 TIRE
- (16Z) FORD 24,000#-22.5 ALUM WHEEL
- (16L) FORD 22,000#-22.5 AL WHL
- (265) CODES/STANDARDS-CSA/CMVSS
- (1B1) CODES/STANDARDS USA

FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 128783-01-000

FOR ELECTRICAL CALLOUTS SEE DWG NO. 121339-01-000

FIRST USED	
10 D, J, K-SER	
DO NOT SCALE DRAWING	
TITLE: WIRING INSTL-FRONT END	
SHEET 8	PART NO 169925



- 3 ROUTE WIRES THROUGH HOLE IN STEEL.
- 2 MOUNT SENSOR OR SENSOR BRACKET TO HORIZONTAL TUBE ON FIBERGLASS AS SHOWN.
1. GATHER ALL EXCESS WIRE AFTER MAKING ALL CONNECTIONS. BUNDLE AND SECURE WITH WIRE TIE 8343-01-000 OR 93147-01-000.

NOTES:

FOR ELECTRICAL TORQUE SPECIFICATIONS SEE DWG NO. 128783-01-000

FOR ELECTRICAL CALLOUTS SEE DWG NO. 121339-01-000

(1LI)	FRTL (FRED) 22K-300HP 22.5TIRE
(1PU)	WKHRSE 22K 230HP DSL 22.5TIR
(1PE)	WORKHORSE 20,500 DSL 230HP
(1PV)	WORKHORSE 24,000#-22.5 TIRE
(1PS)	WORKHORSE 22,000#-22.5 TIRE
(1PR)	WORKHORSE 22,000#-19.5 TIRE
(1LL)	FRTL (FRED) 27,000#-22.5 TIRE
(16Z)	FORD 24,000#-22.5 ALUM WHEEL
(16L)	FORD 22,000#-22.5 AL WHL
(16K)	FORD CHASSIS 22,000
(265)	CODES/STANDARDS-CSA/CMVSS
(1B1)	CODES/STANDARDS USA

(1B1) (265)

FIRST USED		10 D, J, K-SER	
		DO NOT SCALE DRAWING	
TITLE:		WIRING INSTL-FRONT END	
SHEET 9	PART NO	169925	REV